

**2023 AACC  
ANNUAL  
SCIENTIFIC  
MEETING+  
CLINICAL  
LAB EXPO**

2023 Annual Scientific  
Meeting Accredited by **AACC**

WE ARE  
CREATORS+  
CHALLENGERS  
PIONEERS+  
PATHFINDERS  
DREAMERS+  
DISRUPTORS

**PROGRAM & POSTER  
ABSTRACTS GUIDE**



# WE ARE ONE

## GLOBAL LAB MEDICINE COMMUNITY

Welcome to Anaheim for the 2023 AACC Annual Scientific Meeting & Clinical Lab Expo — the premier destination for leaders from every area of laboratory medicine.

This year we celebrate the association's 75th anniversary, representing decades of innovation and collective action that enable laboratories worldwide to deliver advanced, patient-centered care.

The AACC Annual Meeting Organizing Committee, comprised of 12 experts representing the breadth of laboratory medicine, began their work more than a year ago to oversee the planning, development, and delivery of this scientific program. AACC is accredited by the Accreditation Council for Continuing Medical Education (ACCME®) to provide continuing medical education for physicians. AACC also offers ACCENT® credit for laboratory professionals.

For more than seven decades, our association has been at the forefront of laboratory medicine, propelling scientific and professional advancement. Now, as we transition to our new name — the Association for Diagnostics & Laboratory Medicine (ADLM) — we prepare for an exciting new chapter that aligns with the evolving landscape of science and laboratory practices.

The name change reflects an unbroken legacy of dedication to driving progress, embracing new possibilities, and empowering people like you who are shaping the future of laboratory medicine.

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# GENERAL MEETING INFORMATION

All locations are in the Anaheim Convention Center unless otherwise noted.

## REGISTRATION

**General Registration**

**Location: Exhibit Hall E**

**Phone: 714-765-2030**

Sunday 7:30 a.m. - 6:30 p.m.

Monday - Wednesday 7:00 a.m. - 5:00 p.m.

Thursday 8:00 a.m. - 12:00 p.m.

## INFORMATION DESK

**Location: Exhibit Hall B Lobby**

Staff will be available to answer general questions and assist with event and meeting room locations.

## HOUSING

**Location: Exhibit Hall E**

Representatives from SPARGO, ADLM's official housing agency, will be available to assist with your hotel accommodations.

## HEADQUARTERS OFFICE

**Location: 303B**

**Phone: 714-765-2014**

Contact the Headquarters Office if you have general questions at the meeting. Also use this number if you have an emergency situation.

### Headquarters Office Hours

Saturday 12:00 p.m. - 5:00 p.m.

Sunday 7:30 a.m. - 6:30 p.m.

Monday - Wednesday 7:00 a.m. - 5:00 p.m.

Thursday 8:00 a.m. - 12:00 p.m.

## FOLLOW ADLM

@myADLM on Twitter and use #2023AACC to join the conversation



## BAG & COAT CHECK

**Location: Hall E Lobby**

Monday - Wednesday 7:00 a.m. - 6:00 p.m.

Thursday 7:00 a.m. - 1:00 p.m.

*Cost per item: coat check \$3.50,  
bag or poster \$4.50*

## LOST & FOUND

**Location: 201D**

**Phone: 714-765-2016**

Security will be available to help locate and distribute lost and found items.

## FIRST AID

**Location: Exhibit Hall B Lobby**

**Emergency Phone Number: 714-765-8975**

Dial emergency phone number from any telephone in the convention center.

In hotels, dial 0 from any phone.

## NURSING ROOM

**Location: 108 and 127**

There are two nursing mother's rooms available for use within Anaheim Convention Center South: room 108 located in Lobby A and room 127 located in Lobby D.

## SPEAKER READY ROOM

**Location: 304A**

All moderators and speakers need to check in to the Speaker Ready Room at least two hours prior to the session start time. Speakers will be able to check in with ADLM staff, turn in updated presentations, schedule a time to run through their presentation, and pick up per diem checks, if applicable.

### Speaker Ready Room Hours

Saturday 12:00 p.m. - 5:00 p.m.

Sunday - Wednesday 7:30 a.m. - 5:00 p.m.

Thursday 7:30 a.m. - 12:00 p.m.

## PRESS ROOM

**Location:** 213A

**Phone:** 714-765-2025

Sunday	9:00 a.m. - 5:00 p.m.
Monday - Wednesday	8:00 a.m. - 5:00 p.m.
Thursday	8:00 a.m. - 12:00 p.m.

Members of the media can register for the 2023 AACC Annual Scientific Meeting & Clinical Lab Expo in the press room, and pre-registered media can pick up their badges and other meeting materials here. The press room is available for journalists who wish to hold interviews away from the exhibit floor and other public areas, and press room staff can also help to set up interviews between reporters and scientific session speakers. Additionally, registered media are welcome to work on stories here.

## HEALTH & SAFETY

Your health and safety are our top priority. Learn more about the 2023 AACC Annual Scientific Meeting & Clinical Lab Expo Health and Safety Plan at [meeting.aacc.org/covid19](https://meeting.aacc.org/covid19) or in the mobile app. If you are experiencing new COVID-19 symptoms, please contact ADLM at 714-765-2014.

## PHOTOGRAPHY

Except for photography specifically authorized by ADLM, use of video and photographic equipment is prohibited on the exhibit floor and in the meeting rooms. Photography of poster sessions is permitted only with expressed permission of the presenting author.

## ADLM MEMBERSHIP

Not a member? Benefit immediately from ADLM membership — stop by either ADLM booth #2235 during Expo hours or the Conference Registration Desk. Customize your membership by participating in one or more scientific divisions—first year members get one Division free. Dues are as follows: Professional \$254; Professional Affiliate \$150; Transitional \$87; Express \$65; Trainee \$42.

### Member Lounge

ADLM members are invited to visit the Member Lounge located at the ADLM booth #2235 on the Clinical Lab Expo show floor during Expo hours. This members-only benefit provides a place to recharge between sessions, mingle with colleagues, and enjoy light refreshments.

## CLINICAL LAB EXPO

**Location:** Exhibit Hall A-D

Tuesday - Wednesday  
9:30 a.m. - 5:00 p.m.

Thursday  
9:30 a.m. - 12:00 p.m.

*Refer to the Exhibit Guide or the mobile app for exhibit listings and booth descriptions.*

ADLM permits individuals age 16 and 17 with a photo ID to register for and attend the 2023 AACC Annual Scientific Meeting & Clinical Lab Expo, if accompanied by a registered adult. Children under 16 are not permitted on the exhibit floor or in the educational sessions at any time.

## EVENTS

### OPENING MIXER

SUNDAY, JULY 23 | 6:45 p.m. - 8:00 p.m.

Join us at the Anaheim Convention Center's Grand Plaza to celebrate AACC's evolution into the Association for Diagnostics & Laboratory Medicine (ADLM).

### UNI5K **New This Year!**

MONDAY, JULY 24 | 6:00 a.m. - 7:00 a.m.

Join us for the inaugural 5K walk/run being held to honor the power of laboratory medicine. The event will occur on a path at the Anaheim Convention Center campus and is being hosted in partnership with the UNIVANTS of Healthcare Excellence Program. Registration closes Sunday, July 23 at 5:00 p.m. U.S. Pacific Time. Visit [meeting.aacc.org/UNI5K](https://meeting.aacc.org/UNI5K) to register.

### AUXILIARY EVENTS

VARIOUS DATES AND TIMES

2023 AACC offers a variety of special events where attendees can meet up with colleagues from across the globe. Visit [meeting.aacc.org/special\\_events](https://meeting.aacc.org/special_events) or the mobile app.

### CLINICAL LAB EXPO HAPPY HOUR

TUESDAY, JULY 25 | 4:00 p.m. - 5:00 p.m.

Mix and mingle at the Clinical Lab Expo Happy Hour. One complimentary drink per person.

### RECHARGE ON WEDNESDAY

WEDNESDAY, JULY 26 | 2:00 p.m.

Light refreshments are available on the expo floor. Please note these are first come, first served, and will only be available while supplies last.

### DxPx US INVESTOR & INDUSTRY PARTNERING CONFERENCE & STARTUP CITY

At the startup city, life science decision makers will be able to match with our STARTUP CITY entrepreneurs, representing young companies from seed to growth stage, to create valuable business connections.



## THE 2023 MOBILE APP

With hundreds of exhibitors to navigate and dozens of educational sessions to attend, planning your busy days at 2023 AACC is essential to make the most of this dynamic event. You can do all that and more with the FREE 2023 AACC Annual Scientific Meeting & Clinical Lab Expo mobile app.

- **VIEW** details on the Opening Mixer, auxiliary events, and networking opportunities.
- **PLAN** each day with a built-in calendar.
- **GET** the most up-to-date, accurate information.
- **ACCESS** detailed session and speaker information.
- **PARTICIPATE** in session polling and view live session presentations through the interactive audience engagement technology.
- **BROWSE EXHIBITORS** and map out your path through the Expo.
- **BROWSE THROUGH NEW PRODUCTS** available at the Expo.
- **ORGANIZE** your notes about exhibitors or check off which ones you've visited.
- **FOLLOW** live tweets and other social media about the meeting.



#### TO DOWNLOAD:

- Visit [meeting.aacc.org/2023app](https://meeting.aacc.org/2023app)
- Search for the app on the **Apple App Store**, **Google Play** or scan the barcode.

## REGISTRATION TYPES & EVENTS

	Anaheim All Access		Guest/Spouse	Daily Access	Expo Only	Exhibitor
	IN-PERSON + DIGITAL ACCESS		IN-PERSON ONLY			IN-PERSON + DIGITAL ACCESS
<b>EVENTS</b>	- Member - Non-member - Trainee/Student Member - Emeritus Member		Limit one per All Access registrant	Admission/tickets for day registered only	Exhibit Hall access	
<b>Plenary Sessions</b> 10000 Series	✓		✓	✓	✗	✓
<b>Scientific Sessions</b> 30000 Series	✓		✓	✓	✗	✓
<b>Meet the Experts</b> 60000 Series	✓		✓	✓	✗	✓
<b>AACC University</b> 190000 Series	<b>T</b>	\$	✗	\$	✗	\$
<b>Roundtable Sessions</b> 40000 Series morning 50000 Series afternoon	<b>T</b>	\$	✗	\$	✗	\$
<b>Poster Hall</b> Exhibit Hall A-D, July 25 - 26	✓		✓	✓	✓	✓
<b>Special Events</b>	<b>T</b>		\$	\$	\$	\$
<b>Opening Mixer</b> July 23	✓		✓	✓	✗	✓
<b>Clinical Lab Expo</b> Exhibit Hall A-D, July 25 - 27	✓		✓	✓	✓	✓
<b>Industry Presentations</b> (Hotel + Expo Floor)	✓		✓	✓	✓	✓
<b>Startup City presented by DxPx US Conference</b> Exhibit Hall A-D July 25 - 27	✓		✓	✓	✓	✓
<b>Disruptive Technology Special Session</b>	✓		✓	✓	✗	✓
<b>Access to Digital Pass Content</b>	July 28 - August 28, 2023		✗	✗	✗	July 23 - August 28, 2023
<b>Access Session Recordings</b> August 29, 2023 - July 31, 2024	✓ Member \$ Non-member		\$	\$	\$	\$

✓ Included with registration type    **T** Ticket required    \$ May purchase ticket    ✗ Not eligible to purchase ticket    ✗ May NOT attend

# ACTIVITY LOCATIONS

## ANAHEIM CONVENTION CENTER

- Registration
- AACC University Courses, Plenaries, Meet-the-Expert Session, Scientific Sessions including President's Invited Session and Chair's Invited Session, and Roundtables
- Clinical Lab Expo
- Poster Hall
- Product Showcase
- Opening Mixer
- Industry Workshop Theater Presentations
- Lecture Series Presentations

## HILTON ANAHEIM

- Governance Activities
- Affiliated Organization Meetings
- Industry Workshops

## MARRIOTT ANAHEIM

- SYCL Workshop
- Governance Activities
- Affiliated Organization Meetings
- Industry Workshops

For a complete list of events happening at the annual meeting, please download and access the 2023 AACC Annual Scientific Meeting & Clinical Lab Expo mobile app.

To download, visit [meeting.aacc.org/2023app](http://meeting.aacc.org/2023app).

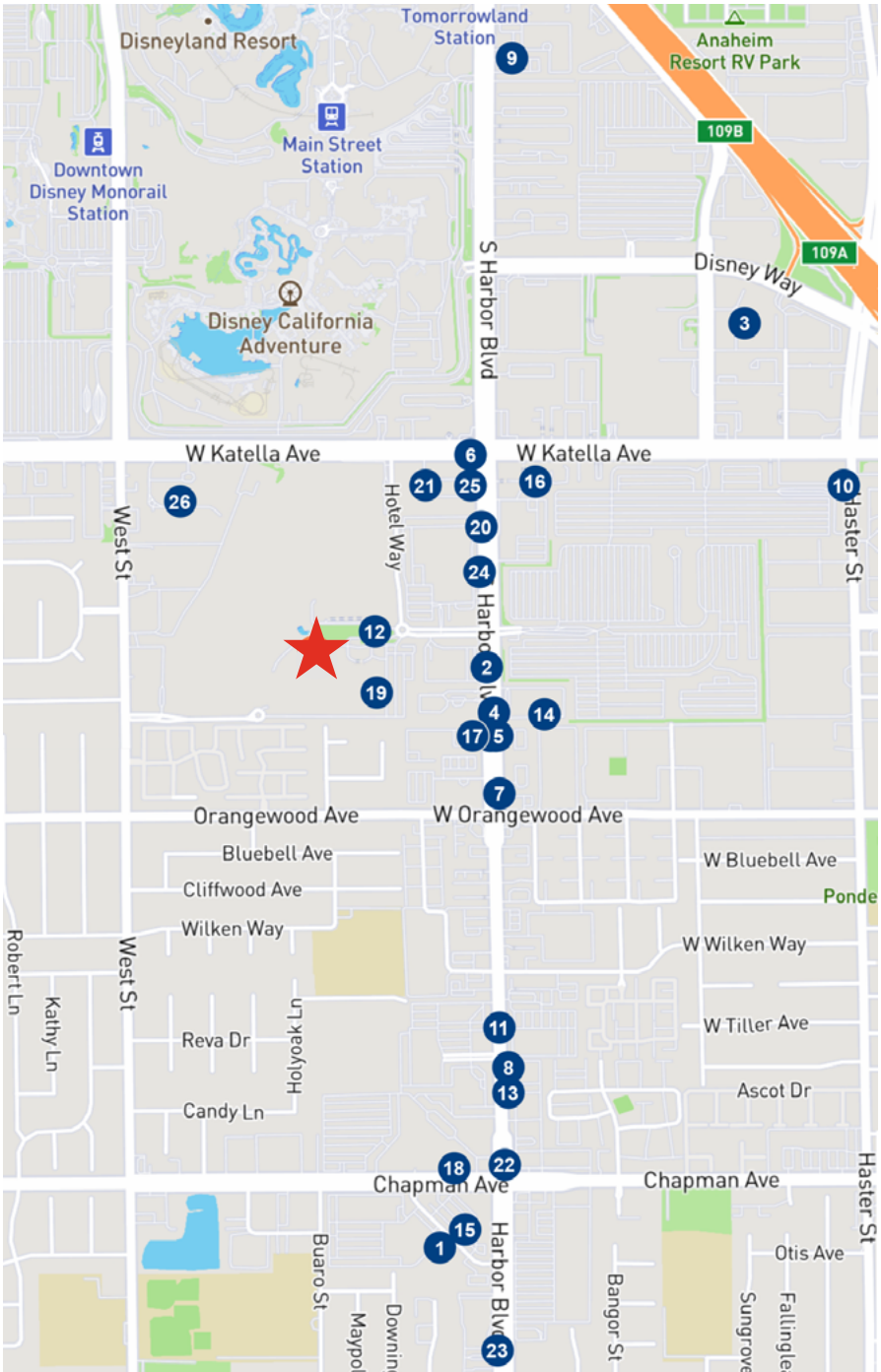


**Southern California is superlative when it comes to shopping, dining, and entertainment, and Anaheim is at the epicenter of it all.**

**[visitanahem.org/aacc](http://visitanahem.org/aacc)**

- ★ Anaheim Convention Center
- 1. Anaheim Marriott Suites
- 2. Clarion Hotel Anaheim Resort
- 3. Clementine Hotel & Suites
- 4. Cortona Inn & Suites Anaheim Resort
- 5. Courtyard by Marriott Anaheim Resort Convention Center
- 6. Desert Palms Hotel and Suites
- 7. DoubleTree Suites by Hilton Hotel Anaheim Resort/Convention Center
- 8. Embassy Suites Anaheim South
- 9. Fairfield Inn Anaheim Disneyland Resort
- 10. Hampton Inn & Suites Anaheim Convention Center
- 11. Hampton Inn & Suites Anaheim Garden Grove
- 12. **Hilton Anaheim (Co-Headquarter Hotel)**
- 13. Hilton Garden Inn Anaheim Garden Grove
- 14. Homewood Suites Anaheim Resort Convention Center
- 15. Homewood Suites Anaheim Main Gate
- 16. Hyatt House at Anaheim Resort/Convention Center
- 17. Hyatt Place at Anaheim Resort/Convention Center
- 18. Hyatt Regency Orange County
- 19. **Marriott Anaheim (Co-Headquarter Hotel)**
- 20. Portofino Inn Suites
- 21. Residence Inn Anaheim Resort/Convention Center
- 22. Residence Inn Anaheim Resort/Garden Grove
- 23. Sheraton Garden Grove
- 24. Sheraton Park Hotel at the Anaheim Resort
- 25. Springhill Suites Anaheim Resort/Convention Center
- 26. Westin Anaheim Resort






# SHUTTLE SERVICES

Date	Service Hours	Departures
<b>Sunday, July 23</b>	6:30 a.m. - 10:00 a.m. 10:00 a.m. - 4:00 p.m. 4:00 p.m. - 8:30 p.m.*	Every 20 minutes Every 30 minutes Every 20 minutes
<b>Monday, July 24</b>	6:30 a.m. - 10:00 a.m. 10:00 a.m. - 4:00 p.m. 4:00 p.m. - 6:30 p.m.*	Every 15 minutes Every 30 minutes Every 15 minutes
<b>Tuesday, July 25</b>	6:30 a.m. - 10:00 a.m. 10:00 a.m. - 4:00 p.m. 4:00 p.m. - 6:30 p.m.*	Every 15 minutes Every 30 minutes Every 15 minutes
<b>Wednesday, July 26</b>	6:30 a.m. - 10:00 a.m. 10:00 a.m. - 4:00 p.m. 4:00 p.m. - 6:30 p.m.*	Every 15 minutes Every 30 minutes Every 15 minutes
<b>Thursday, July 27</b>	7:00 a.m. - 10:00 a.m. 10:00 a.m. - 12:00 p.m. 12:00 p.m. - 4:00 p.m.*	Every 15 minutes Every 30 minutes Every 15 minutes

\* Indicates last time shuttle departing the Anaheim Convention Center to hotels.  
Last shuttle departs hotel coming to the center 1 hour prior to this time.



**Shuttles May Vary Due to Traffic & Weather Conditions**  
For real-time shuttle pickup information at your hotel, be sure to use the Shuttle Tracker in the mobile app!



If you need to arrange wheelchair-accessible transportation, please call 877-865-2455 at least 12 hours prior to requested pick-up time or see a shuttle supervisor located at the Shuttle Information desk in the Anaheim Convention Center.

# ROUTES & BOARDING LOCATIONS

Route/Color	Hotel	Boarding Location
<b>#1 - Red</b>	Hyatt Regency Orange County	Conference Center Entrance
	Residence Inn Anaheim Resort/ Garden Grove	at Hyatt Regency Stop
	Embassy Suites Anaheim South	Bus Stop near Lobby
	Hampton Inn & Suites Anaheim Garden Grove	at Embassy Suites Stop
	Hilton Garden Inn Anaheim Garden Grove	at Embassy Suites Stop
<b>#2 - Yellow</b>	Fairfield Inn Anaheim Disneyland Resort	Curbside by Panera Bread
	Clementine Hotel and Suites	S. Zeyn St. at Traffic Circle
	Hampton Inn & Suites Anaheim Convention Center	S. Zeyn St. at Katella Ave.
	Desert Palms Hotel and Suites	Curbside at Bus Stop
<b>#3 - Blue</b>	Anaheim Marriott Suites	Curbside near Lobby
	Homewood Suites Anaheim Main Gate	at Marriott Suites Stop
	Sheraton Garden Grove	Corner of Resort Way & Harbor Blvd.
	Homewood Suites Anaheim Resort Convention Center	Lobby Entrance
	Hyatt House at Anaheim Resort Convention Center	Curbside near Lobby

## Hotels Within Walking Distance of Anaheim Convention Center

- Clarion Hotel Anaheim Resort
- Cortona Inn & Suites Anaheim Resort
- Courtyard by Marriott Anaheim Resort Convention Center
- DoubleTree Suites by Hilton Hotel Anaheim Resort/Convention Center
- Hilton Anaheim
- Hyatt Place at Anaheim Resort/Convention Center
- Marriott Anaheim
- Portofino Inn & Suites
- Residence Inn Anaheim Resort/Convention Center
- Sheraton Park at the Anaheim Resort
- Springhill Suites Anaheim Resort/Convention Center
- Westin Anaheim Resort

# THANK YOU 2023 SPONSORS as of June 2, 2023

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Bio-Rad Laboratories  
Chromsystems GmbH  
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Cytiva  
DiaSorin Inc.  
Diazyme Laboratories, Inc.  
DxPx Conference  
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Eurotrol, Inc.  
Fapon Biotech Inc.  
Financière Lully D-Linxens  
Fortis Life Sciences  
Golden West Biologicals, Inc.  
Gore & Associates  
Haemonetics Corporation  
hc1  
Healgen Scientific LLC  
Helena Laboratories Corporation  
HemoSonics  
Hologic, Inc.  
Indigo BioAutomation  
International Filter Products  
KB Medical Group Inc  
Korea Health Industry Development  
Institute (KHIDI)  
labcorp  
Lumigenex  
Medica Corporation  
MeMed  
MilliporeSigma  
New England Biolabs, Inc.  
Nova Biomedical Corporation  
NTL Biotech  
Performance Motion Devices  
PLUGS (Patient-centered Laboratory  
Utilization Guidance Services)  
Porex Life Sciences Institute  
QuidelOrtho  
Randox Laboratories  
Rhinomed, Inc  
Roche Diagnostics  
Sansure Biotech, Inc.  
SARSTEDT  
SCIEX  
Seegene, Inc.  
Sekisui Diagnostics LLC  
Siemens Healthineers  
Sight Diagnostics  
Sol-Millennium Medical Inc.  
SteriPack  
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Sysmex  
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Tosoh Bioscience  
UTAK  
Waters Corporation  
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Whitehat Communications  
ZeptoMetrix Corporation

# ANNUAL MEETING ORGANIZING COMMITTEE

## CHAIR

- **Amy K. Saenger, PhD, DABCC, FAACC**  
*Medical Director of Clinical Laboratories,  
Hennepin County Medical Center  
Minneapolis, MN*

## VICE CHAIRS

- **Peter Kavsak, PhD, FCACB, FAACC, FCCS**  
*Professor, Pathology and Molecular  
Medicine, McMaster University  
Hamilton, ON, Canada*
- **Nicole V. Tolan, PhD, DABCC**  
*Associate Medical Director of Chemistry;  
Medical Director, POCT, Brigham and  
Women's Hospital  
Boston, MA*

## PLENARY COORDINATOR

- **Allan Jaffe, MD**  
*Professor of Laboratory Medicine and  
Pathology, Professor of Medicine,  
Mayo Clinic  
Rochester, MN*

## SCIENTIFIC SESSION COORDINATORS

- **Roger Bertholf, PhD, DABCC, FAACC**  
*Medical Director of Clinical Chemistry,  
Houston Methodist Hospital  
Houston, TX*
- **Andrew C. Don-Wauchope, MD, PhD, FRCP**  
*Professor, Pathology & Molecular Medicine,  
McMaster University  
Hamilton, ON, Canada*
- **Deborah French, PhD, DABCC, FAACC**  
*Assistant Director of Chemistry,  
University of California, San Francisco  
San Francisco, CA*
- **Khushbu Patel, PhD, DABCC, FAACC**  
*Director of Clinical Chemistry,  
Children's Hospital of Philadelphia  
Philadelphia, PA*

## ROUNDTABLE COORDINATORS

- **Christopher Farnsworth, PhD, DABCC**  
*Associate Professor, Pathology &  
Immunology, Washington University, St. Louis  
St. Louis, MO*
- **Gabrielle Winston-McPherson, PhD, DABCC**  
*Associate Director of Chemistry,  
Henry Ford Hospital  
Detroit, MI*

## POSTER ABSTRACT COORDINATORS

- **Elia Mears, MS, MT(ASCP)SM**  
*Surveyor, Joint Commission in Laboratory  
Accreditation Program, Joint Commission  
on Accreditation of Healthcare  
Houma, LA*
- **Zhen Zhao, PhD, DABCC, FAACC**  
*Professor of Clinical Pathology and  
Laboratory Medicine, Weill Cornell Medicine  
New York City, NY*

The Annual Meeting Organizing Committee (AMOC), comprised of 12 expert volunteers, attends to all the details of making each year's AACC Annual Scientific Meeting & Clinical Lab Expo a must-attend education and networking event. The committee oversees the planning, development, and ultimate delivery of a timely and engaging scientific program that serves the diverse community of laboratory medicine professionals.

# ASSOCIATION FOR DIAGNOSTICS & LABORATORY MEDICINE (ADLM) BOARD OF DIRECTORS

## **PRESIDENT**

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*University of Rochester Medical Center*  
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*The Ottawa Hospital*  
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- **Christine Schmotzer, MD**  
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## **EX-OFFICIO WITH VOTE, PRESIDENT OF THE AACC ACADEMY**

- **Yusheng Zhu, PhD, DABCC, FAACC**  
*Penn State University Hershey Medical Center*  
*Hershey, PA*

## **EX-OFFICIO WITH VOTE, CHAIR, CLINICAL LAB SCIENTISTS COUNCIL**

- **Erika Deaton-Mohney, BS, MT(ASCP), CPP**  
*Bronson Laboratory*  
*Kalamazoo, MI*

## **EX-OFFICIO**

- **Mark J. Golden, FASAE, CAE**  
*CEO, ADLM*  
*Washington, DC*

## AACC AWARDS

Each year, the Awards Committee selects outstanding individuals for the awards, grants, and fellowships presented by the association. These awards are given to recognize the superior achievements by these individuals. In addition, they encourage excellence within the profession and enhance recognition of clinical laboratory science. Our Awards program makes it possible for the association to honor these exceptional individuals and demonstrates ADLM's strong commitment to the growth and advancement of the field of clinical laboratory science.

### COMMITTEE MEMBERS

**Uttam Garg, PhD, DABCC, FAACC, FABFT; Chair**

**Alison Woodworth, PhD, DABCC**

**Ann M. Gronowski, PhD**

**Brett Holmquist, PhD, ASCP, DABCC, FAACC**

**Susan A. Evans, PhD**

### AWARD WINNERS



#### 2023 Wallace H. Coulter Lectureship Award

**Jeffrey I. Gordon, MD**

*Washington University School of Medicine  
St. Louis, MO*



#### Outstanding Lifetime Achievement Award in Clinical Chemistry and Laboratory Medicine

**Robert H. Christenson, PhD, DABCC, FAACC, FACC**

*University of Maryland School of Medicine  
Baltimore, MD*



#### Outstanding Contributions Through Service to the Profession of Clinical Chemistry

**Patricia M. Jones, PhD**

*Children's Medical Center Dallas  
Dallas, TX*

# AACC AWARDS



## **Outstanding Contributions to Education in Clinical Chemistry**

**Gary L. Horowitz, MD**

*Tufts Medical Center  
Boston, MA*



## **Outstanding Scientific Achievements by a Young Investigator**

**Victoria Higgins, PhD, FCACB**

*DynaLIFE Medical Labs  
Edmonton, AB, Canada*



## **Clinical Laboratory Scientist Achievement Award**

**Elia M. Mears, MS, MT(ASCP)SM**

*The Joint Commission  
Houma, LA*



## **Past President's Award**

**Stephen R. Master, MD, PhD, FAACC**

*Children's Hospital of Philadelphia  
Perelman School of Medicine at the University of Pennsylvania  
Philadelphia, PA*



## ACADEMY AWARDS

The Academy of Diagnostics and Laboratory Medicine's mission is to elevate the science and practice of clinical laboratory medicine by promoting research, education and professional development in laboratory medicine. The Academy celebrates the achievements of colleagues who have made significant contributions through scholarship and service to the profession. The Academy's Awards Committee wishes to thank the sponsors of these awards and to congratulate the 2023 Academy Award Recipients.

### COMMITTEE MEMBERS

**Gyorgy Abel**, MD, PhD, FAACC; Chair

**Zhimin (Tim) Cao**, PhD, MD, DABCC, FAACC

**Uttam Garg**, PhD, ABFT, DABCC, NRCC, FAACC

**Jay Kalra**, PhD, ABFT, DABCC, NRCC, FAACC

**Khushbu Patel**, PhD, DABCC, FAACC

### AWARD WINNERS



**AACC Academy Award for Outstanding Contributions to Clinical Chemistry in a Selected Area of Research**

**Michael Y Tsai**, PhD, FAACC, FAHA

*Professor, Laboratory Medicine and Pathology,  
University of Minnesota*



**AACC Academy Professor Alvin Dubin Award for Outstanding Contributions to the Profession and the Academy**

**James Ritchie**, PhD, DABCC, FAACC

*Emeritus Professor, Department of  
Pathology and Laboratory Medicine,  
Emory University*



**AACC Academy George Grannis Award for Excellence in Research and Scientific Publication Award**

**Nadia Ayala-Lopez**, PhD, MLS (ASCP), DABCC, NRCC

*Director, Clinical Chemistry, Medical Affairs,  
Central Laboratory Services,  
Labcorp*

# THE ACADEMY

The Academy is proud to announce its Academy Fellows. As members of the Academy these distinguished scientists are all doctorate-level professionals dedicated to enhancing the scholarship and practice of laboratory medicine. New Fellows will be honored during the Academy awards luncheon on Wednesday, July 26, during the AACC Annual Scientific Meeting.

The Academy honors the achievements of its members and through an active education and publication program enlists their support and expertise to bring about positive change in the current practice of laboratory medicine. To learn more about the Academy and its activities, visit [aacc.org/community/aacc-academy](http://aacc.org/community/aacc-academy).

## NEW ACADEMY FELLOWS ACCEPTED SINCE JULY 2022 as of May 9, 2023

### FULL FELLOW

Barnali Das, MD

Kornelia Galior, PhD

Ruben Luo, PhD

Pradip Datta, PhD

Kristin Hauff, PhD

Anu Maharjan, PhD

Katherine Dozier, PhD

Grace Kroner, PhD

Jeannie Stubblefield, PhD

### ASSOCIATE FELLOW

Mustafa Barbhuiya, PhD

## OTHER AACC AWARDS

Student Research and Academy Distinguished Abstract awards are noted in the poster abstract section of this guide. For a full list of Awards, including SYCL Awards and Division Abstract Awards, please visit [meeting.aacc.org/awards](http://meeting.aacc.org/awards).




# CONTINUING EDUCATION CREDIT & CERTIFICATE OF ATTENDANCE

The 2023 AACC Annual Scientific Meeting & Clinical Lab Expo brings together the global laboratory medicine community and provides the latest education to meet the changing needs of laboratory professionals. Participants have two opportunities to connect with global leaders, learn about cutting edge technology, and stay up to date on best practices and advances in laboratory medicine.

Individuals may attend the AACC Annual Scientific Meeting educational sessions from Sunday, July 23 - Thursday, July 27, at the Anaheim Convention Center in Anaheim, California. Anaheim All Access registrants will also have access to the online Digital Pass Select content from July 28 - August 28, 2023.

## ACCREDITATION STATEMENTS

 AACC offers ACCENT® credit to laboratory professionals to document their continuing education and meet requirements for licensure or certification. AACC is an approved provider of continuing education for laboratory professionals in the states of California, Florida, Louisiana, Montana, Nevada, North Dakota, Rhode Island, and West Virginia. Florida clinical laboratory professionals requesting ACCENT® credit must provide their license number for credit to be reported to CE Broker. California clinical laboratory professionals requesting ACCENT® credit must provide their license number for credit to be reported to the California Department of Public Health. This educational activity (Anaheim All Access which includes live courses and recorded digital pass courses) is designated for a maximum of 57.0 ACCENT® credits. Learners should claim only the credit commensurate with the extent of their participation in the activity. For information about ACCENT® credit per session, visit the mobile app or [aacc.org/ASMcredits23](https://aacc.org/ASMcredits23).



American Association for Clinical Chemistry (AACC) is accredited by the Accreditation Council for Continuing Medical Education (ACCME®) to provide continuing medical education for physicians. This educational activity (All Access pass which includes all live courses and recorded digital pass courses) is designated for a maximum of 48.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity. For information about *AMA PRA Category 1 Credits™* per session, visit the mobile app or [aacc.org/ASMcredits23](https://aacc.org/ASMcredits23).

## LEARNING OBJECTIVES

At the end of this activity, participants will be able to:

1. Discuss state-of-art research and technologies in laboratory medicine.
2. Apply updated knowledge of laboratory protocols, practice guidelines, and regulatory requirements in laboratory medicine.
3. Incorporate laboratory management strategies that ensure staff competency, enhance workflows, and support accurate and effective testing to improve treatment decisions and patient outcomes.
4. Implement up-to-date laboratory testing methods, technologies, and data-driven approaches in preanalytical, analytical, and postanalytical phases of sample handling.
5. Select appropriate testing methods and advise clinicians on appropriate testing that takes benefits, limitations, and patient outcomes into consideration.
6. Facilitate interprofessional communication with the broader healthcare team to demonstrate the value of laboratory medicine and role in treatment decisions and patient outcomes.

# CONTINUING EDUCATION CREDIT & CERTIFICATE OF ATTENDANCE

## TARGET AUDIENCE

The AACC Annual Scientific Meeting is a global scientific/medical conference designed for clinical laboratory professionals, physicians, research scientists, and other professionals from around the world focused on clinical chemistry, molecular diagnostics, mass spectrometry, translational medicine, lab management, and other areas of progressing laboratory science and medicine.

## STATEMENT OF INDEPENDENCE

As a provider of continuing education, AACC has a policy of ensuring that the content and quality of this educational activity are balanced, independent, objective, and scientifically rigorous. The scientific content of this activity was developed under the supervision of the AACC's Annual Meeting Organizing Committee (AMOC).

## DISCLOSURE POLICY

The faculty, planning committee members, and staff who are in a position to control the content of this activity are required to disclose to AACC and to learners any financial relationship(s) of the individual that have occurred within the last 24 months with any ineligible companies. An ineligible company is one whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. Financial relationships are defined by remuneration in any amount from the ineligible companies in the form of grants; research support; consulting fees; salary; ownership interest (e.g., stocks, stock options, or ownership interest excluding diversified mutual funds); honoraria or other payments for participation in speakers' bureaus, advisory boards, or boards of directors; or other financial benefits. The intent of this disclosure is not to prevent planners with financial relationships from planning or delivering content, but rather

to provide learners with information that allows them to make their own judgments of whether these financial relationships may have influenced the educational activity with regard to exposition or conclusion. AACC has reviewed all disclosures and mitigated all identified conflicts of interest, as applicable.

*The following activity planners reported the following financial relationship(s):*

- **David Alter**  
Consultancy(ies), Advisory Boards, etc.: Siemens-Healthineers  
Lecture Fees (Honoraria, Speakers Bureau, etc.): MooreHall LLC
- **Christopher Farnsworth**  
Consultancy(ies), Advisory Boards, etc.: Abbott, Biorad, Cytovale, Siemens, Werfen  
Lecture Fees (Honoraria, Speakers Bureau, etc.): Abbott, Roche Diagnostics  
Grant Support: Abbott Laboratories, Beckman Coulter, Cepheid, NOWDiagnostics, Qiagen, Roche Diagnostics, Siemens Healthineers, Sebia, The Binding Site
- **Deborah French**  
Consultancy(ies) Advisory Boards, etc.: ARK Diagnostics, Sage Medical  
Expert Witness: Wilson, Sonsini, Goodrich, and Rosati
- **Allan Jaffe**  
Consultancy(ies), Advisory Boards, etc.: Abbott, Amgen, Astellas, Beckman, ET Healthcare, Novartis, Ortho, Radiometer, RCE Technologies, Roche, Siemens Healthineers, Sphingotec, Spinchip  
Patents or Royalties: Patent for "Methods for the detection and monitoring of acute myocardial infarction"  
Stock Ownership: RCE Technologies

- Peter Kavsak**  
 Consultancy(ies), Advisory Boards, etc.:  
 Abbott, Beckman Coulter, Quidel, Randox,  
 Roche, Siemens

Lecture Fees (Honoraria, Speakers  
 Bureau, etc.): Beckman Coulter, Roche,  
 Siemens, Thermo Fisher

Grant Support: Abbott, Beckman Coulter,  
 Ortho Clinical Diagnostics, Randox, Roche,  
 Siemens

Patents or Royalties: Patents for methods  
 regarding assessing risk of heart failure,  
 assessing risk of cardiac events, and  
 determining acute kidney injury
- Mark Marzinke**  
 Consultancy(ies), Advisory Boards, etc.:  
 Bio-Rad

Grant Support: Merck, Gilead, ViiV/GSK
- Amy Saenger**  
 Consultancy(ies), Advisory Boards:  
 Radiometer
- Nicole Tolan**  
 Consultancy(ies), Advisory Boards, etc.:  
 CIC Health

Grant Support: Abbott Diabetes Care,  
 Biomerieux
- Zhen Zhao**  
 Consultancy(ies), Advisory Boards, etc.:  
 ET Healthcare, Siemens Healthineers

Lecture Fees (Honoraria, Speakers  
 Bureau, etc.): Siemens Healthineers

Grant Support: ET Healthcare, Novartis,  
 Polymedco, Roche Diagnostics, Siemens  
 Healthineers, Waters



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*The following activity planners reported no financial relationships:*

**Roger Bertholf, Saswati Das, Andrew Don-Wauchope, Elia Mears, Khushbu Patel, Edmunds Reineks, Clayton Wilburn, Gabrielle Winston-McPherson**

A summary of the disclosures is available at [meeting.aacc.org](https://meeting.aacc.org). All faculty will display their disclosure information at the beginning of each session, verbally and/or on their presentation slides. Faculty disclosures are also available via the mobile app. All AACC staff involved in the planning of this activity reported no financial relationships.

### **CONTENT VALIDITY**

All recommendations involving clinical medicine are based on evidence accepted within the profession of medicine as adequate justification for their indications and contraindications in the care of patients; and/or all scientific research referred to or reported in support or justification of a patient care recommendation conforms to generally accepted standards of experimental design, data collection, and analysis.

### **DISCLAIMERS**

The information presented in this activity represents the opinion of the faculty and is not necessarily the official position of AACC.

### **Use of Professional Judgment**

The educational content in this activity relates to basic principles of clinical laboratory medicine and does not substitute for individual assessment based on the health care professional's examination of the patient, laboratory data, and other factors unique to the patient. Standards in medicine change as new data becomes available.

### **Drugs and Dosages**

When prescribing medications, the physician is advised to check the product information sheet accompanying each drug to verify conditions of use and to identify any changes in drug dosage schedule or contraindications.

# CONTINUING EDUCATION CREDIT & CERTIFICATE OF ATTENDANCE

## **POLICY ON UNLABELED/ OFF-LABEL USE**

The association has determined that disclosure of unlabeled/off-label or investigational use of commercial product(s) is informative for audiences and therefore requires this information to be disclosed to the learners at the beginning of the presentation. Uses of specific therapeutic agents, devices, and other products discussed in this educational activity may not be the same as those indicated in product labeling approved by the Food and Drug Administration (FDA). The association requires that any discussions of such "off-label" use be based on scientific research that conforms to generally accepted standards of experimental design, data collection, and data analysis. Before recommending or prescribing any therapeutic agent or device, learners should review the complete prescribing information, including indications, contraindications, warnings, precautions, and adverse events.

## **PRIVACY AND CONFIDENTIALITY STATEMENT**

The association will record learner's personal information as provided on continuing education evaluations to allow for issuance and tracking of CE certificates. The association may also track aggregate responses to questions in activities and evaluations and use these data to inform the ongoing evaluation and improvement of its continuing education program. No individual performance data or any other personal information collected from evaluations will be shared with third parties.

## **ACKNOWLEDGMENT OF COMMERCIAL SUPPORT**

This activity is not supported by educational grant(s) or other funds from any commercial supporter(s).

## **ELIGIBILITY TO EARN CONTINUING EDUCATION CREDIT**

You must be registered for the Annual Scientific Meeting\* to be eligible to earn continuing education credit (ACCENT® or AMA PRA Category 1 Credit™) for the following sessions of the AACC Annual Scientific Meeting: AACC University, Plenary, Meet-the-Expert, Scientific Sessions, and Roundtables. CE/CME certificates are provided to registered participants based on completion of the activity, in its entirety, including the activity evaluation.

*\*Individuals registered as Guest/Spouse or Expo Only are not eligible to earn credit for these sessions.*

## **SYSTEM REQUIREMENTS**

To claim continuing education credit, participants must have access to a computer or mobile device with an Internet connection and use an up-to-date version of any major Web browser, such as Microsoft Edge, Firefox, Safari, or Google Chrome. Internet Explorer is no longer supported. In addition, cookies and Javascript must be enabled in the browser's options.

## INSTRUCTIONS TO CLAIM CE/CME AND CERTIFICATE OF ATTENDANCE

1. To claim your credits and/or to obtain your Certificate of Attendance, click the Claim CE/CME tile on the meeting mobile app or go to [aacc.org/ASMcredits23](https://aacc.org/ASMcredits23).
2. Log in using your last name and AACC Customer Number (or badge number).
3. For CE and CME credits, you will be required to evaluate each session attended; then print (or save) your Verification of Participation or credit certificate.
4. For sessions you attend where your name badge is scanned, sessions will automatically appear in your session list. You may add more sessions and you may delete sessions.
5. Credits may be claimed at any time, i.e., at the end of each session, each day, or after the meeting ends.
6. Credits may be claimed using a computer, laptop, tablet, smartphone, or other electronic device.
7. Credits for the 2023 AACC Annual Scientific Meeting must be claimed by November 1, 2023.

## CLAIMING CREDIT FOR ONLINE DIGITAL PASS SELECT SESSIONS

Anaheim All Access registrants will receive access to online Digital Pass Select sessions from July 28 - August 28, 2023. Visit the mobile app or [aacc.org/ASMcredits23](https://aacc.org/ASMcredits23) and evaluate each session you viewed to update your credits. You may not claim credit for a single session twice.

RELEASE DATE: July 23, 2023

EXPIRATION DATE: November 1, 2023  
(date after which this activity is no longer certified for continuing education credit)

For questions regarding continuing education, please email [education@aacc.org](mailto:education@aacc.org).

## REGISTRATION RESOURCE CENTER

Access your handouts, obtain CE credit, and get a copy of your receipt.

### 1. OPEN THE RESOURCE CENTER

Go to [aacc.org/handouts](https://aacc.org/handouts) OR  
Scan the QR code on your badge

### 2. LOGIN

Enter the following to login:

#### A. BADGE NUMBER:

Listed on left side of badge

#### B. LAST NAME:

Exactly as entered when registering



## SESSION INFORMATION

### 2023 PATHWAYS

2023 Pathways represent dynamic and timely topic areas of clinical laboratory medicine. Use these pathways as a guide to exploring the sessions that support your area of interest and to making the most of your educational experience this year. Visit [meeting.aacc.org/pathways](https://meeting.aacc.org/pathways).

### SESSION LEVEL CONTENT

- **Basic:** Introductory content appropriate for participants who lack previous training or experience in the subject, or whose previous experience or training is minimal.
- **Intermediate:** Requires knowledge of the basic theory applicable to the general subjects as well as some prior training and education in the subject.
- **Advanced:** Specialized content appropriate for those with working knowledge of current theory and practices and who wish to refine their skills or learn the newest principles and techniques.

### SESSION DESCRIPTIONS

All the following sessions are open to full or daily conference registrants.

### COULTER LECTURESHIP

The Wallace H. Coulter Lectureship Awardee delivers the opening plenary. The award is given each year to an individual that has demonstrated a lifetime commitment and contributions to the practice and/or research of laboratory medicine or patient care. The award presentation and lecture takes place Sunday, July 23, from 5:00 p.m. - 6:30 p.m.

### PLENARY SESSIONS

Designed for all levels, and featuring visionaries in clinical practice, research, business, and policy. Plenaries address timely topics applicable to all laboratorians and span the breadth of research and medicine. Plenaries take place each morning Monday through Thursday from 8:45 a.m. - 10:15 a.m.

### MEET THE EXPERT SESSION

This session is an interactive discussion with the Wallace H. Coulter Lectureship Awardee. Attendance is limited to 75 participants and admission is first come, first served. The session takes place on Monday, July 24, from 10:30 a.m. - 11:30 a.m. Details on page 35.

### SCIENTIFIC SESSIONS

These sessions are presented by highly regarded speakers, offering in-depth learning about specific areas of clinical laboratory practice.

### PRESIDENT'S INVITED SESSION

The ADLM President has created this special session of particular importance to attendees. The session takes place on Monday, July 24, from 10:30 a.m. - 12:00 p.m. Details on page 35.

### CHAIR'S INVITED SESSION

The Chair of the 2023 Annual Meeting Organizing Committee created this special session of particular importance to attendees. The session takes place on Monday, July 24, from 12:30 p.m. - 2:00 p.m. Details on page 39.

### SESSION RECORDINGS

Sessions at the 2023 AACC Annual Scientific Meeting will be recorded. Access is complimentary to members with full conference registration and is available for purchase for others as an 11-month access that will commence August 29, 2023 and close July 31, 2024. The content is made available for viewing only and is not available for download. The session recordings will include audio and video of presentation slides from most of the Plenary Sessions and Scientific Sessions. Roundtables will not be recorded. Price: \$199 with registration or at the meeting/\$299 after close of the meeting (July 27, 2023, 12:00 p.m. US Pacific Time). To purchase, visit [meeting.aacc.org](https://meeting.aacc.org) or go to Conference Registration in the lobby.



# PLENARY+ SCIENTIFIC SESSIONS

**SUNDAY, JULY 23**



# PLENARY SESSION 11001

SUNDAY, JULY 23

5:00 p.m. - 6:30 p.m.

LOCATION: Ballroom ABC

LEVEL: Intermediate

CREDITS: ACCENT®: 1.0, CME: 1.0

2023 WALLACE H. COULTER LECTURESHIP AWARDEE

## Developing Microbiome-Directed Therapeutics for Treating Childhood Undernutrition



**Jeffrey I. Gordon, MD**

*Dr. Robert J. Glaser Distinguished University Professor*

*Founding Director, The Edison Family Center for Genome Sciences & Systems Biology*

*Washington University School of Medicine, St. Louis, MO*

Human postnatal development is typically viewed from the perspective of our “human” organs. As we come to appreciate how our microbial communities are assembled following birth, there is an opportunity to determine how this microbial facet of our developmental biology is related to healthy growth as well as to the risk for and manifestations of disorders that produce abnormal growth. We are testing the hypothesis that perturbations in the normal development of the gut microbiome are causally related to childhood undernutrition, a devastating global health problem whose long-term sequelae, including stunting, neurodevelopmental abnormalities, plus metabolic and immune dysfunction, remain largely refractory to current therapeutic interventions. The journey to preclinical proof-of-concept, and the path forward to clinical proof-of-concept emphasize the opportunities as well as the experimental and analytic challenges encountered when developing microbiome-directed therapeutics.

## AACC UNIVERSITY



Morning | 8:30 a.m. - 11:30 a.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
191001	Visualizing Laboratory Data: The Good, the Bad, and the Ugly	205	3.0	3.0	①
Moderator	<ul style="list-style-type: none"> <li>• <b>Moving from Data to Figures: Best Practices for Visualizing Laboratory Data</b> <i>Dustin Bunch, PhD, DABCC, Nationwide Children's Hospital, Columbus, OH</i></li> <li>• <b>Data Visualization Strategies for Laboratorians: The Good, the Bad, and the Ugly</b> <i>Nicholas Spies, MD, Washington University School of Medicine, Saint Louis, MO</i></li> <li>• <b>Capturing Geospatial Data: Tools and Techniques for Visualizing Laboratory Data Beyond the Walls of the Core Laboratory</b> <i>Vahid Azimi, MD, Washington University School of Medicine, Saint Louis, MO</i></li> </ul>				
191002	Next Generation Sequencing for Laboratorians: Understanding the Essentials	206	3.0	3.0	②
	<i>In cooperation with the Molecular Pathology Division</i>				
Moderator	<ul style="list-style-type: none"> <li>• <b>NGS as a Tool for Precision Medicine: How to Choose the Best Test for Your Patient</b> <i>Christina Lockwood, PhD, DABCC, DABMGG, University of Washington, Seattle, WA</i></li> <li>• <b>NGS Applications for Inherited Testing: Casting an Ever-Widening Net</b> <i>Jillian Buchan, PhD, DABMG, University of Washington, Seattle, WA</i></li> <li>• <b>Practical Considerations for NGS Testing in Oncology</b> <i>Vera Paulson, MD, PhD, University of Washington, Kirkland, WA</i></li> </ul>				
191003	Drug of Abuse Testing: What Lab Staff and Providers Need to Know	208	3.0	0	②
Moderator	<ul style="list-style-type: none"> <li><i>Jennifer Colby, PhD, DABCC, FAACC, Abbott, Pomona, CA</i></li> <li><i>Sarah Delaney, PhD, DABCC, Unity Health Toronto, ON, Canada</i></li> <li><i>Christine Snozek, PhD, DABCC, FAACC, Mayo Clinic, Scottsdale, AZ</i></li> </ul>				
191004	Using Patient Data-Derived Biological, Analytical, and Preanalytical Variation to Optimize Patient Data QC/QA, RCV Calculations, and Test Ordering	209	3.0	3.0	①
Moderator	<ul style="list-style-type: none"> <li>• <b>Precision: A Precious Quantity of Measurements</b> <i>Anders Kallner, MD, PhD, Karolinska University Hospital, Stockholm, Sweden</i></li> <li>• <b>Opportunistic, Ever-Vigilant QC and QA: Transforming Sequential Patient Results into Total Variation – Preanalytical + Analytical + Biological</b> <i>George Cembrowski, MD, PhD, University of Alberta/ccQCc, Edmonton, AB, Canada</i></li> <li>• <b>Patient-Based Real-Time Quality Control: Increasing Specificity and Specificity</b> <i>Mark Cervinski, PhD, DABCC, FAACC, Dartmouth-Hitchcock Medical Center, Lebanon, NH</i></li> </ul>				

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
193010	How to Truly “Excel” at Data Analysis and Visualization: An Introduction to the R Programming Language	204BC	6.0	6.0	<b>B</b>

*In cooperation with the AACC Data Analytics Steering Committee*

- **Introduction to R and RStudio**

*Amrom Obstfeld, MD, PhD, Children's Hospital of Philadelphia/University of Pennsylvania, Philadelphia, PA*

- **Data Transformation**

Moderator *Robert Benirschke, PhD, MScBIM, DABCC, FAACC, Northshore University Health System, Evanston, IL*

- **Data Visualization and Interactive Dashboard Development**

*Patrick Mathias, MD, PhD, University of Washington School of Medicine, Seattle, WA*

193011	Solving Problems and Resolving Challenges in Point-of-Care Testing	207AB	6.0	0	<b>I</b>
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*In cooperation with the Critical and Point-of-Care Testing Division*

- **Remind Me, What Does ‘100% Competent’ Mean?**

*Peggy Mann, MS, MT (ASCP), CPP, University of Texas Medical Branch, Galveston, TX*

- **It’s 2023: Using Partnerships to Integrate Quality and Compliance into Point-of-Care Testing**

*Kimberly Skala, BS, MT (ASCP), Werfen, Oak Lawn, IL*

- **Staying Connected in an Increasingly Remote World: Tips and Tricks to Help Keep Your Point-of-Care Program Interfaced**

*Kerstin Halverson, MS, Werfen, Farmington, MN*

- **Operational Management Strategies of Point-of-Care Testing: A Mixture of Ambulatory and Hospital Settings**

Moderator *Jeanne Mumford, BS, MLS (ASCP), Johns Hopkins Hospital, Baltimore, MD*



**FIND SESSION DESCRIPTIONS.  
STAY UP TO DATE.**

Download the mobile app at  
[meeting.aacc.org/2023app](https://meeting.aacc.org/2023app)

## AACC UNIVERSITY



Full Day | 8:30 a.m. - 3:30 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
193012	Establishment and Implementation of Test Methods into the Clinical Laboratory Using CLSI's Test Life Phase Model	210AB	6.0	6.0	<b>B</b>
Moderator	<ul style="list-style-type: none"> <li>• <b>Using CLSI Guideline to Ensure a Quality LDT Method: A Real-Life Example</b> <i>Paula Ladwig, MS, MLS (ASCP), Mayo Clinic, Rochester, MN</i></li> <li>• <b>CLIA Requirements</b> <i>J. Rex Astles, PhD, FAACC, Centers for Disease Control and Prevention, Atlanta, GA</i></li> <li>• <b>FDA QSR Requirements</b> <i>Christopher Dailey, PhD, Miravista Diagnostics, Brownsburg, IN</i></li> <li>• <b>An External Reviewer's Perspective</b> <i>Zhimin Cao, MD, PhD, DABCC, FAACC, SUNY Upstate Medical University, Syracuse, NY</i></li> </ul>				
193013	LC-MS/MS Operations in the Clinical Laboratory	210CD	6.0	0	<b>1</b>
Moderator	<ul style="list-style-type: none"> <li><i>Russell Grant, PhD, Labcorp, Burlington, NC</i></li> <li><i>Brian Rappold, BS, Labcorp, Raleigh, NC</i></li> </ul>				



SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
192005	Indirect Reference Intervals: A Workshop Regarding Principles, Prerequisites, and Practical Application of Statistical Techniques	205	3.0	3.0	<b>I</b>

*In cooperation with the IFCC Task Force on Global Reference Interval Database*

Moderator **Kenneth Sikaris, BSc(Hons), MBBS, FRCPA, FAACB, FFSc, Melbourne Pathology, Melbourne, Australia**

- The Principles of Reference Intervals and Their Determination by Direct and Indirect Techniques**  
*Jakob Zierk, PD Dr med, University Hospital Erlangen, Erlangen, Germany*
- Data Prerequisites and Statistical Approaches to Establish and Verify Indirect Reference Intervals**  
*Thomas Streichert, Dr med, University Hospital Cologne, Kln, Germany*
- Workshop on Indirect Reference Intervals Techniques Including Data Cleaning and Application of refineR**  
*Jakob Zierk, PD Dr med, University Hospital Erlangen, Erlangen, Germany*

192006	Understanding Clinical Coagulation Testing: Basics for the Non-Hematologist	206	3.0	3.0	<b>B</b>
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*In cooperation with the Hematology & Coagulation Division*

*Nadia Ayala-Lopez, PhD, MLS (ASCP), NRCC, DABCC, Labcorp Drug Development, Indianapolis, IN*

Moderator **Sean Campbell, PhD, DABCC, FAACC, Montefiore Medical Center, Bronx, NY**

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## AACC UNIVERSITY



Afternoon | 12:30 p.m. - 3:30 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
192007	<b>Navigating Laboratory Issues in the Preanalytical, Analytical, and Postanalytical Phases</b>	207CD	3.0	3.0	<b>B</b>
Moderator	<ul style="list-style-type: none"> <li> <b>Solving Problems in the Preanalytical and Analytical Phases of Laboratory Testing</b>  <i>Patrick Kyle, PhD, ABFT, DABCC, FAACC, University of Mississippi Medical Center, Jackson, MS</i> </li> <li> <b>Troubleshooting Erroneous Results Generated in the Analytical and Postanalytical Testing Phases</b>  <i>Alison Woodworth, PhD, DABCC, FAACC, University of Kentucky, Cincinnati, OH</i> </li> <li> <b>Patient-Based Real-Time Quality Control: Present Applications, Limitations, and Promise</b>  <i>Mark Cervinski, PhD, DABCC, FAACC, Dartmouth-Hitchcock Medical Center, Lebanon, NH</i> </li> </ul>				
192008	<b>The Laboratory Leader as Strategist: Extending Boundaries for Clinical Laboratory Influence and Impact</b>	208	3.0	3.0	<b>1</b>
Moderator	<ul style="list-style-type: none"> <li> <b>Influence and The Art of Persuasion</b>  <i>Sedef Yenice, PhD, MBA, Gayrettepe Florence Nightingale Hospital, Istanbul, Turkey</i> </li> <li> <b>Effective Communication Strategies for Laboratorians</b>  <i>Edward Randell, PhD, Eastern Health, St. Johns, NL, Canada</i> </li> <li> <b>The Laboratorian as a Patient Safety Champion</b>  <i>Matthias Orth, MD, PhD, Vinzenz von Paul Kliniken gGmbH Marien Hospital, D-70199 Stuttgart, Germany</i> </li> <li> <b>Principles of Program Evaluation</b>  <i>Praveen Sharma, PhD, FAMS, FAACC, All India Institute of Medical Sciences, Jodhpur, India</i> </li> </ul>				
192009	<b>Serum Protein Electrophoresis: Best Practices for Everyday Interpretation</b>	209	3.0	3.0	<b>1</b>
Moderator	<ul style="list-style-type: none"> <li> <b>Fundamentals of Protein Electrophoresis</b>  <i>Katherine Turner, PhD, DABCC, Spectrum Health, Grand Rapids, MI</i> </li> <li> <b>Relationship Between Disease and the M-Protein</b>  <i>David Murray, MD, PhD, MBA, MT (ASCP), Mayo Clinic, Rochester, MN</i> </li> <li> <b>Case Presentations Addressing the Best Practices of Protein Electrophoresis</b>  <i>David Manthei, MD, PhD, University of Michigan, Ann Arbor, MI</i> </li> </ul>				

# JOIN ADLM

ADLM members get member-exclusive discounts on educational offerings and meetings like 2023 AACC, access to the popular Member Lounge, and other perks.

Stop by ADLM Booth #2235 for a special membership offer.



## THREE MORE REASONS TO JOIN

1. **Knowledge and Innovation** — access practical, clinically relevant resources you need to transform healthcare and advance your career.
2. **Collaborations and Connections** — rely on your community for learning, idea exchange, mentoring, and building enduring relationships.
3. **Better Patient Health** — be well-prepared and well-connected to develop effective solutions to improve patient health, and flourish professionally and personally.



# SEE YOU NEXT YEAR IN CHICAGO

Next year's annual scientific meeting will be held in Chicago, Illinois, July 28 - August 1, 2024.

Start planning today!



Photo: Christopher Alvarenga, Unsplash



# PLENARY+ SCIENTIFIC SESSIONS

**MONDAY, JULY 24**



## PLENARY SESSION 12001

MONDAY, JULY 24

8:45 a.m. - 10:15 a.m.

LOCATION: Ballroom ABC

LEVEL: Intermediate

CREDITS: ACCENT®: 1.0, CME: 1.0

### Precisely Practicing Medicine from 700 Trillion Points of Data



#### Atul Butte, MD, PhD

*Priscilla Chan and Mark Zuckerberg Distinguished Professor*

*Director, Bakar Computational Health Sciences Institute, University of California, San Francisco*

*Chief Data Scientist, University of California Health San Francisco, CA*

There is an urgent need to take what we have learned in our new data-driven era of medicine, and use it to create a new system of precision medicine, delivering the best, safest, cost-effective preventative or therapeutic intervention at the right time, for the right patients. Dr. Butte's teams at the University of California build and apply tools that convert trillions of points of molecular, clinical, and epidemiological data — measured by researchers and clinicians over the past decade and now commonly termed “big data” — into diagnostics, therapeutics, and new insights into disease. Dr. Butte, a computer scientist and pediatrician, will highlight his center's recent work on integrating electronic health records data from over 8 million patients across the entire University of California, and how analytics on this “real world data” can lead to new evidence for drug efficacy, new savings from better medication choices, and new methods to teach intelligence — real and artificial — to more precisely practice medicine.

## ROUNDTABLE SESSIONS



7:30 a.m. - 8:30 a.m. (40000 Series) -or- 12:30 p.m. - 1:30 p.m. (50000 Series)

LOCATION: Ballroom DE • CREDITS: ACCENT®: 1.0, CME: Not eligible

Most roundtable sessions are presented twice daily. Attendance is limited to 10 participants per session. Advance registration and session fees are required. Meals are not provided for these sessions. Concession stands are available to purchase food.

AM SESSION PM SESSION	TITLE	LEVEL
42101 52201	<b>A Case of Finding Needles in a Haystack: Retrospective Random Error Identification in a Large Laboratory Dataset</b> <i>Clarence Chan, MD, PhD, The University of Chicago, Chicago, IL</i>	<b>B</b>
42102 52202	<b>Accuracy and Reliability of Vitamin D Measurements: Observations Made by the CDC Clinical Standardization Programs</b> <i>Otoe Sugahara, BS, Centers for Disease Control and Prevention, Atlanta, GA</i>	<b>I</b>
42103 52203	<b>Clinical Assay Interference: The Common Sources of Uncommon Interferences</b> <i>Zahra Shajani-Yi, PhD, DABCC (CC), NRCC-CC, FAACC, Labcorp, San Diego, CA</i>	<b>I</b>
42104 52204	<b>Collect It Yourself! Putting Innovations and Advances in Self-Collection Devices into Practice</b> <i>Ria Fyffe-Freil, PhD, Mayo Clinic, Rochester, MN</i>	<b>B</b>
42105 52205	<b>Cystic Fibrosis: More Than Just Lung Function</b> <i>In cooperation with the Pediatric and Maternal-Fetal Division Anil Kiran Chokkalla, PhD, Baylor College of Medicine, Houston, TX</i>	<b>B</b>
42106 52206	<b>Ensuring Quality Measurements of Emerging and Traditional Biomarkers for Cardiovascular Diseases: The CDC Cardiovascular Disease Biomarker Standardization Programs</b> <i>Alicia Lyle, PhD, Centers for Disease Control and Prevention, Atlanta, GA</i>	<b>I</b>
42107 52207	<b>Evidence-Based Body Fluid Testing</b> <i>Darci Block, PhD, DABCC, Mayo Clinic, Rochester, MN</i>	<b>B</b>
42108 52208	<b>Hemoglobin Fractionation by Capillary Electrophoresis: A Case-Based Laboratory Analysis of Hemoglobinopathies</b> <i>S.M. Touhidul Islam, PhD, University of Texas Southwestern Medical Center, Dallas, TX</i>	<b>I</b>
42110 52210	<b>How Blood Tests Are Affected by Transfusion or Apheresis</b> <i>Saptarshi Mandal, MD, MS, All India Institute of Medical Sciences, Jodhpur, India</i>	<b>B</b>
42111 52211	<b>How Often to Repeat the Test: Importance and Challenges of Minimal Retesting Interval</b> <i>Asmita Hazra, MD, AIIMS Kalyani, NH34 connector, Basantapur, Saguna Near Kalyani, India</i>	<b>I</b>
42112 52212	<b>Impact of Blood Collection Tube Components on Clinical Assays: The Importance of Validation Studies When Changing Components Due to Supply Chain Disruptions</b> <i>Raffick Bowen, PhD, MHA, CSLT, DCIChem, DABCC, FCACB, FAACC, Stanford University, Stanford, CA</i>	<b>B</b>
42113 52213	<b>Implementation of Alert System for Early Diagnosis of Acute Kidney Injury</b> <i>Barnali Das, MD, DNB, PGDHHM, FAACC, Kokilaben Dhirubhai Ambani Hospital &amp; Medical Research Institute, Mumbai, Maharashtra, India</i>	<b>B</b>

# ROUNDTABLE SESSIONS



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LOCATION: Ballroom DE • CREDITS: ACCENT®: 1.0, CME: Not eligible

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AM SESSION PM SESSION	TITLE	LEVEL
42114 52214	<b>Laboratory Best Practice in Ameliorating Risk of Diabetes Mellitus Postpartum</b> <i>Lily Olayinka, PhD, Baylor College of Medicine, Houston, TX</i>	<b>B</b>
42115 52215	<b>Managing Modern Threats to Laboratory Safety</b> <i>Dan Scungio, MT (ASCP), SLS, CQA (ASQ), CHOP, Sentara Healthcare, Williamsburg, VA</i>	<b>I</b>
42116 52216	<b>Role of Circulating Cytokines in Cancer Immunotherapy</b> <i>Aleksei Tikhonov, PhD, Gustave Roussy, Gentilly, France</i>	<b>I</b>
42118 52218	<b>Standardization of Laboratory Practices in a Multi-Hospital Healthcare System</b> <i>Yun Trull, PhD, DABCC, Allegheny Health Network, Pittsburgh, PA</i>	<b>I</b>
42119 52219	<b>System-Wide Futureproof Clinical Instrumentation Upgrade: Who, What, When, Where, Why, and How</b> <i>Xu Li, PhD, ASCP, NRCC, Emory University, Atlanta, GA</i>	<b>I</b>
42120 52220	<b>Take a Chill Pill: Benzodiazepine Analysis by an Improved LC-MS/MS Method Demonstrates Usage Patterns in Pacific Northwest Area</b> <i>Joyce Liao, PhD, DABCC, FAACC, University of Washington, Seattle, WA</i>	<b>B</b>
42121 52221	<b>Testing for CA125: Providing New Opportunities for Cardiovascular Medicine</b> <i>Damien Gruson, PhD, Cliniques Universitaires Saint Luc, Kraainem, Belgium</i>	<b>I</b>
42122 52222	<b>The ABC's of Cystatin C</b> <i>Adam McShane, PhD, DABCC, Cleveland Clinic, Cleveland, OH</i>	<b>B</b>
42123 52223	<b>The Essentials of Implementing Patient-Based Quality Control</b> <i>Sheng-Ying Lo, PhD, DABCC, Geisinger Medical Laboratories, Danville, PA</i>	<b>B</b>
42124 52224	<b>The Folate Conundrum: Deficiency, Toxicity, and Patient Safety</b> <i>Bremansu Osa-Andrews, PhD, DABCC, NRCC, University Of Florida, Dallas, TX</i>	<b>B</b>
42125 52225	<b>The Impact of the NGSP on HbA1c Measurement in the Clinical Laboratory</b> <i>Randie Little, PhD, University of Missouri at Columbia, Columbia, MO</i>	<b>I</b>
42126 52226	<b>Thrombosis Testing: A Case Based Approach</b> <i>Olajumoke Oladipo, MD, DABCC, FAACC, Penn State Milton S. Hershey Medical Center, Hershey, PA</i>	<b>I</b>
42127 52227	<b>Troubleshooting Liquid Chromatography Tandem Mass Spectrometry-Based Assays</b> <i>Patrick DeArmond, PhD, Nationwide Children's Hospital, Columbus, OH</i>	<b>I</b>
42129 52229	<b>Implementing a New Test or a New Instrument? A Crash Course on Method Validation</b> <i>Kornelia Galior, PhD, DABCC, University of Wisconsin, Madison, Madison, WI</i>	<b>B</b>

## MEET THE EXPERT

Morning | 10:30 a.m. - 11:30 a.m.

SESSION	TITLE	ROOM	CREDITS:		LEVEL
			ACCENT	CME	
62001	Developing Microbiome-Directed Therapeutics for Treating Childhood Undernutrition	203	1.0	1.0	1

Moderator *Allan Jaffe, MD, Mayo Clinic, Rochester, MN*  
*Jeffrey Gordon, MD, Washington University School of Medicine, St. Louis, MO*

## PRESIDENT'S INVITED SESSION

Morning | 10:30 a.m. - 12:00 p.m.

32102	Emerging Trends in Laboratory Medicine: Excellence from the Global Community	204BC	1.5	1.5	B
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*In cooperation with the Association for Clinical Biochemistry and Laboratory Medicine, IFCC Working Group on Machine Learning in Laboratory Medicine, and Korean Society of Laboratory Medicine*

Moderator *Shannon Haymond, PhD, DABCC, FAACC, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL*

- Rapid Response Processes for Emerging Infectious Diseases: Importance of Preparedness and Collaboration**  
*Heungsup Sung, MD, PhD, University of Ulsan College of Medicine, Seoul, Republic of Korea*
- Appropriate Test Utilization Driving Sustainability**  
*Katherine Hayden, FRCPath, CSci, EuSpLM, BSc, Manchester University NHS Foundation Trust/Association for Clinical Biochemistry and Laboratory Medicine, Manchester, United Kingdom*
- Machine Learning Guidelines for the Global Laboratory Medicine Community**  
*Stephen Master, MD, PhD, FAACC, Children's Hospital of Philadelphia, Philadelphia, PA*



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# SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
32101	Communication as a Mechanism for Building and Keeping Teams Effective	202	1.5	1.5	B
Moderator	<ul style="list-style-type: none"> <li>• <b>Disengagement, Burnout, and Turnover in Laboratory Medicine</b> <i>Sara Love, PhD, DABCC, Siemens Healthineers, Newark, DE</i></li> <li>• <b>Recognizing Yourself While in Communication</b> <i>Joy Glasser, MA, Glasser Group Inc., Minneapolis, MN</i></li> <li>• <b>Giving a Gift of Improv for Improving Communication</b> <i>Jim Robinson, Consultant, Saint Paul, MN</i></li> </ul>				
32103	The Pathology Informatics Service: A Model for Laboratory Improvement and Education	205	1.5	1.5	B
Moderator	<ul style="list-style-type: none"> <li>• <b>Pathology Informatics Service at Washington University in St. Louis</b> <i>Ronald Jackups, MD, PhD, Washington University in St. Louis, Saint Louis, MO</i></li> <li>• <b>Pathology Informatics Service at the University of Washington</b> <i>Noah Hoffman, MD, PhD, University of Washington, Seattle, WA</i></li> <li>• <b>Pathology Informatics Service at Houston Methodist Hospital</b> <i>Paul Christensen, MD, Houston Methodist Hospital, Houston, TX</i></li> </ul>				
32104	Spanning the Spectrum from Pre- To Post-analytical Effects on Blood Gas Analysis: Updated Guidelines and Challenges in Modern Medicine Among Different Patient Populations	206	1.5	1.5	B
Moderator	<ul style="list-style-type: none"> <li>• <b>New Preanalytical Challenges in Blood Gas Analysis in Modern Medicine and Different Patient Populations</b> <i>Felix Leung, PhD, FCACB, Mount Sinai Hospital, Toronto, ON, Canada</i></li> <li>• <b>New Post-analytical Challenges in Blood Gas Analysis in Different Medical Conditions</b> <i>J Shirley Li, MD, PhD, DABCC, NRCC, FCACB, The Ohio State University Wexner Medical Center, Columbus, OH</i></li> <li>• <b>Interesting Tidbits and Controversies in Developing the New 3rd Edition of CLSI C46: Blood Gas and pH Analysis and Related Measurements</b> <i>John Toffaletti, PhD, DABCC, Duke University Medical Center, Durham, NC</i></li> </ul>				

## SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
32105	<b>Sepsis: Clinical Updates and Emerging Diagnostic Markers</b>	207AB	1.5	1.5	<b>1</b>
	<ul style="list-style-type: none"> <li>• <b>The New Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock 2021 in Practice</b> <i>Layla Sankari, MD, University Hospitals Cleveland Medical Center, Cleveland, OH</i></li> <li>• <b>Emerging New Biomarkers for Sepsis: Ready for Implementing?</b> <i>Xiaochun Zhang, MD, PhD, DABCC, DABMLI, HCLD, University Hospitals Cleveland Medical Center, Cleveland, OH</i></li> </ul>				
Moderator	<i>Xiaochun Zhang, MD, PhD, DABCC, DABMLI, HCLD, University Hospitals Cleveland Medical Center, Cleveland, OH</i>				
32106	<b>Interpretation of Pediatric Toxicology Results in the Assessment of Child Maltreatment</b>	208	1.5	1.5	<b>1</b>
	<i>In cooperation with the TDM &amp; Toxicology Division</i>				
	<ul style="list-style-type: none"> <li>• <b>Child Maltreatment Evaluations in the Setting of Positive Toxicology Results</b> <i>Kelsey Merl, NP, MPH, University of California, San Francisco/Benioff Children's Hospital Oakland, Oakland, CA</i></li> <li>• <b>Pediatric Toxicology: Analytical Approaches and Clinical Cases</b> <i>Kara Lynch, PhD, DABCC, FAACC, University of California, San Francisco, San Francisco, CA</i></li> </ul>				
Moderator	<i>Kara Lynch, PhD, DABCC, FAACC, University of California, San Francisco, San Francisco, CA</i>				
32107	<b>Representation Matters: The Importance of Gender Diversity from the Bench to the Bedside</b>	209	1.5	0	<b>1</b>
	<ul style="list-style-type: none"> <li>• <b>The Chemist's Perspectives</b> <i>Dina Greene, PhD, DABCC, LetsGetChecked, Burien, WA</i></li> <li>• <b>The Trialist's Perspective</b> <i>Mark Marzinke, PhD, DABCC, FAACC, Johns Hopkins University, Baltimore, MD</i></li> <li>• <b>The Practitioner's Perspective</b> <i>Zil Goldstein, FNP-BC, AAHIVS, Callen-Lorde, New York, NY</i></li> </ul>				
Moderator	<i>Dina Greene, PhD, DABCC, LetsGetChecked, Burien, WA</i>				

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# SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
32108	<b>Hyperglycemia in the Hospital: Are Our Tools for Measurement Accurate Enough?</b>	210AB	1.5	1.5	<b>I</b>

*In cooperation with the AACC Clinical Societies Collaboration Committee and American Diabetes Association*

- **What Should Glucose Targets Be in the Hospital?**

*Mary Korytkowski, MD, University of Pittsburgh, Pittsburgh, PA*

- **Blood Glucose Meters in the Hospital: Are They Good Enough?**

Moderator *David Sacks, MB, ChB, FRCPath, National Institutes of Health, Bethesda, MD*

- **Continuous Glucose Monitors in the Hospital: Are They Good Enough?**

*Guido Freckmann, MD, Institute for Diabetes Technology GmbH, Ulm, Germany*

32109	<b>Hype, Hope, or Already Here: The Status of Non-Invasive Prenatal Screening and Liquid Biopsies</b>	210CD	1.5	1.5	<b>B</b>
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*In cooperation with the Molecular Pathology Division*

- **cfDNA in Prenatal Screening and Diagnosis**

*Christina Lockwood, PhD, DABCC, DABMGG, University of Washington, Seattle, WA*

- **cfDNA in Tumor Testing**

Moderator *Vera Paulson, MD, PhD, University of Washington, Kirkland, WA*

## STUDENT RESEARCH AWARDS ORAL PRESENTATION COMPETITION

**Monday, July 24 | 1:30 p.m. - 2:30 p.m.  
Room 206**

The Student Research Awards oral presentation competition includes presentations from four top-scoring students on topics across laboratory medicine.





## CHAIR'S INVITED SESSION

Mid-day | 12:30 p.m. - 2:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
32442	High-Sensitivity Cardiac Troponin: Updates on Educational Recommendations from the IFCC Committee on Clinical Applications of Cardiac Biomarkers	204BC	1.5	1.5	1

*In cooperation with the IFCC Committee on Clinical Applications of Cardiac Biomarkers*

Moderator *Amy Saenger, PhD, DABCC, FAACC, Hennepin County Medical Center, Minneapolis, MN*

- **How Did Laboratory and Clinical Practice Get to Cardiac Troponin I and T: Is One Assay Superior to the Other?**

*Peter Kavsak, PhD, FCACB, FAACC, FCCS, McMaster University, Hamilton, ON, Canada*

- **High-Sensitivity Troponin for Early Rule-Out of Myocardial Infarction**

*Allan Jaffe, MD, Mayo Clinic, Rochester, MN*

- **Analytical Nuances with High-Sensitivity Troponin Assays: From the 99th Percentile to Macro-troponin**

*Kristin Aakre, MD, PhD, Haukeland University Hospital, Bergen Norway*

- **Updated Recommendations for Utilization of Point-of-Care Cardiac Troponin Assays**

*Louise Cullen, MBBS(Hon), FACEM, PhD, Royal Brisbane and Women's Hospital/The University of Queensland, Brisbane, Australia*

## SCIENTIFIC SESSIONS

Mid-day | 12:30 p.m. - 2:00 p.m.

32441	Project Management in Laboratory Medicine: Principles and Applications in Large and Small Laboratories	203	1.5	1.5	1
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Moderator *Brad Karon, MD, PhD, FAACC, Mayo Clinic, Rochester, MN*

- **Project Management: What Is It, and Why Is It Important in the Laboratory?**

*Jo Abel, PMP, Mayo Clinic, Rochester, MN*

- **Project Management in a Large Laboratory System**

*Earle Collum, MD, Labcorp, Phoenix, AZ*

- **Project Management in Community Hospital Laboratories and Urgent Care Centers**

*Kendall Cradic, PhD, OhioHealth Laboratory Services, Powell, OH*

# SCIENTIFIC SESSIONS

Mid-day | 12:30 p.m. - 2:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
32443	<b>Genomic Testing and the Complexity of Introducing Emerging Technologies in Laboratory Medicine</b>	205	1.5	1.5	<b>B</b>
	<ul style="list-style-type: none"> <li>• <b>Emerging Technologies: A Definition for Laboratory Medicine and Their Role in Healthcare Worldwide</b> <i>Ronda Greaves, PhD, Victorian Clinical Genetics Services, Parkville, VIC, Australia</i></li> <li>• <b>The Evolving Role of Emerging Genomic Technologies in Laboratory Medicine</b> <i>Lianna Kyriakopoulou, PhD, Hospital for Sick Children, Toronto, ON, Canada</i></li> </ul>				
Moderator	<i>Lianna Kyriakopoulou, PhD, Hospital for Sick Children, Toronto, ON, Canada</i>				
32444	<b>Advances in Biomarkers of Transplant Rejection</b>	207AB	1.5	1.5	<b>A</b>
Moderator	<i>Loralie Langman, PhD, DABCC, Mayo Clinic, Rochester, MN</i>				
	<ul style="list-style-type: none"> <li>• <b>Transplant Rejection: HLA Eplets and Antibody Testing</b> <i>Manish Gandhi, MD, Mayo Clinic, Rochester, MN</i></li> <li>• <b>Donor Derived Cell Free DNA (dd-cfDNA) as a Biomarker in Solid Organ Transplantation</b> <i>Stephen Murphy, PhD, Mayo Clinic, Rochester, MN</i></li> </ul>				
32445	<b>Bridging Emergency Medicine and Public Health: Clinical Toxicology Laboratory Strategies to Characterize Local Drug Supplies and Drug Use Patterns</b>	208	1.5	1.5	<b>B</b>
	<i>In cooperation with the TDM &amp; Toxicology Division</i>				
	<ul style="list-style-type: none"> <li>• <b>Using Qualitative and Ethnographic Research Methods to Assess Shifts in Drug Supplies and Use Patterns</b> <i>Alexandra Collins, PhD, Brown University School of Public Health, Providence, RI</i></li> <li>• <b>Tiered Toxicology Testing to Characterize Local Drug Supply and Overdose Culprits</b> <i>Adina Badea, PhD, DABCC, Lifespan Health/Rhode Island Hospital/Brown University, Providence, RI</i></li> <li>• <b>Toxicology Results Interpretation and Effective Communication for Timely Individual and Community Response</b> <i>Rachel Wightman, MD, FACMT, Alpert Medical School of Brown University, Providence, RI</i></li> </ul>				
Moderator	<i>Adina Badea, PhD, DABCC, Lifespan Health/Rhode Island Hospital/Brown University, Providence, RI</i>				

## SCIENTIFIC SESSIONS

Mid-day | 12:30 p.m. - 2:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
32446	<b>An Update on Complement Testing in the Era of Complement Therapeutics</b>	209	1.5	1.5	<b>I</b>
	<i>In cooperation with the Clinical &amp; Diagnostic Immunology Division</i>				
	<ul style="list-style-type: none"> <li>• <b>Advancements and Nuances in Complement Testing in the Clinical Laboratory</b> <i>Ashley Frazer-Abel, PhD, DABMLI, University of Colorado School of Medicine/Exsera BioLabs, Aurora, CO</i></li> <li>• <b>Monitoring of Anti-Complement Therapeutics in Complement-Mediated Renal Diseases</b> <i>Vijayalakshmi (Viji) Nandakumar, PhD, DABCC, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT</i></li> </ul>				
Moderator	<i>Vijayalakshmi (Viji) Nandakumar, PhD, DABCC, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT</i>				
32447	<b>Cystic Fibrosis: Treatment, Diagnosis, and Laboratory Best Practices</b>	210AB	1.5	1.5	<b>I</b>
	<i>In cooperation with the Pediatric and Maternal-Fetal Division</i>				
Moderator	<i>Stanley Lo, PhD, DABCC, FAACC, Children's Wisconsin, Milwaukee, WI</i>				
	<ul style="list-style-type: none"> <li>• <b>Overview of Cystic Fibrosis Diagnosis and Management</b> <i>Clement Ren, MD, MBA, Children's Hospital of Philadelphia, Philadelphia, PA</i></li> <li>• <b>Sweating the Small Stuff: Best Practices for Sweat Testing to Diagnose Cystic Fibrosis</b> <i>Edith Zemanick, MD MSCS, University of Colorado and Children's Hospital Colorado, Aurora, CO</i></li> </ul>				
32448	<b>Artificial Intelligence and Machine Learning in the Clinical Laboratories: Fundamental Concepts, Clinical Use Cases, and Future Considerations</b>	210CD	1.5	1.5	<b>B</b>
	<i>In cooperation with the AACC Data Analytics Steering Committee</i>				
	<ul style="list-style-type: none"> <li>• <b>Foundational Concepts of Analytics, Artificial Intelligence, and Machine Learning</b> <i>Christopher Williams, MD, EE, University of Oklahoma Health Sciences Center, Oklahoma City, OK</i></li> <li>• <b>Artificial Intelligence and Machine Learning Use in the Clinical Laboratories</b> <i>David McClintock, MD, Mayo Clinic, Rochester, MN</i></li> <li>• <b>Future Considerations for Artificial Intelligence and Machine Learning in the Clinical Laboratories: A Focus on Ethics, Regulatory, and Data Governance</b> <i>Thomas Durant, MD, Yale School of Medicine, Wallingford, CT</i></li> </ul>				
Moderator	<i>David McClintock, MD, Mayo Clinic, Rochester, MN</i>				

# SCIENTIFIC SESSIONS

Afternoon | 2:30 p.m. - 4:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
32221	Calculated LDL-Cholesterol: Quo Vadis	202	1.5	1.5	1
Moderator	<ul style="list-style-type: none"> <li>• <b>What is the Best Practice in LDL-Cholesterol? When and How to Calculate</b> <i>Tahir Pillay, MD, PhD, University of Pretoria/National Health Laboratory Service, Pretoria, South Africa</i></li> <li>• <b>Risk Assessment in Cardiovascular Disease Using Derived Lipid Profile Parameters</b> <i>Patrick Twomey, MB BCH BAO, FRCPath, FFPATH(RCPI), FRCPI, St Vincent's University Hospital, Dublin, Ireland</i></li> </ul>				
32222	Advances in Courier, Drone, and Automated Laboratory Transport	203	1.5	1.5	2
Moderator	<ul style="list-style-type: none"> <li>• <b>Mitigating Environmental Factors on Specimens by Standardizing Courier Transport Systems</b> <i>Joe Wiencek, PhD, DABCC, NRCC, FAACC, Vanderbilt University School of Medicine, Nashville, TN</i></li> <li>• <b>Drones are Expanding the Horizon of Specimen Transport Systems</b> <i>Timothy Amukele, MD, PhD, ICON Clinical Research, Farmingdale, MD</i></li> <li>• <b>Maximizing Efficiency in Processing and Specimen Distribution Through Laboratory Automation</b> <i>Jonathan Genzen, MD, PhD, ARUP Laboratories, Salt Lake City, UT</i></li> </ul>				
32223	Interactive Patient Case Presentation: A Discussion Between Laboratory Medicine, Cardiology, and Emergency Medicine Providers Addressing Utilization of High Sensitivity Cardiac Troponin Assays in Clinical Practice	204BC	1.5	1.5	1
Moderator	<ul style="list-style-type: none"> <li>• <b>Laboratory Medicine Experience</b> <i>Peter Kavsak, PhD, FCACB, FAACC, FCCS, McMaster University, Hamilton, ON, Canada</i></li> <li>• <b>Emergency Medicine Experience</b> <i>Louise Cullen, MBBS(Hon), FACEM, PhD, Royal Brisbane and Women's Hospital/The University of Queensland, Brisbane, Australia</i></li> <li>• <b>Cardiology Experience</b> <i>Allan Jaffe, MD, Mayo Clinic, Rochester, MN</i></li> </ul>				

## SCIENTIFIC SESSIONS

Afternoon | 2:30 p.m. - 4:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
32224	To Immunoassay or To Mass Spec: Lab Stewardship Questions When Bringing Antiepileptic Drug Assays In-House	205	1.5	1.5	B
	<ul style="list-style-type: none"> <li>• <b>Creating Clinical Value with Low-Volume Immunoassays Testing</b> <i>Claire Knezevic, PhD, DABCC, NRCC, Johns Hopkins Medical Institutes, Baltimore, MD</i></li> <li>• <b>Meeting Clinical Needs and Decreasing Sendout Costs with Mass Spectrometry Testing</b> <i>Alec Saitman, PhD, ASCP, DABCC, Providence Regional Laboratories, Portland, OR</i></li> <li>• <b>Meeting Turnaround-Time Expectations with Flexible Scheduling in Mass Spectrometry Testing</b> <i>Adina Badea, PhD, DABCC, Lifespan Health/Rhode Island Hospital/Brown University, Providence, RI</i></li> </ul>				
Moderator					
32225	Assessing Kidney Function by mGFR and eGFR: Current and Future Approaches	207AB	1.5	1.5	I
	<i>In cooperation with the IFCC Committee on Kidney Diseases</i>				
Moderator	<i>Joe El-Khoury, PhD, DABCC, FAACC, Yale University, West Haven, CT</i>				
	<ul style="list-style-type: none"> <li>• <b>Directly Measuring Patients' GFR in Routine Clinical Practice</b> <i>Jesse Seegmiller, PhD, DABCC, University of Minnesota, Farmington, MN</i></li> <li>• <b>Looking to the Future of Serum Creatinine and eGFR in Assessing Chronic Kidney Disease</b> <i>John Toffaletti, PhD, DABCC, Duke University Medical Center, Durham, NC</i></li> </ul>				
32226	Person-Centered Care for Opioid Use Disorder: Shifting Roles for Clinical Laboratories and Urine Drug Testing	208	1.5	0	I
Moderator	<i>Danijela Konforte, PhD, FCACB, LifeLabs, Toronto, ON, Canada</i>				
	<ul style="list-style-type: none"> <li>• <b>Clinical Use of Urine Drug Testing in the Context of Patient-Centered Opioid Use Disorder Management</b> <i>Sarah Delaney, PhD, DABCC, Unity Health Toronto, Toronto, ON, Canada</i></li> </ul>				

# SCIENTIFIC SESSIONS

Afternoon | 2:30 p.m. - 4:00 p.m.

SESSION	TITLE	ROOM	CREDITS; ACCENT/CME		LEVEL
32227	<b>Leprosy: Diagnostic Challenges in the Endemic Country of Brazil</b>	209	1.5	1.5	<b>B</b>
Moderator	<ul style="list-style-type: none"> <li>• <b>Laboratory Tests Used to Support the Clinical Diagnosis of Leprosy</b> <i>John Spencer, PhD, Colorado State University, Fort Collins, CO</i></li> <li>• <b>Active Leprosy Surveillance and Diagnosis Based on Clinical Signs and Symptoms: A 13 Year History of Leprosy in the Brazilian Amazon</b> <i>Claudio Salgado, MD, PhD, Ministry of Health of Brazil and Federal University of Pará, Belém, Pará, Brazil</i></li> </ul>				
32228	<b>Stronger Together: Eliminating Racial Healthcare Inequities by Mitigating Systemic Racism</b>	210AB	1.5	1.5	<b>B</b>
	<i>In cooperation with the Health Equity and Access Division</i>				
Moderator	<ul style="list-style-type: none"> <li>• <b>Actions to Transform US Preventive Services Task Force Methods to Mitigate Systemic Racism in Clinical Preventive Services</b> <i>Esa Davis, MD, MPH, FAAFP, University of Pittsburgh Medical Center, Pittsburgh, PA</i></li> <li>• <b>A Review of the AACC-NKF Guidance Document on Chronic Kidney Disease Diagnosis: Improving Equity in Chronic Kidney Disease</b> <i>Christina Pierre, PhD, DABCC, Lancaster General Hospital, Lancaster, PA</i></li> <li>• <b>Centering Laboratory Medicine: Designing Your Organization's Health Equity Playbook</b> <i>Octavia Peck Palmer, PhD, FAACC, University of Pittsburgh Medical Center, Pittsburgh, PA</i></li> </ul>				
32229	<b>Risky Business: Mitigation Strategies for FDA-Modified and LDT Assays Using Alternate Specimen Types</b>	210CD	1.5	1.5	<b>I</b>
	<i>In cooperation with the Pediatric and Maternal-Fetal Division</i>				
Moderator	<ul style="list-style-type: none"> <li>• <b>All the Right Moves: Body Fluid Validation Made Accessible</b> <i>Steven Cotten, PhD, DABCC, NRCC, FAACC, University of North Carolina at Chapel Hill, Chapel Hill, NC</i></li> <li>• <b>War of the Worlds: Inpatient Needs in the Outpatient Setting</b> <i>Jane Dickerson, PhD, DABCC, Seattle Children's Hospital, Seattle, WA</i></li> </ul>				

# STUDENT RESEARCH AWARDS COMPETITIONS

**MONDAY, JULY 24** | Anaheim Convention Center

The Student Research Awards competitions showcase the field's finest young scientists and is intended for students, trainees, and postdoctoral fellows who are presenting authors of accepted poster abstracts for the Annual Scientific Meeting. The competition consists of two parts, the Student Oral Presentation Competition and Student Poster Competition. Visit [meeting.aacc.org/abstracts](http://meeting.aacc.org/abstracts) to learn more about the competitions, competitors, and winner announcements.

## POSTER COMPETITION

**On display 9:30 a.m. - 5:00 p.m.**  
**Judging takes place 2:45 p.m. - 4:00 p.m.**  
**Room: 207CD**

Visit over 40 student posters that will be on display showcasing student research for all conference participants and reviewed by in-person judges. Explore the science and network with peers and leaders in the field. Winners of this competition are announced at the ABCC-SYCL Awards and Recognition Reception.

## ORAL PRESENTATION COMPETITION

**1:30 p.m. - 2:30 p.m.**  
**Room: 206**

Hear presentations from the four top-scoring student abstracts from across the field of laboratory medicine. Competitors will present their research to a panel of judges in a brief presentation. The competition is open to conference participants. Winners of this competition are also announced at the ABCC-SYCL Awards and Recognition Reception.



## 2023 DISRUPTIVE TECHNOLOGY AWARD COMPETITION

**Afternoon | 4:30 p.m. - 6:00 p.m.**

**Location: Ballroom ABC**

*Sponsored by LabCorp and Siemens Healthineers*

ADLM's Disruptive Technology Award Competition recognizes innovative testing and disruptive technology solutions that improve patient care through diagnostic performance or access to high quality testing. The competition provides an opportunity for organizations of all sizes in the medical device, diagnostic, or digital health/health IT spaces to showcase their technology at the AACC Annual Scientific Meeting & Clinical Lab Expo and present to a panel of judges. In this special session, three finalists will deliver presentations explaining their leading-edge technology and showcasing supporting evidence for the performance and impact of their novel development. Each presentation will be followed by a brief Q&A with an expert panel of judges who will rank disruptiveness, innovation, and impact among other factors. The winner will be announced at the close of the event.

### MASTER OF CEREMONIES

**Stephen R. Master, MD, PhD, FAACC**, *Children's Hospital of Philadelphia*

### JUDGES:

**Joseph Bernardo, MA**

*Operating Partner, Linden, LLC*

**John Blackwood, MS, MBA**

*Founder, Horizon Dx, LLC*

**Kelly Y. Chun, PhD**

*Vice President, R&D, LabCorp*

### FINALISTS:

**Carey-Ann Burnham, PhD**

*Chief Clinical Officer, Pattern Bioscience*

**Livia Eberlin, PhD**

*Chief Scientific Officer, MS Pen Technologies, Inc.*

**Mounir Koussa, PhD**

*Co-founder and Vice President of R&D,  
Vital Biosciences, Inc.*





# PLENARY+ SCIENTIFIC SESSIONS

**TUESDAY, JULY 25**



## PLENARY SESSION 13001

TUESDAY, JULY 25

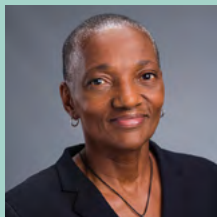
8:45 a.m. - 10:15 a.m.

LOCATION: Ballroom ABC

LEVEL: Intermediate

CREDITS: ACCENT®: 1.0, CME: 1.0

### Choosing Equity in Healthcare: An Organizational Transformation



**Thea L. James, MD, MPH, MBA**

*Vice President of Mission, Associate Chief Medical Officer, and Co-Executive Director of the Health Equity Accelerator*

*Associate Professor of Emergency Medicine*

*Director, Violence Intervention Advocacy Program  
Boston Medical Center, Boston, MA*

The session will highlight the reckoning of racism in America in 2020, and its intersectional impact on health, healthcare delivery, and medical education. This session will present an example of one academic healthcare system's approach to an enterprise-wide transformation toward organizational equity. The session will share an evolution, interventions, and early outcomes as a result of the process.

## ROUNDTABLE SESSIONS



7:30 a.m. - 8:30 a.m. (40000 Series) -or- 12:30 p.m. - 1:30 p.m. (50000 Series)

LOCATION: Ballroom DE • CREDITS: ACCENT®: 1.0, CME: Not eligible

Most roundtable sessions are presented twice daily. Attendance is limited to 10 participants per session. Advance registration and session fees are required. Meals are not provided for these sessions. Concession stands are available to purchase food.

AM SESSION PM SESSION	TITLE	LEVEL
43101 53201	<b>Advances in Alzheimer's Disease Diagnostics and Therapeutics</b> <i>Heather Nelson, PhD, ARUP Laboratories, Salt Lake City, UT</i>	<b>B</b>
43102 53202	<b>An Overview of Various HbA1c Assay Methodologies: Analytical and Biological Limitations</b> <i>Vishnu Amaram Samara Simha Subhash Chandra, PhD, University of Chicago, Chicago, IL</i>	<b>I</b>
43103 52203	<b>Anion Gap: A Review and Reappraisal</b> <i>David Alter, MD, MPH, DABCC, FAACC, Emory University, Atlanta, GA</i>	<b>I</b>
42104 53204	<b>Automate Your Antinuclear Antibody Immunofluorescence Testing: From Instrument Selection to Implementation</b> <i>Xiaochun Zhang, MD, PhD, DABCC, DABMLI, HCLD, University Hospitals Cleveland Medical Center, Cleveland, OH</i>	<b>I</b>
43105 53205	<b>Clinical Chemistry Comes to Hollywood!</b> <i>Alan Wu, PhD, University of California, San Francisco, San Francisco, CA</i>	<b>B</b>
43106 53206	<b>Diagnostic Blood Loss: Why It Is of Concern and How to Minimize it from the ICU and from the Laboratory</b> <i>Saptarshi Mandal, MD, MS, All India Institute of Medical Sciences, Jodhpur, India</i>	<b>I</b>
43107 52207	<b>Digital Microscopy in the Hematology Laboratory</b> <i>Megan Nakashima, MD, Cleveland Clinic, Cleveland, OH</i>	<b>B</b>
43108 53208	<b>Establishing Optimal Thresholds for High Sensitivity Cardiac Troponin Assays</b> <i>Li Liu, MD, PhD, Massachusetts General Hospital/Harvard Medical School, Boston, MA</i>	<b>I</b>
43110 53210	<b>Four Truths and a Lie: An Adrenal Case Series</b> <i>Ashley Rackow, PhD, Johns Hopkins Hospital, Baltimore, MD</i>	<b>B</b>
43111 53211	<b>Gels From Hell: Overcoming Difficult-to-Interpret Serum Protein Electrophoresis and Immunofixation Test Findings</b> <i>Robert Maynard, PhD, University of Kentucky, Chapel Hill, NC</i>	<b>I</b>
43112 53212	<b>Going Beyond Normal with HIL Interferences</b> <i>Heather Stieglitz, PhD, DABCC, The Ohio State University Wexner Medical Center, Columbus, OH</i>	<b>B</b>
43113 53213	<b>HIV Diagnostics: What's Next?</b> <i>Vincent Ricchiuti, PhD, ABB, FAACC, Labcorp, Dublin, OH</i>	<b>I</b>
43114 53214	<b>Implementation of Automated Calculation for Estimated Glomerular Filtration Rate in the Clinical Laboratory</b> <i>Izmarie Poventud-Fuentes, PhD, NRCC, Children's Hospital of Philadelphia/University of Pennsylvania, Philadelphia, PA</i>	<b>B</b>
43115 53215	<b>Implementing ICP-MS Elemental Analysis: From Streamlining Sample Preparation to Validation and Training</b> <i>Anastasia Gant Kanegusuku, PhD, University of Chicago, Chicago, IL</i>	<b>I</b>

# ROUNDTABLE SESSIONS



7:30 a.m. - 8:30 a.m. (40000 Series) -or- 12:30 p.m. - 1:30 p.m. (50000 Series)

LOCATION: Ballroom DE • CREDITS: ACCENT®: 1.0, CME: Not eligible

Most roundtable sessions are presented twice daily. Attendance is limited to 10 participants per session. Advance registration and session fees are required. Meals are not provided for these sessions. Concession stands are available to purchase food.

AM SESSION PM SESSION	TITLE	LEVEL
43116 53216	<b>Implementing Point-of-Care Testing in a Freestanding Emergency Department/Urgent Care Setting</b> <i>Kathleen David, MT (ASCP), TriCore Reference Laboratory, Albuquerque, NM</i>	1
43117 53217	<b>Intraoperative Mass Spectrometry Analysis for Cancer Diagnosis and Surgical Margin Evaluation: Recent Advances and Challenges to Implementation</b> <i>Hannah Brown, PhD, Washington University School of Medicine, Saint Louis, MO</i>	B
43118 53218	<b>Is the Preanalytical Phase a Challenge or an Opportunity in Laboratory Medicine?</b> <i>Oswald Sonntag, PhD, Consultant, Eichenau, Germany</i>	B
43119 53219	<b>Lead Testing: Laboratory and Community Practice-Led Solutions to Increase Access to Testing in High-Risk Communities, Decrease Exposure, and Improve Outcomes</b> <i>Jessica Colon-Franco, PhD, DABCC, Cleveland Clinic, Cleveland, OH</i>	B
43120 53220	<b>Making the Switch: Evaluating New Blood Collection Tubes for Clinical Chemistry Analysis</b> <i>Nadia Ayala-Lopez, PhD, MLS (ASCP), NRCC, DABCC, Labcorp Drug Development, Indianapolis, IN</i>	1
43121 53221	<b>Planning for Success! Lessons Learned from Implementing New Clinical Chemistry Analyzers Across a Large Laboratory System</b> <i>In cooperation with the Management Sciences and Patient Safety Division Melissa Budelier, PhD, DABCC, TriCore Reference Laboratories, Albuquerque, NM</i>	B
43122 53222	<b>Quality Control in Molecular Biology Laboratories</b> <i>Ashwini Kumar Nepal, MS, MLS(ASCP)CM, PPD, part of Thermo Fisher Scientific, Highland Heights, KY</i>	B
43123 53223	<b>Red Light, Green Light: Electronic Order Alert Strategies</b> <i>Deanna Franke, PhD, MT (ASCP), DABCC, Atrium Health, Gastonia, NC</i>	B
43124 53224	<b>Revising Laboratory Practice to Meet the New American Academy of Pediatrics Guidelines for Management of Hyperbilirubinemia</b> <i>Emily Ryan, PhD, DABCC, Atrium Health Navicent, Macon, GA</i>	B
43126 53226	<b>State-Of-Art of Antiphospholipid Antibody Testing: How to Interpret Antibody Results in Combination for the Best Diagnosis and Prognosis of Antiphospholipid Antibody Syndrome?</b> <i>In cooperation with the Clinical &amp; Diagnostic Immunology Division Vijayalakshmi (Viji) Nandakumar, PhD, DABCC, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT</i>	1
43127 53227	<b>La Importancia de Los Biomarcadores Del Perfil Lipídico Para El Diagnostico Oportuno de Enfermedades Cardiovasculares (presentado en Espanol)</b> <i>Luis Figueroa Montes, MD, Medicina del Laboratorio, Lima, lima (Peru)</i>	B
43128 53228	<b>Thyroid Disease in Pregnancy: How Much do We Know?</b> <i>Nazmin Bithi, PhD, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT</i>	B
43129 53229	<b>Urine Drug Screening by Gas Chromatography-Mass Spectrometry</b> <i>Zhicheng Jin, PhD, DABCC, University of Wisconsin, Madison, Madison, WI</i>	1

## SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 11:30 a.m.

SESSION	TITLE	ROOM	CREDITS; ACCENT/CME		LEVEL
33101	<b>Risk-Based Quality Control: Changing the Way We Do Quality Control</b>	204BC	1.5	0	<b>I</b>
	<ul style="list-style-type: none"> <li>• <b>A Simple Tutorial on Risk-Based Analysis for Quality Control</b> <i>Robert Schmidt, MD, PhD, MBA, Labcorp, Burlington, NC</i></li> <li>• <b>Precision Quality Control: A Risk-Based Model to Support Quality Control Decisions</b> <i>Joseph Rudolf, MD, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT</i></li> </ul>				
Moderator	<i>Joseph Rudolf, MD, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT</i>				
33102	<b>Decoding Molecular Signatures in Cancer Diagnostics</b>	205	1.5	1.5	<b>I</b>
	<i>In cooperation with the Molecular Pathology Division</i>				
	<ul style="list-style-type: none"> <li>• <b>Profiling Molecular Signatures That Define Tumorigenesis</b> <i>Jude Abadie, PhD, DABCC, DABMGG, FAACC, FACMG, Texas Tech University Health Sciences Center, El Paso, TX</i></li> <li>• <b>Mutation Signatures in Hematologic Malignancies and Solid Tumors</b> <i>Vera Paulson, MD, PhD, University of Washington, Kirkland, WA</i></li> </ul>				
Moderator	<i>Jude Abadie, PhD, DABCC, DABMGG, FAACC, FACMG, Texas Tech University Health Sciences Center, El Paso, TX</i>				
33103	<b>A Roadmap to Successful Data Analytics Projects at your Institution Today and in the Future</b>	206	1.5	1.5	<b>B</b>
	<ul style="list-style-type: none"> <li>• <b>The ABCs of Data Analytics in the Laboratory: Tackling Complexity with Confidence</b> <i>Thomas Durant, MD, Yale School of Medicine, Wallingford, CT</i></li> <li>• <b>Practical Use of Data to Guide Decision Making in the Clinical Laboratory</b> <i>David Peaper, MD, PhD, Yale School of Medicine, New Haven, CT</i></li> <li>• <b>Taking Laboratory Analytics to the Next Level: Development of Purpose-Built Infrastructure and Resources to Fuel Improved Laboratory Medicine</b> <i>Patrick Mathias, MD, PhD, University of Washington School of Medicine, Seattle, WA</i></li> </ul>				
Moderator	<i>Thomas Durant, MD, Yale School of Medicine, Wallingford, CT</i>				

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# SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS; ACCENT/CME		LEVEL
33104	<b>The Healthcare Forum: Meeting the 21st Needs of the Laboratory Workforce</b>	207AB	1.5	1.5	<b>I</b>
<i>In cooperation with the AACC Policy &amp; External Affairs Core Committee and AACC Clinical Laboratory Scientists Council</i>					

Moderator *Vince Stine, PhD, ADLM, Washington, DC*

- **The Personnel Crisis and What it Means for Clinical Labs**  
*David Shiembob, MBA, C (ASCP) CM, ARUP Laboratories, Salt Lake City, UT*
- **Strategies for Addressing the Workforce Shortage**  
*Frederick Strathmann, PhD, MBA, DABCC (CC, TC), MOBILion Systems, Warrington, PA*

33105	<b>Heavy Metal and Elemental Toxicity in Humans: Sources of Exposure, Role of Laboratory Medicine, and Case Reports</b>	207CD	1.5	1.5	<b>B</b>
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- **Usual and Unusual Sources of Exposure to Toxic Elements: How to Minimize Such Exposure and Treatment Strategies**  
*Amitava Dasgupta, PhD, DABCC, University of Kansas Medical Center, Lenexa, KS*

Moderator *Paul Jannetto, PhD, DABCC, MT (ASCP), FAACC, Mayo Clinic, Rochester, MN*

- **Elemental Toxicity: Case Reports and the Role of Laboratory Testing**

33106	<b>A Guide to Interpreting Complex Urine, Umbilical Cord, Meconium, and Hair Toxicology Cases</b>	208	1.5	1.5	<b>I</b>
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Moderator *Joe El-Khoury, PhD, DABCC, FAACC, Yale University, West Haven, CT*

- **Urine Trouble: Interpreting Complex Urine Toxicology Cases**
- **In Utero Drug Exposure: The Scoop on Umbilical Cord and Poop (Meconium)**  
*Kamisha Johnson-Davis, PhD, MT (ASCP), DABCC, FAACC, ARUP Laboratories/ University of Utah School of Medicine, Salt Lake City, UT*
- **Combing Out the Biases in Hair Toxicology Testing**  
*Jacqueline Hubbard, PhD, DABCC, C (ASCP), Three Rivers Diagnostics, Oakdale, PA*

33107	<b>Multiple Sclerosis: Beyond Oligoclonal Banding</b>	209	1.5	1.5	<b>B</b>
<i>In cooperation with the Clinical &amp; Diagnostic Immunology Division</i>					

Moderator *Maria Alice Willich, PhD, DABCC, FAACC, Mayo Clinic, Rochester, MN*

- **A Clinical Perspective on Multiple Sclerosis: Diagnosis, Prognosis, and Treatment**  
*W. Oliver Tobin, MBBCh, BAO, PhD, Mayo Clinic, Rochester, MN*
- **Immunoglobulin Kappa Light Chains as an Alternative to Oligoclonal Banding for Diagnosis of Multiple Sclerosis**  
*Harald Hegen, PD, MD, PhD, Medical University of Innsbruck, Innsbruck, Austria*
- **Monitoring Multiple Sclerosis: The Role of Neurofilaments Light Chain**  
*Joshua Bornhorst, PhD, DABCC, Mayo Clinic, Rochester, MN*

## SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
33108	Reducing Waste, Creating Efficiencies, and Increasing Quality of Patient Care: A Case Study Review of Common Preanalytical Practices and How Small Changes Create a Big Impact	210AB	1.5	1.5	ⓑ

- **Evaluating “Rainbow” Draws and Extra Tube Collection: Efficient and Convenient, or Wasteful and Unsafe?**

*Christine Snozek, PhD, DABCC, FAACC, Mayo Clinic, Phoenix, AZ*

- **How Important is “Clean Catch” in Urine Culture Testing? How One Hospital Avoided Millions with Improved Collection and Decreased Culture Contamination**

Moderator *Kacy Peterson, MBA, MLS (ASCP), DLM (ASCP), Avera McKennan Hospital, Sioux Falls, SD*

- **The Building Blocks of Blood Culture Collection: Can a <1% Contamination Rate be Met?**

*Jessica DesLauriers, MBA, MLS (ASCP), Avera McKennan Hospital, Harrisburg, SD*

33109	Clinical Assay Issues: What Endocrinologists Will Ask You	210CD	1.5	1.5	ⓐ
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*In cooperation with the AACC Clinical Societies Collaboration Committee and Endocrine Society*

Moderator *David Sacks, MB, ChB, FRCPath, National Institutes of Health, Bethesda, MD*

- **New Renin and Aldosterone Assays in the Diagnosis of Primary Aldosteronism**  
*Michael Stowasser, MBBS, FRACP, PhD, University of Queensland/Princess Alexandra Hospital, Woolloongabba, QLD, Australia*

- **Interpreting Challenging Prolactin Results**

*Anthony Heaney, MD, PhD, University of California, Los Angeles, Los Angeles, CA*

- **Endocrine Testing in Transgender Individuals**

*Jenna Sarvaideo, DO, Medical College of Wisconsin, Milwaukee, WI*



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# SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
33110	AACC Academy Distinguished Abstracts: Innovative Applications for Today and Emerging Discoveries for Tomorrow	202	0	0	<b>B</b>

*In cooperation with the AACC Academy*

Moderator: Gyorgy Abel, MD, PhD, Lahey Hospital & Medical Center, Burlington, MA

- An Equation based on the Standard Lipid Panel for Calculating Low-Density Lipoproteins-Triglycerides**  
 Anna Wolska, MS, PhD, FAHA, National Heart, Lung, and Blood Institute, Bethesda, MD
- An R Shiny App for Automated Peak Deconvolution, Interpretation, and Quantitation of Monoclonal Proteins Using Capillary Electrophoresis Immunotyping Data**  
 Steven Cotten, PhD, DABCC, NRCC, FAACC, University of North Carolina at Chapel Hill, Chapel Hill, NC
- Beta-Hydroxybutyrate/Acetoacetate Ratio as Indicator for Mitochondrial Diseases Utilizing a Novel LC-MS/MS Based Ketone Body Panel**  
 Robin Kemperman, PhD, Children's Hospital of Philadelphia, Philadelphia, PA
- Accurate and Early Detection of Colorectal Cancer Using a Multilocus DNA Methylation Markers-Based Testing in Peripheral Blood**  
 Chuanxin Wang, MD, PhD, The Second Hospital of Shandong University, Jinan, Shandong, China

## VISIT THE POSTER HALL

Tuesday, July 25 | 1:30 p.m. - 2:30 p.m.

Posters are on display from 9:30 a.m. - 5:00 p.m. in the Poster Hall on the Expo show floor of the Anaheim Convention Center. Presenting authors will be in attendance from 1:30 p.m. - 2:30 p.m. Visit the Poster Hall to see the latest science and network with colleagues and thought-leaders from across the world. *Open to all attendees.*

See page 78 for more details.





## SCIENTIFIC SESSIONS

Afternoon | 2:30 p.m. - 4:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
33221	Clinical Capacity Building in Developing Countries	203	1.5	1.5	B

Moderator *Steven Cotten, PhD, DABCC, NRCC, FAACC, University of North Carolina at Chapel Hill, Chapel Hill, NC*

- **Innovations in Specimen Collection and Transport in Remote Areas**  
*Catherine Omosule, PhD, Washington University in St. Louis, Saint Louis, MO*
- **Building Laboratory Capacity in Developing Countries**  
*Joan-Miguel Balada-Llasat, PharmD, PhD, DABMM, The Ohio State University Wexner Medical Center, Columbus, OH*
- **Working Hand-in-Hand with the Laboratory to Develop Workflows for Patient Management and Infection Control in Developing Countries**  
*Shu-Hua Wang, MD, MPH, PharmD, The Ohio State University, Columbus, OH*

33222	Making Meaningful Medical Decisions by Incorporating Point-of-Care Testing: Case Based Discussions for Thoughtfully Implementing Point-of-Care Testing in Various Settings	204BC	1.5	1.5	B
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*In cooperation with the Critical and Point-of-Care Testing Division*

Moderator *Jeanne Mumford, BS, MLS (ASCP), Johns Hopkins Hospital, Baltimore, MD*

- **Making Point-of-Care Testing Decisions Across Your Healthcare System Using a Clinical Committee**  
*Jamie Acero, MHA, BS, CPP, University of Pittsburgh Medical Center, Pittsburgh, PA*
- **Use Case Scenarios of a Variety of Point-of-Care Tests: Successes and Failures Based on Project Outcomes**  
*Meaghan Gladstone, University of Pittsburgh Medical Center, Pittsburgh, PA*
- **Meaningful Use of Point-of-Care Testing to Meet Clinical Needs in Underserved Populations**  
*William Clarke, PhD, MBA, DABCC, FAACC, Johns Hopkins University School of Medicine, Baltimore, MD*

33223	External Quality Assessment and Alternative Assessment in Molecular Diagnostics: Findings from an IFCC Survey	205	1.5	1.5	B
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*In cooperation with the Molecular Pathology Division*

Moderator *Deborah Payne, PhD, MT (ASCP), DABMM, DABCC, FAACC, CPDP Consulting LLC, Lakewood, CO*

- **Results from an IFCC C-MD International Survey on EQA**  
*Parviz Ahmad-Nejad, MD, University of Witten/Herdecke, Wuppertal, Germany*
- **Alternate Assessment for Molecular Diagnostics: Pathway to Quality Assurance for LDTs and Rare Analytes**  
*Aldo Vacaflares, PhD, MLS (ASCP), Plexus Laboratorio, La Paz, Bolivia*

# SCIENTIFIC SESSIONS

Afternoon | 2:30 p.m. - 4:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
33224	<b>Reimagining Laboratory Operations: Harnessing Technology to Do More Work</b>	206	1.5	1.5	<b>B</b>
	<ul style="list-style-type: none"> <li><b>Self-Service with Support: Reporting Needs and Solutions in the Clinical Laboratory</b> <i>Michelle Stoffel, MD, PhD, University of Minnesota/M Health Fairview, W, Roseville, MN</i></li> <li><b>Problem Solving with Python: A Case Series</b> <i>Jacob Spector, MD, Boston Children's Hospital, Boston, MA</i></li> <li><b>Automating Workflows: Dream or Reality?</b> <i>Simone Arvaisis-Anhalt, MD, University of California, San Francisco, San Francisco, CA</i></li> </ul>				
Moderator					
33225	<b>The Lab and Biomarkers in Cardiometabolic Clinical Trials: What Are Their Roles and What Are the Gains?</b>	207AB	1.5	1.5	<b>I</b>
	<ul style="list-style-type: none"> <li><b>Biomarkers as Entry Criteria and Surrogate Outcomes for Cardiovascular Clinical Trials</b> <i>David Berg, MD, MPH, Brigham and Women's Hospital, Boston, MA</i></li> <li><b>Can Biomarkers Help Us Understand Novel Drug Mechanisms of Action?</b> <i>Paul Welsh, PhD, MSc, BSc (Hons), University of Glasgow, Glasgow, United Kingdom</i></li> <li><b>The Lab as a Hub for Clinical Trials: The HIGH-STEACS and HISTORIC Experience and Beyond</b> <i>Atul Anand, MD, PhD, University of Edinburgh, Edinburgh, United Kingdom</i></li> </ul>				
Moderator					
33226	<b>Balancing Laboratory Workload and Costs to Patient Care: Method Selection and Testing Algorithm in Monoclonal Gammopathy Management</b>	207CD	1.5	1.5	<b>I</b>
	<i>In cooperation with the Tumor Markers &amp; Cancer Diagnostics Division</i>				
Moderator	<p><i>Jing Cao, PhD, DABCC, FAACC, University of Texas Southwestern Medical Center, Dallas, TX</i></p> <ul style="list-style-type: none"> <li><b>Selective Reflex to Immunofixation with Restricted Testing Frequency for Patient Population with Large Number of Stem Cell Transplants</b> <i>Alagarraju Muthukumar, PhD, MSc, DABCC, University of Texas Southwestern Medical Center, Dallas, TX</i></li> <li><b>Automated Workflow with Immunotyping in a Large Academic Health Center Core Lab</b> <i>J Shirley Li, MD, PhD, DABCC, NRCC, FCACB, The Ohio State University Wexner Medical Center, Columbus, OH</i></li> <li><b>Order Set Building and Test Utilization in Monitoring Patients with Monoclonal Gammopathy</b> <i>David Grenache, PhD, DABCC, MT (ASCP), TriCore Reference Laboratories, Albuquerque, NM</i></li> </ul>				

## SCIENTIFIC SESSIONS

Afternoon | 2:30 p.m. - 4:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
33227	Infectious Disease Serology: Are You Still Ordering That Test?	208	1.5	1.5	B

*In cooperation with the Clinical & Diagnostic Immunology Division*

- **What Does this Mean? Understanding Test Results for Infectious Diseases**  
*Patricia Slev, MD, PhD, DABCC, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT*
- **Infectious Disease Labs We Order and Then Regret**  
*Elitza Theel, PhD, D(ABMM), Mayo Clinic, Rochester, MN*
- **Do You Really Need That Infectious Disease Test?**

Moderator *Sarah Wheeler, PhD, FAACC, University of Pittsburgh Medical Center, Pittsburgh, PA*

33228	Optimal Testing: Guide to Lab Test Utilization	209	1.5	1.5	I
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*In cooperation with the ADLM Academy*

Moderator *Yusheng Zhu, PhD, DABCC, Pennsylvania State University Hershey Medical Center, Hershey, PA*

- **Optimal Lab Testing for Celiac Diseases: Is Antigliadin Antibody Still Indicated?**  
*Fang Wu, PhD, DABCC, FCACB, FAACC, Saskatchewan Health Authority/University of Saskatchewan, Saskatoon, SK, Canada*
- **Laboratory Test Utilization: Utility of Ferritin Test in Pediatrics for Iron Deficiency**  
*Sridevi Devaraj, PhD, DABCC, FRSC, FAACC, Texas Children's Hospital/Baylor College of Medicine, Houston, TX*

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# SCIENTIFIC SESSIONS

Afternoon | 2:30 p.m. - 4:00 p.m.

SESSION	TITLE	ROOM	CREDITS:		LEVEL
			ACCENT	CME	
33229	Compliance vs Care: Providing the Highest Quality Medicine on Unsteady Legal Ground	210AB	1.5	0	<b>I</b>

Moderator *Dina Greene, PhD, DABCC, LetsGetChecked, Burien, WA*

- **Rapidly Changing Barriers to Abortion Care and Safe Pregnancy Termination**  
*Abbey Hardy Fairbanks, MD, University of Iowa Hospitals and Clinics, Iowa City, IA*
- **Protecting Transgender Youth from Governmental Policy**  
*Janet Black, MSN, RN, FNP-C, QMed, LLC, Decatur, GA*
- **Reproductive Rights and Gender Affirming Health Care: Juggling State and Federal Laws and Policy to Engage Providers and Deliver Optimum Patient Care**  
*Ashley Bogle, Esq, Health New England, Springfield, MA*

33230	The Clinical Laboratory's Role in Ensuring Sample Quality Prior to Testing	210CD	1.5	1.5	<b>B</b>
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Moderator *Dustin Bunch, PhD, DABCC, Nationwide Children's Hospital, Columbus, OH*

- **Hemolysis, Icterus and Lipemia: New Approaches to Dealing with Old Foes**  
*Joe El-Khoury, PhD, DABCC, FAACC, Yale University, West Haven, CT*
- **Pediatric Complexity: How to Manage HIL Instrument Errors**  
*Dustin Bunch, PhD, DABCC, Nationwide Children's Hospital, Columbus, OH*
- **Red Rule! Teaching Nurses Proper Sample Identification**  
*Eugenio Zabaleta, PhD, OhioHealth Mansfield Hospital, Mansfield, OH*

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# PLENARY+ SCIENTIFIC SESSIONS

**WEDNESDAY, JULY 26**



## PLENARY SESSION 14001

WEDNESDAY, JULY 26

8:45 a.m. - 10:15 a.m.

LOCATION: Ballroom ABC

LEVEL: Intermediate

CREDITS: ACCENT®: 1.0, CME: 1.0

### Cardiovascular Disease in Women: Epidemiology, Awareness, Access, and Delivery of Equitable Health Care



**Nanette K. Wenger, MD, MACC, MACP, FAHA**

*Professor of Medicine, Division of Cardiology,  
Emory University School of Medicine*

*Consultant, Emory Heart and Vascular Center*

*Founding Consultant, Emory Women's Heart Center,  
Atlanta, GA*

Cardiovascular disease (CVD) remains the leading cause of mortality for US women. Research has identified important biologic differences between women and men and their responses to social, environmental, and behavioral stresses. Underrepresentation of women in all aspects of biologic research has delayed translation of these discoveries to women. Pervasive gaps in knowledge and care delivery require urgent attention to reduce sex-based disparities and achieve equity. Awareness campaigns must identify CVD as the major health threat for women, emphasizing the benefits of prevention in that 80–90% of CVD is preventable. Advocacy is needed for public policy and legislative interventions that focus on the social determinants of health. A cultural shift is needed when presenting cardiovascular health data to the public and to health professionals that identify characteristics in men as the implicit “gold standard” with presentations in women termed “atypical”. These presentations are typical for women.

## ROUNDTABLE SESSIONS



7:30 a.m. - 8:30 a.m. (40000 Series) -or- 12:30 p.m. - 1:30 p.m. (50000 Series)

LOCATION: Ballroom DE • CREDITS: ACCENT®: 1.0, CME: Not eligible

Most roundtable sessions are presented twice daily. Attendance is limited to 10 participants per session. Advance registration and session fees are required. Meals are not provided for these sessions. Concession stands are available to purchase food.

AM SESSION PM SESSION	TITLE	LEVEL
44102 54202	<b>Advancing Thyroid Function Testing Through the CDC Standardization Programs: Improving Accuracy and Reliability of Measurements</b> <i>Uliana Danilenko, PhD, Centers for Disease Control and Prevention, Atlanta, GA</i>	①
44103 54203	<b>ANA Testing on Hep-2 Cells: How ICAP Can Help with Standardization</b> <i>Vincent Ricchiuti, PhD, ABB, FAACC, Labcorp, Dublin, OH</i>	①
44104 54204	<b>Blood, Tube, Match: How to Ace Collection Tube Verification</b> <i>Kyana Garza, PhD, Johns Hopkins University School of Medicine, Baltimore, MD</i>	①
44105 54205	<b>Body Fluid Testing: How to Perform and Interpret the Results</b> <i>Daisy Unsihuay, PhD, University of Pennsylvania, Philadelphia, PA</i>	Ⓑ
44106 54206	<b>Clinical Significance of Avidity in the Diagnosis of Infectious Diseases</b> <i>Yaxin Li, PhD, Weill Cornell Medicine, New York, NY</i>	Ⓑ
44107 54207	<b>Direct Oral Anticoagulants: Measurands and Interferents in the Clinical Hemostasis Laboratory</b> <i>Anna Merrill, PhD, DABCC, University of Iowa, Iowa City, IA</i>	Ⓑ
44108 54208	<b>e-Learning in Laboratory Medicine: Present Scenario and the Way Forward</b> <i>Prasenjit Mitra, MD, CBiol, CSci, ERT, MRSB, MISCt, MAMS, FACSc, FAACC, FLS, FRSPH, Post Graduate Institute of Medical Education and Research, Chandigarh, Chandigarh, India</i>	①
44109 54209	<b>Elements to Consider in the Pre-Implementation Stage of Incorporating hs-Troponin in Clinical Practice</b> <i>Pratistha Ranjitkar, PhD, DABCC, Labcorp, Seattle, WA</i>	Ⓑ
44110 54210	<b>Establishment of Pediatric Reference Intervals</b> <i>Li Zha, PhD, Beth Israel Deaconess Medical Center, Boston, MA</i>	①
44111 54211	<b>External Quality Assessment: Program Designs and Approaches for Addressing Unexpected Results with Case Stories</b> <i>Berna Aslan, MD, MSc, DABCC, FCACB, FAACC, Eastern Health, St John's, NL, Canada</i>	Ⓑ
44112 54212	<b>False Cardiac Troponin Results: Laboratory Strategies for Capturing and Resolving Outlier</b> <i>Janetta Bryksin, PhD, DABCC, FAACC, Emory University School of Medicine, Decatur, GA</i>	Ⓑ
44113 54213	<b>Fentanyl Testing in Clinical Laboratory: Past, Present, and Future</b> <i>Marlen Menlyadiev, PhD, University of California, San Diego, San Diego, CA</i>	Ⓑ
44114 54214	<b>Glomerular Filtration Rate in Living Kidney Donors: Review of Guidelines and Assessment Methods</b> <i>Sarrah Lahorewala, PhD, Houston Methodist Hospital, Houston, TX</i>	Ⓑ
44115 54215	<b>How People Try to Beat Drug Testing and Defend Positive Results</b> <i>Amitava Dasgupta, PhD, DABCC, University of Kansas Medical Center, Lenexa, KS</i>	①

# ROUNDTABLE SESSIONS



7:30 a.m. - 8:30 a.m. (40000 Series) -or- 12:30 p.m. - 1:30 p.m. (50000 Series)

LOCATION: Ballroom DE • CREDITS: ACCENT®: 1.0, CME: Not eligible

Most roundtable sessions are presented twice daily. Attendance is limited to 10 participants per session. Advance registration and session fees are required. Meals are not provided for these sessions. Concession stands are available to purchase food.

AM SESSION PM SESSION	TITLE	LEVEL
44118 54218	<b>Indirect Estimation of Reference Intervals from Clinical “Big Data”: Method Requirements for Full Automation</b> <i>Tobias Blatter, MSc, University Hospital of Bern, Bern, Switzerland</i>	1
44119 54219	<b>Interpreting Clinical Molecular Diagnostic Reports to Determine Risks of Genetic Disorders</b> <i>In cooperation with the Molecular Pathology Division Jude Abadie, PhD, DABCC, DABMGG, FAACC, FACMG, Texas Tech University Health Sciences Center, El Paso, TX</i>	1
44120 54220	<b>Interpreting Syphilis Serology Testing Results: A Case-Based Discussion</b> <i>Stacy Kenyon, PhD, DABCC, NRCC, Phoenix Children’s, Phoenix, AZ</i>	B
44121 54221	<b>Laboratory Stewardship: How to Get Started</b> <i>Andrew Fletcher, MD, MBA, CPE, CHCQM, Accumen &amp; Eutilogic Consulting, Salt Lake City, UT</i>	B
44122 54222	<b>Mass Spectrometry is a Game Changer for Clinical Diagnostics: Choose the Right One for Your Analytical and Clinical Needs</b> <i>Nazmin Bithi, PhD, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT</i>	B
44123 54223	<b>Nailed It: The Art of Excelling at Job Interviews and Chalk Talks</b> <i>Vrajesh Pandya, PhD, DABCC, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT</i>	B
44124 54224	<b>Newborn Screening and Follow-up for Metabolic Disorders</b> <i>Uttam Garg, PhD, DABFT, DABCC, NRCC, FAACC, Children’s Mercy Hospital, Kansas City, MO</i>	B
44125 54225	<b>Overview of Hemoglobin A1c Analysis and Potential Hemoglobinopathy Interferences</b> <i>Shaimaa Maher, PhD, Cleveland State University, Cleveland, OH</i>	1
44126 54226	<b>Pediatric Steroid Hormone Measurements by LC-MS/MS: A Clinical Diagnostic Lab Practice</b> <i>Run Zhang Shi, MD, PhD, DABCC, Stanford Medical Center Clinical Laboratories, Palo Alto, CA</i>	B
44127 54227	<b>Strategic Planning in Laboratory Medicine</b> <i>Mahesheema Ali, PhD, MSc, NRCC, FAACC, The MetroHealth System, Cleveland, OH</i>	1
44128 54228	<b>The Clinical Art and Science of Urine Microscopy: Urine Sediment Analysis in the Diagnosis and Management of Kidney Disease</b> <i>Jingcai Wang, MD, PhD, ASCP, NRCC, Nationwide Children’s Hospital, Columbus, OH</i>	1
44129 54229	<b>What Can Be Done About Cannabinoids? Development and Optimization of Analytical Methods in Order to Effectively Screen Patients for Cannabinoid Use</b> <i>Rebecca Wilson, PhD, Unviersity of Washington, Seattle, WA</i>	1



## SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS; ACCENT/CME		LEVEL
34101	Laboratory Medicine Career Toolkit: What We Were Never Taught	203	1.5	1.5	B
<p><i>In cooperation with the AACC Society for Young Clinical Laboratorians Core Committee</i></p> <ul style="list-style-type: none"> <li>• <b>Time Management Tools for the Laboratory Professional</b> <i>Joe El-Khoury, PhD, DABCC, FAACC, Yale University, West Haven, CT</i></li> <li>• <b>Work-Life Harmony</b> <i>Sarah Wheeler, PhD, FAACC, University of Pittsburgh Medical Center, Pittsburgh, PA</i></li> <li>• <b>Building Resiliency</b> <i>Sarah Hackenmueller, PhD, DABCC, FAACC, Providence Health &amp; Services Oregon, Portland, OR</i></li> </ul> <p>Moderator</p>					
34102	Top-Down Mass Spectrometry: A Next Era in Clinical Mass Spectrometry?	204BC	1.5	1.5	B
<ul style="list-style-type: none"> <li>• <b>Top-Down Mass Spectrometry for Clinical Testing: Sample Preparation and Separation Techniques with Application Cases of B2-Transferrin and Hemoglobin Variants</b> <i>Ruben Luo, PhD, DABCC, Stanford University, Palo Alto, CA</i></li> <li>• <b>Application of Top-Down Mass Spectrometry to M-Proteins: New Findings Based on Proteoforms</b> <i>David Murray, MD, PhD, MBA, MT (ASCP), Mayo Clinic, Rochester, MN</i></li> <li>• <b>Top-Down Proteomics for Clinical Diagnosis and Cardiac Precision Medicine</b> <i>Ying Ge, PhD, University of Wisconsin, Madison, Madison, WI</i></li> </ul> <p>Moderator</p>					
34103	Molecular Respiratory Testing Considerations in a Post-Pandemic Era	205	1.5	1.5	I
<ul style="list-style-type: none"> <li>• <b>Available Molecular Respiratory Tests and Diagnostic Stewardship Considerations</b> <i>Brian Mochon, PhD, DABMM, University of Arizona/Banner Health, Phoenix, AZ</i></li> <li>• <b>Classifying the Patient Populations That Benefit the Most from a Molecular Single Plex, 3-5 Multiplex, or a Larger Syndromic Panel for Respiratory Diseases</b> <i>Payal Patel, MD, MPH, Intermountain Healthcare, Salt Lake City, UT</i></li> <li>• <b>Data Driven Case Presentations That Support Optimal Respiratory Testing Algorithms</b> <i>Matthew Binnicker, PhD, Mayo Clinic, Washington, DC</i></li> </ul> <p>Moderator</p>					

# SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
34104	<b>2023 Data Analytics Competition: Forecasting Future Preanalytical Errors</b>	206	1.5	0	<b>B</b>
<i>In cooperation with the AACC Data Analytics Steering Committee</i>					
Moderator	<ul style="list-style-type: none"> <li>• <b>Help with Hemolysis: An AACC Data Analytics Competition</b> <i>Mark Zaydman, MD, PhD, Washington University in St. Louis, Saint Louis, MO</i></li> <li>• <b>Blood and Bytes: Reducing Sample Quality Errors in Clinical Laboratories Using Data Science</b> <i>Eric Olson, MS, Babson Diagnostics, Inc, Austin, TX</i></li> </ul>				
34105	<b>High-Sensitivity Troponin: Strategies and Future Opportunities to Improve Patient Care</b>	207AB	1.5	1.5	<b>I</b>
Moderator	<ul style="list-style-type: none"> <li>• <b>High Sensitivity Point-of-Care Troponin Assays Are Coming: Expectations and Pitfalls</b> <i>Kristin Aakre, MD, PhD, Haukeland University Hospital, Bergen, Norway</i></li> <li>• <b>Integration of Cardiac Biomarkers into Artificial Intelligence Tools</b> <i>Richard Body, MB ChB, MRCSEd, FRCM, PhD, University of Manchester, Manchester, United Kingdom</i></li> <li>• <b>Could We Improve the Diagnostic Specificity of Troponins Assays?</b> <i>Steven Meex, PhD, Maastricht University Medical Center, Maastricht, Netherlands</i></li> </ul>				
34106	<b>Speed Dating for Analytical Interferences: Is There an App for That?</b>	207CD	1.5	1.5	<b>B</b>
Moderator	<ul style="list-style-type: none"> <li>• <b>T(r)inder: Meeting and Breaking Up with Enzymatic Interferents</b> <i>Mark Marzinke, PhD, DABCC, FAACC, Johns Hopkins University, Baltimore, MD</i></li> <li>• <b>(G)Uber: What is That Messing Up My Immunoassay?</b> <i>Jane Dickerson, PhD, DABCC, Seattle Children's Hospital, Seattle, WA</i></li> <li>• <b>TikTox: Identify Drug Assay Interferents When the Clock Is Ticking</b> <i>Alec Saitman, PhD, ASCP, DABCC, Providence Regional Laboratories, Portland, OR</i></li> </ul>				

## VISIT THE POSTER HALL

Wednesday, July 26 | 1:30 p.m. - 2:30 p.m.

Posters are on display from 9:30 a.m. - 5:00 p.m. in the Poster Hall on the Expo show floor of the Anaheim Convention Center. Presenting authors will be in attendance from 1:30 p.m. - 2:30 p.m. Visit the Poster Hall to see the latest science and network with colleagues and thought-leaders from across the world. Open to all attendees. See page 78 for more details.



## SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS; ACCENT/CME		LEVEL
34107	Leveraging Blood-Based Biomarkers to Enhance the Precision of Traumatic Brain Injury Evaluation and Management	208	1.5	1.5	B
<p><i>In cooperation with the Clinical Translational Science and Personalized Medicine Divisions</i></p> <ul style="list-style-type: none"> <li>• <b>A Summary of the Evidence Supporting the Clinical Use of GFAP and UCH-L1</b> Nathan Roberts, MD, PhD, University of Michigan Medical School, Ann Arbor, MI</li> <li>• <b>A Pragmatic Validation of the Diagnostic Accuracy of GFAP and UCH-L1 at the University of Michigan</b> Nathan Roberts, MD, PhD, University of Michigan Medical School, Ann Arbor, MI</li> <li>• <b>University of Michigan's Approach to the Clinical Implementation of GFAP and UCH-L1: Lessons Learned</b></li> </ul> <p>Moderator: Frederick Korley, MD, PhD, University of Michigan, Ann Arbor, MI</p>					
34108	Direct-to-Consumer and Direct Access Testing: A Discussion from Clinical, Laboratory, and Informatics Viewpoints	209	1.5	1.5	I
<p>Moderator: Julie Shaw, PhD, FCACB, Eastern Ontario Regional Laboratory Association, University of Ottawa, Ottawa Hospital, Ottawa, ON, Canada</p> <ul style="list-style-type: none"> <li>• <b>A Clinical Perspective</b></li> <li>• <b>An Informatics Perspective</b> Michelle Stoffel, MD, PhD, University of Minnesota/M Health Fairview, W, Roseville, MN</li> <li>• <b>A Laboratory Perspective</b> Matthias Orth, MD, PhD, Vinzenz von Paul Kliniken gGmbH Marien Hospital, D-70199 Stuttgart, Germany</li> </ul>					
34109	Infectious Diseases Serology Potpourri: Diagnosis of Common Congenital and Not So Common Viral Hepatitis Infections	210AB	1.5	1.5	I
<p>Moderator: Victoria Zhang, PhD, MBA, DABCC, FAACC, University of Rochester Medical Center, Rochester, NY</p> <ul style="list-style-type: none"> <li>• <b>Is it ToRCH or SCORCH? Update on Congenital Infections and How to Diagnose Them</b> Elitza Theel, PhD, D(ABMM), Mayo Clinic, Rochester, MN</li> <li>• <b>Diagnosis and Management for the Not So Common Causes of Viral Hepatitis</b> Patricia Slev, MD, PhD, DABCC, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT</li> </ul>					

# SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
34110	<b>Continuous Glucose Monitoring Devices: A Friend or Foe to Clinical Laboratories</b>	210CD	1.5	1.5	<b>B</b>
<p><i>In cooperation with the Critical and Point-of-Care Testing Division and Endocrinology Division</i></p>					
Moderator	<p>Nam Tran, PhD, MS, HCLD (ABB), CLS, MLS (ASCP) cm, FAACC, University of California, Davis, Davis, CA</p>				
	<ul style="list-style-type: none"> <li> <b>History of Glucose Monitoring: A Review of Continuous Glucose Monitoring Devices</b>  <i>Catherine Omosule, PhD, Washington University in St. Louis, Saint Louis, MO</i> </li> <li> <b>CGM Use in Diabetes: As Part of Automated Insulin Delivery and as a Tool to Manage Anti-hyperglycemic Therapies</b>  <i>Andrew Ahmann, MD, Oregon Health and Science University, Portland, OR</i> </li> <li> <b>Updates from the AACC Taskforce for CGM Device Usage Guidance</b>  <i>Nichole Korpi-Steiner, PhD, DABCC, FAACC, University of North Carolina, Chapel Hill, NC</i> </li> </ul>				
34111	<b>Advocacy: How Lab Medicine Experts Improve and Positively Impact Public Health</b>	202	1.5	0	<b>B</b>

Moderator

- Did You Say, "VALIDation?": What VALID Was, Why It Was Harmful, and How It May Impact the Future of Lab Medicine**  
*Carmen Wiley, PhD, DABCC, FAACC, Incyte Diagnostics, Spokane Valley, WA*
- PEACC Tackles VALID: Assessing This Proposed LDT Regulation**  
*Patricia Jones, PhD, DABCC, FAACC, University of Texas Southwestern Medical Center, Dallas, TX*
- Advocacy: The Pen, the Preaching, the Process, All Promoting Best Practice**  
*Dennis Dietzen, PhD, DABCC, FAACC, Washington University School of Medicine, Saint Louis, MO*
- I Must Have Missed That Day in Training: The Impact of Policy and Advocacy in Laboratory Medicine**  
*Christina Lockwood, PhD, DABCC, DABMGG, University of Washington, Seattle, WA*



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## SCIENTIFIC SESSIONS

Afternoon | 2:30 p.m. - 5:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
34221	<b>Chemistry Confessions: Constructive Conflict Resolution with Case Studies</b>	203	2.5	2.5	<b>B</b>
	<ul style="list-style-type: none"> <li>• <b>Conflict in Organizational Behavior: Causes, Consequences, and Confessions</b> <i>Jane Dickerson, PhD, DABCC, Seattle Children's Hospital, Seattle, WA</i></li> <li>• <b>Strategies for Effective Management of Conflict and Difficult Conversations</b> <i>William Clarke, PhD, MBA, DABCC, FAACC, Johns Hopkins University School of Medicine, Baltimore, MD</i></li> <li>• <b>What Kind of Bird Are You? Navigating Communication Styles and Personality Types to Get Results</b> <i>Frederick Strathmann, PhD, MBA, DABCC (CC, TC), MOBILion Systems, Warrington, PA</i></li> </ul>				
Moderator					
34222	<b>Emerging Technologies for the Next-Generation of Point-of-Care Testing</b>	204BC	2.5	2.5	<b>I</b>
	<ul style="list-style-type: none"> <li>• <b>Point-of-Care Testing: The Disruption of Traditional Laboratory Practices to Meet Evolving Patient Needs</b> <i>James Nichols, PhD, DABCC, FAACC, Vanderbilt University Medical Center, Nashville, TN</i></li> <li>• <b>Implementation of Nucleic-acid Testing (NAT) Devices in Hospital Settings</b> <i>Peter Lupp, MD, Klinikum rechts der Isar, Technische Universität München, München, Germany</i></li> <li>• <b>Standardization Process of Continuous Glucose Monitoring: Traceability and Performance</b> <i>Guido Freckmann, MD, Institute for Diabetes Technology GmbH, Ulm, Germany, Ulm, Germany</i></li> </ul>				
Moderator					
34223	<b>Difficulties in Reporting Complex Coagulation Results in the Era of New Anticoagulants</b>	205	2.5	2.5	<b>I</b>
	<ul style="list-style-type: none"> <li>• <b>Practical Tips on Reporting of Coagulation Results: Special Emphasis on Pediatric Cases on Anticoagulants</b> <i>Catherine Hayward, MD, PhD, FRCP, McMaster University, Hamilton, ON, Canada</i></li> <li>• <b>Utility of Anticoagulant Monitoring from Old to New Anticoagulants: How and When to Monitor Using New Technology to Detect Anticoagulants</b> <i>Geoffrey Wool, MD, PhD, University of Chicago, Chicago, IL</i></li> <li>• <b>Difficulties in Reporting Lupus Anticoagulant Results: DOAC Interferences and How to Interpret Mixing Studies Specially When Patients Are on Anticoagulants</b> <i>Morayma Reyes-Gil, MD, PhD, Cleveland Clinic, Cleveland Heights, OH</i></li> </ul>				
Moderator					

# SCIENTIFIC SESSIONS

Afternoon | 2:30 p.m. - 5:00 p.m.

SESSION	TITLE	ROOM	CREDITS; ACCENT/CME		LEVEL
34224	Generalizability of Machine Learning Models in Clinical Laboratory Medicine	206	2.5	2.5	<b>I</b>
In cooperation with the ADLM Data Analytics Steering Committee					
Moderator	<ul style="list-style-type: none"> <li>• <b>PTHrP Data Challenge and Beyond: Strategies to Evaluate and Improve Machine Learning Model Generalizability</b> He Yang, PhD, DABCC, FAACC, Weill Cornell Medicine, New York, NY</li> <li>• <b>Challenges and Strategies for Engineering Machine Learning Algorithms That Generalize Across Patient Subgroups</b> Vahid Azimi, MD, Washington University School of Medicine, Saint Louis, MO</li> <li>• <b>Considerations for Building Generalizable Clinical Machine Learning Models</b> Fei Wang, PhD, Weill Cornell Medicine, New York, NY</li> </ul>				
34225	Clinical Chemistry Journal: Hot Topics in Laboratory Medicine	 207AB	2.5	0	<b>A</b>
Moderator	<p>Jason Park, MD, PhD, DABCC, University of Texas Southwestern Medical Center, Dallas, TX</p> <ul style="list-style-type: none"> <li>• <b>Role of Glycated Albumin in the Diagnosis and Management of Diabetes Mellitus</b> Elizabeth Selvin, PhD, MPH, Johns Hopkins University, Baltimore, MD</li> <li>• <b>Race and Estimated GFR: Confounding of Social and Biological Variables</b> Jeff Meeusen, PhD, DABCC, Mayo Clinic, Rochester, MN</li> <li>• <b>Using Troponins for Early Rule-Out of Non-ST Elevation Myocardial Infarction and Unstable Angina Pectoris: Is It Possible?</b> Kristin Aakre, MD, PhD, Haukeland University Hospital, Bergen, Norway</li> <li>• <b>Toward Clinical Application of Leukocyte Counts Based on Targeted DNA Methylation Analysis</b> Wolfgang Wagner, MD, PhD, RWTH Aachen University Medical School, Aachen, Germany</li> </ul>				
34226	New ADA/ACC/HFSA Recommendations to Utilize Cardiac Biomarkers to Identify Risk of Heart Failure in People with Diabetes	208	2.5	2.5	<b>I</b>
Moderator	<ul style="list-style-type: none"> <li>• <b>Optimal Approaches to Heart Failure Prevention Using Cardiac Biomarkers and Clinical Risk Scores: Clinical Scenarios</b> Ambarish Pandey, MD, University of Texas Southwestern Medical Center, Dallas, TX</li> <li>• <b>A Case-Based Approach to Understanding the Impact on the Practice of Medicine and Primary Care Providers</b> Jennifer Zrelloff, MD, Emory University School of Medicine, Atlanta, GA</li> <li>• <b>Optimal Biomarker Cutoffs and Operational Impact on Clinical Laboratories</b> Petr Jarolim, MD, PhD, Brigham and Women's Hospital, Boston, MA</li> </ul>				

## SCIENTIFIC SESSIONS

Afternoon | 2:30 p.m. - 5:00 p.m.

SESSION	TITLE	ROOM	CREDITS; ACCENT/CME		LEVEL
34227	Revisiting Serum Free Light Chain Reference Intervals by Retrospective Data Analytics and Unsupervised Machine Learning	209	2.5	0	A
	<ul style="list-style-type: none"> <li><b>The Serum Free Light Chain Diagnostic Interval in Doubt</b> <i>David Keren, MD, MS, The University of Michigan, Ann Arbor, MI</i></li> <li><b>Using Existing Health Care Data for the Characterization of Serum Free Light Chain Reference Intervals and Decision Limits</b> <i>Lee Schroeder, MD, PhD, University of Michigan/InheRET, inc., Ann Arbor, MI</i></li> <li><b>A Novel Serum Free Light Chain Metric Based on Unsupervised Machine Learning To Reduce Renal Function Interference</b> <i>Mark Zaydman, MD, PhD, Washington University in St. Louis, Saint Louis, MO</i></li> </ul>				
Moderator					
34228	Academy Clinical Laboratorian and Clinician Conversations: In Vitro Fertilization and Ectopic Pregnancy	210AB	2.5	2.5	I
	<i>In cooperation with the AACC Academy</i>				
	<ul style="list-style-type: none"> <li><b>Advances in IVF and How Clinical Laboratorians Help Us Manage IVF Patients</b> <i>Joie Guner, MD, MSc, MSCI, Keck School of Medicine of USC, Pasadena, CA</i></li> <li><b>Laboratory Tests for IVF: Current Status and Emerging Biomarkers</b> <i>Yusheng Zhu, PhD, DABCC, Pennsylvania State University Hershey Medical Center, Hershey, PA</i></li> <li><b>Integrating Essential Laboratory Testing into the Workup of an Emergent Patient with Suspected Ectopic Pregnancy</b> <i>Daniel Moore, MD, University of Kentucky, Lexington, KY</i></li> <li><b>The Role of the Clinical Laboratorian in the Diagnosis and Monitoring of Ectopic Pregnancy: Communication Is Key</b> <i>Alison Woodworth, PhD, DABCC, FAACC, University of Kentucky, Cincinnati, OH</i></li> </ul>				
Moderator					
34229	Diamonds are Forever: 75 Years of Laboratory Medicine	210CD	2.5	2.5	B
	<i>In cooperation with the History of Clinical Chemistry Division</i>				
	<ul style="list-style-type: none"> <li><b>The AACC Annual Scientific Meeting at 75: How We Got Here from There</b> <i>Robert Rej, PhD, University at Albany State University of New York, Albany, NY</i></li> <li><b>Immunoassays Past and Present: From Impossible Manual Tests to 21st Century Automation</b> <i>Richard Baltaro, MD, PhD, ASCP, FAACC, East Carolina University School of Medicine, Winterville, NC</i></li> <li><b>Innovation, Technology, and Regulation: The Advent of the Modern Medical Laboratory</b> <i>David Alter, MD, MPH, DABCC, FAACC, Emory University, Atlanta, GA</i></li> </ul>				
Moderator					

## SPECIAL SESSION

2023 LABORATORY FEUD:  
FACULTY vs FELLOWS

WEDNESDAY, JULY 26

4:00 p.m. - 5:00 p.m. | Poster Hall

Celebrate 75 Years of innovation, evolution, and progress with this year's Faculty vs. Fellows Laboratory Feud. This year, the association is once again hosting its ever-popular annual Laboratory Feud — a special gameshow style event. Two teams will be made up of ADLM members who are either faculty or fellows and will compete in a Family Feud-style game format. We'll continue the celebration of the association's 75th anniversary with coverage in various areas of laboratory medicine including history, nutrition, preanalytical errors, testing methods, immunology, point-of-care testing, TDM and toxicology, and more. To remind us of all the innovations the field has seen in the past 75 years, we will end the feud with a fast money/lightning round that focuses exclusively on history trivia. Don't miss out — join us for this special event and play along with the Faculty vs Fellows Laboratory Feud!

## MODERATOR

Joe Wiencek, PhD, DABCC, FAACC, *Vanderbilt University, Nashville, TN*

## TEAM FACULTY

## Team Captain

Raffick Bowen, PhD, MHA, CSLT, DCIChem,  
DABCC, FCACB, FAACC  
*Stanford Health Care, Stanford, CA*

## Team Members

Sridevi Devaraj, PhD, DABCC, FRC, FAACC  
*Texas Childrens Hospital, Houston, TX*

Maximo Marin, MD  
*University of Florida, Gainesville, FL*

Olajumoke Oladipo, MBBS, DABCC, FAACC  
*Penn State University Hershey Medical  
Center, Hershey, PA*

Emily Ryan, MSc, PhD, DABCC  
*The Medical Center Navicent Health,  
Macon, GA*

## TEAM FELLOWS

## Team Captain

Ria Fyffe-Freil, PhD  
*Mayo Clinic, Rochester, MN*

## Team Members

Cate Omosule, PhD, NRCC  
*Washington University School of  
Medicine, St. Louis, MO*

Rob Maynard, PhD  
*University of North Carolina,  
Chapel Hill, NC*

Daisy Unsihuay, PhD  
*University of Pennsylvania,  
Philadelphia, PA*

Kwaku Baryeh, PhD  
*University of Utah, Salt Lake City, UT*





# PLENARY+ SCIENTIFIC SESSIONS

**THURSDAY, JULY 27**



## PLENARY SESSION 15001

THURSDAY, JULY 27

8:45 a.m. - 10:15 a.m.

LOCATION: Ballroom ABC

LEVEL: Intermediate

CREDITS: ACCENT®: 1.0, CME: 1.0

### Advances in Curative Therapies for Sickle Cell Disease



#### Mark C. Walters, MD

*Jordan Family Director, Blood & Marrow Transplant Program, Benioff Children's Hospital Oakland*

*Chief, Hematology Division Professor, Pediatrics/Hematology, University of California, San Francisco San Francisco, CA*

Against the backdrop of traditional hematopoietic cell transplantation for sickle cell disease, diverse new approaches are under development that apply genomic modifications to autologous cells that will elicit a therapeutic effect predicted to expand curative outcomes. This session will review strategies of genomic modification to induce fetal hemoglobin, to add an anti-sickling globin gene and to directly repair the sickle mutation. Examples both of promising results and pitfalls will be presented. The parallel challenge of ensuring access to these new therapies in a disorder long affected by social determinants that limit lifespan and access to competent healthcare will be highlighted.

## SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS; ACCENT/CME		LEVEL
35101	<b>A Roadmap to Implementing Alzheimer's Disease Biomarkers in Your Laboratory</b>	204BC	1.5	0	<b>I</b>
	<ul style="list-style-type: none"> <li>• <b>Clinical Implementation of CSF Alzheimer's Disease Biomarkers: The United States Experience</b> <i>Alicia Algeciras-Schminich, PhD, DABCC, Mayo Clinic, Rochester, MN</i></li> <li>• <b>Clinical Implementation of CSF Alzheimer's Disease Biomarkers: The Canadian Experience</b> <i>Mari DeMarco, PhD, DABCC, FAACC, St. Paul's Hospital, Vancouver, BC, Canada</i></li> <li>• <b>Future Implementation of Blood-Based Biomarkers for Alzheimer's Disease and Related Disorders</b></li> </ul>				
Moderator	<i>Melissa Budelier, PhD, DABCC, TriCore Reference Laboratories, Albuquerque, NM</i>				
35102	<b>Choosing Targets for Laboratory Stewardship Programs: Results of a Cross-Institutional Survey and Lessons to Be Learned From Clinical Quality Measure Databases</b>	205	1.5	0	<b>I</b>
	<ul style="list-style-type: none"> <li>• <b>The Current State and Focus of Laboratory Stewardship Programs: Results of a National Survey</b> <i>Grace Kroner, PhD, DABCC, Cleveland Clinic, Cleveland, OH</i></li> <li>• <b>The Landscape of Clinical Quality Measure Databases and Implications for Laboratory Stewardship Programs: A Call to Harmonize and Benchmark Measures</b></li> </ul>				
Moderator	<i>Lee Schroeder, MD, PhD, University of Michigan/InheRET, inc., Ann Arbor, MI</i>				
35103	<b>The Clinical Laboratory as a Catalyst in Population Health: Amplifying the Transition to Risk-Based Health Care in Integrated Health Systems</b>	206	1.5	1.5	<b>I</b>
Moderator	<i>James Crawford, MD, PhD, Northwell Health, Greenvale, NY</i>				
	<ul style="list-style-type: none"> <li>• <b>Why the Clinical Laboratory is a Catalyst for Population Health</b> <i>Khosrow Shotorbani, MBA, MT (ASCP), Project Santa Fe Foundation, Salt Lake City, UT</i></li> <li>• <b>A Laboratory Initiated Care Model: Chronic Kidney Disease</b> <i>Mark Fung, MD, PhD, University of Vermont Medical Center, Burlington, VT</i></li> </ul>				

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# SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
35104	Fibrinogen: The Entangled Knot of the Clot	207AB	1.5	1.5	<b>I</b>

- **Fibrinogen and Hemostasis**

*William Winter, MD, DABCC, FAACC, University of Florida, Gainesville, FL*

- **Measurement of Fibrinogen in Plasma**

*Maximo Marin, MD, University of Florida, Gainesville, FL*

- **Acquired and Inherited Disorders of Fibrinogen**

Moderator *Neil Harris, MD, FAACC, University of Florida, Gainesville, FL*

35105	Pediatric Lipid Screening: The Heart of the Matter	209	1.5	1.5	<b>I</b>
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*In cooperation with the Pediatric and Maternal-Fetal Division*

- **Evolution of Pediatric Lipid Screening Recommendations: The Lab's Role in Promoting Universal Testing**

Moderator *Stephen Roper, PhD, DABCC, Washington University School of Medicine, Saint Louis, MO*

- **Laboratory-Driven Interventions to Improve Lipid Screening and FH Detection in Pediatric Populations**

*Zita Hubler, MD, PhD, Washington University School of Medicine, St. Louis, MO*



## SCIENTIFIC SESSIONS

Morning | 10:30 a.m. - 12:00 p.m.

SESSION	TITLE	ROOM	CREDITS: ACCENT/CME		LEVEL
35106	Testing the Population Towards Eliminating Inequities in STIs: A Case-Based Toolkit	210AB	1.5	1.5	B

- **A Pink Elephant of STIs That is Not Going Anywhere!**  
*Vera Tesic, MD, MS, DABMM, University of Chicago, Chicago, IL*
- **Point-of-Care Testing for STI Detection: The Answer to All Our Troubles?**  
*Nikolina Babic, PhD, DABCC, FAACC, Medical University of South Carolina, Charleston, SC*
- **Out in the Real World: HIV and Syphilis**  
*Vera Tesic, MD, MS, DABMM, University of Chicago, Chicago, IL*
- **Out in the Real World: Chlamydia and Gonorrhea**  
*Nikolina Babic, PhD, DABCC, FAACC, Medical University of South Carolina, Charleston, SC*

Moderator

35107	Biochemical and Molecular Insights into Newborn Screening Disorders Both Old and New	210CD	1.5	1.5	I
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*In cooperation with the Pediatric and Maternal-Fetal Division*

Moderator *Stanley Lo, PhD, DABCC, FAACC, Children's Wisconsin, Milwaukee, WI*

- **Clinical Testing Tribulations of New Disorders Added to Newborn Screening: Biochemical Genetics Evaluations of Lysosomal and Peroxisomal Disorders**  
*Anna Scott, PhD, Seattle Children's Hospital, Seattle, WA*
- **Next Generation Newborn Screening: Increasing Importance and Complexity of Molecular Testing**  
*Erika Beckman, MS, CGC, Seattle Children's Hospital, Seattle, WA*



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# POSTER ABSTRACTS TITLES

**TUESDAY, JULY 25 +  
WEDNESDAY, JULY 26**



## SCIENTIFIC POSTER SESSION SCHEDULE

Posters of accepted abstracts are on display in the Poster Hall on the Expo show floor of the Anaheim Convention Center on Tuesday, July 25, and Wednesday, July 26. All posters will be posted from 9:30 a.m. - 5:00 p.m. Presenting authors for all posters will be in attendance from 1:30 p.m. - 2:30 p.m. The presenting author is identified by the underlined name found in this guide.

**AACC** Posters that are recognized in the Poster Sessions by the Academy's  
**ACADEMY** Distinguished Abstract Ribbon are designated with the icon to the left.

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### POSTER SESSION TOPICS & SCHEDULED TIMES

#### TUESDAY, JULY 25 | 9:30 a.m. - 5:00 p.m.

Cardiac Markers	A-001 – A-023
Endocrinology and Metabolism	A-024 – A-061
General Clinical Chemistry and Laboratory Medicine	A-062 – A-130
Hematology and Coagulation	A-131 – A-162
Laboratory Management and Patient Safety	A-163 – A-196
Lipids, Lipoproteins, and Cardiovascular Risk Factors	A-198 – A-224
Microbiology and Infectious Disease	A-225 – A-309
Pediatric and Maternal Fetal Medicine	A-310 – A-346
Point-of-Care Testing	A-347 – A-390

#### WEDNESDAY, JULY 26 | 9:30 a.m. - 5:00 p.m.

Animal Clinical Chemistry	B-001 – B-007
Automation and Analytical Techniques	B-009 – B-047
Clinical and Diagnostic Immunology	B-048 – B-113
Data Analytics, Informatics, and Statistics	B-118 – B-159
Mass Spectrometry and Separation Sciences	B-160 – B-206
Molecular Diagnostics and Genetics	B-208 – B-275
Proteomics and Protein Markers	B-276 – B-294
Therapeutic Drug Monitoring and Toxicology	B-295 – B-342
Tumor Markers and Cancer Diagnostics	B-343 – B-392



# 2023 DISTINGUISHED ABSTRACTS AWARDS

The Academy for Diagnostic & Laboratory Medicine is pleased to announce the winners of the 2023 Distinguished Abstracts Awards. A group of Fellows selected these 22 abstracts for their scientific excellence from a pool of more than 780 abstracts accepted for the AACC Annual Scientific Meeting.

Winning abstracts will display the Academy blue ribbon during the 2023 AACC Annual Scientific Meeting & Clinical Lab Expo poster sessions in Anaheim, CA.

**A-031 Linmin Zhu, Tianjin, China**

Global Discovery of Serological Metabolome Uncovers Unique Molecular Signature for Early Onset of Type 2 Diabetes Mellitus: A Retrospective Study in Chinese Population

**A-203 Anna Wolska, PhD, Bethesda, MD**

An Equation Based on the Standard Lipid Panel for Calculating Low-Density Lipoproteins-Triglycerides

**A-208 Tatiana Coverdell, PhD, Bethesda, MD**

An Improved Formula for Predicting Low LDL-C Based on an Enhanced Sampson-NIH Equation

**A-242 Dongsheng Han, MD, Hangzhou, China**

Integrating Respiratory Metagenomics and Metatranscriptomics for Diagnosis of Lung Cancer and Infection in Patients With Pulmonary Diseases

**B-025 Dan Figdore, Rochester, MN**

Evaluation of Bias Between Alzheimer's Disease Blood-Based Biomarkers Assays and Their Concordance With Amyloid-PET on the Fujirebio Lumipulse and Quanterix Simoa Platforms

**B-075 Matt Sorrells, PhD, San Francisco, CA**

Biophysical Changes of Leukocyte Activation (and NETosis) in the Cellular Host Response to Sepsis

**B-123 Jian Zhong, BA/BS, Beijing, China**

Utilization of Five Data Mining Algorithms Combined With Simplified Preprocessing to Establish Reference Intervals of Thyroid Related Hormones for Nonelderly Adults

**B-134 Raj Gopalan, MD, Tarrytown, NY**

Artificial Intelligence (AI)-Driven Clinical Decision Support: Potential to Predict the Risk for Multiple Sclerosis

**B-144 Seung Yeob Lee, MD, PhD, Jeonju, Republic of Korea**

A Comparative Analysis of Unsupervised Machine Learning Algorithms for Polyploidy Analysis Using Flow Cytometry

**B-145 Steven Cotton, PhD, Chapel Hill, NC**

An R Shiny App for Automated Peak Deconvolution, Interpretation, and Quantitation of Monoclonal Proteins Using Capillary Electrophoresis Immunotyping Data

# 2023 DISTINGUISHED ABSTRACTS AWARDS

- B-169 Robin Kemperman, PhD, Philadelphia, PA**  
Beta-hydroxybutyrate/Acetoacetate Ratio as Indicator for Mitochondrial Diseases Utilizing a Novel LC-MS/MS Based Ketone Body Panel
- B-180 Gabriella Lakos, PhD, Birmingham, United Kingdom**  
The EXENT® Solution Provides Evidence for High Prevalence of Multiple M-proteins in Monoclonal Gammopathies
- B-200 Rachel DeHoog, PhD, Houston, TX**  
Preoperative Classification of Thyroid Nodules by Desorption Electrospray Ionization Mass Spectrometry Imaging of Fine Needle Aspiration Biopsies
- B-225 Jordan Stachelski, BA/BS, San Diego, CA**  
Assessment of the Genotype Frequency of Thiopurine Methyltransferase (TPMT) Deficiency in a Large Cohort of Patients With Immune Mediated Inflammatory Disease and Cancer
- B-230 Young-Jin Kim, MD, PhD, Yongin City, Gyeonggi-do, Republic of Korea**  
Monitoring SARS-CoV-2 Subvariants for Evaluation of the Diagnostic Kit's Annealing Site Using Nanopore Sequencing
- B-252 Jessica Nayara de Araujo, Natal, Brazil**  
In Vitro Expression Analysis of Variants in the Upstream Region of Genes Related to Familial Hypercholesterolemia
- B-292 Shebhdeep Kaur, BA/BS, Delhi, India**  
Drug Repurposing Via Host-pathogen Protein-protein Interaction for the Treatment of COVID-19
- B-327 Gemma Campbell, BA/BS, Nashville, TN**  
Evidence of Missed Novel Psychoactive Substances (NPS) in Unexpected Fentanyl Positives
- B-382 Chuanxin Wang, PhD, Jinan, China**  
Accurate and Early Detection of Colorectal Cancer Using a Multilocus DNA Methylation Markers-Based Testing in Peripheral Blood Mononuclear Cells
- B-383 Zhaodan Xin, Chengdu, China**  
Exosomal PRPSAP1 in Plasma Predicts Microvascular Invasion in Hepatocellular Carcinoma
- B-385 Lutao Du, Jinan, China**  
Multi-omics to Reveal the Characteristics of the Gut Microbiome and Metabolome in Patients With Colorectal Cancer Liver Metastasis
- B-391 Danielle Zauli, PhD, Vespasiano, Brazil**  
Is Comprehensive Cancer Panel By Next-generation Sequencing (NGS) More Efficient Than Cancer-Specific NGS Panel in the Management of Non-small Cell Lung Cancer Patients?

## SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

### CARDIAC MARKERS

- A-001 Secretoneurin in Patients with Acute Coronary Syndrome**  
*D. Stejskal. University hospital and Faculty of medicine Ostrava University, Ostrava, Czech Republic*
- 
- A-002 The Prevalence of the High Sensitivity Cardiac Troponin I Outlier and False Positivity Rates on Beckman Coulter Access DxI**  
*X. Li<sup>1</sup>, J. Bryksin<sup>2</sup>. <sup>1</sup>Emory University, Atlanta, GA, <sup>2</sup>Emory University, Atlanta, GA*
- 
- A-003 Point of Care BNP Values Obtained by the Abbott i-STAT Are Not Interchangeable With Laboratory Determined Values Using Beckman DXI 800 Analyzer**  
*K. Zinn, M. Boyd, A. Dasgupta. University of Kansas Health System, Kansas City, KS*
- 
- A-004 Analytical Assessment And Expanded Stability Studies Of The Abbott Alinity i STAT High Sensitivity Troponin-I Assay**  
*D. C. Kirchoff, F. K. Arowolo, G. M. Pinero, D. R. Mendu. The Mount Sinai Hospital, New York, NY*
- 
- A-006 Evaluation of the ADVIA Centaur NT-proBNP II Assay Versus Standard-of-Care Natriuretic Peptide Testing in the Emergency Department**  
*J. Snyder<sup>1</sup>, S. Bermel<sup>1</sup>, C. Brown<sup>2</sup>, C. Cooper<sup>2</sup>. <sup>1</sup>Siemens Healthineers, Newark, DE, <sup>2</sup>Siemens Healthineers, Tarrytown, NY*
- 
- A-007 Cardiomyocyte-monocyte Cross-talk Exploits Cellular Stress Pathways Leading to Myocyte Apoptosis in Dilated Cardiomyopathy of Idiopathic Origin**  
*K. Sikder<sup>1</sup>, D. Talukdar<sup>1</sup>, A. Haldar<sup>1</sup>, R. Dastidar<sup>2</sup>, S. Kumar<sup>3</sup>. <sup>1</sup>Ramakrishna Mission Vivekananda Educational and Research Institute, Kolkata, India, <sup>2</sup>Ramakrishna Mission Seva Pratishthan Hospital and Nirayan Health Care pvt. Ltd., Kolkata, India, <sup>3</sup>Vivekananda Institute of Medical Sciences, Kolkata, India*
- 
- A-008 Comparison of Roche 5<sup>th</sup> Generation Troponin T Analytical Outlier Rates Between the e411 Analyzer Using a Biotin-sensitive Reagent and the e601 Analyzer Using Reformulated (Biotin-insensitive) Reagent**  
*B. R. Kelley, A. M. Wockenfus, B. M. Katzman, G. M. Spears, B. S. Karon, A. S. Jaffe, L. J. Donato. Mayo Clinic, Rochester, MN*
- 
- A-009 Analytical Concordance of High-Sensitivity Cardiac Troponin I and T Assays in Patients From the CONTRAST Trial Presenting to an Emergency Department**  
*L. L. Gunsolus<sup>1</sup>, K. M. Schulz<sup>2</sup>, Y. Sandoval<sup>3</sup>, S. W. Smith<sup>4</sup>, F. S. Apple<sup>4</sup>. <sup>1</sup>HealthPartners, Bloomington, MN, <sup>2</sup>Hennepin Healthcare Research Institute, Minneapolis, MN, <sup>3</sup>Minneapolis Heart Institute and Abbott Northwestern Hospital, Minneapolis, MN, <sup>4</sup>Hennepin Healthcare/Hennepin County Medical Center & University of Minnesota, Minneapolis, MN*

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## CARDIAC MARKERS

**A-010 Systemwide Implementation of High Sensitivity Troponin T in a Multi-center Hospital Set Up with Instrument Variability: The Baystate Health Experience**

M. Pandiri<sup>1</sup>, D. Kotorobay<sup>2</sup>, S. Ibrahim<sup>1</sup>, J. Rogers<sup>2</sup>, A. Paz<sup>2</sup>, R. Moccio<sup>3</sup>, G. Ouimet<sup>3</sup>, D. Fleischmann<sup>4</sup>, J. Paadam<sup>5</sup>, R. Baevsky<sup>6</sup>, A. Lotfi<sup>7</sup>, R. Quarles<sup>8</sup>, S. Gemme<sup>6</sup>, V. Johari<sup>1</sup>, M. A. Barbhuiya<sup>9</sup>. <sup>1</sup>Department of Pathology, UMass Chan Medical School-Baystate, Springfield, MA, <sup>2</sup>Department of Pathology, Baystate Medical Center, Springfield, MA, <sup>3</sup>Division of Laboratory Informatics, Baystate Health, Springfield, MA, <sup>4</sup>Division of Clinical Informatics, Baystate Health, Springfield, MA, <sup>5</sup>Division of Clinical Informatics, Baystate Health; Department of Medicine, UMass Chan Medical School-Baystate, Springfield, MA, <sup>6</sup>Department of Emergency Medicine, UMass Chan Medical School-Baystate, Springfield, MA, <sup>7</sup>Division of Cardiology, Department of Medicine, UMass Chan Medical School-Baystate, Springfield, MA, <sup>8</sup>Division of Internal Medicine, Department of Medicine, UMass Chan Medical School-Baystate, Springfield, MA, <sup>9</sup>Department of Pathology; Healthcare Delivery and Population Sciences, UMass Chan Medical School-Baystate, Springfield, MA

**A-011 High Sensitive Troponin Assays for Differentiating the Patients with Unstable Angina From Stable Angina**

Y. Kim<sup>1</sup>, H. Cho<sup>2</sup>, S. Kim<sup>2</sup>, H. Lee<sup>3</sup>, H. Kwon<sup>3</sup>, J. Lee<sup>4</sup>. <sup>1</sup>The Catholic University of Korea, St. Vincent's Hospital, Suwon, Korea, Republic of, <sup>2</sup>The Catholic University of Korea, St. Vincent's Hospital, Suwon, Korea, Republic of, <sup>3</sup>The Catholic University of Korea, Seoul, Korea, Republic of, <sup>4</sup>The Catholic University of Korea, Eunpyeong St. Mary's Hospital, Seoul, Korea, Republic of

**A-012 Novel Method for Determining the Concentration of Total N-Terminal Pro-Hormone BNP (NT-proBNP) in a Sample with Mass Spectrometric Detection**

M. Jaquemar, T. Knüttel, L. Thi Tran, J. Weikum, V. Schmelck, T. Nilsen, A. David. *Gentian AS, Moss, Norway*

**A-013 Creation of a Commutable Cardiac Troponin I Reference Material Coined 8121 by the National Institute for Science and Technology and the IFCC Workgroup for Cardiac Troponin I Standardization**

R. H. Christenson<sup>1</sup>, S. Duh<sup>1</sup>, R. Payne<sup>2</sup>, S. Clapshaw<sup>3</sup>, M. S. Lowenthal<sup>4</sup>. <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD, <sup>2</sup>Siemens Healthcare, Tarrytown, NY, <sup>3</sup>Solomon Park Research Laboratories, Inc., Burien, WA, <sup>4</sup>National Institute of Standards and Technology, Gaithersburg, MD

**A-014 Analytical Outlier Occurrence and False Positivity Rate of the Beckman Coulter Access High-sensitivity Cardiac Troponin I Assay**

J. H. Noguez<sup>1</sup>, L. Delfin Mendez<sup>2</sup>, K. Kulp<sup>1</sup>, X. Zhang<sup>1</sup>, L. Stempak<sup>1</sup>. <sup>1</sup>University Hospitals of Cleveland, Cleveland, OH, <sup>2</sup>Case Western Reserve University School of Medicine, Cleveland, OH

**A-015 Hemoglobin A1c Control is an Independent Predictor of Circulating Troponin Concentrations Using Machine Learning**

H. M. Brown, N. C. Spies, M. A. Zaydman, C. W. Farnsworth. *Washington University in St. Louis School of Medicine, St. Louis, MO*

**A-016 Clinical Performance Comparison Between the Vitros Immunodiagnostic Products NT-proBNP II and Roche Elecsys proBNP II Assays to Aid in the Diagnosis of Heart Failure**

A. Ott-Vasconi<sup>1</sup>, P. Ajongwen<sup>1</sup>, S. Alvey<sup>1</sup>, J. Herman<sup>2</sup>. <sup>1</sup>QuidelOrtho, Raritan, NJ, <sup>2</sup>QuidelOrtho, Rochester, NY

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## CARDIAC MARKERS

- A-017 Analytical and Clinical Performance Evaluation of High Sensitivity Cardiac Troponin I hs-cTni Measurement Through Point of Care**  
 R. F. Paula<sup>1</sup>, C. E. Ferreira<sup>2</sup>, F. V. Paladino<sup>2</sup>, T. C. Lamounier<sup>1</sup>, H. P. Silva<sup>1</sup>, S. R. Gomes<sup>2</sup>, B. B. Caretta<sup>2</sup>, P. R. Ferreira<sup>2</sup>, T. P. Mota<sup>2</sup>, M. B. Melo<sup>2</sup>, F. G. Pitta<sup>2</sup>, A. D. Midrival<sup>1</sup>. <sup>1</sup>Siemens Healthineers, São Paulo, Brazil, <sup>2</sup>Hospital Israelita Albert Einstein, São Paulo, Brazil
- 
- A-018 Biological Variation Estimates for N-Terminal Pro-B-Type Natriuretic Peptide from Eight Healthy Turkish Women**  
 A. Coşkun<sup>1</sup>, C. Abou-Diwan<sup>2</sup>, J. Rhea-McManus<sup>2</sup>, M. Serteser<sup>1</sup>, I. Unsal<sup>1</sup>, M. Locatelli<sup>3</sup>, A. Carobene<sup>3</sup>. <sup>1</sup>Acibadem Mehmet Ali Aydınlar University, Istanbul, Turkey, <sup>2</sup>Siemens Healthineers, Tarrytown, NY, <sup>3</sup>IRCCS San Raffaele Scientific Institute, Milan, Italy
- 
- A-019 Integrative Analysis of Arrhythmogenic Right Ventricular Cardiomyopathy of Potential Biomarkers Through Bioinformatic Analysis**  
 A. P. Neta<sup>1</sup>, V. N. Silbiger<sup>1</sup>, O. C. Marques<sup>2</sup>, T. Hirata<sup>2</sup>, M. Hirata<sup>2</sup>, A. D. Luchessi<sup>1</sup>. <sup>1</sup>Federal University of Rio Grande do Norte, Natal, Brazil, <sup>2</sup>University of São Paulo, São Paulo, Brazil
- 
- A-020 Evaluation of the Analytical Performance of BNP and NT-proBNP Assays on the Atellica CI 1900 Analyzer**  
 J. Rhea-McManus, N. Ozgen, H. Leipold. Siemens Healthineers, Tarrytown, NY
- 
- A-021 Comparing the Time Between the 1<sup>st</sup> and 2<sup>nd</sup> Troponin in Male and Female Patients in Singapore and Calgary, Alberta: Evidence of Extended Pre-Preanalytical Time in Females with Low ACS Risk**  
 Y. Qiu<sup>1</sup>, T. Aw<sup>2</sup>, H. Sadrzadeh<sup>3</sup>, G. Cembrowski<sup>4</sup>. <sup>1</sup>University of Alberta, Edmonton, AB, Canada, <sup>2</sup>Changi Hospital, Singapore, Singapore, <sup>3</sup>University of Calgary, Calgary, AB, Canada, <sup>4</sup>Cembrowski & Cembrowski Quality Control Consultants, Edmonton, AB, Canada
- 
- A-022 Muscle and Cardiac Marker Levels Impact for SARS-CoV-2 Infection**  
 G. C. Carvalho, R. P. Carvalho, D. R. Ramadan, S. Tufik. Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil
- 
- A-023 Performance Evaluation of the Atellica IM High-Sensitivity Troponin I Assay on the Atellica CI 1900 Analyzer**  
 H. Zhang<sup>1</sup>, J. Rhea-McManus<sup>2</sup>, G. Caicedo\_Montoya<sup>1</sup>, L. Halik<sup>1</sup>, E. Mahmod<sup>1</sup>, S. Askegard<sup>1</sup>, H. Leipold<sup>1</sup>. <sup>1</sup>Siemens Healthineers, Tarrytown, NY, <sup>2</sup>Siemens Healthineers, Neward, DE

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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## ENDOCRINOLOGY & METABOLISM

- A-024 Evaluation of the Analytical Performance of Thyroid-stimulating Hormone, Free Triiodothyronine, and Free Thyroxine Assays on the Atellica CI 1900 Analyzer**  
H. Zhang, M. Quintanilla, M. Guo, J. Rhea-McManus, H. Leipold. *Siemens Healthineers, Tarrytown, NY*
- 
- A-025 Principal Component Analysis as a Clustering Method for the Identification of Populations with Risk of Diabetes Development**  
G. C. Carvalho, F. S. Siqueira, D. R. Ramadan, S. Tufik. *Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil*
- 
- A-026 Evaluation of Inflammation in Post Menopausal Women with Low Bone Mineral Density**  
S. Das<sup>1</sup>, S. Verma<sup>2</sup>. <sup>1</sup>RML Hospital, DELHI, India, <sup>2</sup>SMSR, Noida, India
- 
- A-027 The Clinical Indications of Low or Non-reportable HbA1c Results**  
S. Lu, T. Neibauer, E. Saylor, B. Dewasse, M. Straub, Y. Zhu. *The Pennsylvania State University, Hershey, PA*
- 
- A-028 Procalcitonin and Total White Blood Cell Count as Prognostic Markers of Hospital Outcomes in Hyperglycemic Emergencies**  
A. A. Azeez. *University College Hospital, Ibadan, Nigeri*
- 
- A-029 Modeling the Effect of Step Changes in Glucose on %Glycated Albumin vs. Time**  
D. F. Stickle<sup>1</sup>, G. J. DiNatale<sup>1</sup>, R. Molinaro<sup>2</sup>. <sup>1</sup>Jefferson University Hospital, Philadelphia, PA, <sup>2</sup>Siemens Healthcare Diagnostics, Inc., Tarrytown, NY
- 
- A-030 Indicators Generated from Salivary Cortisol Measurement to Assess Circadian Rhythm: Comparison of Immunoassay and Liquid Chromatography-Tandem Mass Spectrometry**  
A. Lee<sup>1</sup>, S. Jang<sup>2</sup>, J. Kim<sup>3</sup>, J. Jang<sup>1</sup>, I. Kim<sup>2</sup>, S. Lee<sup>3</sup>, J. Seok<sup>2</sup>. <sup>1</sup>Seoul Clinical Laboratories, Yong-In, Korea, Republic of, <sup>2</sup>Research Institute of Minds AI, Co. Ltd., Seoul, Korea, Republic of, <sup>3</sup>Center for Companion Biomarker, Seoul Clinical Laboratories Healthcare Inc., Yong-In, Korea, Republic of
- 
- A-031 Global Discovery of Serological Metabolome Uncovers Unique Molecular Signature for Early Onset of Type 2 Diabetes Mellitus: A Retrospective Study in Chinese Population**  
AACC  
ACADEMY  
L. Zhu, Y. Wu. *Tianjin TEDA Hospital, Tianjin, China*
- 
- A-032 Comparative Serum Free Thyroxine Measurements Between Immunoassays and ID-LC/MS/MS Procedure Based on Equilibrium Dialysis**  
L. Zhang, A. Ribera, Z. D'Zio, A. Doty, C. Tse, O. Sugahara, D. Spector, N. Vazquez, U. Danilenko, H. Vesper. *CDC, Atlanta, GA*
- 
- A-033 Development and Validation of a Liquid Chromatography Tandem Mass Spectrometry Bioanalytical Method for Prostaglandin D2 in Serum or Urine**  
M. Morr, B. Holmquist. *Labcorp, Calabasas, CA*
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## ENDOCRINOLOGY & METABOLISM

**A-034 Multicenter Comparison of Analytical Interference of Vitamin D Immunoassay and Mass Spectrometry Methods by Endogenous Interferents and Cross-reactivity with 3-epi-25-OH-Vitamin D3**

J. Lee<sup>1</sup>, J. Seo<sup>2</sup>, K. Lee<sup>1</sup>, E. Roh<sup>3</sup>, Y. Yun<sup>2</sup>, Y. Lee<sup>4</sup>, S. Cho<sup>5</sup>, J. Song<sup>1</sup>. <sup>1</sup>Seoul National University Bundang Hospital, Seongnam, Korea, Republic of, <sup>2</sup>Konkuk University School of Medicine, Seoul, Korea, Republic of, <sup>3</sup>Seoul Metropolitan Government-Seoul National University Boramae Medical Center, Seoul, Korea, Republic of, <sup>4</sup>Soonchunhyang University Bucheon Hospital, Bucheon, Korea, Republic of, <sup>5</sup>Green Cross Laboratories (GC Labs), Yongin, Korea, Republic of

**A-035 Association between Obesity and Prostate Specific Antigen Level in Diabetes Mellitus Type2**

O. C. Ugwunna<sup>1</sup>, E. N. Okafor<sup>2</sup>, N. C. Ugwunna<sup>3</sup>, E. E. Chukwukelu<sup>3</sup>, U. A. Eze<sup>4</sup>, S. O. Uzoigwe<sup>5</sup>, E. C. Aniogo<sup>6</sup>. <sup>1</sup>College of Medicine, University of Nigeria, Nsukka, Enugu, Nigeria, <sup>2</sup>University of Nigeria Enugu Campus, Enugu, Nigeria, <sup>3</sup>College of Medicine, University of Nigeria Nsukka, Enugu, Nigeria, <sup>4</sup>De Montfort University, Leicester, Leicester, United Kingdom, <sup>5</sup>University of Nigeria Teaching Hospital, Ituku-Ozalla, Nigeria, <sup>6</sup>City of Hope Beckman Research Center, Duarte, CA

**A-036 Hypogonadism in Diabetes**

D. S. Sheriff. Reprrolabs, Chennai, India

**A-037 Diagnostic Accuracy of Copeptin in the Differential Diagnosis of Patients with Diabetes Insipidus: A Systematic Review and Meta-analysis**

D. Mu. Peking Union Medical Hospital College, Beijing, China

**A-038 An Improved Multiplexed HTLC-HESI-MSMS Method for the Measurement of Total Testosterone in Serum**

S. L. Daly, J. Kochuparambi, Z. Wu, R. Abdula, C. Yuan, B. Wei, Z. Wu, M. J. McPhaul, A. K. Ghoshal. Quest Diagnostics, Secaucus, NJ

**A-040 Night Shift Work Could Induce Oxidatively Generated Damage to DNA: A Pilot Study**

Y. Zou, X. Ma, S. Yu, L. Qiu. Peking Union Medical College Hospital, Beijing, China

**A-041 Measurement of Plasma 3-Hydroxyisovalerylcarnitine by LC-MS/MS to Predict Marginal Biotin Deficiency in Inflammatory Bowel Disease**

B. Patil<sup>1</sup>, A. Bock<sup>1</sup>, F. Armbruster<sup>1</sup>, J. Stein<sup>2</sup>, M. R. Diesner<sup>1</sup>, A. Askan<sup>3</sup>. <sup>1</sup>Immundiagnostik AG, Bensheim, Germany, <sup>2</sup>Institute of Pharmaceutical Chemistry Goethe University, Frankfurt, Germany, <sup>3</sup>Institute of Nutritional Science, Justus-Liebig-Universität, Giessen, Germany

**A-042 Comparison of the Second-Generation Parathyroid Hormone Assays: ELSA-PTH and Alinity i Intact PTH**

J. Kang<sup>1</sup>, J. Park<sup>2</sup>, H. Choi<sup>1</sup>, S. Kee<sup>1</sup>. <sup>1</sup>Chonnam National University Hospital, Gwangju, Korea, Republic of, <sup>2</sup>Chonnam National University Hwasun Hospital, Hwasun, Korea, Republic of

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## ENDOCRINOLOGY & METABOLISM

**A-043 Vitamin D Receptor (VDR) Polymorphism & Endoplasmic Reticulum Stress (ER stress): Is There Any Association Between Them Towards Disease Susceptibility in Patients with Grave's Disease?**

R. Dastidar<sup>1</sup>, A. K. Haldar<sup>2</sup>, D. Talukdar<sup>3</sup>, A. Roy<sup>4</sup>, K. Sikder<sup>2</sup>. <sup>1</sup>Department of Biochemistry, Ramakrishna Mission Seva Pratishthan. Vivekananda Institute of Medical Sciences, Kolkata, West Bengal, India, <sup>2</sup>JIVAN research unit, Department of Biomedical Science and Technology, School of Biological Sciences, Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), Kolkata, West Bengal, India, <sup>3</sup>JIVAN research unit, Department of Biomedical Science and Technology, School of Biological Sciences, Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), Kolkata, West Bengal, India, <sup>4</sup>Department of Endocrinology, Ramakrishna Mission Seva Pratishthan, Vivekananda Institute of Medical Sciences (VIMS, Kolkata, West Bengal, India

**A-044 Using ID-Vit Test Systems to Assess the Effect of Vitamin B Supplementation on Fatigue Symptoms in Professional Athletes**

K. Erpenbach<sup>1</sup>, M. C. Erpenbach<sup>1</sup>, D. Maier<sup>2</sup>, H. Seidl<sup>2</sup>, A. Aksan<sup>3</sup>, W. Mayer<sup>4</sup>, S. Mücke<sup>1</sup>. <sup>1</sup>Institut für medizinische Leistungsoptimierung und Trainingssteuerung, Erfstadt, Germany, <sup>2</sup>Immundiagnostik AG, Bensheim, Germany, <sup>3</sup>Institute of Nutritional Science, Justus Liebig University of Giessen, Giessen, Germany, <sup>4</sup>Lab4more GmbH Bavariahaus, München, Germany

**A-045 Role of the Laboratory in the Screening of Fatty Liver Disease Associated with Metabolic Dysfunction (MAFLD)**

P. Lesmes - García Corrales<sup>1</sup>, I. Domínguez Pascual<sup>2</sup>, J. Guerrero Montávez<sup>2</sup>. <sup>1</sup>University Hospital Virgen del Rocío, Seville, Spain, <sup>2</sup>University Hospital Virgen del Rocío, Seville, Spain

**A-046 Investigating the Role of RNase L in Metabolic Syndrome**

A. A. Zame, D. Liu, A. Zhou. Cleveland State University, Cleveland, OH

**A-047 Role of the Gut Microbiota in the Efficacy of Dietary Intervention With Flavonoid-Containing Foods in Obesity**

S. Alqudah<sup>1</sup>, B. DeLucia<sup>2</sup>, L. Osborn<sup>2</sup>, R. Markley<sup>2</sup>, V. Bobba<sup>2</sup>, L. Hamidi Nia<sup>2</sup>, J. Claesen<sup>2</sup>. <sup>1</sup>Cleveland State University/Cleveland Clinic, Cleveland, OH, <sup>2</sup>Cleveland Clinic, Cleveland, OH

**A-048 Accurate Measurement of Free Testosterone in Serum Using Equilibrium Dialysis Coupled with ID-UHPLC-MS/MS**

H. Zhou<sup>1</sup>, A. Ribera<sup>2</sup>, U. Danilenko<sup>1</sup>, H. Vesper<sup>1</sup>. <sup>1</sup>Centers for Disease Control and Prevention, Atlanta, GA, <sup>2</sup>Battelle, Atlanta, GA

**A-049 Inter-assay Variation of Insulin-like Growth Factor-1 Remains an Issue**

A. S. Ptolemy, C. MacDonald, V. Browne, R. W. Peake, M. D. Kellogg. Boston Children's Hospital, Boston, MA

**A-050 Understanding the Complex Relationship Between TSH and Free Thyroxine**

D. J. Lee<sup>1</sup>, N. S. Che Rahim<sup>2</sup>, T. C. Aw<sup>1</sup>. <sup>1</sup>Changi General Hospital, Singapore, Singapore, <sup>2</sup>Kuala Lumpur Hospital, Kuala Lumpur, Malaysia

**A-051 Reference Intervals for Serum T4 and FT4 Among Pregnant Women Linked to the Mãe Curitibana Program**

R. F. Paula<sup>1</sup>, T. M. Telles<sup>2</sup>, P. C. Felchner<sup>3</sup>, K. D. Valdati<sup>4</sup>, C. R. Zuanazzi<sup>5</sup>, T. M. Panizza<sup>4</sup>, T. P. Moraes<sup>3</sup>, C. O. Junio<sup>6</sup>, G. A. Carvalho<sup>6</sup>, G. B. Carlos<sup>1</sup>. <sup>1</sup>Siemens Healthineers, São Paulo, Brazil, <sup>2</sup>University Federal from Parana, Curitiba, Brazil, <sup>3</sup>Pontifical Catholic University, Curitiba, Brazil, <sup>4</sup>Municipal Laboratory-SMS, Curitiba, Brazil, <sup>5</sup>Municipal Laboratory - SMS, Curitiba, Brazil, <sup>6</sup>Hospital das Clinicas Complex/Federal University of Paraná, Curitiba, Brazil



## SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## ENDOCRINOLOGY &amp; METABOLISM

**A-052 The Importance of Thyroid-Stimulating Immunoglobulin (TSI) in the Diagnosis and Follow-up of Marine-Lenhart Syndrome**

R. Fontes<sup>1</sup>, M. M. Negri<sup>2</sup>, P. Araujo<sup>1</sup>, S. Marui<sup>3</sup>, A. Gomes<sup>3</sup>, Y. Schrank<sup>1</sup>, A. Perozo<sup>1</sup>, M. F. Pinheiro<sup>1</sup>, D. M. Gomes<sup>1</sup>, G. Campana<sup>4</sup>, E. K. Tourinho<sup>5</sup>, A. Vangelotti<sup>6</sup>, J. T. Pena<sup>6</sup>. <sup>1</sup>Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, Rio de Janeiro, RJ, Brazil, <sup>2</sup>Instituto Estadual de Diabetes e Endocrinologia Luiz Capriglione (IEDE), Rio de Janeiro, RJ, Brazil, <sup>3</sup>Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, São Paulo, SP, Brazil, <sup>4</sup>Instituto Estadual de Diabetes e Endocrinologia Luiz Capriglione (IEDE), São Paulo, SP, Brazil, <sup>5</sup>Universidade Federal do Rio de Janeiro (UFRJ), Rio de Janeiro, RJ, Brazil, <sup>6</sup>Private Clinic, Rio de Janeiro, RJ, Brazil

**A-053 Poor Clinical Utility of Free and Bioavailable Testosterone is Underscored by Overutilization**

C. D. Koch. Sanford Health, Sioux Falls, SD

**A-054 Comparison of a Reformulated Vitamin D Immunoassay, Its Predecessor, and Two Contemporary Formulations**

K. A. Geno<sup>1</sup>, Y. F. Alvarez<sup>1</sup>, M. A. Cervinski<sup>1</sup>, J. A. Hubbard<sup>2</sup>, R. D. Nerenz<sup>3</sup>, R. J. Singh<sup>4</sup>. <sup>1</sup>Dartmouth-Hitchcock Medical Center, Lebanon, NH, <sup>2</sup>Three Rivers Diagnostics, Pittsburgh, PA, <sup>3</sup>Medical College of Wisconsin, Milwaukee, WI, <sup>4</sup>Mayo Clinic, Rochester, MN

**A-055 Clinical Performance Evaluation of the ADVIA Centaur AMH Assay**

K. Freeman<sup>1</sup>, J. Snyder<sup>1</sup>, C. Brown<sup>1</sup>, R. Singleton<sup>1</sup>, R. Christenson<sup>2</sup>, S. Donald<sup>2</sup>. <sup>1</sup>Siemens Healthineers, Tarrytown, NY, <sup>2</sup>University of Maryland, Baltimore, MD

**A-056 Data Driven Approach to Ensure Accurate Total Testosterone Results in Consumer Initiated, Home-Collected Capillary Samples**

A. R. Naranjo<sup>1</sup>, C. Carter<sup>1</sup>, J. Chen<sup>1</sup>, A. Hamdan<sup>1</sup>, M. D. Krasowski<sup>2</sup>, K. O'Connor<sup>1</sup>, D. N. Greene<sup>1</sup>. <sup>1</sup>LetsGetChecked Laboratories, Monrovia, CA, <sup>2</sup>University of Iowa, Iowa City, IA

**A-057 Cerebrospinal Fluid Prolactin in Patients with Neurological Disorders**

L. A. Hashim, E. Abraham. UT Southwestern Medical Center, Dallas, TX,

**A-058 Frequency of Biochemical Assessment of Risk for Heart Failure Among Diabetic Population**

J. Joseph<sup>1</sup>, J. Neeley<sup>2</sup>, L. A. Hashim<sup>2</sup>. <sup>1</sup>University of Texas at Dallas, Dallas, TX, <sup>2</sup>UT Southwestern Medical Center, Dallas, TX

**A-059 Evaluation of Free Thyroxin Levels in Patients with Low Thyroxin Binding Globulin Concentrations: Is There Interference in the FT4 Indirect Method?**

M. F. Pinheiro, A. C. Lopes, T. S. Souza, R. Fontes, Y. Schrank, A. F. Perozo, D. M. Gomes, P. B. Araujo. DASA, Rio de Janeiro, Brazil

**A-060 Thyroid Laboratory Database Assessment Shows That Total Triiodothyronine Significantly Decreases with Age**

R. Fontes<sup>1</sup>, P. Telles-Dias<sup>1</sup>, T. C. Sousa<sup>2</sup>, P. Araujo<sup>1</sup>, B. S. Santos<sup>3</sup>, A. C. Lopes<sup>3</sup>, F. S. Lopes<sup>4</sup>, M. F. Pinheiro<sup>1</sup>, D. M. Gomes<sup>1</sup>, C. O. Sabino<sup>3</sup>, A. N. Cury<sup>3</sup>, M. C. Castelo<sup>5</sup>, L. L. Cavalcante<sup>5</sup>, Y. Schrank<sup>1</sup>, T. C. Veloso<sup>4</sup>, A. F. Perozo<sup>1</sup>. <sup>1</sup>Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, Rio de Janeiro, RJ, Brazil, <sup>2</sup>Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, Recife, PE, Brazil, <sup>3</sup>Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, São Paulo, SP, Brazil, <sup>4</sup>Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, Brasília, DF, Brazil, <sup>5</sup>Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, Fortaleza, CE, Brazil

**A-061 Performance Evaluation of Improved Versions of Norudia GA Reagents that Reduce Negative Interference During Glycated Albumin Measurements**

H. Park, B. Lee, S. Kim. Samsung Medical Center, Seoul, Korea, Republic of

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## GENERAL CLINICAL CHEMISTRY & LABORATORY MEDICINE

- A-062 Development of Quality Control Indicators in the Pre-Analytical Phase and a Survey on the Current Status of Clinical Laboratories in Korea**  
*H. Park<sup>1</sup>, S. Kim<sup>1</sup>, S. Kim<sup>2</sup>, K. Lee<sup>3</sup>, Y. Lee<sup>4</sup>, S. Chun<sup>2</sup>. <sup>1</sup>Samsung Medical Center, Seoul, Korea, Republic of, <sup>2</sup>Asan Medical Center, Seoul, Korea, Republic of, <sup>3</sup>Seoul National University Bundang Hospital, Seongnam, Korea, Republic of, <sup>4</sup>Soonchunhyang University Bucheon Hospital, Bucheon, Korea, Republic of*
- 
- A-063 Use of the Icteric Index to Identify Patients with Hyperbilirubinemia**  
*D. Núñez Jurado, I. Rodríguez Martín, J. Montenegro Martínez, J. Guerrero Montávez. Virgen del Rocío University Hospital, Seville, Spain*
- 
- A-064 Sensitive Urine Immunoassay for Lipoarabinomannan for Non-Invasive Tuberculosis Diagnosis**  
*Y. Meng, T. Shi, P. Chen, B. Ying. West China Hospital of Sichuan University, Chengdu, China*
- 
- A-065 Can Medical Education Help Bring Artificial Intelligence Into the Clinical Chemistry Laboratory?**  
*L. Jafri<sup>1</sup>, A. Jameel Farooqui<sup>1</sup>, J. Grant<sup>2</sup>, R. Gale<sup>3</sup>, S. Ahmed<sup>1</sup>, H. Majid<sup>1</sup>, A. Habib<sup>1</sup>, U. Omer<sup>4</sup>. <sup>1</sup>Aga Khan University Hospital, Karachi, Pakistan, <sup>2</sup>Centre for Medical Education in Context [GenMEDIC], Middlesex, United Kingdom, <sup>3</sup>American Open University, Alexandria, VA, <sup>4</sup>Putnam PHMR, Newcastle, United Kingdom*
- 
- A-067 Exploring the Potential of Serum Periostin as a Predictive Biomarker for Early-onset Idiopathic Pulmonary Fibrosis: A Follow-up Study**  
*M. Liu, Z. Cheng, H. Li, H. Huang, B. Sun. Department of Allergy and Clinical Immunology, Department of Laboratory, National Center for Respiratory Medicine, National Clinical Research Center for Respiratory Disease, The First Affiliated Hospital of Guangzhou Medical University, Guangzhou, China, Guangzhou, China*
- 
- A-068 To Reduce Sweat Rejection Rate, Using Six Sigma Methodology**  
*S. Azeem. The Aga Khan University hospital, Karachi, Pakistan*
- 
- A-069 Atellica® Ci 1900 Sample Carryover Performance Evaluation**  
*T. Pham, K. Kolewe, M. Ho, S. Lewis, J. Snyder. Siemens Healthcare Diagnostics Inc., Newark, DE*
- 
- A-070 A Fully Automated HbA1c Assay on the DxC 500 AU Clinical Chemistry Analyser**  
*C. Stokes<sup>1</sup>, S. Frost<sup>2</sup>, L. Frost<sup>1</sup>, N. Mcinerney<sup>1</sup>, S. O'Dwyer<sup>1</sup>. <sup>1</sup>Beckman Coulter Ireland, Clare, Ireland, <sup>2</sup>Beckman Coulter, Clare, Ireland*
- 
- A-071 Comparison of eGFR Calculated by the MDRD, the 2021 CKD-EPI Creatinine and the 2021 CKD-EPI Creatinine-cystatin C Equations in Taiwanese**  
*C. Lai, H. Lee, H. Ho. Taipei Veterans General Hospital, Taipei, Taiwan*
- 
- A-072 An All-Purpose Particle Enhanced Immunoturbidimetric Assay for the Comparable, Instrument-Independent Monitoring of Procalcitonin in the Management of Sepsis**  
*M. Grimmeler. DiaSys Diagnostic Systems GmbH, Holzheim, Germany*
- 
- A-073 Specimen Storage and Onboard Stability of Serum Ionized Calcium Using the Nova Prime ES Comp Plus Analyzer**  
*J. J. Hunsaker<sup>1</sup>, S. L. La'ulu<sup>1</sup>, K. Doyle<sup>2</sup>. <sup>1</sup>ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, <sup>2</sup>University of Utah Health, Department of Pathology, Salt Lake City, UT*
-

## SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## GENERAL CLINICAL CHEMISTRY &amp; LABORATORY MEDICINE

- A-075 Development and Validation of Image-based Cell Counter Microscanner 3 for CD34-positive Hematopoietic Stem Cell Enumeration**  
 C. Lee<sup>1</sup>, I. Park<sup>2</sup>, S. Yoon<sup>1</sup>, C. Lim<sup>1</sup>, J. Kwon<sup>1</sup>. <sup>1</sup>Department of Laboratory Medicine, Korea University Guro Hospital, Seoul, Korea, Republic of, <sup>2</sup>College of Medicine, Korea University, Seoul, Korea, Republic of
- 
- A-076 Abbott Alinity ci System Automated Sample Interference Indices for Immunoassays**  
 M. Berman<sup>1</sup>, M. Anderson<sup>2</sup>. <sup>1</sup>Abbott Labs, North Chicago, IL, <sup>2</sup>Abbott Labs, North Chicago, IL
- 
- A-078 Accuracy Based Sigma Metrics of Alinity c System as Benchmarked Against Roche c701**  
 L. Cheng<sup>1</sup>, Q. Guan<sup>1</sup>, H. Li<sup>1</sup>, J. Miao<sup>2</sup>, P. Sun<sup>2</sup>, C. Chen<sup>3</sup>. <sup>1</sup>Department of Clinical Laboratory, Tongji Hospital, Tongji Medical College of HUST, Wuhan, China, <sup>2</sup>China R&D Center, Core Diagnostics, Abbott Laboratories, Shanghai, China, <sup>3</sup>Medical & Scientific Research, Core Diagnostics, Abbott Laboratories, Singapore, Singapore
- 
- A-079 Analytical Assessment of Abbott's SigmaSTRONG Assays on the Alinity c and ARCHITECT c Systems**  
 S. Cox<sup>1</sup>, T. James<sup>1</sup>, K. Allott<sup>1</sup>, R. Ervankai<sup>1</sup>, G. H. Potter<sup>1</sup>, G. Allen<sup>1</sup>, I. Lapić<sup>2</sup>, S. Komljenović<sup>2</sup>, A. Bogić<sup>2</sup>, D. Rogić<sup>2</sup>. <sup>1</sup>Oxford University Hospitals, Oxford, United Kingdom, <sup>2</sup>KBC Zagreb, Zagreb, Croatia
- 
- A-080 Overcoming Challenges of Equilibrium Dialysis-Based Free Thyroxine Measurements**  
 N. Vazquez, S. Knoblock, J. Thonkulpitak, A. Ribera, L. Zhang, U. Danilenko, H. W. Vesper. CDC, Atlanta, GA
- 
- A-081 Usefulness of the Ischemia or Exercise Intolerance Test in the Clinical Laboratory as a Screening for the Diagnosis of Myopathies**  
 C. Macias-Blanco, L. Valentín-Aragón, S. Castañeda-Nieto, I. Espejo-Portero, M. Barcos-Martinez, F. Rodriguez-Cantalejo. Hospital Reina Sofía, Córdoba, Spain
- 
- A-082 Measuring Peroxynitrite as an Early Biomarker for Cystic Fibrosis Using Organoselenide-Modified Glassy Carbon Electrode**  
 M. Ibrahim<sup>1</sup>, H. Kalil<sup>2</sup>, M. Bayachou<sup>1</sup>. <sup>1</sup>Cleveland state university, Cleveland, OH, <sup>2</sup>Cleveland State University, Cleveland, OH
- 
- A-085 Analytical Performance of BÜHLMANN sCAL® turbo, a New, Reliable and Precise High-Throughput Assay to Assess the Inflammatory Status of Patients**  
 A. Melone, D. Vogt, A. Ohmann, C. Moniz, M. Eichmann, D. Guschin, C. Gerhold, T. Schuster. BÜHLMANN Laboratories AG, Schönenbuch, Switzerland
- 
- A-086 Vitamin D and its Variation in a Pandemic Context: Pre-pandemic - Intra-pandemic - Post-pandemic Analysis in the Province of Buenos Aires - Argentina**  
 P. N. Canala, M. D. Canala, M. Spiccia, G. Ghioni. Labint, Moron, Argentina
- 
- A-087 Relationship Among Different Inflammatory Markers in Patients with COVID-19 Infections**  
 R. Yadav, P. Chopra, T. Sehgal, S. K. Datta, A. Ningombam, A. Ahirwar. AIIMS New Delhi, New Delhi, India
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## GENERAL CLINICAL CHEMISTRY & LABORATORY MEDICINE

- A-088 Establish Laboratory Limit of Blank and Limit of Detection for LH Assay on the Ortho VITROS 3600 System**  
*D. Su, H. Wu, Q. Zhao. Maternity & Child Center of Qinhuangdao, 秦皇岛市, China*
- 
- A-089 Incorporation of CKD-EPI (2021) Creatinine-cystatin C Combined e-GFR Equation in Clinical Practice is the Need of the Hour for Early Detection of Renal Damage in CKD Patients: A Cross Sectional Study in Eastern India**  
*R. Dastidar<sup>1</sup>, K. Sikder<sup>2</sup>, B. Das<sup>3</sup>. <sup>1</sup>Department of Biochemistry, Ramakrishna Mission Seva Pratishthan, Vivekananda institute of Medical Sciences, Kolkata, India, <sup>2</sup>JIVAN research unit, Department of Biomedical Science and Technology, School of Biological Sciences, Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), Kolkata, West Bengal, India, <sup>3</sup>Department of Biochemistry, Immunology & Toxicology, Kokilaben Dhirubhai Ambani Hospital & Medical Research Institute, Mumbai, India*
- 
- A-090 Impact of Changing Total Calcium Methodology on Observed Hypercalcemia Prevalence at an Academic Health System**  
*C. K. LaValley, K. Dagang, J. J. Lado Abeal, P. Fu Teng, N. Tran. UC Davis Health, Sacramento, CA*
- 
- A-091 Assessing the Reliability of Creatinine-Estimated Glomerular Filtration Rate in Living Kidney Donor Candidates: Does it Measure up to the Measured Rate?**  
*S. Lahorewala, X. Yi, R. Bertholf. Houston Methodist Hospital, Houston, TX*
- 
- A-092 Trends in Laboratory Communications Utilized in the Implementation of the Race-Free CKD-EPI 2021 Estimated Glomerular Filtration Rate (eGFR) Equation**  
*S. Luby. University of North Carolina-School of Medicine, Chapel Hill, NC*
- 
- A-093 Clinical Performance of Biomarkers for Traumatic Brain Injury**  
*K. B. Grasso<sup>1</sup>, J. L. Yen<sup>1</sup>, A. Rutkowski<sup>1</sup>, R. S. Ostro<sup>1</sup>, D. R. Johnston<sup>1</sup>, A. C. Buss<sup>2</sup>, S. A. Datwyler<sup>1</sup>, J. Marino<sup>1</sup>, R. H. Christenson<sup>3</sup>, Y. Zhu<sup>4</sup>, C. deFilippi<sup>5</sup>, K. L. Caudle<sup>6</sup>. <sup>1</sup>Abbott Laboratories, Lake Forest, IL, <sup>2</sup>Abbott Laboratories, Abbott Park, IL, <sup>3</sup>University of Maryland-Baltimore, Baltimore, MD, <sup>4</sup>Penn State Milton S Hershey Medical Center, Hershey, PA, <sup>5</sup>Inova Health System, Falls Church, VA, <sup>6</sup>US Army Medical Materiel Development Activity, Fort Detrick, MD*
- 
- A-094 Performance Evaluation of GFAP and UCH-L1 Biomarkers for Traumatic Brain Injury in the Alinity i TBI Test (in development)**  
*S. A. Datwyler<sup>1</sup>, R. Chandran<sup>1</sup>, J. A. Marino<sup>1</sup>, D. R. West<sup>1</sup>, H. N. Syed<sup>1</sup>, Z. Al Sahouri<sup>1</sup>, J. C. Badciong<sup>1</sup>, K. L. Caudle<sup>2</sup>, B. McQuiston<sup>1</sup>. <sup>1</sup>Abbott Laboratories, Abbott Park, IL, <sup>2</sup>US Army Medical Materiel Development Activity, Fort Detrick, MD*
- 
- A-096 Novel Gastrointestinal Testing: Comparative Performance of the ALPCO Five-Plex Gastrointestinal Marker Assay Compared to Conventional ELISA/CLIA Testing for Human Stool Samples**  
*J. M. Cacicedo, S. Papkov, J. Petzke, W. Schmidt, H. Vedrani, K. Veenstra, C. Wisherd. ALPCO, Salem, NH*
- 
- A-097 Stability Study of 21 Common Plasma Biochemistries in Unspun Whole Blood**  
*M. Ospina Romero<sup>1</sup>, T. Robakowski<sup>2</sup>, A. Nelson<sup>2</sup>, K. Grant<sup>2</sup>, Z. Jin<sup>1</sup>, K. Galior<sup>1</sup>. <sup>1</sup>UW Madison, Madison, WI, <sup>2</sup>UWHealth, Madison, WI*
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## GENERAL CLINICAL CHEMISTRY & LABORATORY MEDICINE

- A-098 Preliminary Tests of Cell Viability, Proteins and mRNA After Freezing PBMC for the Study of Chronic and Acute Lymphoproliferative Leukemias**  
M. C. Feres<sup>1</sup>, L. V. Soares<sup>2</sup>, S. d. Roz<sup>3</sup>, O. F. Souza<sup>4</sup>, P. Vicari<sup>3</sup>, C. C. Cabral<sup>3</sup>, D. R. Ramadan<sup>3</sup>, S. Tufik<sup>3</sup>, A. F. Popi<sup>2</sup>. <sup>1</sup>Associação Fundo de Incentivo - Afip, Sao Paluo, Brazil, <sup>2</sup>Universidade Federal de Sao Paulo - Unifesp, Sao Paulo, Brazil, <sup>3</sup>Associação Fundo de Incentivo - Afip, Sao Paulo, Brazil, <sup>4</sup>Universidade Federal de Sao Paulo - Unifesp, Sao Paulo, British Indian Ocean Territory
- 
- A-099 Assessment of Stability of Routine Clinical Biochemical Results in 24-hour Urine Specimen Under Conditions Simulating Various Preanalytical Variables**  
H. Chae, H. Jang, K. Cha, E. Oh. Seoul St. Mary's Hospital, Seoul, Korea, Republic of
- 
- A-101 Assessing Glycemic Control in Potential Blood Donor at the Blood Bank of the University College Hospital, Ibadan, Nigeria**  
T. D. Ogunleye. University College Hospital, Ibadan, Nigeria
- 
- A-102 Development and Validation of Turbidimetric Retinol Binding Protein (RBP) Assay**  
M. Jaquemar, A. Safdari, T. Nilsen, T. Knüttel, A. Havelka. Gentian AS, Moss, Norway
- 
- A-103 Stability Study of the Biogenic Amines 5-hydroxyindoleacetic Acid (5-HIAA), Vanillylmandelic Acid (VMA), and Homovanillic Acid (HVA) in Acidified Versus Non-acidified Human Urine Samples**  
 L. F. Junior, B. F. Paulo, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- A-104 Clinical Validation of the VITROS® Immunodiagnosics Products B-R-A-H-M-S PCT Test Medical Decision Points and Prediction of Cumulative 28-Day All-Cause Mortality**  
G. Ogbonna<sup>1</sup>, P. Ajongwen<sup>2</sup>, S. Alvey<sup>2</sup>. <sup>1</sup>QuidelOrtho, Rochester, NY, <sup>2</sup>QuidelOrtho, Raritan, NJ
- 
- A-105 Analytical Performance Evaluation of Four General Chemistry Assays on the Atellica CI 1900 Analyzer Used to Assess Kidney Function**  
S. Lewis, C. Tyler, K. Kolewe, G. Arrode-Bruses, J. Rhea-McManus, J. Snyder. Siemens Healthineers, Tarrytown, NY
- 
- A-106 Sigma Metric Performance of Chemistries on the Abbott Alinity c Analyzer**  
E. T. Laryea, J. H. Nichols. Vanderbilt University Medical Center, Nashville, TN
- 
- A-107 Estimating Glomerular Filtration Rate by the Serum Creatinine and Cystatin C-plus-Creatinine Equations: Concordance and Effect on GFR Categorization**  
R. C. Faught, M. R. McGill, H. Hagrass. UAMS, Little Rock, AR
- 
- A-108 Validation of Plasma Oxalate Measurement on the Roche cobas c501**  
 S. Zilka, G. M. Kroner. Cleveland Clinic, Cleveland, OH
- 
- A-109 Application of Lean Manufacturing in Electrophoresis Test Processing in Order to Reduce Lead Time**  
J. R. Oliveira, I. B. Escalante, I. R. Fernandes, K. F. Carrero, P. G. Costa, R. H. Jacomo, L. F. Abdalla. Sabin Medicina Diagnostica, Brasilia, Brazil
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## GENERAL CLINICAL CHEMISTRY & LABORATORY MEDICINE

- A-110 Analytical Performance Evaluation of Diazo Bilirubin Assays on the Atellica CH Analyzer**  
C. Robinson, A. Sinopoli, D. Blagovcanin, J. Rhea McManus, J. Cheek. *Siemens Healthineers, Tarrytown, NY*
- 
- A-111 There is More to Diluting Icterus Interference than Meets the Eye**  
M. A. Lasho, N. A. Baumann, D. R. Block. *Mayo Clinic, Rochester, MN*
- 
- A-112 A Consensus Reference Range for Ionized Magnesium**  
D. Begos. *Nova Biomedical, Waltham, MA*
- 
- A-114 Mas™ Omni-Core™ Controls, Ready-to-Use Tube Format**  
N. Adams, M. Sunderraj, N. Krishnaswami, D. Crandall, Y. Zhang, R. Hu. *Thermo Fisher Scientific, Fremont, CA*
- 
- A-115 Effects of *BMPR1B* and *MYH9* Variants on Diabetic Nephropathy**  
E. Ndour<sup>1</sup>, K. Mnika<sup>2</sup>, F. Gueye Tall<sup>1</sup>, M. Djite<sup>1</sup>, V. Nembaware<sup>3</sup>, H. Sagna Bassene<sup>1</sup>, S. Mara<sup>1</sup>, R. Dione<sup>1</sup>, J. P. Diop<sup>4</sup>, N. K. Barry<sup>1</sup>, P. M. Kandji<sup>1</sup>, A. Sarr<sup>5</sup>, R. Ndiaye Diallo<sup>6</sup>, N. Ndour Mbaye<sup>5</sup>, P. Gueye<sup>1</sup>, A. Cisse<sup>1</sup>, A. Wonkam<sup>6</sup>, P. Lopez Sall<sup>1</sup>. <sup>1</sup>Department of Pharmaceutical Biochemistry, Faculty of Medicine, Pharmacy and Dentistry, Cheikh Anta Diop University, Dakar, Senegal, <sup>2</sup>Division of Human Genetics, National Health Laboratory Service, and School of Pathology, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa, <sup>3</sup>Division of Human Genetics, Department of Pathology, Faculty of Health Sciences, University of Cape Town, Cape Town, South Africa, <sup>4</sup>Department of Human Genetics, Faculty of Medicine, Pharmacy and Dentistry, Cheikh Anta Diop University, Dakar, Senegal, <sup>5</sup>Department of Internal Medicine, Faculty of Medicine, Pharmacy and Dentistry, Cheikh Anta Diop University, Dakar, Senegal, <sup>6</sup>McKusick-Nathans Institute and Department of Genetic Medicine, Johns Hopkins University School of Medicine, Baltimore, MD
- 
- A-116 Evaluation of Lp(a) Ultra Assay for the Immunoturbidimetric Quantitative Determination of Lipoprotein (a) in Human Serum and Plasma with Siemens Healthineers Atellica CH 930 Analyzer**  
A. Cugini, L. De Angelis, R. Lucini, S. Brambilla. *Sentinel CH. SpA, Milano, Italy*
- 
- A-117 Performance Evaluation of Five Sentinel Diagnostics' Assays on Beckman Coulter DxC 500 AU Clinical Chemistry Analyzer**  
A. Cugini<sup>1</sup>, D. O'Meara<sup>2</sup>, F. Di Gennaro<sup>1</sup>, N. Di Rocco<sup>1</sup>, C. Assalini<sup>1</sup>, R. Lucini<sup>1</sup>, S. Brambilla<sup>1</sup>. <sup>1</sup>Sentinel CH. SpA, Milano, Italy, <sup>2</sup>Beckman Coulter Ireland Inc., Maryfort, O'Callaghansmills, Co. Clare, Ireland
- 
- A-118 Evaluation of Mindray Cystatin C Assay**  
Y. Bao<sup>1</sup>, J. Hu<sup>1</sup>, M. Jiang<sup>1</sup>, J. Wang<sup>1</sup>, J. Dai<sup>2</sup>. <sup>1</sup>Mindray Bio-Medical Electronics Co., Ltd., shenzhen, China, <sup>2</sup>Mindray IVD Innovation Center Minnesota, Oakdale, MN
- 
- A-119 Performance Evaluation of a New Enzymatic Creatinine Assay on Mindray Clinical Chemistry BS-2800M Analyzer with Excellent Accuracy**  
X. Zheng<sup>1</sup>, H. Wang<sup>1</sup>, M. Wu<sup>1</sup>, Z. Liu<sup>1</sup>, J. Wang<sup>1</sup>, M. Jiang<sup>1</sup>, J. Dai<sup>2</sup>. <sup>1</sup>Shenzhen Mindray Bio-medical Electronics CO., LTD., Shenzhen, China, <sup>2</sup>Mindray IVD Innovation Center Minnesota, Oakdale, MN
- 
- A-120 Performance Evaluation of Three Sentinel Diagnostics' Assays on Roche cobas c 303 Analytical Unit**  
M. De Lorenzis, F. Di Gennaro, M. Valdambri, L. De Angelis, R. Lucini, S. Brambilla. *Sentinel CH. SpA, Milano, Italy*
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## GENERAL CLINICAL CHEMISTRY & LABORATORY MEDICINE

- A-121 Performance Evaluation of Two Sentinel Diagnostics' Assays on Roche cobas c 503 Analytical Unit**  
M. De Lorenzis, F. Di Gennaro, L. De Angelis, R. Lucini, S. Brambilla. *Sentinel CH. SpA, Milano, Italy*
- 
- A-122 Fluid Type (STILL) Matters: An Analysis of Quality Control Material Suitability for Measuring Eleven Body Fluid Analytes in the Clinical Laboratory**  
R. C. Fyffe-Freil, N. A. Baumann, D. R. Block. *Mayo Clinic, Rochester, MN*
- 
- A-123 Increased Rate of Recurrent Hemolysis is Associated with COVID-19 Infection and Propofol Administration in the Intensive Care Unit (ICU)**  
R. Fyffe-Freil, A. A. Wockenfus, E. A. Hain, M. A. Nicklas, N. A. Baumann, B. M. Katzman. *Mayo Clinic, Rochester, MN*
- 
- A-124 Evaluation of the Analytical Performance of 10 General Chemistry Assays on the Atellica® CI 1900 Analyzer**  
 K. Kolewe, C. Micklitsch, K. Ostolaza-Venegas, T. Pham, C. Tyler, W. Varhue, G. Arrode-Bruses, J. Rhea-McManus, J. Snyder. *Siemens Healthineers, Tarrytown, NY*
- 
- A-125 Analytical Performance of Chemistry Assays Comprising the Basic Metabolic Panel on the Atellica® CI 1900 Analyzer**  
 A. Bogard, P. Gupta, J. Kellogg, K. Ostolaza-Venegas, S. Singh, C. Tyler, W. Varhue, G. Arrode-Bruses, J. Rhea-McManus, J. Snyder. *Siemens Healthineers, Tarrytown, NY*
- 
- A-126 Evaluation of NMR-based GFR Estimation in Dosing of High-dose Methotrexate**  
 A. N. Schwäble Santamaría<sup>1</sup>, S. Einhell<sup>2</sup>, A. N. Robertson<sup>1</sup>, M. Grassi<sup>1</sup>, T. Pukrop<sup>2</sup>, E. Schiffer<sup>1</sup>. <sup>1</sup>Numares AG, Regensburg, Germany, <sup>2</sup>Universitätsklinikum Regensburg, Regensburg, Germany
- 
- A-127 Bias and Precision of a NMR-based GFR Estimating Equation in Kidney Transplant Recipients**  
 A. N. Schwäble Santamaría<sup>1</sup>, J. Meeusen<sup>2</sup>, J. Lieske<sup>2</sup>, R. J. Scott<sup>2</sup>, A. N. Robertson<sup>1</sup>, M. Grassi<sup>1</sup>, E. Schiffer<sup>1</sup>. <sup>1</sup>Numares AG, Regensburg, Germany, <sup>2</sup>Mayo Clinic, Rochester, MN
- 
- A-128 Analytical Performance Evaluation of Assays Used for Iron Studies on the Atellica® CI 1900 Analyzer**  
J. Freeman, K. Kolewe, S. Singh, B. Valdivia, W. Varhue, G. Arrode-Bruses, J. Rhea-McManus, J. Snyder, H. Leipold. *Siemens Healthineers, Tarrytown, NY*
- 
- A-129 Analytical Performance Evaluation of Vitamin D, Intact Parathyroid Hormone, and Inorganic Phosphorus on the Atellica® CI 1900 Analyzer**  
J. Freeman, R. Aleo, C. Tyler, B. Valdivia, J. Rhea-McManus, H. Leipold, J. Snyder. *Siemens Healthineers, Tarrytown, NY*
- 
- A-130 Analytical Performance Evaluation of Assays Measuring Acetaminophen and Ethanol on the Atellica® CI 1900 Analyzer**  
J. Freeman, N. Morjana, S. Singh, G. Arrode-Bruses, J. Rhea-McManus, J. Snyder. *Siemens Healthineers, Tarrytown, NY*
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## HEMATOLOGY & COAGULATION

- A-131 Assessment of Coagulation Profiles by Viscoelastic Testing in COVID 19 Patients**  
I. Rodriguez Martin, J. Montenegro Martinez, D. Nuñez Jurado, J. Guerrero Montávez. Virgen Del Rocío, Sevilla, Spain
- 
- A-134 Correlation Study of Haematology Analyser Sysmex XS 1000 vs Beckman DXH 520**  
J. Teng. National Healthcare Group Diagnostics, Singapore, Singapore
- 
- A-135 Improving Cell Count Turnaround Times with the GloCyte® Automated Cell Counter for CSF: A Retrospective Study at MercyOne Des Moines Medical Center**  
A. Haynes<sup>1</sup>, J. MacKenzie<sup>2</sup>. <sup>1</sup>MercyOne, Des Moines, IA, <sup>2</sup>Advanced Instruments, LLC, Norwood, MA
- 
- A-136 Usefulness of Presepsin and Thrombomodulin Measurements for Predicting COVID-19 Mortality**  
A. Yamazaki<sup>1</sup>, Y. Nukui<sup>2</sup>, T. Kameda<sup>1</sup>, R. Saito<sup>3</sup>, Y. Koda<sup>4</sup>, N. Ichimura<sup>4</sup>, S. Tohda<sup>4</sup>, R. Ohkawa<sup>1</sup>. <sup>1</sup>Analytical Laboratory Chemistry, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, <sup>2</sup>Department of Infection Control and Prevention, Tokyo Medical and Dental University (TMDU) Hospital, Tokyo, Japan, <sup>3</sup>Department of Molecular Microbiology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, <sup>4</sup>Clinical Laboratory, Tokyo Medical and Dental University (TMDU) Hospital, Tokyo, Japan
- 
- A-137 Performance Evaluation of an Automatic, Rapid and Non-Westergren Based Method for Erythrocyte Sedimentation Rate Measurement**  
H. Hsiang-Ling, W. Fang-Yu, L. Hao-Ru. Taipei Veterans General Hospital, Taipei, Taiwan
- 
- A-139 Investigating the Utility of Reticulocyte Hemoglobin Equivalent for Diagnosis of Iron Deficiency Anemia**  
H. Lee<sup>1</sup>, F. Wang<sup>1</sup>, H. Ho<sup>2</sup>. <sup>1</sup>Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital, Taipei, Taiwan, <sup>2</sup>Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital, Taipei, Taiwan; Department of Biotechnology and Laboratory Science in Medicine, National Yang Ming Chiao Tung University, Taipei, Taiwan
- 
- A-140 Evaluating the Performance of Various Lupus Anticoagulants Tests Among Different Coagulation Platforms**  
F. Wang<sup>1</sup>, H. Lee<sup>1</sup>, Y. Chen<sup>1</sup>, H. Ho<sup>2</sup>. <sup>1</sup>Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital, Taipei, Taiwan, <sup>2</sup>Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital, Taipei, Taiwan; Department of Biotechnology and Laboratory Science in Medicine, National Yang Ming Chiao Tung University, Taipei, Taiwan
- 
- A-141 Evaluation of the Novel Blood Coagulation Analyzer S400CF Comparison on Basic Performance and Turnaround Time with the CP 3000**  
Y. Abe<sup>1</sup>, K. Uchida<sup>2</sup>, S. Munekata<sup>2</sup>, Y. Kanoh<sup>3</sup>. <sup>1</sup>Kitasato University Hospital, Sagami-hara-shi, Kanagawa, Japan, <sup>2</sup>Kitasato University Hospital Clinical Laboratory Department, kKnagawa-ken, Japan, <sup>3</sup>Kitasato University School of Medicine Clinical Laboratory Diagnosis, kKnagawa-ken, Japan
- 
- A-142 Comparison of Alinity c Hemoglobin A1c Immunoassay with Premier Hb9210 Automated HPLC Assay: Very Few Patients May Be Outside Reportable Range Using Alinity c**  
A. Walton. The University of Kansas Health System, Kansas City, KS
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## HEMATOLOGY & COAGULATION

- A-143 Imaging Flow Cytometry: A Novel Method Using ADVIA 2120i System Reagents and Microscopic Image Analysis**  
M. Azhar<sup>1</sup>, I. Chakraborty<sup>1</sup>, A. Joshi<sup>2</sup>, F. Stelling<sup>3</sup>. <sup>1</sup>Center for Innovation in Diagnostics (CID), Siemens Healthineers, Bangalore, India, <sup>2</sup>Siemens Technology and Services Pvt. Ltd, Bangalore, India, <sup>3</sup>Siemens Healthcare Diagnostics Inc., Tarrytown, NY
- 
- A-144 Three-wavelength Polarization Imaging Method for the Analysis of Individual Human Blood Cells With Dye-Enhanced Dispersion of Dilution Buffer**  
R. Seliger<sup>1</sup>, M. Kraus<sup>2</sup>, T. Engel<sup>3</sup>. <sup>1</sup>Center for Innovation in Diagnostics, Siemens Healthcare GmbH, Erlangen, Germany, <sup>2</sup>Technology Excellence, Siemens Healthcare GmbH, Erlangen, Germany, <sup>3</sup>Siemens AG, Munich, Germany
- 
- A-145 Development of a Novel Algorithm Using Red Blood Cell Indices for Screening of Alpha Globin Gene Deletions**  
X. Zhang<sup>1</sup>, J. Oliveira<sup>1</sup>, B. Parikh<sup>2</sup>. <sup>1</sup>Mayo Clinic, Rochester, MN, <sup>2</sup>Washington University School of Medicine, St. Louis, MO
- 
- A-146 A Review of RDW-CV and RDW-SD Measurements in Patients with Iron Deficiency Anemia in an Acute Care Hospital in Singapore**  
Z. Chen, F. Ilagan, P. Heng, V. Prasad. Khoo Teck Puat Hospital, Singapore, Singapore
- 
- A-147 Transfusion**  
Y. Ouologuem. Hospital Somine Dolo At Mopti, 005, CA
- 
- A-148 Thromboelastography Utilization in a Community Hospital Setting**  
 J. L. Allen, M. Christian, A. Zuretti, M. H. Bluth. Maimonides Medical Center, Brooklyn, NY
- 
- A-149 Performance Characteristics of VerifyNow PRU and ARU Tests During a Clinical Method Verification Exercise**  
S. Ibrahim<sup>1</sup>, M. Pandiri<sup>1</sup>, J. Bailey<sup>1</sup>, E. Housman<sup>2</sup>, V. Johari<sup>3</sup>, M. A. Barbhuiya<sup>4</sup>. <sup>1</sup>Department of Pathology, UMass Chan Medical School-Baystate, Springfield, MA, <sup>2</sup>Department of Pharmacy Services, Baystate Health, Springfield, MA, <sup>3</sup>Department of Pathology, UMass Chan Medical School-Baystate, Springfield, MA, <sup>4</sup>Department of Pathology; Healthcare Delivery and Population Sciences, UMass Chan Medical School-Baystate, Springfield, MA
- 
- A-150 Abo Subgroup Incompatibility Leading to Red Cell Engraftment Failure and Fatal Outcome: A Rare But Preventable Complication in Related Allogeneic hsct**  
 F. M. Conti<sup>1</sup>, A. Valveson<sup>2</sup>, R. Pereira<sup>2</sup>, F. Nascimento<sup>2</sup>, M. Hori<sup>3</sup>, M. C. Mello<sup>4</sup>, M. C. Castelo<sup>5</sup>, A. C. Lopes<sup>6</sup>. <sup>1</sup>Dasa, Rio de Janeiro, Brazil, <sup>2</sup>Hemocentro São Lucas, Rio de Janeiro, Brazil, <sup>3</sup>Américas Oncologia, Rio de Janeiro, Brazil, <sup>4</sup>Dasa, São Paulo, Brazil, <sup>5</sup>Dasa, Fortaleza, Brazil, <sup>6</sup>Dasa, Florianópolis, Brazil
- 
- A-151 Evaluation of Monocyte Distribution Width as an Early Marker for Diagnosis of Sepsis**  
J. Park<sup>1</sup>, J. Kang<sup>1</sup>, Y. Choi<sup>1</sup>, H. Choi<sup>2</sup>, M. Shin<sup>1</sup>. <sup>1</sup>Chonnam National University Hwasun Hospital, Hwasun, Korea, Republic of, <sup>2</sup>Chonnam National University Hospital, Gwangju, Korea, Republic of
- 
- A-154 Cost-effectiveness of On-site vs. Send-out Measurement of ADAMTS13 Activity in the Management of Acquired Thrombotic Thrombocytopenic Purpura**  
P. Toulon<sup>1</sup>, A. Sudria<sup>1</sup>, I. Harzallah<sup>2</sup>. <sup>1</sup>Pasteur University Hospital, Nice, France, <sup>2</sup>Emile Müller Regional Hospital, Mulhouse, France
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## HEMATOLOGY & COAGULATION

- A-155 Unlocking the Complete Blood Count: Derivation of a Single-panel Laboratory Test that Includes Monocyte Distribution Width to Create a Universal Sepsis Screening Tool**  
J. S. Hinson<sup>1</sup>, N. Sarani<sup>2</sup>, A. Smith<sup>3</sup>, A. Debraine<sup>3</sup>, O. S. Badaki-Makun<sup>1</sup>, A. Malinovska<sup>1</sup>, S. Levin<sup>3</sup>. <sup>1</sup>Johns Hopkins University School of Medicine, Baltimore, MD, <sup>2</sup>Kansas University Medical Center, Kansas City, MO, <sup>3</sup>Beckman Coulter, Brea, CA
- 
- A-156 White Blood Cell Measurands, Flagging and Scatter Plot Patterns in Chronic Lymphocytic Leukemia**  
S. Silva<sup>1</sup>, Y. Li<sup>2</sup>, Y. Chen<sup>1</sup>, M. Ismail<sup>1</sup>, S. Musolino<sup>3</sup>, I. Talarico<sup>3</sup>, D. Cosseddu<sup>3</sup>, B. Montaruli<sup>3</sup>, A. Insana<sup>3</sup>, C. Rongey<sup>1</sup>. <sup>1</sup>Abbott Diagnostic Division, Santa Clara, CA, <sup>2</sup>Abbott Laboratories, Lake Forest, IL, <sup>3</sup>Azienda Ospedaliera Ordine Mauriziano di Torino, Torino, Italy
- 
- A-157 Evaluation of Cellular Stability in Bone Marrow for Flow Cytometry Analysis**  
A. Correa Wengerkievicz Lopes<sup>1</sup>, I. Sousa<sup>2</sup>, C. Muniz Ribeiro Franzone<sup>2</sup>, A. Oliveira Martin Wagner<sup>2</sup>. <sup>1</sup>Laboratório Médico Santa Luzia DASA, Flórianópolis, Brazil, <sup>2</sup>Laboratório Médico Santa Luzia DASA, Florianópolis, Brazil
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- A-158 Evaluation of Nucleated Red Blood Cells (NRBC) Count on Mindray BC 6800Plus**  
A. Correa Wengerkievicz Lopes<sup>1</sup>, A. Siqueira Castanhel<sup>2</sup>, C. Muniz Ribeiro Franzone<sup>2</sup>, J. Valim Franzen<sup>3</sup>. <sup>1</sup>Laboratório Médico Santa Luzia DASA, Flórianópolis, Brazil, <sup>2</sup>Laboratório Médico Santa Luzia DASA, Florianópolis, Brazil, <sup>3</sup>Vyttra Diagnosticos, São Paulo, Brazil
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- A-159 Role of TCRB1 Antibody in the Evaluation Panel of T Lymphoproliferative Diseases**  
A. Correa Wengerkievicz Lopes<sup>1</sup>, C. Muniz Ribeiro Franzone<sup>2</sup>, A. Oliveira Martin Wagner<sup>2</sup>. <sup>1</sup>Laboratório Médico Santa Luzia DASA, Flórianópolis, Brazil, <sup>2</sup>Laboratório Médico Santa Luzia DASA, Florianópolis, Brazil
- 
- A-160 Factor VIII Chromogenic Low Activity Sample Analysis in a Low Calibration Curve Model**  
R. F. de Paula<sup>1</sup>, G. R. Ramos<sup>2</sup>, M. Yanquen<sup>2</sup>, C. Borella<sup>3</sup>, C. M. Perez<sup>4</sup>. <sup>1</sup>Siemens Healthineers, São Paulo, Brazil, <sup>2</sup>Hemostasia and Hematology H&H Lab, Bogotá, Colombia, <sup>3</sup>Siemens Healthineers.com, São Paulo, Brazil, <sup>4</sup>Siemens Healthineers, Bogotá, Colombia
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- A-161 Analytical Performance of Reagents for Determination of Activated Partial Thromboplastin Time: A Sigma Metric Perspective**  
R. F. de Paula<sup>1</sup>, L. Cicarelli<sup>2</sup>, R. Fock<sup>2</sup>, C. Borella<sup>1</sup>, I. Rodrigues<sup>3</sup>, C. M. Perez<sup>4</sup>. <sup>1</sup>Siemens Healthineers, São Paulo, Brazil, <sup>2</sup>Clin. Lab. Div. of the University Hosp. of the Un. of S. Paulo (DLC-HU-USP), São Paulo, Brazil, <sup>3</sup>Siemens Healthineers.com, São Paulo, Brazil, <sup>4</sup>Siemens Healthineers.com, Bogotá, Colombia
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- A-162 Standardization of Lupus Anticoagulant Study: 8 Recommendations for Antiphospholipid Syndrome Diagnosis — Vision from Latin America Experts**  
R. F. de Paula<sup>1</sup>, G. R. Ramos<sup>2</sup>, D. D. Ribeiro<sup>3</sup>, C. Borella<sup>1</sup>, J. Aldonate<sup>4</sup>, S. Auvina<sup>5</sup>, C. M. Perez<sup>6</sup>. <sup>1</sup>Siemens Healthineers, São Paulo, Brazil, <sup>2</sup>Hemostasia and Hematology H&H Lab, Bogotá, Colombia, <sup>3</sup>Hemostasis Outpatient Clinic of The Hematology/Oncology/Functional Unit of Hospital das Clínicas UFMG, Minas Gerais, Brazil, <sup>4</sup>Clinical Laboratory Redsalud SpA, Santiago, Chile, <sup>5</sup>Hemostasis & Thrombosis DASA – Labmedicina SA, Buenos Aires, Argentina, <sup>6</sup>Siemens Healthineers, Bogotá, Colombia

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## LABORATORY MANAGEMENT & PATIENT SAFETY

- A-163 Abnormal HbA1c Results Lead to an Unexpected Chronic Myeloid Leukemia Diagnosis**  
 N. J. Mathewson<sup>1</sup>, L. N. Pearson, K. Doyle. *University of Utah / ARUP Laboratories, Salt Lake City, UT*
- 
- A-164 Key Performance Indicators (KPIs) Can Be Polluted By Add-on Tests**  
 T. Ellison<sup>1</sup>, D. Fraser<sup>1</sup>, P. Cane<sup>1</sup>, D. James<sup>2</sup>. <sup>1</sup>Synnovis, London, United Kingdom, <sup>2</sup>Synlab, London, United Kingdom
- 
- A-165 Test Harmonisation as a Key Enabler of Pathology Transformation**  
 T. Ellison<sup>1</sup>, P. Cane<sup>1</sup>, C. MacFarlane<sup>1</sup>, D. James<sup>2</sup>. <sup>1</sup>Synnovis, London, United Kingdom, <sup>2</sup>Synlab, London, United Kingdom
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- A-166 Severity of Harm Category Designation Survey Results**  
 L. Peltier<sup>1</sup>, S. Van Aelst<sup>2</sup>, B. Peeters<sup>2</sup>, J. Raimbourg<sup>3</sup>, J. Yundt-Pacheco<sup>4</sup>. <sup>1</sup>Hopital Pontchaillou, Rennes, France, <sup>2</sup>Heilig Hart ziekenhuis, Lier, Belgium, <sup>3</sup>Bio-Rad Laboratories, Marnes-la-Coquette, France, <sup>4</sup>Bio-Rad Laboratories, Irvine, CA
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- A-167 Repeatedly Positive Serum and Urine Beta-HCG Results in Non-Pregnant Patients — Application of Clinical Decision Support**  
 M. R. Ianosi-Irimie<sup>1</sup>, D. Nikolic<sup>2</sup>, T. Bocker Edmonston<sup>2</sup>. <sup>1</sup>Cooper University Health Care, Camden, NJ, <sup>2</sup>Cooper University HealthCare, Camden, NJ
- 
- A-169 Addressing Opportunities and Misconceptions of ASCP BOC International Credentials in the Philippines**  
 J. B. Baker<sup>1</sup>, A. Spiczka<sup>2</sup>, C. Gebhart<sup>3</sup>. <sup>1</sup>American Society for Clinical Pathology, Chicago, IL, <sup>2</sup>American Society for Clinical Pathology, Board of Certification, Chicago, IL, <sup>3</sup>LifeLink Transplantation Immunology Lab, Tampa, FL
- 
- A-170 Investigation of High Rate of Low Positive Quantiferon-TB Gold Plus Results**  
 A. Mehreen<sup>1</sup>, K. Isidan<sup>1</sup>, D. B. Patel<sup>1</sup>, K. Jones<sup>2</sup>, M. Laugesen<sup>2</sup>, H. Lee<sup>1</sup>. <sup>1</sup>NorthShore University HealthSystem, Evanston, IL, <sup>2</sup>ACL Laboratories, Rosemont, IL
- 
- A-173 Comparison of Four Different Quality Control Strategies for Multiple Instruments in a Clinical Laboratory**  
 H. Kang, J. Jang, H. Jang, J. Rim, J. Lim. *Yonsei University, Seoul, Korea, Republic of*
- 
- A-174 More Timely Patient Care Amidst Healthcare Staffing Shortages, Reducing Blood Specimen Tube Barcode Errors for Continuous Flow in an Automated Laboratory System**  
 J. R. Copeland, J. Guerriero, B. C. Cook. *Henry Ford Health, Detroit, MI*
- 
- A-175 Objective Indexes for Comparing Platelet Usage Among Peer Hospitals During the COVID-19 Pandemic**  
 Y. TU<sup>1</sup>, Y. Hsueh<sup>2</sup>, Y. Cheng<sup>1</sup>, T. Lin<sup>2</sup>, T. Chiueh<sup>2</sup>. <sup>1</sup>Department of Laboratory Medicine, New Taipei Municipal Tu Cheng Hospital (Built and Operated by Chang Gung Medical Foundation), New Taipei City, Taiwan, <sup>2</sup>Department of Laboratory Medicine, Lin-Kou Chang Gung Memorial Hospital, Taoyuan, Taiwan

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## LABORATORY MANAGEMENT & PATIENT SAFETY

- A-176 Barriers and Enablers to Laboratory Stewardship Across a 16 Hospital Regional System**  
*C. R. McCudden<sup>1</sup>, J. Brehaut<sup>2</sup>, N. McCleary<sup>2</sup>. <sup>1</sup>University of Ottawa, Ottawa, ON, Canada, <sup>2</sup>Ottawa Hospital Research Institute, Ottawa, ON, Canada*
- 
- A-177 Validation of Fluoride Tubes for Insulin Measurements**  
*S. Delgado Macías<sup>1</sup>, I. Dominguez Pascual<sup>2</sup>, S. Perez Pujalte<sup>2</sup>, M. Conde Sánchez, J. Guerrero Montavez<sup>2</sup>. <sup>1</sup>Hospital Universitario Virgen del Rocío, sevilla, Spain, <sup>2</sup>Vigen del Rocío University Hospital, Sevilla, Spain*
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- A-178 Reduced Hemolysis with a Novel Capillary Collection System as Compared with Conventional Capillary Collection Devices**  
*M. Parikh, J. Berube. BD, Franklin Lakes, NJ*
- 
- A-179 Implementation of an Electronic Competency Evaluation System for Point of Care Testing**  
*N. Sanchez<sup>1</sup>, V. Coughlin<sup>1</sup>, A. Okulewicz<sup>1</sup>, C. Urena<sup>1</sup>, M. Mauriello<sup>1</sup>, D. Chen<sup>2</sup>. <sup>1</sup>NYU Langone Health, New York, NY, <sup>2</sup>Dept. of Pathology; NYU School of Medicine, New York, NY*
- 
- A-180 A Retrospective Review of Syphilis Serology Interpretation Accuracy**  
*M. Forsythe<sup>1</sup>, H. K. Lee<sup>2</sup>, R. C. Benirschke<sup>2</sup>. <sup>1</sup>University of Chicago, Chicago, IL, <sup>2</sup>NorthShore University HealthSystem, Evanston, IL*
- 
- A-181 Comparison of POCT Accreditation Between TJC and CAP: Which Way to Go?**  
*J. Lee<sup>1</sup>, J. Palmer<sup>1</sup>, S. Stoeger<sup>1</sup>, A. Quinn<sup>1</sup>, M. Rudolph<sup>1</sup>, K. Brohmer<sup>1</sup>, D. Yang<sup>2</sup>, K. Galior<sup>2</sup>. <sup>1</sup>UWHealth, Madison, WI, <sup>2</sup>UW Madison, Madison, WI*
- 
- A-182 The Journey From Conceptualizing, Designing, and Implementing Our Integrated Smart Core Lab at Kokilaben Dhirubhai Ambani Hospital (KDAH) & Medical Research Institute, Mumbai, India**  
*V. Vadera<sup>1</sup>, S. Singhal<sup>2</sup>, A. Manjure<sup>3</sup>, B. Das<sup>2</sup>. <sup>1</sup>Kokilaben Dhirubhai Ambani Hospital (KDAH) & Medical Research Institute, Mumbai, India, <sup>2</sup>Kokilaben Dhirubhai Ambani Hospital (KDAH) & Medical Research Institute, MUMBAI, India, <sup>3</sup>Roche Diagnostics India Ltd, Mumbai, India*
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- A-183 Improving Turnaround Time of Critical Value Reporting by Reducing Redundant Workflow**  
*E. Chuang. Chiayi Chang Gung Memorial Hospital, Puzi City, Chiayi County, Taiwan*
- 
- A-184 Racing Against the Clock: Process Improvement Project to Reduce Cardiac Troponin Turnaround Time Through Autoverification of Results**  
*T. M. Tauferner, A. J. Haga, B. R. Kelley, A. M. Wockenfus, L. J. Donato, B. S. Karon, B. M. Katzman. Mayo Clinic, Rochester, MN*
- 
- A-186 Enabling Laboratories to do More with Less: Assessment of Workflow Efficiencies Through Instrument Consolidation in an Immunology Lab**  
*J. Murphy<sup>1</sup>, C. Miller<sup>1</sup>, E. Yu<sup>2</sup>. <sup>1</sup>Thermo Fisher Scientific, Portage, MI, <sup>2</sup>Geisinger Medical Center, Danville, PA*
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## LABORATORY MANAGEMENT & PATIENT SAFETY

- A-187 The Effect of Ambient Temperature on Potassium During Hot Months: The Seasonal Pseudohypokalemia Delima!**  
R. Khoury, P. Gudaitis, A. Gandhi, D. Gudaitis. *Aculabs, Inc, East Brunswick, NJ*
- 
- A-188 Managing a Fully-automated Paperless Laboratory During a Cyber-attack**  
S. K. Datta<sup>1</sup>, P. Chopra<sup>2</sup>, T. Sehgal<sup>2</sup>, R. Yadav<sup>2</sup>. <sup>1</sup>*All India Institute Of Medical Sciences, New Delhi, New Delhi, India*, <sup>2</sup>*All India Institute of Medical Sciences, New Delhi, India*
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- A-189 Volume Matters: Continuous Improvement to Reduce Blood Collection Volumes and Collection Tube Utilization**  
E. A. Hain, B. K. Hendrix, A. J. Stelpflug, E. A. Elliott, S. A. Boedecker, T. L. Faber, D. R. Block, N. A. Baumann. *Mayo Clinic, Rochester, MN*
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- A-190 The Effect of Lipemia on the Laboratory Assessment of Blood Gases**  
M. Nelson, P. Patel, E. Olgaard, B. Osa-Andrews. *University of Florida, Gainesville, FL*
- 
- A-191 The Importance of a Medical Consulting Center as a Strategy for Customer Relationship Management Regarding Unexpected Test Results**  
A. C. Bispo<sup>1</sup>, P. Araujo<sup>1</sup>, P. Telles-Dias<sup>1</sup>, D. S. Rodrigues<sup>1</sup>, J. D. Souza<sup>1</sup>, L. S. Santos<sup>1</sup>, L. H. Hasselmann<sup>1</sup>, Y. Schrank<sup>1</sup>, L. D. Spina<sup>1</sup>, M. F. Pinheiro<sup>1</sup>, A. C. Lopes<sup>2</sup>, S. Argolo<sup>1</sup>, D. M. Gomes<sup>1</sup>, A. F. Perozo<sup>1</sup>, R. Fontes<sup>1</sup>. <sup>1</sup>*Dasa, Rio de Janeiro, Brazil, Rio de Janeiro, RJ, Brazil*, <sup>2</sup>*Dasa, Brazil, São Paulo, SP, Brazil*
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- A-192 Cause and Departmental Origin of Errors — An Investigation of Questionable Patient Test Results**  
A. L. Brady, M. Hayden, M. B. Elkins, M. R. Nasr, A. Reyes, Z. T. Cao. *SUNY Upstate Medical University, Syracuse, NY*
- 
- A-193 Effects of Delayed Centrifugation and Delayed Testing on the Stability of Comprehensive Metabolic Profile Analytes**  
C. W. Chan, A. Gant Kanegusuku, K. J. Yeo. *The University of Chicago, Chicago, IL*
- 
- A-194 Intravenous Fluid Contamination of Basic Metabolic Panels is Underrecognized By Manual Workflows**  
N. C. Spies, C. W. Farnsworth, M. A. Zaydman. *Washington University in St. Louis School of Medicine, Saint Louis, MO*
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- A-195 The Application of Six Sigma Metrics to Assess Quality Control of Syphilis Tests in a Clinical Laboratory**  
A. H. Utiyama, R. T. Pereira, T. Rodrigues, A. C. Bandeira, D. R. Ramadan, S. Tufik. *AFIP Medicina Diagnóstica, São Paulo, Brazil*
- 
- A-196 Trend Analysis in Proficiency Testing — Does it Work?**  
A. C. Bandeira, J. M. Banzato, A. H. Utiyama, V. F. Coutinho, D. R. Ramadan, S. Tufik. *AFIP Medicina Diagnóstica, São Paulo, Brazil*
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## LIPIDS, LIPOPROTEINS & CARDIOVASCULAR RISK FACTORS

- A-198 Acute Effects of a Single Moderate-Intensity Exercise on Omega-3 and Omega-6 Metabolic Pathway Using Whole Blood Lipidomics**  
N. Sakane<sup>1</sup>, A. Sugauma<sup>1</sup>, S. Sakane<sup>1</sup>, M. Fujibayashi<sup>2</sup>. <sup>1</sup>Kyoto Medical Center, Kyoto, Japan, <sup>2</sup>Setsunan University, Osaka, Japan
- 
- A-200 Lipid Distributions in the Global Diagnostics Network — A Cross-Sectional Analysis of 462 Million Lipid Results from 17 Countries Across 5 Continents**  
S. Martin<sup>1</sup>, J. Niles<sup>2</sup>, H. Kaufman<sup>2</sup>, Z. Awan<sup>3</sup>, O. Elgaddar<sup>4</sup>, R. Choi<sup>5</sup>, S. Ahn<sup>6</sup>, R. Verma<sup>7</sup>, M. Nagarajan<sup>7</sup>, A. Don-Wauchope<sup>8</sup>, M. Castelo<sup>9</sup>, C. Hirose<sup>9</sup>, D. James<sup>10</sup>, D. Truman<sup>10</sup>, M. Todorovska<sup>11</sup>, A. Momirovska<sup>11</sup>, H. Pivovarníková<sup>12</sup>, M. Rákociová<sup>12</sup>, P. Louzao Gudín<sup>13</sup>, R. Viviana<sup>14</sup>, J. Batu<sup>15</sup>, N. El Banna<sup>16</sup>, H. Kapoor<sup>2</sup>. <sup>1</sup>Johns Hopkins University, Baltimore, MD, <sup>2</sup>Quest Diagnostics, Secaucus, NJ, <sup>3</sup>King Abdulaziz University - Al Borg Diagnostics, Jeddah, Saudi Arabia, <sup>4</sup>Alexandria University, Alexandria, Egypt, <sup>5</sup>GC Labs - Sungkyunkwan University School of Medicine, Seoul, Korea, Democratic People's Republic of, <sup>6</sup>GC Labs, Seoul, Korea, Democratic People's Republic of, <sup>7</sup>Strand Life Sciences, Bengaluru, India, <sup>8</sup>McMaster University - LifeLabs Inc, Hamilton - Toronto, ON, Canada, <sup>9</sup>Dasa, Fortaleza/Ceará, Brazil, <sup>10</sup>SYNLAB, London, United Kingdom, <sup>11</sup>SYNLAB, North Macedonia, Macedonia, The Former Yugoslav Republic of, <sup>12</sup>SYNLAB, Slovakia, <sup>13</sup>SYNLAB, Spain, Spain, <sup>14</sup>SYNLAB, Suisse SA, Switzerland, <sup>15</sup>SYNLAB, Ankara, Turkey, <sup>16</sup>SYNLAB, Freiburg Medical Laboratory, Dubai, United Arab Emirates
- 
- A-201 Deriving Information From the Lipid Panel as Spherical Coordinates**  
J. Cole<sup>1</sup>, M. L. Sampson<sup>1</sup>, A. T. Remaley<sup>2</sup>. <sup>1</sup>NIH Clinical Center, Bethesda, MD, <sup>2</sup>NIH National Heart, Lung, and Blood Institute, Bethesda, MD
- 
- A-202 Establishing of Lipid-apolipoprotein Connectivity Map in Hyperglycemia**  
A. A. Ivanova, B. A. Parks, J. Rees, Z. Kuklenyik, J. R. Barr. CDC, Atlanta, GA
- 
- A-203 An Equation Based on the Standard Lipid Panel for Calculating Low-Density Lipoproteins-Triglycerides**  
 A. Wolska<sup>1</sup>, M. Sampson<sup>1</sup>, J. W. Meeusen<sup>2</sup>, L. J. Donato<sup>2</sup>, A. S. Jaffe<sup>2</sup>, A. T. Remaley<sup>1</sup>. <sup>1</sup>National Institutes of Health, Bethesda, MD, <sup>2</sup>Mayo Clinic, Rochester, MN
- 
- A-204 Associations Between Apolipoprotein B/A1 Ratio, Lipoprotein(a) and the Risk of Metabolic-associated Fatty Liver Diseases in a Korean Population**  
K. Park<sup>1</sup>, Y. Park<sup>2</sup>, H. Park<sup>3</sup>, E. You<sup>4</sup>, Y. Kim<sup>1</sup>. <sup>1</sup>Samsung Changwon Hospital, Sungkyunkwan University School of Medicine, Changwon, Korea, Republic of, <sup>2</sup>Chungnam National University Hospital, Daejeon, Korea, Republic of, <sup>3</sup>Seoul Clinical Laboratories, Seoul, Korea, Republic of, <sup>4</sup>Inje University Busan Paik Hospital, Inje University College of Medicine, Busan, Korea, Republic of
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- A-205 Optimized Time Interval for the Measurement of Plasma Lipids for Assessing Cardiovascular Disease Risk**  
M. Sampson, J. Cole, A. T. Remaley. NIH, Bethesda, MD
- 
- A-206 Association of Lipids and Glucose with High-sensitivity CRP (hs-CRP) in a Community-based Adult Population**  
H. Li, N. White Al-Habeeb, P. Catomeris. Dynacare, Brampton, ON, Canada
- 
- A-207 Analytical Validation of Helena SPIFE Touch to Determine ApoB-Containing Lipoproteins Lp(a)-P, LDL-P and VLDL-P**  
R. J. Scott<sup>1</sup>, L. Donato<sup>2</sup>, A. Jaffe<sup>2</sup>, J. Meeusen<sup>2</sup>, V. Vasile<sup>2</sup>. <sup>1</sup>Mayo Clinic, Rochester, MN, <sup>2</sup>Mayo Clinic, Rochester, MN
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## SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## LIPIDS, LIPOPROTEINS &amp; CARDIOVASCULAR RISK FACTORS

**A-208 An Improved Formula for Predicting Low LDL-C Based on an Enhanced Sampson-NIH Equation**AACC  
ACADEMYT. C. Coverdell<sup>1</sup>, M. Sampson<sup>1</sup>, J. W. Meeusen<sup>2</sup>, L. J. Donato<sup>2</sup>, A. S. Jaffe<sup>2</sup>, A. T. Remaley<sup>1</sup>.<sup>1</sup>National Institutes of Health, Bethesda, MD, <sup>2</sup>Mayo Clinic, Rochester, MN**A-209 Application of Bilirubin Oxidase for Improvement of False Positive Error Caused by Bilirubin on Cholesterol Efflux Capacity Assay by Immobilize Liposome-Bound Gel Beads Method**T. Miyakoshi<sup>1</sup>, Y. Mutsuda<sup>1</sup>, Y. Horiuchi<sup>1</sup>, T. Kameda<sup>1</sup>, M. Tozuka<sup>2</sup>, R. Ohkawa<sup>1</sup>. <sup>1</sup>Tokyo Medical and Dental University, Tokyo, Japan, <sup>2</sup>Life Science Research Center, Nagano Children's Hospital, Nagano, Japan**A-210 Comparison of Two Lipoprotein(a) Methods: Validation, Sample Stability, and Patient Characteristics**J. Powers Carson<sup>1</sup>, M. Corso<sup>2</sup>. <sup>1</sup>Washington University in Saint Louis, Saint Louis, MO,<sup>2</sup>Washington University in St. Louis-Core Lab Clinical Studies, Saint Louis, MO**A-211 A Novel Magnetic Immuno-Chromatographic Assay for Quantitative Detection of Circulating Oxidized LDL**L. Ma<sup>1</sup>, Q. Zhang<sup>2</sup>, Z. Luo<sup>3</sup>. <sup>1</sup>Northwest University, Xi'an, China, <sup>2</sup>The First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China, <sup>3</sup>Northwest University, Xi'an, China**A-213 Assessing the Function of High-Density Lipoprotein and the Risk of Cardiovascular Disease Using Fully Automated Immunoassay Analyzer, HISCL™**J. Kim<sup>1</sup>, K. Murakami<sup>1</sup>, A. Harada<sup>1</sup>, R. Toh<sup>2</sup>, K. Miwa<sup>1</sup>, T. Iino<sup>1</sup>, C. Suminaka<sup>1</sup>, K. Sakaeda<sup>1</sup>, M. Nagao<sup>2</sup>, T. Ishida<sup>2</sup>, K. Hirata<sup>2</sup>. <sup>1</sup>Sysmex corporation, Kobe, Japan, <sup>2</sup>Kobe University, Kobe, Japan**A-214 Modified CDC Beta-Quantification Reference Method for HDL-C and LDL-C Determinations Using Isotope-Dilution Mass Spectrometry — Pilot Report**C. Cho<sup>1</sup>, J. Seo<sup>1</sup>, H. Lee<sup>1</sup>, Y. Yun<sup>2</sup>, J. Seo<sup>2</sup>, H. Kim<sup>2</sup>, S. Park<sup>3</sup>, J. Kim<sup>4</sup>. <sup>1</sup>Division of Chronic Disease Prevention, Korea Disease Control and Prevention Agency, Cheongju, Korea, Republic of, <sup>2</sup>Konkuk University School of Medicine, Seoul, Korea, Republic of, <sup>3</sup>National Cancer Center, Goyang, Korea, Republic of, <sup>4</sup>Yonsei University College of Medicine, Seoul, Korea, Republic of**A-215 Calculated LDL-cholesterol: Comparability of the Extended Martin-Hopkins, Sampson-NIH, Friedewald and Four Other Equations in South African Patients**A. Carelse<sup>1</sup>, H. M. Rossouw<sup>2</sup>, N. Steyn<sup>1</sup>, J. Martins<sup>3</sup>, T. S. Pillay<sup>3</sup>. <sup>1</sup>National Health Laboratory Service, Pretoria, South Africa, <sup>2</sup>Ampath Laboratory, Pretoria, South Africa, <sup>3</sup>University of Pretoria, Pretoria, South Africa**A-216 Measuring Inflammation and Cardiovascular Markers at Benchtop NMR Using Diffusion and Relaxation Edited Experiments**J. Wist<sup>1</sup>, P. Nitschke<sup>1</sup>, R. Masuda<sup>1</sup>, S. Lodge<sup>1</sup>, H. Schaefer<sup>2</sup>, C. Cannet<sup>2</sup>, E. Holmes<sup>3</sup>, J. K. Nicholson<sup>1</sup>. <sup>1</sup>Murdoch University, Australian National Phenome Center, Perth, Australia, <sup>2</sup>Bruker, Rheinstetten, Germany, <sup>3</sup>Murdoch University, Center for Computational Systems Medicine, Perth, Australia**A-217 Evaluation of Twelve Formulae for LDL-C Estimation in a South Indian Population**S. Selvarajan, J. Ramesh, S. K. S. K. S. Sri Ramachandra Institute of Higher Education & Research, Chennai, India

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## LIPIDS, LIPOPROTEINS & CARDIOVASCULAR RISK FACTORS

- A-218 Analytical Performance Evaluation of Lipid Panel Assays on the Atellica CI 1900 Analyzer**  
K. Kolewe, S. Singh, C. Tyler, G. Arrode-Bruses, J. Rhea-McManus, J. Snyder.  
*Siemens Healthineers, Tarrytown, NY*
- 
- A-219 A Multiplexed Targeted Assay for Gangliosides Using Liquid Chromatography-Tandem Mass Spectrometry**  
J. Kim, S. Byeon, D. Oglesbee, D. Matern, M. J. Schultz, A. Pandey. *Mayo Clinic, Rochester, MN*
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- A-220 Comparative Study on the Detection Values of Different Lp(a) Reagents in Chinese Population**  
Q. Yang. *Center of Laboratory Medicine, National Center for Cardiovascular Diseases & Fuwai Hospital, Beijing, China*
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- A-221 Evaluation of Apolipoprotein B Equivalent Low-density Lipoprotein Cholesterol Measurements**  
J. M. Hornseth, L. J. Donato, A. S. Jaffe, J. W. Meeusen. *Mayo Clinic, Rochester, MN*
- 
- A-222 Comparative Analysis of Clinical and Laboratory Parameters of Brazilian Patients with Severe Hipertriglyceridemia**  
C. L. Costa<sup>1</sup>, M. C. Castelo<sup>2</sup>, V. R. Veras<sup>1</sup>, L. T. Ramos<sup>1</sup>, V. O. Fernandes<sup>1</sup>, R. S. Lima<sup>1</sup>, M. P. Vasconcelos<sup>1</sup>, G. P. Lima<sup>1</sup>, J. S. Araujo<sup>1</sup>, A. D. Montenegro<sup>1</sup>, L. L. Queiroz<sup>1</sup>, C. M. Ponte<sup>2</sup>, A. C. Flor<sup>1</sup>, I. d. Melo<sup>1</sup>, A. C. Lopes<sup>3</sup>, R. M. Montenegro Junior<sup>1</sup>. <sup>1</sup>UFC, Fortaleza, Brazil, <sup>2</sup>DASA, Fortaleza, Brazil, <sup>3</sup>DASA, Florianopolis, Brazil
- 
- A-223 Lipoprotein (a) Profile in Patients with Diabetes and Coronary Artery Disease**  
M. C. Castelo<sup>1</sup>, V. O. Fernandes<sup>2</sup>, J. L. Lima Verde<sup>2</sup>, M. S. Ballalai<sup>2</sup>, A. D. Montenegro<sup>2</sup>, R. M. Montenegro Júnior<sup>2</sup>, A. C. Lopes<sup>3</sup>. <sup>1</sup>Diagnósticos da América S.A (DASA), Universidade Federal do Ceará, Hospital de Messejana Dr. Carlos Alberto Studart Gomes, Fortaleza, Brazil, <sup>2</sup>Universidade Federal do Ceará, Fortaleza, Brazil, <sup>3</sup>Diagnósticos da América S.A (DASA), Fortaleza, Brazil
- 
- A-224 Comparative Analysis of Clinical and Laboratory Parameters of Different Subtypes of Familial Partial Lipodistrophy**  
V. R. Veras<sup>1</sup>, M. C. Castelo<sup>2</sup>, C. L. Costa<sup>1</sup>, L. T. Vasconcelos<sup>1</sup>, V. O. Fernandes<sup>1</sup>, R. S. Lima<sup>1</sup>, M. P. Vasconcelos<sup>1</sup>, G. P. Lima<sup>1</sup>, J. S. Araujo<sup>1</sup>, A. D. Montenegro<sup>1</sup>, C. M. Ponte<sup>2</sup>, L. L. Queiroz<sup>1</sup>, I. d. Melo<sup>1</sup>, A. C. Flor<sup>3</sup>, A. C. Lopes<sup>4</sup>, R. M. Montenegro Junior<sup>1</sup>. <sup>1</sup>UFC, Fortaleza, Brazil, <sup>2</sup>DASA, Fortaleza, Brazil, <sup>3</sup>UFC, Florianopolis, Brazil, <sup>4</sup>DASA, Florianopolis, Brazil



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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MICROBIOLOGY & INFECTIOUS DISEASE

- A-225 Necrohemorrhagic Acute Pancreatitis and Ischemic Colitis Secondary to COVID-19 Infection**  
D. Núñez Jurado, I. Rodríguez Martín, J. Montenegro Martínez, J. Guerrero Montávez. *Virgen del Rocío University Hospital, Seville, Spain*
- 
- A-227 First Brazilian External Quality Assessment Program for Monkeypox Molecular Tests: Results From Two Surveys**  
S. Lima<sup>1</sup>, G. Barra<sup>2</sup>, J. A. Poloni<sup>1</sup>, J. Barroso<sup>1</sup>, R. Lopes<sup>1</sup>, M. Mendes<sup>3</sup>, R. Montenegro<sup>1</sup>, D. Jerônimo<sup>1</sup>, F. Brazão<sup>4</sup>, I. Biasoli<sup>1</sup>, V. Biasoli<sup>1</sup>. <sup>1</sup>Controllab, Rio de Janeiro, Brazil, <sup>2</sup>Sabin Medicina Diagnóstica, Brasília, Brazil, <sup>3</sup>Divisão de Laboratório Central do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil, <sup>4</sup>Laboratório Ruth Brazão, Belém, Brazil
- 
- A-228 Performance Evaluation of the LabGenius C-CT/NG-BMX Assay for Detection of *Chlamydia Trachomatis* and *Neisseria Gonorrhoeae***  
Y. Lim, O. Kweon, M. Lee. *Chung-Ang University, Seoul, Korea, Republic of*
- 
- A-229 Immune Biomarkers Associated with COVID-19 Disease Severity in an Urban, Hospitalized Population**  
A. B. Chambliss<sup>1</sup>, M. Aljehani<sup>2</sup>, B. Tran<sup>2</sup>, X. Chen<sup>2</sup>, E. Elton<sup>2</sup>, C. Garri<sup>2</sup>, N. Ung<sup>2</sup>, N. Matasci<sup>2</sup>, M. E. Gross<sup>2</sup>. <sup>1</sup>University of Southern California, Los Angeles, CA, <sup>2</sup>Lawrence J. Ellison Institute for Transformative Medicine, Los Angeles, CA
- 
- A-231 Prediction of Severe COVID-19 Based on Routine Biomarker Assessment**  
H. Kapoor<sup>1</sup>, C. Bi<sup>1</sup>, A. E. Salm<sup>1</sup>, J. Szymanski<sup>2</sup>, Y. D. Goldstein<sup>2</sup>, L. R. Wolgast<sup>2</sup>, G. Rosenblatt<sup>2</sup>, A. S. Fox<sup>2</sup>, M. H. Kroll<sup>1</sup>. <sup>1</sup>Quest Diagnostics, Secaucus, NJ, <sup>2</sup>Montefiore Medical Center, Bronx, NY
- 
- A-233 Novel Microfluidic System for Antimicrobial Susceptibility Testing**  
S. Bajer-Borstyn, G. Zurawska. *Scope Fluidics SA, Warsaw, Poland*
- 
- A-234 Self-collected Vaginal Swabs for High-Risk HPV Testing in the US: Validation of Pre-Analytical Variables**  
M. Qi<sup>1</sup>, A. J. Duque<sup>2</sup>, T. S. Lorey<sup>2</sup>, A. Naranjo<sup>1</sup>, M. Rummel<sup>1</sup>, J. M. Schapiro<sup>2</sup>, B. J. Suh-Burgmann<sup>3</sup>, D. N. Greene<sup>1</sup>. <sup>1</sup>LetsGetChecked Laboratories, Monrovia, CA, <sup>2</sup>The Permanente Medical Group, Kaiser Permanente Regional Reference Laboratory, Berkeley, CA, <sup>3</sup>The Permanente Medical Group, Department of Research, Oakland, CA
- 
- A-235 Results and Interpretation: Serology Testing Platforms and Assays Compatibility Assessment for MAS™ SARS-CoV-2 IgG Quality Controls**  
H. Wang, N. Krishnaswami, D. Crandall, R. Hu. *Thermo Fisher Scientific, Fremont, CA*
- 
- A-236 Rapid Prediction of Multidrug-resistant *Klebsiella Pneumoniae* Through Deep Learning Analysis of SERS Spectra**  
J. Lyu. *Guangdong Provincial People's Hospital (Guangdong Academy of Medical Sciences), Guangzhou, China*
- 
- A-239 Comparison Between Blood Culture and MeMed BV Test Results**  
A. Zuretti<sup>1</sup>, M. Christian<sup>2</sup>, S. Motov<sup>2</sup>, M. Kogan<sup>2</sup>. <sup>1</sup>suny Downstate, Brooklyn, NY <sup>2</sup>Maimonides Medical Center, Brooklyn, NY

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MICROBIOLOGY & INFECTIOUS DISEASE

- A-240 Rapid and Reliable Identification of Microorganisms from Early Growth of Positive Blood Cultures Using MALDI-TOF Mass Spectrometry**  
B. L. Roemmich, M. L. Yarbrough, K. K. Alvarado. *Washington University in St. Louis, Saint Louis, MO*
- 
- A-241 The Antimicrobial Activity of Small Molecules from a Symbiotic Cyanobacterium *Cyanocohniella* sp. Isolated from the Coralloid Root of *Cycas* Plant**  
R. Gopal<sup>1</sup>, S. R<sup>2</sup>, S. Panuganti<sup>2</sup>, G. Cherian<sup>2</sup>. <sup>1</sup>Saveetha Dental College and Hospital, SIMATS, Chennai, India, <sup>2</sup>Saveetha Medical College and Hospital, Chennai, India
- 
- A-242 Integrating Respiratory Metagenomics and Metatranscriptomics for Diagnosis of Lung Cancer and Infection in Patients With Pulmonary Diseases**  
 D. Han<sup>1</sup>, F. Yu<sup>2</sup>, Y. Chen<sup>2</sup>. <sup>1</sup>The First Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China, Hangzhou, China, <sup>2</sup>the First Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China, Hangzhou, China
- 
- A-243 Fungal Bloodstream Infections Caused By Two Rare Yeasts and Their Molecular Biological Characteristics**  
R. Li, J. Chen, S. Yu, P. Jia, X. Xie, Y. Liu. *Peking Union Medical College Hospital, Beijing, China*
- 
- A-244 Performance Comparison of the Alinity i Hepatitis C Core Antigen Assay in Routine Laboratory Testing vs HCV RNA Testing**  
I. L. Gunsolus<sup>1</sup>, J. Prostko<sup>2</sup>, S. Pearce<sup>2</sup>, B. Degaga<sup>1</sup>, S. Eickstead<sup>1</sup>, S. Thapa<sup>1</sup>, C. Radman<sup>1</sup>, R. Taylor<sup>2</sup>, J. Grieshaber<sup>2</sup>, K. Richard<sup>2</sup>, A. Hoffman<sup>2</sup>, A. Pekalska<sup>2</sup>. <sup>1</sup>HealthPartners, Bloomington, MN, <sup>2</sup>Abbott Diagnostics, Abbott Park, IL
- 
- A-245 Reagent Lot Variation — When Should I be Concerned?**  
G. Vincini, W. Dimech. *NRL, Melbourne, Australia*
- 
- A-246 Desialylation Profiles of Monocytes and Macrophages Upon LPS Stimulation**  
M. A. Aljohani, X. A. Sun, Y. A. Zhao. *Cleveland State University, Cleveland, OH*
- 
- A-247 Jnk/c-jun Pathway Activation is Essential for hbx-induced il-35 Elevation to Promote Persistent hbv Infection**  
X. Li. *The First Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China*
- 
- A-248 Evaluation of NextGene™ MTB/NTM Detection Kit for Detection of *Mycobacterium Tuberculosis* Complex and Nontuberculous Mycobacteria in Sputum and Culture Specimens**  
J. Ahn<sup>1</sup>, D. Kim<sup>1</sup>, W. Lee<sup>2</sup>. <sup>1</sup>Gachon University Gil Medical Center, Incheon, Korea, Republic of, <sup>2</sup>Kyung Hee University Hospital at Gangdong, Seoul, Korea, Republic of
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MICROBIOLOGY & INFECTIOUS DISEASE

- A-249 Theranostic Algorithm: Sensitivity and Specificity of a Composite Index Test For Guiding Treatment in Severe COVID-19**  
N. V. De Vos<sup>1</sup>, M. Bruyneel<sup>2</sup>, C. Duterme<sup>1</sup>, A. Roman<sup>3</sup>, H. Dahma<sup>4</sup>, S. Alard<sup>5</sup>, S. Andre<sup>6</sup>, D. Barglazan<sup>1</sup>, A. Chirumberro<sup>2</sup>, F. Cotton<sup>1</sup>. <sup>1</sup>Department of Clinical Chemistry, Laboratoire Hospitalier Universitaire Bruxelles – Universitair Laboratorium Brussel (LHUB-ULB), Université Libre de Bruxelles, Brussels, Belgium, <sup>2</sup>Department of Pulmonology, CHU Saint-Pierre, Brussels, Belgium and Université Libre de Bruxelles, Brussels, Belgium, <sup>3</sup>Department of Intensive Care Medicine, CHU Saint-Pierre, Brussels, Belgium and Université Libre de Bruxelles, Brussels, Belgium, <sup>4</sup>Department of Microbiology, Laboratoire Hospitalier Universitaire Bruxelles – Universitair Laboratorium Brussel (LHUB-ULB), Université Libre de Bruxelles, Brussels, Belgium, <sup>5</sup>Department of Radiology, CHU Saint-Pierre, Brussels, Belgium and Université Libre de Bruxelles, Brussels, Belgium, <sup>6</sup>Department of Pulmonology, CHU Brugmann, Brussels, Belgium and Université Libre de Bruxelles, Brussels, Belgium
- 
- A-250 Rapid Molecular Identification of Herpes Simplex, Varicella-Zoster, and Enteroviruses From Cerebrospinal Fluid**  
 J. Bialas<sup>1</sup>, L. Joki<sup>2</sup>, M. Hermanowski<sup>1</sup>, K. Brea-Sellheim<sup>1</sup>, H. Leibhan<sup>1</sup>, M. Jacobs<sup>3</sup>, M. Lång<sup>4</sup>, J. Vainio<sup>2</sup>, J. Martelin<sup>2</sup>. <sup>1</sup>Labor Berlin - Charité Vivantes Services GmbH, Berlin, Germany, <sup>2</sup>Uniogen, Turku, Finland, <sup>3</sup>Klinikum der Stadt Ludwigshafen am Rhein GmbH, Ludwigshafen, Germany, <sup>4</sup>Department of Clinical Microbiology, Fimlab Laboratories, Tampere, Finland
- 
- A-251 Comparison of Antimicrobial Susceptibility Profiles of Enterobacteriaceae spp. Isolates from Retail Meat Products Imported from USA and Brazil or Domestically Produced on Caribbean Islands of St. Kitts and Grenada**  
T. Luthra, K. Varghese, A. Martens, O. Fakayode, J. Harrington. St. George's University, St. George's, Grenada
- 
- A-252 Differentiation of SARS-CoV-2, Influenza A and B, and Respiratory Syncytial Virus Using a Single Swab: A Clinical Performance Evaluation of the BD MAX System Multiplex PCR Assay**  
M. Faron<sup>1</sup>, N. Ledebore<sup>2</sup>, B. Van Der Pol<sup>3</sup>, T. Davis<sup>4</sup>, E. Lockamy<sup>5</sup>, S. Paradis<sup>5</sup>, J. Andrews<sup>5</sup>. <sup>1</sup>the Medical College of Wisconsin, Milwaukee, WI, <sup>2</sup>The Medical College of Wisconsin, Milwaukee, WI, <sup>3</sup>University of Alabama, Birmingham, AL, <sup>4</sup>Sidney and Lois Eskenazi Hospital, Indianapolis, IN, <sup>5</sup>Becton, Dickinson and Company, Sparks, MD
- 
- A-253 Overcoming Pre-Analytical and Analytical Challenges Associated with Home Collected STI Specimens**  
B. Hockman<sup>1</sup>, M. Qi<sup>1</sup>, H. Rotblatt<sup>2</sup>, L. Borenstein<sup>3</sup>, S. Rajagopalan<sup>3</sup>, D. N. Greene<sup>4</sup>. <sup>1</sup>LetsGetChecked, Monrovia, CA, <sup>2</sup>Los Angeles County Department of Public Health Division of HIV and STI Programs, Los Angeles, CA, <sup>3</sup>Los Angeles County Department of Public Health Laboratory Division of Serology, Virology, & Molecular Diagnostics, Los Angeles, CA, <sup>4</sup>LetsGetChecked Laboratories, Monrovia, CA
- 
- A-255 Prevalence of Salmonella spp. and Comparison of Isolate Antimicrobial Susceptibility Profiles from Chicken Meat Products and of Isolates from Caribbean and North American Origins**  
A. A. Martens<sup>1</sup>, O. Fakayode<sup>2</sup>, K. Varghese<sup>2</sup>, T. Luthra<sup>2</sup>, J. Harrington<sup>2</sup>. <sup>1</sup>Saint George University, True Blue, Grenada, <sup>2</sup>St. George's University, True Blue, Grenada
- 
- A-256 Clinical Performance of Presepsin for Sepsis in the Emergency Department Patients in a Tertiary Hospital in Korea**  
E. Ji, S. Lee. Pusan National University Yangsan Hospital, Yangsan, Korea, Republic of
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MICROBIOLOGY & INFECTIOUS DISEASE

- A-257 Association Between Matrix Metalloproteinase-3 and its Post-Transcriptional Regulator miR-17-5p in the Pathogenesis of Tuberculous Meningitis Patients**  
A. Aggarwal<sup>1</sup>, S. R. Sharma<sup>2</sup>, M. Modi<sup>3</sup>, K. Sharma<sup>2</sup>, I. Verma<sup>2</sup>, N. Singla<sup>3</sup>, M. Konar<sup>2</sup>, M. Kaur<sup>2</sup>, K. Sharma<sup>2</sup>. <sup>1</sup>Post Graduate Institute of Medical Education and research, Chandigarh, India, <sup>2</sup>Post graduate institute of medical education and research, Chandigarh, India, <sup>3</sup>Post Graduate Institute of Medical Education and Research, Chandigarh, India
- 
- A-259 Detecting Human RNase P Gene Prevents False-Negative of SARS-CoV-2**  
F. Chuang. Chiayi Chang Gung Memorial Hospital, Puzi City, Chiayi County, Taiwan
- 
- A-261 Isolation of Extended-Spectrum Beta Lactam Resistant *Klebsiella Pneumoniae* from Poultry and Pork Products, Originating from St. Kitts and Grenada or Imported from USA**  
K. Varghese<sup>1</sup>, A. Martens<sup>2</sup>, T. Luthra<sup>2</sup>, O. Fakayode<sup>2</sup>, J. Harrington<sup>2</sup>. <sup>1</sup>St George's University, St. George - True Blue, Grenada, <sup>2</sup>St. George's University, St. George - True Blue, Grenada
- 
- A-262 Analytical and Clinical Validation of a Multiplex RT-PCR based Mpox Assay**  
P. Upadhyay<sup>1</sup>, J. Reddy<sup>1</sup>, V. Singh<sup>2</sup>. <sup>1</sup>HealthTrackRX, Denton, TX, <sup>2</sup>HealthtrackRX, Denton, TX
- 
- A-263 Prevalence and Antimicrobial Susceptibility Profiles of Escherichia Coli Isolated from Retail Meat Products Imported from USA and Domestically Produced on Caribbean Islands of St. Kitts and Grenada**  
O. O. Fakayode, A. Martens, K. Varghese, T. Luthra, J. Harrington. St. George's University School Of Medicine, St. George's, Grenada
- 
- A-264 Comparison of the ZEUS Scientific Lyme Assays to the DiaSorin Liaison Lyme Assays Using a Modified Two-Tiered Testing Algorithm for Lyme Disease**  
M. E. Walsh, D. J. Sietsma, I. W. Martin, L. A. Brunelle. DHMC, Lebanon, NH
- 
- A-265 Disparities Among SARS-CoV-2 Antibody Positivity in Healthcare Workers**  
K. E. Mullins, R. Christenson. University of Maryland School of Medicine, Baltimore, MD
- 
- A-266 Evaluation of an Antibody Index Assay for Assessment of Intrathecal Anti-*Treponema pallidum* IgG Synthesis for the Diagnosis of Neurosyphilis**  
D. Granger, E. S. Theel. Mayo Clinic, Rochester, MN
- 
- A-267 Evaluation of the Quidel Sofia 2 Rapid Lyme Test in a Modified Two-tier Testing Protocol**  
K. Lewandrowski, J. Branda, S. Turbett, E. Lee-lewandrowski. MGH, Boston, MA
- 
- A-268 Evaluation of a Real-Time Multiplex PCR Assay for Simultaneous Detection of *Chlamydia Trachomatis*, *Neisseria Gonorrhoeae*, and *Trichomonas Vaginalis* in Urine Specimens**  
L. Branson, D. Southard, A. Jaime, W. Katrangi, R. Alturkmani. Labtech Diagnostics, San Antonio, TX
- 
- A-269 Post-pandemic Opportunities for Commercial Laboratories in Infectious Disease Diagnostics and Public Health**  
D. Nall, X. Thacker, B. Sengsouk, M. Hardison, C. Clark. Aegis Sciences Corporation, Nashville, TN
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MICROBIOLOGY & INFECTIOUS DISEASE

- A-271 Verification of a Multiplexed STI Pathogen Microarray Test with Saliva Collected with SDNA-1000 Kit**  
C. R. Quinter<sup>1</sup>, J. Serrett<sup>1</sup>, M. M. Jensen<sup>2</sup>, D. Vigerust<sup>3</sup>, R. Gupta<sup>3</sup>, J. Peek<sup>4</sup>. <sup>1</sup>Alimetric, Huntsville, AL, <sup>2</sup>Spectrum Solutions, Inc., Draper, UT, <sup>3</sup>Spectrum Solutions, LLC., Draper, UT, <sup>4</sup>Microarray, Inc., Huntsville, AL
- 
- A-272 Challenges in Designing an Antibiotic Gene Resistance Panel for Clinical Use**  
L. Dedhia. Accureference Medical Lab, Linden, NJ
- 
- A-273 Multicenter Assessment of the Accuracy of MIC Results for Piperacillin/Tazobactam with MicroScan Dried Gram-negative MIC Panels Using CLSI Breakpoints**  
A. Chipman<sup>1</sup>, G. Omai<sup>2</sup>, A. Harrington<sup>3</sup>, M. Traczewski<sup>4</sup>, S. DesJarlais<sup>3</sup>, D. Beasley<sup>4</sup>, J. Diaz<sup>1</sup>, R. Brookman<sup>1</sup>, C. Haste<sup>1</sup>, J. Chau<sup>1</sup>. <sup>1</sup>Beckman Coulter Microbiology, West Sacramento, CA, CA, <sup>2</sup>UCLA David Geffen School of Medicine, Los Angeles, CA, <sup>3</sup>Loyola University & Medical Center, Maywood, IL, <sup>4</sup>Clinical Microbiology Institute, Wilsonville, OR
- 
- A-274 Validation of Cefepime-Taniborbactam MIC Antimicrobial Susceptibility Test or MicroScan Dried Gram-Negative MIC Panels from a Multicenter Assessment of Enterobacterales and *Pseudomonas Aeruginosa***  
O. Garner<sup>1</sup>, A. Harrington<sup>2</sup>, C. Emery<sup>3</sup>, S. DesJarlais<sup>2</sup>, J. Diaz<sup>4</sup>, A. Chipman<sup>4</sup>, C. Haste<sup>4</sup>. <sup>1</sup>UCLA David Geffen School of Medicine, Los Angeles, CA, <sup>2</sup>Loyola University & Medical Center, Maywood, IL, <sup>3</sup>Indiana University School of Medicine, Indianapolis, IN, <sup>4</sup>Beckman Coulter Microbiology, West Sacramento, CA
- 
- A-275 Clinical Evaluation of SMARTCHEK<sup>®</sup> SARS-CoV-2 Detection Kit and SMARTCHEK<sup>®</sup> SARS-CoV-2 Fast Detection Kit for Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in Nasopharyngeal Swabs**  
J. Ahn<sup>1</sup>, W. Lee<sup>2</sup>, S. Yoon<sup>3</sup>, S. Cho<sup>4</sup>. <sup>1</sup>Gachon University College of Medicine, Incheon, Korea, Republic of, <sup>2</sup>School of Medicine, Kyung Hee University, Seoul, Korea, Republic of, <sup>3</sup>Korea University College of Medicine, Seoul, Korea, Republic of, <sup>4</sup>Ajou University School of Medicine, Suwon, Korea, Republic of
- 
- A-276 Clinical Performance Evaluation of SMARTCHEK<sup>®</sup> SARS-CoV-2 Detection Kit and SMARTCHEK<sup>®</sup> SARS-CoV-2 Fast Detection Kit for Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in Saliva**  
S. Park, J. Yoo, S. Cho. Ajou University School of Medicine, Suwon, Korea, Republic of
- 
- A-277 Health Economic Impact of Use of GCAL Calprotectin Immunoassay for Early Detection of Infection in Intensive Care Patients**  
M. Jaquemar<sup>1</sup>, A. Larsson<sup>2</sup>, A. Havelka<sup>1</sup>. <sup>1</sup>Gentian AS, Moss, Norway, <sup>2</sup>Department of Medical Sciences, Clinical Chemistry, Akademiska University Hospital, Uppsala, Sweden
- 
- A-278 Development and Validation of Platform Independent, Turbidimetric Sars-CoV-2 Total Antibody Assay**  
M. Jaquemar<sup>1</sup>, T. Nilsen<sup>1</sup>, A. Safdari<sup>1</sup>, A. Haukebo<sup>1</sup>, E. Trosten<sup>1</sup>, A. Havelka<sup>1</sup>, Ø. Olsvik<sup>2</sup>. <sup>1</sup>Gentian AS, Moss, Norway, <sup>2</sup>Department of Medical Microbiology, Faculty of Medicine, UiT Norwegian Arctic University, Tromsø, Norway
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MICROBIOLOGY & INFECTIOUS DISEASE

- A-279 Comparison of Direct Identification and Short Incubation Time Methods of MALDI-TOF MS from Positive Blood Vials**  
*S. Kuo<sup>1</sup>, L. Pan<sup>1</sup>, H. You<sup>2</sup>. <sup>1</sup>Chiayi Chang Gung Memorial Hospital, Chiayi, Taiwan, <sup>2</sup>Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan*
- 
- A-280 Impact of 2022 CLSI Revised Piperacillin/Tazobactam Clinical Breakpoints on Enterobacterales Isolates Identified at a Tertiary Medical Center in Southern Taiwan**  
*S. Kuo. Chiayi Chang Gung Memorial Hospital, Chiayi, Taiwan*
- 
- A-281 Analysis of Concurrent HBV Surface Antigen and HBV DNA Test Results**  
*G. W. Pratt, L. V. Rao. Quest Diagnostics, Marlborough, MA*
- 
- A-282 Coinfection Rates of SARS-CoV-2, Influenza, and Respiratory Syncytial Virus**  
*G. W. Pratt, M. Platt, C. Wong, L. V. Rao. Quest Diagnostics, Marlborough, MA*
- 
- A-285 Performance Evaluation of LIAISON® QuantiFERON®-TB Gold Plus Assay and its Use in Long-Term Care Facilities**  
*R. Khoury, A. Gandhi, D. Gudaitis, P. Gudaitis. Aculabs, Inc, East Brunswick, NJ*
- 
- A-286 Performance Evaluation of Molecular Clostridium Difficile Assay Using BD Max™ System**  
*R. Khoury, P. Patel, A. Gandhi, D. Gudaitis, P. Gudaitis. Aculabs, Inc, East Brunswick, NJ*
- 
- A-287 Evaluation of Urinalysis Reflex to Culture in Long-Term Care Facilities: Is it Worth it?**  
*R. Khoury, A. Gandhi, P. Patel, D. Gudaitis, P. Gudaitis. Aculabs, Inc, East Brunswick, NJ*
- 
- A-288 Molecular Detection of Mycobacterium Tuberculosis in Pulmonary and Extra-pulmonary Samples — Data from a Brazilian Clinical Laboratory**  
*J. M. Nurmberger, G. C. de Carvalho, B. B. Perez, M. N. Santos, D. R. Ramadan, S. Tufik. Associação Fundo de Incentivo a Pesquisa (Afip - Medicina Diagnóstica), São Paulo, Brazil*
- 
- A-289 Emergence of Unusual Non-fermentative Gram-negative Bacilli Associated to COVID-19 Period at Brazilian Hospitals**  
*J. M. Nurmberger, F. M. Inoue, A. T. Lobo, D. R. Ramadan, S. Tufik. Associação Fundo de Incentivo a Pesquisa (Afip - Medicina Diagnóstica), São Paulo, Brazil*
- 
- A-290 Evaluation of a Commercial Turbidity Monitoring System Followed By Mass Spectrometry to Rapid Identification of Microorganisms from Urine Samples**  
*J. M. Nurmberger, F. M. Inoue, A. T. Lobo, D. R. Ramadan, S. Tufik. Associação Fundo de Incentivo a Pesquisa (Afip - Medicina Diagnóstica), São Paulo, Brazil*
- 
- A-291 Deep Study of the Accuracy of Two Commercial Real-Time PCR Assays: A Retrospective Approach in Polish Population**  
*J. Sánchez-Sánchez<sup>1</sup>, M. Litwin<sup>2</sup>, A. Jańska<sup>2</sup>, A. Kuzan<sup>3</sup>, & Madej<sup>4</sup>, K. Zmijewska<sup>2</sup>, & Fuławka<sup>2</sup>. <sup>1</sup>Vitassay Healthcare SLU, Huesca, Spain, <sup>2</sup>Molecular Pathology Centre Cellgen, Wrocław, Poland, <sup>3</sup>Molecular Pathology Centre Cellgen and Department of Biochemistry and Immunochemistry, Wrocław Medical University, Wrocław, Poland, <sup>4</sup>Molecular Pathology Centre Cellgen and Collegium Medicum, Jan Kochanowski University, Wrocław and Kielce, Poland*
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MICROBIOLOGY & INFECTIOUS DISEASE

**A-292 The Use of Third-Party Controls During Covid-19 Pandemic: An Alternative to the Lack of Other Respiratory Infections**

*J. Sánchez-Sánchez. Vitassay Healthcare SLU, Huesca, Spain*

**A-293 Assessment of the Detection of Gastrointestinal Viruses Using Two Commercial Real-Time PCR Assays**

*J. Sánchez-Sánchez<sup>1</sup>, C. Fuentes<sup>2</sup>, A. Arrebola<sup>2</sup>, M. Costafreda<sup>2</sup>, A. Bosch<sup>2</sup>, R. M. Pintó<sup>2</sup>, S. Guix<sup>2</sup>. <sup>1</sup>Vitassay School of Pharmacy, University of Kent, Kent, United Kingdom, <sup>2</sup>Enteric Virus Laboratory, Department of Genetics, Microbiology and Statistics, Faculty of Biology, University of Barcelona /Research Institute of Nutrition and Food Safety, University of Barcelona (INSA-UB), Barcelona/Santa Coloma de Gramenet, Spain*

**A-294 Duplicate Testing of Samples Suspected of SARS-CoV-2 Infection Could Prevent Misdiagnosis of Covid-19**

*J. Sánchez-Sánchez<sup>1</sup>, G. Thapa<sup>2</sup>, A. Mylona<sup>3</sup>, R. Vuono<sup>2</sup>. <sup>1</sup>Vitassay Healthcare SLU, Huesca, Spain, <sup>2</sup>Medway School of Pharmacy, University of Kent, Kent, United Kingdom, <sup>3</sup>Kent and Medway Medical School, Canterbury Christ Church University and University of Kent, Kent, United Kingdom*

**A-295 Validation of Two New Real Time PCR Assays for the Detection and Differentiation of Plasmodium**

*P. Cisteró<sup>1</sup>, E. Franco-Marín<sup>2</sup>, B. Dehesa-García<sup>2</sup>, B. García-Manrique<sup>2</sup>, H. Alonso<sup>3</sup>, G. Matambisso<sup>4</sup>, H. Mbeve<sup>4</sup>, N. Ndimande<sup>4</sup>, A. Mayor<sup>1</sup>. <sup>1</sup>Instituto Salud Global (ISGlobal), Barcelona, Spain, <sup>2</sup>CerTest Biotec, San Mateo de Gállego, Spain, <sup>3</sup>Department of Microbiology, Paediatrics, Radiology, and Public Health, Faculty of Medicine, University of Zaragoza, Zaragoza, Spain, <sup>4</sup>Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique*

**A-296 Validation of a Real Time PCR Kit for the Detection and Differentiation of MRSA, MSSA and MRCoNS in Respiratory Clinical Samples**

*E. Franco-Marín<sup>1</sup>, B. Dehesa-García<sup>1</sup>, C. Escolar<sup>1</sup>, B. García-Manrique<sup>1</sup>, R. Cebollada<sup>2</sup>, M. Monforte-Cirac<sup>2</sup>, M. Millán-Lou<sup>2</sup>, H. Alonso<sup>1</sup>, C. Aspiroz-Sancho<sup>2</sup>. <sup>1</sup>CerTest Biotec, San Mateo de Gállego, Spain, <sup>2</sup>Sección de Microbiología, Hospital Royo Villanova, Zaragoza, Spain*

**A-297 Usefulness of Non-Skin Samples in the PCR Diagnosis of Monkeypox**

*S. Algarate<sup>1</sup>, J. Bueno<sup>1</sup>, M. J. Crusells<sup>1</sup>, M. Ara<sup>1</sup>, B. Dehesa-García<sup>2</sup>, B. García-Manrique<sup>3</sup>, H. Alonso<sup>3</sup>, E. Alvarado<sup>1</sup>, M. Ducons<sup>1</sup>, S. Arnal<sup>1</sup>, M. Riesgo<sup>1</sup>, R. Benito<sup>1</sup>. <sup>1</sup>Hospital Clínico Universitario Lozano Blesa, Zaragoza, Spain, <sup>2</sup>CerTest Biotec, Zaragoza, Spain, <sup>3</sup>CerTest Biotec, San Mateo de Gállego, Spain*

**A-298 Performance Analysis of Three Mpox Real Time PCR Kits With Lesion Swab Clinical Samples**

*M. Peris<sup>1</sup>, E. Franco-Marín<sup>2</sup>, B. Dehesa-García<sup>2</sup>, B. García-Manrique<sup>2</sup>, H. Alonso<sup>2</sup>. <sup>1</sup>Instituto de Investigaciones Sanitarias de Aragón (IISA), Zaragoza, Spain, <sup>2</sup>CerTest Biotec, San Mateo de Gállego, Spain*

**A-299 Clinical Performance Validation of 7 qPCR Kits for the Specific Diagnosis of 5 Enteric Viruses in Clinical Stool Samples**

*M. Costafreda<sup>1</sup>, A. Bosch<sup>1</sup>, R. M. Pintó<sup>1</sup>, B. Dehesa-García<sup>2</sup>, B. García-Manrique<sup>2</sup>, H. Alonso<sup>2</sup>, S. Guix<sup>1</sup>. <sup>1</sup>Grupo de Virus Entéricos, Departamento de Genética, Microbiología y Estadística, Facultad de Biología, Universidad de Barcelona, Barcelona, Spain, <sup>2</sup>CerTest Biotec, San Mateo de Gállego, Spain*

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MICROBIOLOGY & INFECTIOUS DISEASE

- A-300 Evaluation of Different Storage Conditions of Nasopharyngeal Swabs for the Detection of Influenza A, Influenza B and RSV**  
M. Martínez-Santolaria<sup>1</sup>, C. Sota-Diez<sup>2</sup>, B. Garcia-Manrique<sup>2</sup>, E. Machetti-Mareca<sup>2</sup>. <sup>1</sup>Facultad de Ciencias, Universidad de Zaragoza, Zaragoza, Spain, <sup>2</sup>CerTest Biotec, San Mateo de Gállego, Spain
- 
- A-301 Analytical and Clinical Performance of the Molecular Method for Monkeypox Virus Detection**  
J. D. Silva, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- A-302 Agreement Assessment Between Molecular and Rapid Tests in Respiratory Viruses Detection**  
L. A. Martins, R. S. Domingues, J. d. Silva, D. A. Zauli, A. B. de Lima. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- A-303 Validation of a Quantitative and Qualitative Molecular Test for the Detection of Epstein-Barr Virus by Real-time qPCR**  
C. P. Mendonça, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- A-304 A RT-PCR Assay for Detection and Quantification of Hepatitis D Virus (HDV)**  
J. D. Silva, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- A-305 Evaluation of the Analytical Performance of Rapid Tests to Detect Arboviruses Antibodies Intended for Point-of-care Screening**  
R. S. Domingues, L. A. Martins, D. A. Zauli, A. B. de Lima, J. d. Silva. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- A-306 Standardization of Automated Methodology for Qualitative Molecular Detection of HIV-1 in Dried Blood Spots (DBS)**  
C. P. Mendonça, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- A-307 Spread Dynamic of SARS-CoV-2 Variants and Related Alterations in Transmission Rates: A National Scale Study**  
J. D. Silva<sup>1</sup>, A. B. de Lima<sup>1</sup>, L. B. Alvim<sup>1</sup>, F. S. Malta<sup>1</sup>, C. P. Mendonça<sup>1</sup>, P. L. Fonseca<sup>2</sup>, R. P. de Souza<sup>2</sup>, R. S. de Aguiar<sup>2</sup>, D. A. Zauli<sup>1</sup>. <sup>1</sup>Instituto Hermes Pardini, Vespasiano, Brazil, <sup>2</sup>Universidade Federal de Minas Gerais, Belo Horizonte, Brazil
- 
- A-308 The Molecular Diagnosis of Varicella Zoster Virus (VZV): A Validation of a Real-Time PCR (qPCR) Assay for the Qualitative Detection**  
C. P. Mendonça, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- A-309 Challenging Diagnostic of Neurosyphilis: Use of CXCL13 Concentration in Cerebrospinal Fluid**  
R. d. Carvalho<sup>1</sup>, I. d. Rangel<sup>1</sup>, N. B. Bacarov<sup>2</sup>, M. M. Soane<sup>2</sup>, V. Herbst<sup>3</sup>, F. d. Ferry<sup>1</sup>. <sup>1</sup>Hospital Universitário Gaffrée e Guinle, Rio de Janeiro, Brazil, <sup>2</sup>EUROIMMUN Brazil, São Caetano do Sul, Brazil, <sup>3</sup>EUROIMMUN AG, Lubeck, Germany
-



## SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

### PEDIATRIC & MATERNAL FETAL MEDICINE

- A-310 Infections Associated With Infertility and Success of In Vitro Fertilization**  
 N. B. Bacaroy<sup>1</sup>, A. V. Nunes<sup>2</sup>, R. Dias<sup>1</sup>, C. Resende<sup>1</sup>, L. Garcia<sup>1</sup>, C. Barbosa<sup>3</sup>, M. Soane<sup>1</sup>, D. Christofolini<sup>2</sup>. <sup>1</sup>EUROIMMUN Brazil, São Caetano do Sul, Brazil, <sup>2</sup>Centro Universitário Faculdade de Medicina do ABC (FMABC), Santo André, Brazil, <sup>3</sup>Centro Universitário Faculdade de Medicina do ABC (FMABC), São Paulo, Brazil
- 
- A-312 Segregation in Two Families of the PCDH19 Gene Deletion Associated With Infantile Epileptic Encephalopathy of X-Linked Inheritance and Expression in Female Carriers**  
 M. Bellido Diaz<sup>1</sup>, T. De Haro Romero<sup>2</sup>, T. Gonzalez<sup>2</sup>, T. De Haro<sup>2</sup>. <sup>1</sup>hospital Universitario Virgen De Las Nieves, Granada, Spain, <sup>2</sup>hospital Universitario Clinico San Cecilio, Granada, Spain
- 
- A-314 Comparison of Calibrated Calculated Osmolality to Measured Osmolality by Different Equations: A Study Using Pediatric Specimens**  
 U. C. Garg<sup>1</sup>, A. Wiebold<sup>1</sup>, M. Knoll<sup>1</sup>, R. McDonough<sup>1</sup>, D. F. Stickle<sup>2</sup>, A. M. Ferguson<sup>1</sup>. <sup>1</sup>Children's Mercy Hospital, Kansas City, MO, <sup>2</sup>Jefferson University Hospital, Philadelphia, PA
- 
- A-315 Pregnant Women Showed Lower Incidence Rates of False-positive Treponemal Antibody Screening Results When Compared with Nonpregnant Women and Men at an Appalachian Academic Medical Center**  
 J. Yang, D. Tacker. West Virginia University, Morgantown, WV
- 
- A-316 Suboptimal Compliance to Postpartum Glucose Monitoring in a High-risk Pregnancy Population — A Single Center Study**  
 L. Olayinka, K. Fox, K. M. Aagaard, S. Devaraj. Baylor College of Medicine/Texas Childrens Hospital, Houston, TX
- 
- A-317 Effects of Elevated Serum Homocysteine Levels During Pregnancy on Neural Development and its Molecular Mechanism**  
 X. LIU, J. MAI. West China Second University Hospital, Chengdu, China
- 
- A-318 Pseudo-hypertriglyceridemia in a 2-year-old Male with Global Developmental Delay, Myopathy and Adrenal Hypoplasia**  
 X. R. Fu, C. P. Williamson, K. P. Bosfield. University of Tennessee Health Science Center, Memphis, TN
- 
- A-319 Clinical Utility of Procalcitonin and C-reactive Protein in the Management of Neonatal Sepsis in a Resources Limited Setting**  
 A. K. Jimoh<sup>1</sup>, O. Bolaji<sup>2</sup>, M. Ghazali<sup>1</sup>, A. Adelekan<sup>1</sup>, A. Adeleke<sup>3</sup>, T. Oyekale<sup>4</sup>, L. Olubunmi<sup>2</sup>, W. Ajetunmbi<sup>2</sup>. <sup>1</sup>Department of Chemical Pathology, Afe Babalola University, Ado-Ekiti, Ado-Ekiti, Nigeria, <sup>2</sup>Department of Pediatrics, Afe Babalola University, Ado-Ekiti, Ado-Ekiti, Nigeria, <sup>3</sup>Department of Chemical Pathology, Federal Teaching Hospital, Ido-Ekiti, Ido-Ekiti, Nigeria, <sup>4</sup>Department of Medical Microbiology, Afe Babalola University, Ado-Ekiti, Ado-Ekiti, Nigeria
- 
- A-320 Validation of a Multi-Analyte Immunoassay for Distinguishing Bacterial Versus Viral Infections in a Pediatric Cohort**  
 A. Chokkalla<sup>1</sup>, E. Tam<sup>2</sup>, R. Liang<sup>2</sup>, A. Cruz<sup>1</sup>, S. Devaraj<sup>1</sup>. <sup>1</sup>Baylor College of Medicine/Texas Children's Hospital, Houston, TX, <sup>2</sup>Texas Children's Hospital, Houston, TX

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## PEDIATRIC & MATERNAL FETAL MEDICINE

- A-322 Implementation of Three Age- and Sex-Dependent Equations to Estimate Glomerular Filtration Rates (eGFR) at a Pediatric Institution**  
A. Ferguson, A. Wiebold, D. Weidemann, B. Warady, U. Garg. *Children's Mercy, Kansas City, MO*
- 
- A-323 Pre-analytic Interference in PT and PTT Measurement Using Mechanical vs. Optical Clot Detection**  
D. A. Maciak<sup>1</sup>, D. J. Dietzen<sup>2</sup>. <sup>1</sup>St. Louis Children's Hospital, St. Louis, MO, <sup>2</sup>Washington University School of Medicine, St. Louis, MO
- 
- A-324 Incorporating the Screening for Congenital Cytomegalovirus Into a Newborn Genetic Testing Performed on Saliva Swab: An Intersection Between Human Genetics and Infectious Diseases**  
J. Arancibia, A. Coqueiro, I. Sgardoli, A. Lamas, P. Mesquita, R. Benício, N. Pessoa, A. Andrade, G. Martins, R. Jácomo, L. Nery, G. Barra. *Sabin diagnóstico e saúde, Brasília, Brazil*
- 
- A-325 Oral Signs of Metabolic Bone Disease in Pakistani Children with Transfusion-Dependent Thalassemia (TDT)**  
A. Jameel Farooqui, S. Raza Kazmi, L. Jafri, B. Moiz, A. Habib Khan. *Aga Khan University Hospital, Karachi, Pakistan*
- 
- A-326 Argininosuccinic Acid — Is it Routinely Detectable in the Urine of Healthy Individuals?**  
K. M. Karger<sup>1</sup>, G. Ogilvie<sup>2</sup>, M. Y. Tsai<sup>1</sup>. <sup>1</sup>University of Minnesota, Minneapolis, MN, <sup>2</sup>MHealth Fairview, Minneapolis, MN
- 
- A-327 Pre-analytical and Analytical Modifications to Improve the Quality of Pediatric Lead Tests**  
J. Nassif, J. Liebreich, K. Granger. *Association of Public Health Laboratories, Silver Spring, MD*
- 
- A-328 Urine Toxicology Screening: Tetrahydrocannabinol Positivity Patterns at an U.S. Urban Tertiary Care Children's Hospital**  
D. M. Unsihuay Vila<sup>1</sup>, I. Poventud-Fuentes<sup>2</sup>, K. Osterhoudt<sup>3</sup>, K. Patel<sup>2</sup>. <sup>1</sup>University of Pennsylvania, Philadelphia, PA, <sup>2</sup>Children's Hospital of Philadelphia, Philadelphia, PA, <sup>3</sup>Children's Hospital of Philadelphia, Philadelphia, PA
- 
- A-329 Preliminary Clinical Method Comparison of a Near-Patient Platform for Low Blood Volume Testing of aFXa in Pediatric Patients on Heparin Therapy**  
A. Aljudi<sup>1</sup>, W. Lam<sup>1</sup>, R. Sista<sup>2</sup>, V. Pamula<sup>2</sup>, B. Rogers<sup>1</sup>. <sup>1</sup>Children's Healthcare of Atlanta, Atlanta, GA, <sup>2</sup>Baebies, Inc, Durham, NC
- 
- A-330 Trending Treatment of Transplant-associated Thrombotic Microangiopathy (TMA): Validation and Performance of Soluble C5b-9 on the Dynex DS2 Platform**  
R. J. Wilson<sup>1</sup>, L. M. Johnson<sup>2</sup>, M. Bhandari<sup>2</sup>, J. A. Dickerson<sup>2</sup>. <sup>1</sup>University of Washington, Seattle, WA, <sup>2</sup>Seattle Children's Hospital, Seattle, WA
- 
- A-331 Prenatal Maternal First Trimester Screening and Establishing the Multiple of Medians of Double Marker Tests in Tertiary Care Hospital in India**  
B. Das<sup>1</sup>, P. M. Pal<sup>1</sup>, N. S. Mehtalia<sup>1</sup>, V. Joshi<sup>1</sup>, M. P. Gade<sup>1</sup>, N. Pawar<sup>2</sup>. <sup>1</sup>Kokilaben Dhirubhai Ambani Hospital and Medical Research Institute, Mumbai, India, <sup>2</sup>Kokilaben Dhirubhai Ambani Hospital & Medical Research Institute, Mumbai, India
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## PEDIATRIC & MATERNAL FETAL MEDICINE

- A-332 Sweat Rate Does Not Influence Sweat Chloride Concentration**  
 C. Omosule<sup>1</sup>, S. Roper<sup>2</sup>. <sup>1</sup>Washington University School of Medicine, St. Louis, MO, <sup>2</sup>Washington University School of Medicine, St. Louis, MO
- 
- A-333 Unusually Low Glycated Albumin Results Suggest Unexpected Interference in Study Samples from Pregnant Women**  
 J. Powers Carson<sup>1</sup>, A. Shin<sup>2</sup>, K. Kabytaev<sup>2</sup>. <sup>1</sup>Washington University in Saint Louis, Saint Louis, MO, <sup>2</sup>University of Missouri, Columbia, MO
- 
- A-334 Investigation on Use of NHANES Data to Develop Continuous Pediatric Reference Intervals — Pilot Study with Hemoglobin**  
 A. N. Lyle, L. J. Akinbami, T. Chen, F. Pokuah, B. K. Kit, H. W. Vesper. Centers for Disease Control and Prevention, Atlanta, GA
- 
- A-335 Pediatric Cortisol Reference Intervals (RI): Impact of Age-Specific RI on the Rate of Abnormal “Low” Cortisol Results**  
 B. D. Andress, D. R. Block, N. A. Baumann. Mayo Clinic, Rochester, MN
- 
- A-336 Comparison Between the Immune Profile of Pregnant and Postpartum Women With and Without COVID-19 by Flow Cytometry**  
 M. L. Machado<sup>1</sup>, A. T. de Souza<sup>2</sup>, S. E. Silva<sup>3</sup>, A. L. Fonseca<sup>4</sup>, J. D. Camargo<sup>5</sup>, A. J. Vale<sup>4</sup>, E. P. Azevedo<sup>6</sup>, G. H. Oliveira<sup>7</sup>, A. D. Luchessi<sup>8</sup>, G. B. Junior<sup>9</sup>, V. N. Silbiger<sup>8</sup>, R. N. Cobucci<sup>1</sup>.  
<sup>1</sup>Post-Graduate Program in Sciences Applied to Women’s Health, Maternidade Escola Januário Cicco (MEJC/EBSERH), Federal University of Rio Grande do Norte, Natal, Brazil, <sup>2</sup>Department of Pharmacy, Health Sciences Center, Federal University of Rio Grande do Norte, Natal, Brazil, <sup>3</sup>Biosciences Center, Federal University of Rio Grande do Norte, Natal, Brazil, <sup>4</sup>Department of Medicine, Health Sciences Center, Federal University of Rio Grande do Norte, Natal, Brazil, <sup>5</sup>Maternidade Escola Januário Cicco (MEJC/EBSERH), Federal University of Rio Grande do Norte,, Natal, Brazil, <sup>6</sup>Biotechnology Graduate Program, Potiguar University,, Natal, Brazil, <sup>7</sup>Flow Cytometry Laboratory, Hemocentro do Rio Grande do Norte Dalton Cunha (Hemonorte), Natal, Brazil, <sup>8</sup>Department of Clinical and Toxicological Analyses, Federal University of Rio Grande do Norte, Natal, Brazil, <sup>9</sup>Laboratory of Immunology, Department of Clinical and Toxicological Analysis, Center for Health Sciences, Universidade Federal do Rio Grande do Norte, Natal, Brazil
- 
- A-337 Study of the Relationship Between the Variant dup 4q26 and Autism Spectrum Disorder**  
 B. B. Perez<sup>1</sup>, M. V. dos Santos<sup>1</sup>, H. R. Oliveira Jr<sup>1</sup>, D. R. Ramadan<sup>1</sup>, S. Tufik<sup>1</sup>, M. C. Feres<sup>2</sup>.  
<sup>1</sup>Associação Fundo de Incentivo a Pesquisa - Afip, Sao Paulo, Brazil, <sup>2</sup>Associação Fundo de Incentivo - Afip, Sao Paluo, Brazil
- 
- A-338 Tsh Reference Range in the First Trimester in an Iodine Sufficient Population of Pregnant Women Attended By the Public Health System in Curitiba South of Brazil**  
 R. F. Paula<sup>1</sup>, P. C. Felchner<sup>2</sup>, T. M. Telles<sup>3</sup>, C. O. Júnior<sup>4</sup>, K. D. Valdati<sup>5</sup>, T. M. Panizza<sup>5</sup>, T. P. Moraes<sup>1</sup>, G. B. Carlos<sup>1</sup>. <sup>1</sup>Siemens Healthineers, São Paulo, Brazil, <sup>2</sup>Pontifical Catholic University -PR, Curitiba, Brazil, <sup>3</sup>Federal University of Paraná -UFPR, Curitiba, Brazil, <sup>4</sup>Complexo Hospital das Clínicas Complex / Federal University of Paraná, Curitiba, Brazil, <sup>5</sup>Municipal Laboratory - SMS, Curitiba, Brazil
- 
- A-339 Automated Flow of a Non-Invasive Fetal Gender Determination Lab-Developed Molecular Test**  
 T. S. Xavier Dias, V. G. da Silva, M. C. Santos, V. P. Batistutti, P. S. Osorio, D. Moratori, J. E. Levi. DASA, Barueri, Brazil

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## PEDIATRIC & MATERNAL FETAL MEDICINE

- A-340 Cfr Modulator Therapy Increases Serum/Plasma Concentrations of Vitamin A in People With Cystic Fibrosis**  
H. A. Nelson<sup>1</sup>, I. DeBiase<sup>1</sup>, K. Balogun<sup>2</sup>, C. M. McDonald<sup>3</sup>, F. Asfour<sup>4</sup>, T. Yuzyuk<sup>1</sup>. <sup>1</sup>University of Utah / ARUP Laboratories, Salt Lake City, UT, <sup>2</sup>Montefiore Medical Center, Bronx, NY, <sup>3</sup>Primary Children's Hospital, Salt Lake City, UT, <sup>4</sup>University of Utah, Salt Lake City, UT
- 
- A-341 Development and Validation of an ICP-MS Method to Quantify Lead in Dried Blood Spots**  
R. A. Muldrow, C. Torres, K. Kaiwusaier, S. Matir, D. N. Greene. LetsGetChecked, Monrovia, CA
- 
- A-342 Spotlighting Avoidable Care Gaps in Women's Health — A United States Real-World Data Evaluation of Antiphospholipid Syndrome Diagnosis**  
D. Novak<sup>1</sup>, A. Tice<sup>1</sup>, J. Murphy<sup>2</sup>, V. Joy<sup>2</sup>. <sup>1</sup>Geisinger Medical Laboratory, Danville, PA, <sup>2</sup>Thermo Fisher Scientific, Portage, MI
- 
- A-343 Provider Performed Microscopy Program Makeover: One Institution's Experience**  
A. M. Glomb, S. Guzman, N. R. Wadhvani, B. Suh-Lailam. Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL
- 
- A-344 Don't Get Rejected: Reduce Specimen Rejection in Phlebotomy**  
A. M. Glomb, B. Suh-Lailam. Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL
- 
- A-345 Cat's Cry Syndrome or Lejeune Syndrome**  
P. Lesmes - García Corrales<sup>1</sup>, A. García Serrano<sup>2</sup>, J. Guerrero Montávez<sup>2</sup>. <sup>1</sup>University Hospital Virgen del Rocío, Seville, Spain, <sup>2</sup>University Hospital Virgen del Rocío, Seville, Spain
- 
- A-346 Late Infantile Neuronal Ceroid Lipofuscinosis or Disease of Jansky Bielschowsky, Rare Cause of Childhood Progressive Epilepsy**  
P. Lesmes - García Corrales<sup>1</sup>, H. Macher<sup>2</sup>, J. Guerrero Montávez<sup>2</sup>. <sup>1</sup>University Hospital Virgen del Rocío, Seville, Spain, <sup>2</sup>University Hospital Virgen del Rocío, Seville, Spain
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## POINT-OF-CARE TESTING

- A-347 Performance Evaluation of Standard Q COVID/FLU Ag Combo for Detection of SARS-CoV-2 and Influenza A and B Antigens from the Patients with Suspected Respiratory Infections**  
*S. Kim<sup>1</sup>, W. Choi<sup>2</sup>. <sup>1</sup>Gyeongsang National University College of Medicine, Changwon, Korea, Republic of, <sup>2</sup>Department of Nursing Science, Kyungsoong University, Busan, Korea, Republic of*
- 
- A-349 Septec: A Microfluidic Platform for the Rapid Diagnosis of Bloodstream Infection Diagnosis and Associated Sepsis Management**  
*H. McArdle<sup>1</sup>, A. Cassidy<sup>1</sup>, K. Adamson<sup>1</sup>, D. Burke<sup>2</sup>, A. Farghaly Mohammed<sup>2</sup>, N. McEvoy<sup>3</sup>, M. Smyth<sup>2</sup>, G. Curley<sup>2</sup>. <sup>1</sup>Novus Diagnostics, Dublin, Ireland, <sup>2</sup>Beaumont Hospital, Dublin, Ireland, <sup>3</sup>RCSI, Dublin, Ireland*
- 
- A-350 Myth Debunked: Same Urine Aliquot is not Suitable for hCG Test After Microscopic Analysis**  
*X. Li. Emory University, Atlanta, GA*
- 
- A-351 Reliability of POCT AccuChek Inform II® Performance Assessed with the Laboratory Method — A Practical Example for a System with Fourteen Facilities Monitored for Nine Years**  
*V. M. Genta<sup>1</sup>, R. Mao<sup>1</sup>, C. Aston<sup>1</sup>, F. Alferes<sup>1</sup>, S. Shumate<sup>2</sup>, L. Wyer<sup>2</sup>. <sup>1</sup>Sentara Virginia Beach General Hospital, Virginia Beach, VA, <sup>2</sup>Sentara Healthcare, Norfolk, VA*
- 
- A-352 Investigation of the Immunochromatographic Method Using 150 nm Gold Colloids (1)-Comparison of Different Types of gold cColloids**  
*A. Hirano, M. Asahi, M. Otsuka, R. Kubota. Graduate Course of Health and Social Services, Saitama Prefectural University, Koshigaya, Japan*
- 
- A-353 Investigation of the Immunochromatographic Method Using 150 nm Gold Colloids (2)-Comparison with the ALP-based Chromogenic Detection Method**  
*M. Asahi, A. Hirano, M. Otsuka, R. Kubota. Graduate Course of Health and Social Services, Saitama Prefectural University, Koshigaya, Japan*
- 
- A-355 Eyescore, a Point of Care Smartphone App for Early Dry Eye Diagnosis and Management**  
*S. Zhang, J. Echegoyen. Westview Eye Institute, San Diego, CA*
- 
- A-357 Performance of Blood Urea Nitrogen on the epoc Analyzer**  
*M. Dilks<sup>1</sup>, L. M. Evans<sup>1</sup>, B. M. Goldsmith<sup>2</sup>. <sup>1</sup>Thomas Jefferson University Hospital, Philadelphia, PA, <sup>2</sup>Thomas Jefferson University, Philadelphia, PA*
- 
- A-359 Performance of Measured TCO2 on the epoc Analyzer**  
*L. M. Evans<sup>1</sup>, M. Dilks<sup>1</sup>, B. M. Goldsmith<sup>2</sup>. <sup>1</sup>Thomas Jefferson University Hospital, Philadelphia, PA, <sup>2</sup>Thomas Jefferson University, Philadelphia, PA*
- 
- A-360 Reproducible Graphene Sensor with Desiccated Biology**  
*S. Aithal, S. Gupta, A. Kumar, R. Kumawat, K. Duong, N. Ho, R. Liu, J. Warden, S. Le, D. H. Ho. Hememics Biotechnologies Inc, Gaithersburg, MD*
- 
- A-361 Implementation of a Fit-for-Purpose Point of Care Quality Assurance Program**  
*W. J. Dimech, L. Cabuang, G. Vincini. National Serology Reference Laboratory, Australia, Fitzroy, Australia*
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## POINT-OF-CARE TESTING

- A-363 Evaluating the Performance of Emerging STI Point of Care Assays Using Novel, Room Temperature Stable CT/NG/TV/MG Positive Swab Quality Control Materials**  
*S. Rivers*, P. Zhelev, M. Thakur, A. Alagic, J. Li, C. Randall, M. Luscher, K. Hughes. *Microbix Biosystems Inc, Mississauga, ON, Canada*
- 
- A-364 The Utility of the Highly Sensitive Detection System for Immunochromatographic Assay by Addition of MPC Polymer**  
*T. Nakahara*<sup>1</sup>, M. Matsuda<sup>2</sup>, S. Uesugi<sup>3</sup>, K. Murakami<sup>1</sup>, K. Kobayashi<sup>2</sup>, H. Kataoka<sup>1</sup>, E. Harata<sup>2</sup>, K. Tohyama<sup>1</sup>. <sup>1</sup>*Kawasaki University of Medical Welfare, Okayama, Japan*, <sup>2</sup>*NOF Corporation, Tokyo, Japan*, <sup>3</sup>*Kawasaki Medical School Hospital, Okayama, Japan*
- 
- A-365 Carbohydrate-binding Module Proteins to Functionalize Paper for Lateral Flow Applications**  
*L. Walker*<sup>1</sup>, G. Yang<sup>1</sup>, O. Drabwell<sup>2</sup>, C. Buerki<sup>1</sup>, R. Porter<sup>2</sup>, R. Greene<sup>1</sup>. <sup>1</sup>*Gemina Laboratories, Burnaby, BC, Canada*, <sup>2</sup>*RAPivD, Sharnbrook, United Kingdom*
- 
- A-367 Development of a Novel Handheld Platform for Real-Time Fluorescence-Based Nucleic Acid Detection**  
Y. Hong, *Q. Song*, Y. Gao, Y. Liu, W. Wen. *The Hong Kong University of Science and Technology, Hong Kong, Hong Kong*
- 
- A-368 Aspergillus Galactomannan Lateral Flow Assay with Digital Reader for the Diagnosis of Invasive Aspergillosis**  
J. Peng, J. Yan, J. Du, Y. Wang, H. Wang, Y. Su, *Z. Zhou*. *Tianjin Enterprise Key Laboratory for Precision Diagnosis Technology of invasive Fungal Diseases, Tianjin, China*
- 
- A-369 Evaluation of a Point-of-Care Whole Blood Creatinine Assay and eGFR Concordance Using the CKD-EPI 2021 Equation**  
*Y. Elonda*<sup>1</sup>, K. Zwaan<sup>1</sup>, C. Xu<sup>2</sup>. <sup>1</sup>*Atalmedial, Amsterdam, Netherlands*, <sup>2</sup>*Werfen, Bedford, MA*
- 
- A-370 High Rates of Potassium, Chloride and Hemoglobin Discordances in Split Samples Drawn Within 1 Minute and Analyzed on Point of Care GEM 5000 and Central Laboratory Roche Cobas 8000 and Sysmex Analyzers**  
*G. Cembrowski*<sup>1</sup>, Q. Xu<sup>2</sup>, H. Sadrzadeh<sup>3</sup>. <sup>1</sup>*University of Alberta, Edmonton, AB, Canada*, <sup>2</sup>*Family Practice, Vancouver, AB, Canada*, <sup>3</sup>*Alberta Precision Laboratories, Calgary, AB, Canada*
- 
- A-371 Comparative Evaluation of POCT Based Lysophosphatidylcholine Measurement**  
*J. Rim*, H. Choi, H. Jang, J. Jang, H. Kang, J. Lim. *Yonsei University College of Medicine, Seoul, Korea, Republic of*
- 
- A-372 Increased Sensitivity in Detection of SARS-CoV-2 Antigen Using RAD1 COVID-19 Ag Rapid Test**  
*S. Kee*<sup>1</sup>, J. Choi<sup>2</sup>, J. Jeon<sup>1</sup>, M. Heo<sup>3</sup>, J. Park<sup>4</sup>, H. Choi<sup>1</sup>. <sup>1</sup>*Chonnam National University Hospital, Gwangju, Korea, Republic of*, <sup>2</sup>*Chonnam National University Research Institute of Medical Science, BMSGP, Chonnam National University Medical School, Hwasun, Korea, Republic of*, <sup>3</sup>*Seegene Medical Foundation Gwangju & Honam Laboratory Center, Gwangju, Korea, Republic of*, <sup>4</sup>*Chonnam National University Hwasun Hospital, Hwasun, Korea, Republic of*
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## POINT-OF-CARE TESTING

- A-373 Comparison of the CoaguChek® and Coag-Sense® PT2 Meter Point-of-Care INR Devices**  
T. Schumann<sup>1</sup>, B. Karon<sup>1</sup>, C. O'Connor<sup>2</sup>, L. Jennifer<sup>3</sup>, J. Blanco<sup>1</sup>, L. Hartman<sup>1</sup>, A. Kramer<sup>4</sup>, J. Uy<sup>3</sup>, N. Myhre<sup>1</sup>, D. Gayle<sup>1</sup>, K. Hartung<sup>1</sup>, H. David<sup>5</sup>, P. Santrach<sup>1</sup>, R. McBane<sup>1</sup>. <sup>1</sup>Mayo Clinic, Rochester, MN, <sup>2</sup>Mayo Clinic, Eau Claire, WI, <sup>3</sup>Mayo Clinic, Scottsdale, AZ, <sup>4</sup>Mayo Clinic, La Crosse, WI, <sup>5</sup>Mayo Clinic, Jacksonville, FL
- 
- A-374 Analytical Performance Assessment and Comparison of Point-of-Care Testing (POCT) Devices for Blood Lipids Measurements**  
K. Dahya, F. Pokuah, U. Danilenko, H. W. Vesper. *Centers for Disease Control and Prevention, Atlanta, GA*
- 
- A-375 Evaluation of the CLIA-Waived Afinion HbA1c Point-of-Care Test**  
E. Villasin, I. Metushi. *Department of Pathology and Laboratory Medicine. University of California Los Angeles, Los Angeles, CA*
- 
- A-376 Development of a 10-Minute Sample to Answer RT-PCR Respiratory Panel Performed on Point of Care (POC)**  
R. Peytavi, J. Hambalek, E. Alvarado, Y. Parocua, A. Abeje, F. Foltz, B. Pollack, P. Halle, M. Petruzzo, K. Allen, H. Kido, R. Martin. *AMDI, Santa Ana, CA*
- 
- A-377 The Selection and Implementation of POC Illicit Drug Toxicology Testing in Hamad Medical Corporation - Doha, Qatar**  
 E. Al Kuwari<sup>1</sup>, D. Al-Wali<sup>1</sup>, J. S. Habib<sup>2</sup>, Z. Kabir<sup>1</sup>, A. Abdelfadel<sup>1</sup>, E. Torato<sup>1</sup>, A. Dellil<sup>1</sup>. <sup>1</sup>Hamad Medical Corporation, Doha, Qatar, <sup>2</sup>Hamad Medical Corporation, Doha, Qatar
- 
- A-378 Clinical Evaluation and Implementation of Rapid COVID-19 Antigen Test in Qatar**  
J. S. Said, F. Afreen, D. Al-Wali, E. A. AL Kuwari, Z. M. Kabir, A. M. Salem. *Hamad Medical Corporation, Doha, Qatar*
- 
- A-379 Frequency of Reassignment of Blood Gas Sample Source at a Large Tertiary Care Hospital**  
R. Kim, M. Altura, K. Gantt, I. A. Hashim. *UT Southwestern Medical Center, Dallas, TX*
- 
- A-380 Concordance of Truvian's Point-of-Care Blood Testing Analyzer to Central Laboratory Testing**  
R. L. Higgins, M. Adams, D. Arndt, P. Desmond, B. Fernandez, G. Grabarek, N. Haase, J. Kim, R. Krupa, G. Mina, R. Morgan, J. Poland, G. Reed, R. Richardson, A. Schroeder, F. Lee, D. Marrinucci. *Truvian, San Diego, CA*
- 
- A-381 Laboratory-based Reflexive Algorithm for Identification of Falciparum and Non- Falciparum-Species and its Clinical Utility in the Diagnosis of Malaria in Southern Ghana**  
K. A. Sarpong<sup>1</sup>, L. Bansah<sup>1</sup>, E. Armah<sup>1</sup>, D. Perkins<sup>2</sup>. <sup>1</sup>University of Ghana, Legon, Ghana, <sup>2</sup>University of New Mexico, Albuquerque, NM
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## POINT-OF-CARE TESTING

- A-382 Evaluation of the Labcorp TrueSpin™ for Decentralized Blood Sample Centrifugation**  
G. Iacovetti<sup>1</sup>, B. Collier<sup>2</sup>, S. Setzer<sup>1</sup>, M. Peevler<sup>1</sup>, J. Ragar<sup>1</sup>, W. Brandon<sup>2</sup>, M. Chappell<sup>2</sup>, R. P. Grant<sup>2</sup>, G. J. Sommer<sup>1</sup>, U. Y. Schaffl<sup>1</sup>. <sup>1</sup>Labcorp, Pleasanton, CA, <sup>2</sup>Labcorp, Burlington, NC
- 
- A-383 A Novel Lateral Flow Immunoassay for Health Biomarker and Immunosuppressive Drug Monitoring in Fingerstick Blood in a Point-of-Care Setting**  
T. Nguyen<sup>1</sup>, M. Ortega<sup>1</sup>, E. Vuu<sup>1</sup>, Y. Kulahci<sup>2</sup>, F. Zor<sup>2</sup>, V. S. Gorantla<sup>2</sup>, A. C. Daza Aguilar<sup>3</sup>, E. Tantisattamo<sup>3</sup>, U. Reddy<sup>3</sup>, C. Rhee<sup>3</sup>, K. Kalantar-Zadeh<sup>4</sup>, J. Gerber<sup>1</sup>, R. Ganguli<sup>1</sup>. <sup>1</sup>Intelligent Optical Systems, Inc., Torrance, CA, <sup>2</sup>Wake Forest for Regenerative Medicine, Winston-Salem, NC, <sup>3</sup>University of California, Irvine, Irvine, CA, <sup>4</sup>Harbor-UCLA Medical Center, Torrance, CA
- 
- A-384 Laboratory Evaluation of the SeptiCyte Rapid Host Response Assay In Differentiating Infection-Positive Versus Infection-Negative Systemic Inflammation Patients Suspected of Sepsis**  
L. Sankari<sup>1</sup>, H. Dolin<sup>2</sup>, R. Hejal<sup>1</sup>, H. Mohammad<sup>2</sup>, A. Windau<sup>2</sup>, C. Greig<sup>2</sup>, D. Savadekar<sup>2</sup>, C. Weisenberger<sup>2</sup>, K. Remy<sup>1</sup>, F. Jacono<sup>1</sup>, X. S. Zhang<sup>1</sup>. <sup>1</sup>University Hospitals Cleveland Medical Center, Case Western Reserve University, Cleveland, OH, <sup>2</sup>University Hospitals Cleveland Medical Center, Cleveland, OH
- 
- A-385 A Point-of-Care Test to Assess Vaccine Response and Recent Infection by Quantitative Measurement of Neutralizing Antibody, Anti-Nucleocapsid, and Anti-spike Levels**  
A. Perebikovskiy<sup>1</sup>, J. Y. Lim<sup>2</sup>, H. Munoz<sup>1</sup>, M. C. Caparas<sup>1</sup>, A. Fiore<sup>1</sup>, A. Srinivasan<sup>1</sup>, D. Okrongly<sup>1</sup>, Y. Liu<sup>1</sup>, H. Janwari<sup>2</sup>, G. Murray<sup>2</sup>, B. Martinez<sup>1</sup>, B. Le<sup>2</sup>, K. Rashidi<sup>1</sup>, H. Kido<sup>1</sup>, A. C. Roberts<sup>1</sup>, H. Lu<sup>1</sup>, B. Pollack<sup>1</sup>, E. Shamloo<sup>1</sup>, B. D. Miller<sup>1</sup>, D. Wright<sup>2</sup>, R. E. Davis<sup>2</sup>. <sup>1</sup>Autonomous Medical Devices Inc, Santa Ana, CA, <sup>2</sup>Autonomous Medical Devices Inc, Menlo Park, CA
- 
- A-386 Performance Assessment of Point of Care Testing for Blood Glucose: A 5 year Review of EQA Data**  
M. A. Thomas<sup>1</sup>, G. Davies<sup>2</sup>, N. Blount<sup>2</sup>. <sup>1</sup>Cardiff and Vale University Health Board, Cardiff, United Kingdom, <sup>2</sup>Weqas, Cardiff, United Kingdom
- 
- A-387 Evaluation of the Analytical and Clinical Performance of Epoc Point of Care Equipment Compared to Standard Blood Gas in Patients With Nephropathy**  
R. F. Paula<sup>1</sup>, P. F. Távora<sup>2</sup>, M. M. Gomes<sup>2</sup>, J. d. Neto<sup>3</sup>, T. C. Leonel<sup>1</sup>, L. I. Santos<sup>2</sup>, A. D. Midrigal<sup>1</sup>. <sup>1</sup>Siemens Healthineers, São Paulo, Brazil, <sup>2</sup>i9med laboratory – Diagnostic Medicine, Belo Horizonte, MG, Brazil, <sup>3</sup>Nephrocynics, Belo Horizonte, MG, Brazil
- 
- A-388 Evaluation of Performance of the nBili Assay on the RAPIDPoint® 500e Analyzer Compared to the Total Bilirubin Assay for the Dimension Exl200 and Atellica Ch Analyzers in Neonates Blood Samples**  
R. F. Paula<sup>1</sup>, T. C. Lamo<sup>1</sup>, M. S. Lage<sup>2</sup>, A. D. Midrigal<sup>1</sup>. <sup>1</sup>Siemens Healthineers, São Paulo, Brazil, <sup>2</sup>Marcio Cunha Hospital, São Francisco, Ipatinga, MG, Brazil
- 
- A-389 Implementation of a Solicited Laboratory Workflow Improves Quality Indicators for Point of Care Blood Gas Testing by Respiratory Therapists**  
E. Ballard, H. Stieglitz. The Ohio State University Wexner Medical Center, Columbus, OH
- 
- A-390 Implementation of the New GEM Hemochron 100 Point-of-Care Coagulation System for Heparin Monitoring During Cardiopulmonary Bypass Procedures**  
A. Sheffield<sup>1</sup>, G. Oldendorp<sup>2</sup>, M. Jordan<sup>1</sup>, D. Mast<sup>1</sup>, M. Losos<sup>1</sup>, I. Siddiqui<sup>1</sup>, H. Stieglitz<sup>1</sup>. <sup>1</sup>The Ohio State University Wexner Medical Center, Columbus, OH, <sup>2</sup>The Ohio State University Wexner Medical Center, Columbus, OH
-



## SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

### ANIMAL CLINICAL CHEMISTRY

- B-001** **Method Development of C-Reactive Protein in the Serum of Non-Human Primates**  
*A. Kalb. Charles River Laboratories, Ashland, OH*
- 
- B-002** **Method Validation of Cystatin-C in the Serum of Dogs**  
*A. Sringeri. Charles River Laboratories, Ashland, OH*
- 
- B-003** **Decrease in Serum apoE-rich HDL-cholesterol May Be Associated with Cholesterol Accumulation in the Liver of Rats Fed a High-Cholesterol Diet**  
*R. Shinohata<sup>1</sup>, R. Takeuchi<sup>2</sup>, S. Usui<sup>2</sup>. <sup>1</sup>Okayama University, Okayama, Japan, <sup>2</sup>Tottori University, Yonago, Japan*
- 
- B-004** **The Antiarthritic Activity of Fucoidan From a Brown Seaweed *Turbinaria Decurrens***  
*R. Gopal<sup>1</sup>, P. Raj<sup>2</sup>, E. Sanniyasi<sup>2</sup>. <sup>1</sup>Saveetha Dental College and Hospital, SIMATS, Chennai, India, <sup>2</sup>University of Madras, Chennai, India*
- 
- B-005** **Blood pH and Phosphate Tend to Follow an Inversely Correlated Homeostatic Status**  
*S. Islam, B. Osa-Andrew, J. Cao, A. R. Muthukumar, P. M. Jones, I. Hashim. UT Southwestern Medical Center, Dallas, TX*
- 
- B-007** **Measurement of Cytokines in Bronchoalveolar Lavage (BAL) Fluid and CSF Supports Model Development for Discovery Programs**  
*T. Lambert, K. Lynch, R. Cortina, M. Schultz, T. Lewandowski, T. Sellers. GSK, Collegeville, PA*
- 



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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## AUTOMATION & ANALYTICAL TECHNIQUES

- B-009 Accuracy Validation of Elecsys HBsAg II Quant Assay to Resolve Equivocal Qualitative HBsAg Results**  
D. Kim, J. Lee, J. Park, N. Kim, S. Lee, Y. Cho. *Jeonbuk National University Medical School and Hospital, Jeonju, Korea, Republic of*
- 
- B-010 Comparison of Manual Urine Dipstick and Microscopy With Automated UC-3500 and UF-4000 Sysmex UN Series Urinalysis; A Comparative Experimental Research Approach at an Urban Referral Hospital in Ghana**  
E. Toboh<sup>1</sup>, R. K. Ephraim<sup>2</sup>, K. Osei Darkwah<sup>3</sup>, N. Afriyie Gyamfi<sup>4</sup>, L. Duah Agyemang<sup>5</sup>, E. Kumah Forkuo<sup>5</sup>, P. Antwi<sup>6</sup>, K. Appiagyei<sup>7</sup>. <sup>1</sup>Ghana Health Service, Dansoman Polyclinic, Accra, Ghana, <sup>2</sup>University of Cape Coast, Cape Coast, Ghana, <sup>3</sup>Jeonbuk National University (JBNU) College of Natural Sciences Institute of Molecular Biology and Genetics, Jeonbuk, Korea, Republic of, <sup>4</sup>St. Elizabeth Hospital, Hwidiem, Ghana, <sup>5</sup>Komfo Anokye Teaching Hospital, Kumasi, Ghana, <sup>6</sup>Teeside University, Middlesborough, United Kingdom, <sup>7</sup>37 Military Hospital, Accra, Ghana
- 
- B-011 Analytical Validation of a New Vasoactive Intestinal Peptide Radioimmunoassay**  
S. Ashrafzadeh-Kian, J. Bornhorst, A. Algeciras-Schminich. *Mayo Clinic, Rochester, MN*
- 
- B-012 Validation of a Urine Ammonium Assay on Roche cobas c502 Chemistry Analyzer**  
L. Song<sup>1</sup>, k. H. Tong<sup>2</sup>, M. I. Fournier<sup>2</sup>. <sup>1</sup>David Geffen School of Medicine, University of California Los Angeles, Los Angeles, CA, <sup>2</sup>Ronald Reagan Hospital, UCLA Healthsystem, Los Angeles, CA
- 
- B-013 Association Between Laboratory Parameters Analysis and Clinical Severity in Patients With Coronavirus Disease (Covid 19) at Hospital Universitario Fundación Santa Fe**  
O. Martinez Nieto<sup>1</sup>, H. A. Gonzalez<sup>2</sup>, C. E. Saavedra Andrade<sup>2</sup>, D. M. Bertel Rodriguez<sup>2</sup>, P. A. Rodriguez Urrego<sup>2</sup>, J. P. Vargas Gallo<sup>2</sup>. <sup>1</sup>Fundacion Santa Fe de Bogotá, Bogota, Colombia, <sup>2</sup>Fundacion Santa Fe de Bogota, Bogota, Colombia
- 
- B-014 Impact of Centrifugation Time Reduction in Laboratory Automation System**  
P. Choosongsang. *PSU, Hat Yai, Thailand*
- 
- B-015 Magnesium Fractionation Using Ultrafiltration System**  
H. Badr<sup>1</sup>, O. Anthony O<sup>2</sup>. <sup>1</sup>UTMB, Galveston, TX, <sup>2</sup>Department of Pathology, University of Texas Medical Branch, Galveston, TX
- 
- B-016 Automated Next Generation Sequencing Fluidic-Based Device for Sample to Library Preparation: A Flexible Solution for Rapid Decentralized Sequencing for Infectious Disease Diagnostics**  
S. Chan, J. Tan, S. Tee, J. Park, Y. Ng, G. Michel. *Helaxy Pte. Ltd., Singapore, Singapore*
- 
- B-017 The Effect of Temperature on the Performance of Streptavidin-coated Paramagnetic Particles in Immunoassay Applications**  
B. Wu<sup>1</sup>, L. Li<sup>1</sup>, D. Wang<sup>1</sup>, Y. Xiong<sup>2</sup>, W. Lu<sup>2</sup>. <sup>1</sup>Shenzhen Mindray Bio-Medical Electronics Co., Ltd., Shenzhen, China, <sup>2</sup>Mindray IVD Innovation Center Minnesota, Oakdale, MN
- 
- B-018 Compact All in One, Fully Automated Molecular Diagnostic System "ExiStation™ FA 96" in 100 Minutes**  
K. Lee<sup>1</sup>, D. Im<sup>2</sup>, H. Chae<sup>2</sup>, Y. Cho<sup>2</sup>, J. Kim<sup>2</sup>, E. Kwon<sup>2</sup>, H. Kim<sup>2</sup>, D. Jang<sup>2</sup>, S. Park<sup>2</sup>, S. Koo<sup>2</sup>, S. Kim<sup>2</sup>, S. Eom<sup>2</sup>, H. Lee<sup>2</sup>, S. Park<sup>2</sup>, H. Park<sup>2</sup>, H. Park<sup>2</sup>. <sup>1</sup>Bioneer corp., Daejeon, Korea, Republic of, <sup>2</sup>Bioneer corp, Daejeon, Korea, Republic of
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## AUTOMATION & ANALYTICAL TECHNIQUES

- B-019 Method Comparison of Five Immunoassays and LC-MS/MS Measurement of Urinary Free Cortisol in the Diagnosis of Cushing's Syndrome**  
*D. Mu. Peking Union Medical Hospital College, Beijing, China*
- 
- B-020 Fully Automated and Scalable cfDNA Extraction Solution from Up to 10 mL Samples**  
*J. Lysen, J. Baggs, T. Butts, K. Durvasula. Omega Bio-tek, Norcross, GA*
- 
- B-021 Analytical Performance of Thyroid Function Test on DxI800 System**  
*J. Jang, H. Kang, H. Jang, J. Rim, J. Lim. Yonsei University College of Medicine, Seoul, Korea, Republic of*
- 
- B-022 Technical Evaluation of Urine Chemistry Testing on the Beckman DxC700AU Chemistry Analyzer**  
*C. Gea, F. Wong, M. Lim, B. Quek, J. Wong, C. Yeo. Department of Clinical Pathology, Singapore General Hospital, Singapore, Singapore*
- 
- B-023 Optimizing Measurement of Homocysteine in an Emergency Care Pathway**  
*G. Grzych, D. Marchand, D. Clarence, G. Emeline, R. Schult, E. Van Nieuwenhuysse, F. Zerimech. CHU Lille, Lille, France*
- 
- B-024 An Evaluation of the Analytical Performance of the New Beckman Coulter DxC 500 AU Clinical Chemistry System**  
*D. O'Meara<sup>1</sup>, S. O'Donnell<sup>2</sup>, K. Lynch<sup>2</sup>, F. Laura<sup>2</sup>, M. O. Meade<sup>2</sup>. <sup>1</sup>Beckman Coulter Ireland, O'Callaghans Mills, Ireland, <sup>2</sup>Beckman Coulter Ireland, O'Callaghan's Mills, Ireland*
- 
- B-025 Evaluation of Bias Between Alzheimer's Disease Blood-Based Biomarkers Assays and Their Concordance With Amyloid-PET on the Fujirebio Lumipulse and Quanterix Simoa Platforms**  
ACCC  
ACADEMY  
*D. Figdore, J. Bornhorst, C. Jack, R. Petersen, A. Algeciras-Schminich. Mayo Clinic, Rochester, MN*
- 
- B-026 Evaluation of Colorimetric and Electrolyte Test Assays on the Fuji Dri-Chem NX700I Clinical Chemistry Analyzer**  
*P. Theologou<sup>1</sup>, R. Wichert<sup>1</sup>, F. Zacchini<sup>1</sup>, R. Moennikes<sup>1</sup>, H. Wahl<sup>2</sup>. <sup>1</sup>Medizinisches Labor Wahl, Luedenscheid, Germany, <sup>2</sup>Institute of Laboratory Medicine and Pathobiochemistry, Molecular Diagnostics Philipps University, Marburg, Germany*
- 
- B-027 Adaptation of Neonatal Dried Blood Spot Assays for Use on Automated Microplate Instruments**  
*G. Van Slooten. Awareness Technology, Palm City, FL*
- 
- B-028 Clinical Performance of a Fully-automated Fecal Calprotectin Chemiluminescence Immunoassay (CLIA)**  
*J. A. Petzke, B. McDermott, C. Thienes, K. Veenstra, C. Wisherd. ALPCO, Salem, NH*
- 
- B-029 Validation of an Automated Analyzer for Urine Microscopic Examination**  
*L. Majoy<sup>1</sup>, H. Riedy<sup>1</sup>, M. Chappel<sup>1</sup>, M. O. Nakashima<sup>2</sup>. <sup>1</sup>Cleveland Clinic, Cleveland, OH, <sup>2</sup>Cleveland Clinic, Cleveland Heights, OH*
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## AUTOMATION & ANALYTICAL TECHNIQUES

- B-030 Automated Chemiluminescent Immunoassay for Serum Apoptosis-Associated Speck-Like Protein Containing a Caspase-Recruitment Domain as a Novel Biomarker for Stroke and a Pilot Study**  
L. Wang<sup>1</sup>, X. Luan<sup>1</sup>, Y. Shi<sup>1</sup>, B. Xu<sup>2</sup>, J. Guo<sup>2</sup>, R. Fan<sup>2</sup>, Y. Li<sup>2</sup>, G. Li<sup>1</sup>, Y. Ding<sup>1</sup>, W. Jiang<sup>1</sup>, J. Sun<sup>1</sup>, X. Duan<sup>2</sup>, G. Zhang<sup>1</sup>. <sup>1</sup>Beijing Tiantan Hospital, Capital Medical University, Beijing, China, <sup>2</sup>Beijing North Institute of Biotechnology Co., Beijing, China
- 
- B-031 Digital Elisatotal 25hydroxyvitamin D**  
S. Chae<sup>1</sup>, J. Chung<sup>1</sup>, H. Huh<sup>1</sup>, S. Moon<sup>1</sup>, Y. Seo<sup>2</sup>. <sup>1</sup>Dongguk University Ilsan Hospital, Goyang, Korea, Republic of, <sup>2</sup>Small Machines Co.,Ltd, Seoul, Korea, Republic of
- 
- B-032 Total Lab Automation Validation/Verification Protocol: First Step of Process Excellence Journey in Smart Core Lab in Kokilaben Dhirubhai Ambani Hospital & Medical Research Institute, Mumbai, India**  
B. Das, L. Bhat, R. Patil, V. Tawde, S. Kamath, P. Pal. Kokilaben Dhirubhai Ambani Hospital & Medical Research Institute, Mumbai, India
- 
- B-033 Impact of Red Blood Cell Sediment on HbA1c Measurement**  
T. Nanthakhan, M. Jaru-arayanun. King Chulalongkorn Memorial hospital, Bangkok, Thailand
- 
- B-034 Evaluation of the Analytical Performance of Sebia CAPI 3 HbA1c Assay**  
E. T. Laryea, M. Bates, S. Fan. Vanderbilt University Medical Center, Nashville, TN
- 
- B-035 Maintaining the Analytical Performance of Calcium and Phosphorus In 24-Hour Urine Without Addition of 6n hcl in the Pre-Analytical Process**  
D. G. Canali<sup>1</sup>, G. Zampieri<sup>2</sup>, C. M. Motta<sup>2</sup>, D. C. Oliveira<sup>2</sup>, C. Rosin<sup>2</sup>, S. V. Argolo<sup>3</sup>, W. Satsuma<sup>2</sup>. <sup>1</sup>Diagnóstico da America, São Jose, Brazil, <sup>2</sup>Diagnóstico da America, São Paulo, Brazil, <sup>3</sup>Diagnóstico da America, Rio de Janeiro, Brazil
- 
- B-036 Multi-biomarker Approach to Latent Tuberculosis Diagnosis Using Microring Resonator Sensors**  
K. Meserve<sup>1</sup>, C. Chapman<sup>1</sup>, P. Escalante<sup>2</sup>, R. C. Bailey<sup>1</sup>. <sup>1</sup>University of Michigan, Ann Arbor, MI, <sup>2</sup>Mayo Clinic, Rochester, MN
- 
- B-037 Comparison of Performance between Siemens Clinitek + Status Analyzer to ARKRAY AUTION MAX AX-4030 for Suspected Urinary Tract Infections**  
M. Ali<sup>1</sup>, L. Yang<sup>2</sup>, K. Forbush<sup>3</sup>, D. Rohr<sup>3</sup>. <sup>1</sup>The MetroHealth System/ Case Western Reserve University School of Medicine, Cleveland, OH, <sup>2</sup>The Metrohealth System/ Case Western Reserve University School of Medicine, Cleveland, OH, <sup>3</sup>The MetroHealth System, Cleveland, OH
- 
- B-038 Applying Robotic Process Automation Technology to Automate the Release of Pathology Results and Reduce Costs, Time and Labor in a Clinical Laboratory**  
J. R. Oliveira, I. B. Escalante, I. R. Fernandes, V. S. Milani, P. G. Costa, R. H. Jacomo, L. F. Abdalla. Sabin Medicina Diagnostica, Brasilia, Brazil
- 
- B-039 Method Performance Evaluation of the Siemens Atellica Cystatin C Assay on the CH930 Instrument**  
R. Maynard, N. Korpi-Steiner, S. Cotten. UNC, Chapel Hill, NC
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## AUTOMATION & ANALYTICAL TECHNIQUES

- B-040 Performance Evaluation of Five Reproductive Endocrinology Assays on the Atellica CI 1900 Analyzer**  
H. Zhang, J. Frenna, L. Halik, N. Ozgen, M. Quintanilla, J. Rhea-McManus, H. Leipold.  
*Siemens Healthineers, Tarrytown, NY*
- 
- B-041 Evaluation of a Nuclear Magnetic Resonance Spectroscopy-Based Method for Estimating Glomerular Filtration Rate Using Creatinine, Cystatin C, Myo-Inositol, and Valine**  
 L. Branson, D. Southard, B. Hadder, W. Katrangi, R. Alturkmani. *Labtech Diagnostics, San Antonio, TX*
- 
- B-042 Evaluation of the Analytical Performance of Three Prostate-specific Antigen Immunoassays on the Atellica CI 1900 Analyzer**  
M. Quintanilla, K. Thakur, E. Clark, M. Smith, G. Arrode-Bruses, J. Rhea-McManus, H. Leipold.  
*Siemens Healthineers, Tarrytown, NY*
- 
- B-043 Thermal Evaluation and Field Study of Labcorp TrueTherm™ Packaging System for Protecting Sub-Milliliter Blood Samples**  
U. Schaff<sup>1</sup>, G. Iacovetti<sup>1</sup>, B. Collier<sup>2</sup>, S. Setzer<sup>1</sup>, M. Peevler<sup>1</sup>, J. Ragar<sup>1</sup>, W. Brandon<sup>2</sup>, M. Chappell<sup>2</sup>, R. P. Grant<sup>2</sup>, G. J. Sommer<sup>1</sup>. <sup>1</sup>Labcorp, Pleasanton, CA, <sup>2</sup>Labcorp, Burlington, NC
- 
- B-044 Analytical Validation of an Serum Glycerol Measured By Nuclear Magnetic Resonance Spectroscopy NMR**  
Q. Wang, R. Scott, J. Meeusen, L. Donato. *Mayo Clinic, Rochester, MN*
- 
- B-045 A Descriptive Study of the Clinical Impacts on COVID-19 Survivors Using Telemonitoring (The TeleCOVID Study)**  
J. S. Chow. *South Western Sydney Local Health District, Liverpool, Australia*
- 
- B-046 Curious Thing, an Artificial Intelligence (AI) Based Conversational Agents in COVID-19 Patient Management**  
J. S. Chow. *South Western Sydney Local Health District, Liverpool, Australia*
- 
- B-047 Performance Evaluation of Enzymatic HbA1c Assay on Newly Launched Mindray BS-600M Chemistry Analyzer**  
 M. Li<sup>1</sup>, W. Xie<sup>1</sup>, Y. Zeng<sup>1</sup>, A. Xu<sup>1</sup>, L. Ji<sup>1</sup>, J. Dai<sup>2</sup>. <sup>1</sup>Peking University Shenzhen Hospital, Shenzhen, China, <sup>2</sup>Mindray IVD Innovation Center Minnesota, Oakdale, MN
- 

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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## CLINICAL & DIAGNOSTIC IMMUNOLOGY

**B-048 Performance Evaluation of the New Anti-Streptolysin-O Assay on Mindray BS-2800M System**

W. Chen<sup>1</sup>, S. Liu<sup>1</sup>, M. Jiang<sup>1</sup>, J. Wang<sup>1</sup>, J. Dai<sup>2</sup>. <sup>1</sup>Shenzhen Mindray Bio-Medical Electronics Co., Ltd, Shenzhen, China, <sup>2</sup>Mindray IVD Innovation Center Minnesota, Oakdale, MN

**B-049 Diagnostic Performance of Bronchoalveolar Lavage Fluid CD4/CD8 Ratio: Granulomatous Lung Diseases**

I. Rodriguez Martin, S. Perez Pujalte, S. Delgado Macías, J. Guerrero Montávez. Virgen Del Rocío, Sevilla, Spain

**B-050 A Versatile Immunoassay Platform for Fast Multiplex Detection of Protein Biomarkers Based on a Novel Magnetic Particle System**

Y. Cho<sup>1</sup>, D. Moon<sup>1</sup>, K. Han<sup>1</sup>, H. Choi<sup>1</sup>, J. Kim<sup>1</sup>, Y. Ro<sup>2</sup>, B. Oh<sup>3</sup>, S. Song<sup>4</sup>, Y. Jung<sup>1</sup>. <sup>1</sup>R&D Center, EzDiaTech Inc., Anyang-si, Gyeonggi-do, Korea, Republic of, <sup>2</sup>Department of Emergency Medicine, Seoul National University Hospital, Seoul, Korea, Republic of, <sup>3</sup>Department of Rehabilitation Medicine, Seoul National University Hospital, Seoul, Korea, Republic of, <sup>4</sup>Department of Laboratory Medicine, Seoul National University Hospital, Seoul, Korea, Republic of

**B-051 Deubiquitinase OTUD5 Promotes Hepatitis B Virus Replication by Removing K48-linked Ubiquitination of HBV core/precore and Up-regulating HNF4 $\alpha$  Expressions through Inhibiting the ERK1/2 /Mitogen-activated Protein Kinase Pathway**

B. Lou, G. Ma, Y. Chen. The First Affiliated Hospital, Zhejiang University, Hangzhou, China

**B-052 Establishment of New Antibodies and ELISA System to Detect the Potato Alkaloids  $\alpha$ -solanine and  $\alpha$ -chaconine**

K. Okada<sup>1</sup>, K. Matsuo<sup>2</sup>. <sup>1</sup>Kyoto Tachibana University, Kyoto, Japan, <sup>2</sup>Kyoto Tachibana University Graduate School of Health Sciences, Kyoto, Japan

**B-054 Potential of Autotaxin in the Early Diagnosis of Sinusoidal Obstruction Syndrome After Allogeneic Hematopoietic Cell Transplantation**

K. Takemura<sup>1</sup>, M. Nakamae<sup>2</sup>, H. Okamura<sup>2</sup>, K. Sakatoku<sup>2</sup>, K. Ido<sup>2</sup>, Y. Makuuchi<sup>2</sup>, M. Kuno<sup>2</sup>, T. Takakuwa<sup>2</sup>, A. Hirose<sup>2</sup>, M. Nishimoto<sup>2</sup>, Y. Nakashima<sup>2</sup>, H. Koh<sup>2</sup>, K. Igarashi<sup>3</sup>, H. Kubota<sup>1</sup>, M. Hino<sup>2</sup>, H. Nakamae<sup>2</sup>. <sup>1</sup>Osaka Metropolitan University Hospital, Osaka, Japan, <sup>2</sup>Osaka Metropolitan University Graduate School of Medicine, Osaka, Japan, <sup>3</sup>TOSOH Corporation, Kanagawa, Japan

**B-055 Comparison of Sensitivity Between Tissue Anti-Transglutaminase and Anti-Endomysium IgA and IgG in Serological Screening for Celiac Disease in a Large Clinical Laboratory in Brazil**

J. F. de Souza<sup>1</sup>, D. do Sacramento Santos<sup>1</sup>, F. A. Pinto<sup>1</sup>, A. F. Justino Feo<sup>1</sup>, V. Vidotto Frade de Oliveira<sup>1</sup>, G. Zampieri<sup>1</sup>, M. H. Costa Gurgel Castelo<sup>2</sup>, A. Correa Wengerkievicz Lopes<sup>3</sup>. <sup>1</sup>DASA, Sao Paulo, Brazil, <sup>2</sup>DASA, Fortaleza, Brazil, <sup>3</sup>DASA, Florianopolis, Brazil

**B-056 Performance Characteristics of a New, Fully Automated Planar Microarray Immunoassay for the Detection of IgG Auto-antibodies Against Centromere Protein B (CENP-B)**

C. Daubrosse<sup>1</sup>, P. Ghillani-Dalbin<sup>1</sup>, V. Mercier<sup>1</sup>, R. Pasion Galvan<sup>2</sup>, D. Bijlsma<sup>2</sup>, E. Lukasik<sup>2</sup>, V. Botti<sup>2</sup>, G. Gomez<sup>2</sup>, E. Moreau<sup>2</sup>, M. Hausmann<sup>2</sup>, C. C. Ginocchio<sup>2</sup>, M. Miyara<sup>1</sup>. <sup>1</sup>Sorbonne Université, Inserm, Centre d'Immunologie et des Maladies Infectieuses (CIMI-Paris), Assistance Publique Hôpitaux de Paris (AP-HP), Hôpital Pitié-Salpêtrière, Paris, France, <sup>2</sup>Quotient Suisse SA, Eysins, Switzerland

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## CLINICAL & DIAGNOSTIC IMMUNOLOGY

- B-058 Development and Evaluation of the Assay for Detection of Human Specific IgE Against Animal Dander Allergens on a Fully Automated Chemiluminescence Immunoassay Platform — Autolumo® A2000 Plus**  
S. Rezaei<sup>1</sup>, X. Yang<sup>1</sup>, I. Xi<sup>1</sup>, D. Zhao<sup>2</sup>, J. Han<sup>2</sup>, K. Zhu<sup>2</sup>, Z. Li<sup>2</sup>, C. Lee<sup>1</sup>. <sup>1</sup>AdvanBio, Irvine, CA, <sup>2</sup>Autobio Diagnostics Co, Zhengzhou, China
- 
- B-059 Allergen-specific IgE Measurement for Peanut Ara h 2\***  
T. Chuang<sup>1</sup>, N. Ready<sup>2</sup>, M. Rowlands<sup>2</sup>, J. Chamberlain<sup>2</sup>, D. Hammer<sup>1</sup>, M. Sommer<sup>1</sup>, D. Hovanec-burns<sup>1</sup>. <sup>1</sup>Siemens Healthcare Diagnostics Inc., Tarrytown, NY, <sup>2</sup>Siemens Healthcare Diagnostics Products Ltd, Llanberis, United Kingdom
- 
- B-060 Measurement of Infliximab Clearance Using a Bayesian Forecasting Tool and Impact of Albumin and Immunization Status During Maintenance Treatment of Inflammatory Bowel Disease**  
 O. McLachlan, M. Schwalbe, J. McFarland, D. Pham, P. Hughes, T. Dervieux. Prometheus Laboratories, San Diego, CA
- 
- B-061 Atypical Late Presentation in Cryopyrin Associated Periodic Syndrome**  
 P. Lesmes - García Corrales<sup>1</sup>, A. Jurado Orozco<sup>2</sup>, J. Guerrero Montávez<sup>2</sup>. <sup>1</sup>University Hospital Virgen del Rocío, Seville, Spain, <sup>2</sup>University Hospital Virgen del Rocío, Seville, Spain
- 
- B-062 A Self-Imposed Gray Area? Analysis of Anti-Tissue Transglutaminase and Anti-Endomysial Antibody Discordance in a Celiac Disease Screening Serology Testing Algorithm**  
S. Ezra<sup>1</sup>, D. Orton<sup>1</sup>, J. L. Gifford<sup>2</sup>. <sup>1</sup>Alberta Precision Laboratories and Department of Pathology and Laboratory Medicine, University of Calgary, Calgary, AB, Canada, <sup>2</sup>DynaLIFE Medical Labs and Department of Pathology and Laboratory Medicine, University of Calgary, Calgary, AB, Canada
- 
- B-063 Towards Improving mRNA Vaccine Effectiveness in Immunosuppressed Adults: Elucidating the Mechanisms and Evaluating Potential Improvement Strategies**  
M. Narasimhan, K. Kim, L. Mahimainathan, R. Zhang, S. Malladi, A. Muthukumar. UT Southwestern Medical Center, Dallas, TX
- 
- B-064 Analytical and Diagnostic Performances of Anti-Integrin Antibody System in Inflammatory Bowel Disease**  
M. Schwalbe, O. McLachlan, A. Everts-van der Wind, T. Dervieux. Prometheus Laboratories, San Diego, CA
- 
- B-066 Evaluation on Effectiveness of Colloidal Gold Immunochromatography Assay for Rapid Detection of Carbapenemase-producing Enterobacteriaceae**  
 G. Yang, J. Yan, Z. Zhang, W. Yao, Y. Wang, H. Wang, Y. Su, Z. Zhou. Tianjin Enterprise Key Laboratory for Precision Diagnosis Technology of Invasive Fungal Diseases, Tianjin, China
- 
- B-067 Performance Assessment of a Newly Developed Lateral Flow Assay for the Quantification of Faecal Pancreatic Elastase**  
 J. Afonso, M. Schneider, D. Guschin, C. Gerhold, B. Ricken. BÜHLMANN Laboratories AG, Schönenbuch, Switzerland
- 
- B-068 Reference Intervals for Serum Free Light Chains when Ruling out Monoclonal Gammopathies in Subjects with Normal or Minimally Variant Electrophoretic Findings**  
L. Stezar, R. Elhady, H. Zari, G. Winston-McPherson, J. Carey, B. Cook. Henry Ford Hospital, Detroit, MI

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## CLINICAL & DIAGNOSTIC IMMUNOLOGY

### B-069 Performance Evaluation of a Ma2 Autoantibodies ELISA

A. Gorsh, T. Kryzer, A. McKeon, J. R. Mills, S. Pittock. *Mayo Clinic, Rochester, MN*

### B-070 Performance Assessment of an Immunoassay for Detection of APOE4 Carriers

A. G. Shields<sup>1</sup>, M. S. Shields<sup>1</sup>, I. Jiménez-González<sup>2</sup>, A. Rodríguez-Martin<sup>2</sup>, S. Ito<sup>3</sup>, D. Verbel<sup>4</sup>, J. Snyder<sup>1</sup>. <sup>1</sup>Siemens Healthcare Laboratory, LLC, Berkeley, CA, <sup>2</sup>Biocross S.L., Valladolid, Spain, <sup>3</sup>Eisai Co., Ltd., Tokyo, Japan, <sup>4</sup>Eisai Inc., Nutley, NJ

### B-071 Comparison of Humoral and Cellular Immune Responses Between ChAd-BNT Heterologous Vaccination and BNT-BNT Homologous Vaccination Following the Third BNT Dose: A Prospective Cohort Study

H. Kang<sup>1</sup>, W. Sim<sup>2</sup>, J. Jung<sup>1</sup>, J. Lee<sup>1</sup>, G. Ko<sup>1</sup>, H. Park<sup>1</sup>, K. Cha<sup>3</sup>, J. Choi<sup>4</sup>, K. Park<sup>5</sup>, E. Oh<sup>1</sup>. <sup>1</sup>Catholic University of Korea, Seoul, Korea, Republic of, <sup>2</sup>Department of Internal Medicines, The Armed Forces Capital Hospital, Seongnam, Korea, Republic of, <sup>3</sup>Seoul St. Mary's hospital, Seoul, Korea, Republic of, <sup>4</sup>Armed Forces Medical Command, Seongnam, Korea, Republic of, <sup>5</sup>Medical Corps, ROK Army, Seongnam, Korea, Republic of

### B-072 Analysis of Anti-SARS-Cov-2 S1-RBD and N IgG in Saliva and Serum

K. Shin<sup>1</sup>, H. Lee<sup>2</sup>, S. Yu<sup>3</sup>, S. Lee<sup>2</sup>, S. Lee<sup>2</sup>, W. Kim<sup>2</sup>. <sup>1</sup>Pusan National University Hospital, Pusan, Korea, Republic of, <sup>2</sup>Pusan National University Yangsan Hospital, Yangsan, Korea, Republic of, <sup>3</sup>Haeundae Paik Hospital, Inje University College of Medicine, Busan, Korea, Republic of

### B-073 The Clinical Utility of Reporting AC-2 Pattern With Anti-DFS70 Antibody

H. Choi<sup>1</sup>, C. Jeon<sup>2</sup>, S. Jeon<sup>1</sup>, S. Kee<sup>1</sup>. <sup>1</sup>Chonnam National University Hospital, Gwangju, Korea, Republic of, <sup>2</sup>Chonnam National University Research Institute of Medical Science, BMSGP, Chonnam National University Medical School, Hwasun, Korea, Republic of

### B-074 Sars-cov-2 Neutralizing Antibodies Measurement in Vaccinated and Infected Volunteers

J. Gong<sup>1</sup>, Y. Zhang<sup>2</sup>, Y. Wang<sup>3</sup>. <sup>1</sup>Beijing Strong biotechnologies, Inc, Huairou Dist, Beijing, China, <sup>2</sup>Beijing Strong Biotechnologies, Inc, Beijing, China, <sup>3</sup>Beijing Strong Biotechnologies, Inc, Beijing, China

### B-075 Biophysical Changes of Leukocyte Activation (and NETosis) in the Cellular Host Response to Sepsis

AACC  
ACADEMY

M. Sorrells<sup>1</sup>, Y. Seo<sup>2</sup>, M. Magnen<sup>2</sup>, R. Sheybani<sup>1</sup>, A. M. Shah<sup>1</sup>, H. T. Tse<sup>1</sup>, M. R. Looney<sup>2</sup>, H. O'Neal<sup>3</sup>. <sup>1</sup>Cytovale LLC, San Francisco, CA, <sup>2</sup>University of California San Francisco, San Francisco, CA, <sup>3</sup>LSU Health Sciences Center / Our Lady of the Lake Regional Medical Center, Baton Rouge, LA

### B-076 Comparison of Three Methods for the Detection of Antibodies Against Muscle-Specific Kinase

K. Luong<sup>1</sup>, B. K. Lozier<sup>1</sup>, C. L. Novis<sup>1</sup>, T. L. Smith<sup>2</sup>, L. K. Peterson<sup>3</sup>. <sup>1</sup>ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, <sup>2</sup>Department of Neurology University of Utah School of Medicine, Salt Lake City, UT, <sup>3</sup>Department of Pathology University of Utah School of Medicine, Salt Lake City, UT

### B-077 Comparison of SARS-CoV-2 Antibody Profile and Omicron-Specific Neutralizing Activity Before and After mRNA Booster Vaccines: Bivalent vs. Original Formulation

A. Windau<sup>1</sup>, J. Meyers<sup>1</sup>, X. Yang<sup>1</sup>, R. Pontoni<sup>1</sup>, C. Schmotzer<sup>2</sup>, J. Noguez<sup>2</sup>, F. Dong<sup>3</sup>, X. S. Zhang<sup>2</sup>. <sup>1</sup>University Hospitals Cleveland Medical Center, Cleveland, OH, <sup>2</sup>University Hospitals Cleveland Medical Center, Case Western Reserve University, Cleveland, OH, <sup>3</sup>Northeast Ohio Medical University College of Medicine, Rootstown, OH



# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## CLINICAL & DIAGNOSTIC IMMUNOLOGY

**B-078 Prevalence of Autoimmune Factors in Patients With Seizures of Unknown Etiology in Western China**

S. Guo<sup>1</sup>, Z. Meng<sup>2</sup>, M. Wang<sup>2</sup>, B. Ying<sup>2</sup>. <sup>1</sup>West China Hospital, Sichuan University, Chengdu, China, <sup>2</sup>West China Hospital, Sichuan University, Chengdu, China

**B-079 Identifying Heterogeneity of Systemic Connective Tissue Diseases by Applying Joint Dimension Reduction and Cluster Analysis to Immunomarkers**

J. Yu<sup>1</sup>, Y. Tseng<sup>2</sup>, W. Lin<sup>3</sup>, Y. Wang<sup>4</sup>, T. Lin<sup>1</sup>, C. Chang<sup>2</sup>, H. Wang<sup>1</sup>. <sup>1</sup>Department of Laboratory Medicine, Chang Gung Memorial Hospital, Taoyuan City, Taiwan, <sup>2</sup>Department of Computer Science, National Yang Ming Chiao Tung University, Hsinchu City, Taiwan, <sup>3</sup>Syu Kang Sport Clinic, Taipei City, Taiwan, <sup>4</sup>Department of Medicine, Harvard Medical School, Boston, MA

**B-080 Analytical Performance of ESPLINE HTLV-I/II**

A. Kin, K. Yamakawa, S. Kojima, A. Kaneko, K. Aoyagi. Fujirebio inc., Hachioji-shi, Tokyo, Japan

**B-081 Evaluation in Fundamental Performance of a Newly Developed Rapid Antigen Test Kit for Hepatitis B Core-related Antigen (HBcrAg)**

N. Yamamoto, S. Suzuki, K. Yamakawa, S. Kojima, A. Kaneko, S. Yagi, K. Aoyagi. Fujirebio Inc., Hachioji-shi, Tokyo, Japan

**B-082 Diagnostic and Clinical Characteristics of Neuroimmune Markers in a Tertiary Care Hospital**

B. Das, M. Mandani, M. Bhatt, J. Mani, A. Aggarwal, T. Raut. Kokilaben Dhirubhai Ambani Hospital and Medical Research Institute, Mumbai, India

**B-083 Novel High Affinity Monoclonal Antibodies for Specific Detection of Neurofilament Light Protein in Serum and Cerebrospinal Fluid**

K. Grönholm, E. Vesilähti, S. Eklén, T. Hämäläinen, M. Mattila, P. Tuomiranta. Medix Biochemica, Espoo, Finland

**B-084 Covid 19 Vaccines, Their Effectiveness, Side Effects and Complications in Vaccinated Patients**

G. Elahi. Dr Essa Laboratory & Diagnostic Centre, Karachi, Pakistan

**B-085 Sars-cov-2 nt-chip: A Multiplex Eia Platform for Detect Humoral Response and Neutralizing Antibodies Against Sars-cov-2**

J. R. Siqueira<sup>1</sup>, M. L. Moreira<sup>1</sup>, E. M. Carvalho<sup>1</sup>, F. Moruzzi<sup>2</sup>, D. D. Luche<sup>3</sup>, M. Kintrop<sup>4</sup>. <sup>1</sup>Fiocruz, Rio de Janeiro, Brazil, <sup>2</sup>NL Diagnóstica, São Paulo, Brazil, <sup>3</sup>University of São Paulo, São Paulo, Brazil, <sup>4</sup>Viramed, Munich, Germany

**B-086 High Precision T Cell Testing Using the T-SPOT Technology: Improved Cell Yields From Lower Volumes of Blood When the T-SPOT Technology is Used With the T-Cell Select Reagent Kit for Cell Isolation**

T. Jackson-Soutter, R. Rignall, M. H. Quinn, R. S. Ahmed, M. M. Dudek. Oxford Immunotec, Abingdon, United Kingdom

**B-087 The Antifouling Properties of BSA on Magnetic Beads are Affected by BSA Grade, Bead Type, and pH**

C. N. Kunkler, C. D. Warner. Proliant Health and Biologicals, Ankeny, IA

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## CLINICAL & DIAGNOSTIC IMMUNOLOGY

- B-088 Estimation of Antibodies to Hbsag and Liver Function Markers From a Large Laboratory Database in São Paulo, Brazil**  
G. S. Fernandes, G. C. Carvalho, D. R. Ramadan, S. Tufik, M. C. Feres. *Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil*
- 
- B-089 Development of a Secondary Standard for Quantitation of IgG antibodies to SARS-CoV-2 Proteins in a Multiplex Assay**  
N. Venkateswaran, J. Sarwar, W. M. Nelson, K. S. Venkateswaran. *Tetracore, Inc., Rockville, MD*
- 
- B-090 Evaluation of Clinical Serology Assays Through the Development of Linearity Materials for aHBs IgG, Rubella IgG, and Toxoplasma IgG**  
D. Avery<sup>1</sup>, J. Herod<sup>2</sup>, J. Pawlak<sup>2</sup>. <sup>1</sup>LGC Clinical Diagnostics, Cumberland FOreside, ME, <sup>2</sup>LGC Clinical Diagnostics, Cumberland Foreside, ME
- 
- B-091 Assessing Postvaccination SARS-CoV-2 Neutralizing Antibodies at Different Timepoints: A Laboratory-based Study**  
G. M. Souza, G. C. Carvalho, R. A. Nunes, F. M. Cristaldi, D. R. Ramadan, S. Tufik. *Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil*
- 
- B-092 Limited Clinical Utility of N-type Antibody Testing in Lambert-Eaton Myasthenic Syndrome**  
J. L. Wu, M. Majed, A. Cepress, A. Zekeridou, V. A. Lennon, S. J. Pittock, A. McKeon, C. J. Klein, D. Dubey, J. R. Mills. *Mayo Clinic, Rochester, MN*
- 
- B-093 Evaluation of the Association of Non-criteria Antiphospholipid Antibodies with the Presence of Lupus Anticoagulant**  
A. Saadalla, V. Nandakumar. *ARUP laboratories, University of Utah, Salt Lake City, UT*
- 
- B-094 Vaccination Anti-SARS-Cov2 Scheme Effect on Humoral Responses on Brazilian Cohort**  
N. B. Bacarov<sup>1</sup>, D. Christofolini<sup>2</sup>, C. L. Sano<sup>2</sup>, R. H. Dias<sup>1</sup>, F. T. Bellucco<sup>1</sup>, M. M. Soane<sup>1</sup>, B. Bianco<sup>2</sup>, C. P. Barbosa<sup>2</sup>. <sup>1</sup>EUROIMMUN Brazil, São Caetano do Sul, Brazil, <sup>2</sup>Centro Universitário Faculdade de Medicina do ABC (FMABC), Santo André, Brazil
- 
- B-095 Determination of Error Rates with Duplicate Analysis in Anti-Drug Antibody Testing**  
P. M. Vanderboom, K. T. Herbstritt, M. V. Willrich, A. E. Tebo, M. R. Snyder. *Mayo Clinic, Rochester, MN*
- 
- B-096 Are We Truly Choosing Wisely? An Assessment of Non-Specific Testing, Time to Diagnosis and Costs Related to the Diagnosis of Rheumatoid Arthritis**  
T. Borunda Duque<sup>1</sup>, V. Joy<sup>2</sup>. <sup>1</sup>Rhodes Group, Albuquerque, NM, <sup>2</sup>Thermo Fisher Scientific, Portage, PA
- 
- B-097 Storage Stability of HbA1c in Whole Blood Tubes at Room Temperature on the Abbott Alinity c Clinical Chemistry System**  
M. Berman<sup>1</sup>, X. Wang<sup>2</sup>, P. Cheng<sup>2</sup>, V. Kulasingam<sup>2</sup>. <sup>1</sup>Abbott Labs, North Chicago, IL, <sup>2</sup>University Health Network, Toronto, ON, Canada
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## CLINICAL & DIAGNOSTIC IMMUNOLOGY

- B-098 Analytical Performance Evaluation of Sigma Strong Clinical Chemistry Assays on the Alinity c System**  
M. Berman<sup>1</sup>, V. Bhartia<sup>2</sup>, X. Wang<sup>3</sup>, P. Cheng<sup>4</sup>, V. Kulasingam<sup>3</sup>. <sup>1</sup>Abbott Labs, North Chicago, IL, <sup>2</sup>Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Canada, Toronto, ON, Canada, <sup>3</sup>Division of Clinical Biochemistry, University Health Network, Toronto, Canada, Toronto, ON, Canada, <sup>4</sup>Division of Clinical Biochemistry, University Health Network, Toronto, Canada, North Chicago, IL
- 
- B-099 Development and Improvement of Novel MAST™ Infectious Controls for Serology Diagnostic Tests**  
D. Crandall, H. Wang, N. Krishnaswami, R. Hu. Thermo Fisher Scientific, Fremont, CA
- 
- B-100 Hbsag Performance Improvement of Novel MAST™ Infectious Controls for Serology Diagnostic Tests**  
D. Crandall, N. Krishnaswami, R. Hu. Thermo Fisher Scientific, Fremont, CA
- 
- B-101 Aquaporin 4 and Neuromyelitis Optica Spectrum Disorders**  
 T. Gonzalez Cejudo, T. de Haro Romero, L. Papay Ramirez, M. Lopez Velez, T. de Haro Muñoz. Hospital Universitario Clínico San Cecilio, Granada, Spain
- 
- B-102 Screening Food Allergies in our Health Primary Care Area**  
 T. De Haro Romero, C. Aldana, T. González Cejudo, T. de Haro Muñoz. Hospital Universitario Clínico San Cecilio, Granada, Spain
- 
- B-103 A Single Centre Experience of Anti-carbamylated Protein Antibody Testing in the Routine Evaluation of Rheumatoid Arthritis**  
 C. L. Novis<sup>1</sup>, H. A. Nelson<sup>2</sup>, D. L. Lebiedz-Odrobina<sup>2</sup>, V. L. Nandakumar<sup>2</sup>. <sup>1</sup>ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, <sup>2</sup>Department of Pathology, University of Utah School of Medicine, Salt Lake City, UT
- 
- B-104 Comparison of the Performance Characteristics of the Third Generation Anti-Cyclic Citrullinated Peptide CCP3.1 IgG/IgA and CCP3 IgG Assays**  
 C. L. Novis<sup>1</sup>, V. Nandakumar<sup>2</sup>. <sup>1</sup>ARUP Laboratories - University of Utah, Salt Lake City, UT, <sup>2</sup>Department of Pathology, University of Utah School of Medicine, Salt Lake City, UT
- 
- B-105 Proposal of Use of Serological And Molecular Markers for Hepatitis C Virus Infection**  
D. Rodríguez Cano, L. Valentín Aragón, S. Castañeda Nieto, F. Rodríguez Cantalejo. Reina Sofía University Hospital, Córdoba, Spain
- 
- B-106 Proposal of Use of Serological and Molecular Markers for Hepatitis C Virus Infection: Economical Evaluation**  
D. Rodríguez Cano, L. Valentín Aragón, S. Castañeda Nieto, F. Rodríguez Cantalejo. Reina Sofía University Hospital, Córdoba, Spain
- 
- B-107 Serodiagnosis of Anti-Glomerular Basement Membrane Disease Using a Newly Developed Chemiluminescence Immunoassay**  
M. Sabalza<sup>1</sup>, Y. Bestmann<sup>2</sup>, L. Hartwig<sup>2</sup>, A. Kühn<sup>1,2</sup>, C. Dähnrich<sup>2</sup>, W. Schlumberger<sup>2</sup>. <sup>1</sup>EUROIMMUN US, Mountain Lakes, NJ, <sup>2</sup>Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG,, Lübeck, Germany

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## CLINICAL & DIAGNOSTIC IMMUNOLOGY

- B-108 T-cell-Mediated Immunity Against SARS-CoV-2 in Health Care Workers: Head-to-Head Comparison of Two Interferon-Gamma Release Assays and Associations Between Cellular and Humoral Immunity**  
*M. Sabalza<sup>1</sup>, J. Martinek<sup>2</sup>, H. Tomášková<sup>2</sup>, A. Lochmanová<sup>2</sup>, H. Zelená<sup>2</sup>, J. Motlochová<sup>2</sup>, K. Dieckmann<sup>3</sup>, E. Grage-Griebenow<sup>3</sup>, S. Saschenbrecker<sup>3</sup>, D. Zapf<sup>3</sup>, V. Herbst<sup>3</sup>, E. Ježo<sup>2</sup>, J. Janošek<sup>4</sup>. <sup>1</sup>EUROIMMUN US, Mountain Lakes, NJ, <sup>2</sup>Public Health Institute Ostrava, Ostrava, Czech Republic, <sup>3</sup>Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG,, Lübeck, Germany, <sup>4</sup>Center for Health Research, Faculty of Medicine, University of Ostrava, Ostrava, Czech Republic*
- 
- B-109 Outcome of a Large Multicenter Prospective Clinical Study Aimed at Validating a Newly Developed VlsE1/pepC10 IgG/IgM Chemiluminescent Immunoassay (CLIA) in Conjunction with a New Automated Analyzer**  
*Z. Polston, K. Cichonski, D. Accardi, J. Torres, A. Torregroza, D. Ryan, M. Kopnitsky, R. Cruver, D. R. Zweitzig. ZEUS Scientific, Branchburg, NJ*
- 
- B-110 Validation of Digital and Automated anti-dsDNA IFA Interpretations Using the dIFine Automated Fluorescent Microscope System**  
*D. Accardi, D. Ryan, K. Cichonski, A. Torregroza, J. Torres, Z. Polston, M. Kopnitsky, D. R. Zweitzig. ZEUS Scientific, Branchburg, NJ*
- 
- B-111 Parallel Detection of Antibodies Against CDR2L and CDR2 Increases the Diagnostic Specificity in Serological Diagnostics of Paraneoplastic Cerebellar Degeneration**  
*I. Venkataraman<sup>1</sup>, A. Ott<sup>2</sup>, M. Scharf<sup>2</sup>, R. Miske<sup>2</sup>, D. Jäger<sup>2</sup>, J. Honnorat<sup>3</sup>, L. Komorowski<sup>2</sup>, T. Scheper<sup>2</sup>, W. Meyer<sup>2</sup>. <sup>1</sup>EUROIMMUN US, Mountain Lakes, NJ, <sup>2</sup>Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG,, Lübeck, Germany, <sup>3</sup>French Reference Center for Paraneoplastic Neurological Syndrome, Hospices Civils de Lyon, Institut NeuroMyoGene INSERM U1217/CNRS UMR 5310, Université de Lyon - Université Claude Bernard Lyon 1, F-69372, Lyon, France*
- 
- B-112 Routine Application of PR3- and MPO-ANCA Chemiluminescence Immunoassays Demonstrates Enhanced Detection Rates**  
*I. Venkataraman<sup>1</sup>, J. van Beers<sup>2</sup>, J. Damoiseaux<sup>2</sup>, C. Dähnrich<sup>3</sup>, A. Kühn<sup>3</sup>, W. Schlumberger<sup>3</sup>. <sup>1</sup>EUROIMMUN US, Mountain Lakes, NJ, <sup>2</sup>Central Diagnostic Laboratory, Maastricht University Medical Center,, Maastricht,, Netherlands, <sup>3</sup>Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG, Lübeck, Germany*
- 
- B-113 Diagnostic Value of Autoantibodies Against D-3-Phosphoglycerate Dehydrogenase (PGDH) Among Patients With Liver Diseases**  
*I. Venkataraman<sup>1</sup>, X. Feng<sup>2</sup>, Y. Liu<sup>3</sup>, I. Karl<sup>4</sup>, A. Ott<sup>5</sup>, T. Scheper<sup>5</sup>, W. Meyer<sup>5</sup>, H. Yan<sup>2</sup>. <sup>1</sup>EUROIMMUN US, Mountain Lakes, NJ, <sup>2</sup>Central Laboratory for Infection & Immunity, Beijing YouAn Hospital, Capital Medical University,, Beijing, China, <sup>3</sup>Central Laboratory for Infection & Immunity, Beijing YouAn Hospital, Capital Medical University, Beijing, China, <sup>4</sup>Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG,, Lübeck,, Germany, <sup>5</sup>Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG,, Lübeck, Germany*
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## DATA ANALYTICS, INFORMATICS & STATISTICS

- B-118 Evaluation of Thirteen Commercially Available Clinical Chemistry Assays on the Alinity® c System**  
 H. Li, M. Li, J. Wang, H. Guo. *Abbott Core Diagnostics, Shanghai, China*
- 
- B-120 Atellica® Ci 1900 Assay Sigma Metrics Evaluation**  
 K. W. Kolewe<sup>1</sup>, H. Leibold<sup>2</sup>, S. A. Lewisch<sup>1</sup>, J. T. Snyder<sup>1</sup>. <sup>1</sup>Siemens Healthineers, Newark, DE, <sup>2</sup>Siemens Healthineers, Tarrytown, NY
- 
- B-121 Infectdiagno: Robust Diagnosis of Acute Bacterial and Viral Infections Via Host Gene Expression Based Ensemble Machine Learning Algorithm**  
 Y. Shen, D. Han, S. Zheng, Y. Chen. *Zhejiang University, Hangzhou, China*
- 
- B-122 Estimated Improvement of Sigma Error Metrics Associated with Manual Secondary Result Review, and Subsequent Artificial Intelligence Driven Quality Assurance**  
 J. Bornhorst<sup>1</sup>, D. Rokke<sup>1</sup>, P. Day<sup>1</sup>, S. Erdahl<sup>1</sup>, M. Wiczorek<sup>2</sup>, R. Carter<sup>2</sup>, P. Jannetto<sup>1</sup>. <sup>1</sup>Mayo Clinic, Rochester, MN, <sup>2</sup>Mayo Clinic, Jacksonville, FL
- 
- B-123 Utilization of Five Data Mining Algorithms Combined With Simplified Preprocessing to Establish Reference Intervals of Thyroid Related Hormones for Nonelderly Adults**  
 AACC  
ACADEMY  
 J. Zhong, C. Ma, L. Hou, Y. Yin, F. Zhao, Y. Hu, A. Song, D. Wang, L. Li, X. Cheng, L. Qiu. *Department of Laboratory Medicine; Peking Union Medical College Hospital, Peking Union Medical College & Chinese Academy of Medical Sciences, Beijing, China*
- 
- B-124 Applicability of Measurement Uncertainty in the Validity of Results in the Clinical Laboratory**  
 O. Martínez Nieto<sup>1</sup>, A. Garzón<sup>2</sup>, V. Barrera<sup>3</sup>, A. Romero<sup>4</sup>, A. Garzón<sup>4</sup>, N. Hernández<sup>4</sup>.  
<sup>1</sup>Fundacion Santa Fe de Bogotá, Bogota, Colombia, <sup>2</sup>Scientific Director of Auditoria Calidad y Gestión Ltda., Bogota, Colombia, <sup>3</sup>Fundacion Santa Fe de Bogota, Bogota, Colombia, <sup>4</sup>Auditoria Calidad y Gestión Ltda., Bogota, Colombia
- 
- B-125 Artificial Intelligence Application to Improve the Algorithm for Autoverification of Results of Biochemical Markers That Assess Thyroid Function**  
 G. Dip<sup>1</sup>, V. Colombo<sup>2</sup>, S. Lejona<sup>2</sup>, A. Lombardo<sup>2</sup>. <sup>1</sup>TURNER Laboratory, Rosario, Argentina, <sup>2</sup>Laboratorios TURNER, Rosario, Argentina
- 
- B-126 Comparison of Liftover Tools for Conversion to Genome Reference Consortium Human Build 38 from Human Genome 19**  
 K. Park<sup>1</sup>, J. Park<sup>2</sup>. <sup>1</sup>Samsung Changwon Hospital, Sungkyunkwan University School of Medicine, Changwon, Korea, Republic of, <sup>2</sup>Samsung Medical Center, Seoul, Korea, Republic of
- 
- B-127 An Automated Approach to Obtain Delta Check Limits**  
 T. Kampftrath<sup>1</sup>, S. Roach<sup>2</sup>. <sup>1</sup>Siemens, Walpole, MA, <sup>2</sup>Siemens, Walpole, MA
- 
- B-128 Leveraging a Cloud-based LIMS for Securely Managing High-Quality Specimens and Metadata at Fred Hutchinson Cancer Center**  
 M. K. Chatterjee<sup>1</sup>, S. Paul<sup>1</sup>, A. Apte<sup>2</sup>, L. Aicher<sup>3</sup>, B. Seaton<sup>3</sup>, C. Yeung<sup>3</sup>. <sup>1</sup>CloudLIMS Lab Solutions (India) Pvt. Ltd., Indore, India, <sup>2</sup>CloudLIMS.com, Wilmington, DE, <sup>3</sup>Fred Hutchinson Cancer Center, Seattle, WA

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## DATA ANALYTICS, INFORMATICS & STATISTICS

- B-129 Uncertainty Calculations for Reference Measurement Procedures**  
*E. Albrecht<sup>1</sup>, A. Geistanger<sup>1</sup>, A. Hilger<sup>1</sup>, F. Bauland<sup>2</sup>, J. Taibon<sup>1</sup>. <sup>1</sup>Roche Diagnostics GmbH, Penzberg, Germany, <sup>2</sup>Chrestos Concept GmbH & Co. KG, Essen, Germany*
- 
- B-130 Establishment of Reference Interval for Total Carbon Dioxide Using Indirect Methods in Chinese Population at High-altitude Area**  
*D. Mu. Peking Union Medical Hospital College, Beijing, China*
- 
- B-131 The Prevalence and Clinical Relevance of the DFS Immunofluorescent Staining Pattern in a Large ANA-positive Cohort**  
*Y. Zhang<sup>1</sup>, L. V. Rao<sup>2</sup>. <sup>1</sup>UMass Chan Medical School, UMass Memorial Medical center, Worcester, MA, <sup>2</sup>UMass Chan Medical School, UMass Memorial Medical center, Quest Diagnostics, Worcester, MA*
- 
- B-132 Artificial Intelligence-based Clinical Pharmacogenetic Interpretation of CYP2C9 Variants and Directed Evolution**  
*C. Li<sup>1</sup>, F. Xiao<sup>2</sup>. <sup>1</sup>Peking University, Beijing, China, <sup>2</sup>Beijing Hospital, Beijing, China*
- 
- B-133 Beckman Coulter's DxC 500 AU Clinical Chemistry Analyzer, Assessed by Six Sigma Metrics, Meets and Exceeds the Demands of CLIA 2024 Performance Specifications**  
*T. Rice<sup>1</sup>, M. Cavalleri<sup>2</sup>, S. Frost<sup>2</sup>, S. O'Mahony<sup>2</sup>, S. Medina<sup>3</sup>, S. Westgard<sup>4</sup>. <sup>1</sup>Beckman Coulter Ireland, O'Callaghans Mills, Ireland, <sup>2</sup>Beckman Coulter Ireland, O'Callaghan's Mills, Ireland, <sup>3</sup>Beckman Coulter, Brea, CA, <sup>4</sup>Westgard QC, Madison, WI*
- 
- B-134 Artificial Intelligence (AI)-Driven Clinical Decision Support: Potential to Predict the Risk for Multiple Sclerosis**  
AACC  
ACADEMY  
*R. Gopalan. Siemens Healthineers, Tarrytown, NY*
- 
- B-135 Research Trends and Hotspots Of Glial Fibrillary Acidic Protein in Body Fluid for Alzheimer's Disease: A Bibliometric Analysis**  
*Y. Zou, L. Qiu. Peking Union Medical College Hospital, Beijing, China*
- 
- B-136 Indirect Estimation and Verification Tool for Reference Intervals Using Unsupervised Machine Learning**  
*L. M. Vieira<sup>1</sup>, A. C. Dias<sup>2</sup>, D. d. Oliveira<sup>3</sup>, C. M. Dias<sup>4</sup>, T. Almeida<sup>5</sup>, J. R. Campos<sup>6</sup>. <sup>1</sup>Dasa, Belo Horizonte, Brazil, <sup>2</sup>Sabin, Brasilia, Brazil, <sup>3</sup>Promed, Panama, Panama, <sup>4</sup>Dasa, São Paulo, Brazil, <sup>5</sup>Einstein, São Paulo, Brazil, <sup>6</sup>Lustosa, Belo Horizonte, Brazil*
- 
- B-137 Development of a Novel Software System for Providing Real-Time Laboratory Test Information to Clinicians at Point of Order Entry**  
*C. S. Douglas, M. Zaydman. Washington University School of Medicine in St. Louis, St. Louis, MO*
- 
- B-138 Skewed Demographics of Patient Population Contributes to Selection Biases in Clinical Study Population**  
*S. Vetteson-Trutza, Y. Yang, M. Snyder, D. Jazdzewski. Mayo Clinic, Rochester, MN*
- 
- B-139 Reexamination of the Impact of Fasting on Laboratory Test Results Using Large-scale Real-world Data**  
*S. Shin<sup>1</sup>, J. Chang<sup>1</sup>, T. Um<sup>1</sup>, C. Cho<sup>1</sup>, S. Kim<sup>2</sup>. <sup>1</sup>Inje University Ilsan Paik Hospital, Goyang, Korea, Republic of, <sup>2</sup>Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea, Republic of*
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## DATA ANALYTICS, INFORMATICS & STATISTICS

- B-141 Surprisingly Good Agreement of Siemens and Roche ALT Reference Change Values in Ottawa Hospital Outpatients Distilled from 5 years and 3 years of Siemens and Roche ALT, Respectively**

G. Cembrowski<sup>1</sup>, J. Qiu<sup>1</sup>, C. McCudden<sup>2</sup>. <sup>1</sup>University of Alberta, Edmonton, AB, Canada, <sup>2</sup>Ottawa Hospital, Ottawa, ON, Canada

- B-142 Development and Clinical Validation of Artificial Intelligence Assisted Flow Cytometry Diagnosis for Acute Leukemia**

Z. Lu<sup>1</sup>, Y. E. Lyu<sup>2</sup>, A. Gao<sup>2</sup>, T. S. Yeager<sup>2</sup>, M. Morita<sup>2</sup>, S. Wang<sup>3</sup>, A. Wang<sup>3</sup>, G. Fan<sup>2</sup>. <sup>1</sup>Oregon Health & Science University, Portland, OR, <sup>2</sup>Oregon Health & Science University, Portland, OR, <sup>3</sup>DeepCyto, LLC, Portland, OR

- B-143 Distribution of Uricemia Levels in the Population of a Third-Level Hospital — Study of the Prevalence of Hypouricemia**

A. I. Corominas<sup>1</sup>, G. H. Casal<sup>1</sup>, F. M. Vommaro<sup>1</sup>, G. B. Riquelme<sup>1</sup>, S. M. Balconi<sup>1</sup>, A. E. Damiano<sup>2</sup>. <sup>1</sup>Hospital Nacional Prof A Posadas, Buenos Aires, Argentina, <sup>2</sup>Laboratorio de Biología de la Reproducción, Instituto de Fisiología y Biofísica Bernardo Houssay (IFIBIO)-CONICET, Buenos Aires, Argentina

- B-144 A Comparative Analysis of Unsupervised Machine Learning Algorithms for Polyploidy Analysis Using Flow Cytometry**

AACC  
ACADEMY

S. Lee, K. Kim, N. Kim, J. Park, J. Lee, Y. Cho, D. Kim. Jeonbuk National University Medical School and Hospital, Jeonju, Korea, Republic of

- B-145 An R Shiny App for Automated Peak Deconvolution, Interpretation, and Quantitation of Monoclonal Proteins Using Capillary Electrophoresis Immunotyping Data**

AACC  
ACADEMY

S. Cotten. UNC, Chapel Hill, NC

- B-146 Discriminative Index: A Novel Indicator for Evaluating Machine Learning Algorithms in Laboratory Medicine**

J. Yu<sup>1</sup>, W. Lin<sup>2</sup>, W. Lin<sup>3</sup>, Y. Wang<sup>4</sup>, Y. Tseng<sup>5</sup>, H. Wang<sup>3</sup>. <sup>1</sup>Chang Gung Memorial Hospital, Taoyuan City, Taiwan, <sup>2</sup>Syu Kang Sport Clinic, Taipei City, Taiwan, <sup>3</sup>Department of Laboratory Medicine, Chang Gung Memorial Hospital, Taoyuan City, Taiwan, <sup>4</sup>Department of Medicine, Harvard Medical School, Boston, MA, <sup>5</sup>Department of Computer Science, National Yang Ming Chiao Tung University, Hsinchu City, Taiwan

- B-147 Evaluation of Laboratory Database: Is There a Causal Relationship Between COVID-19 and Type 1 Diabetes**

M. C. Castelo<sup>1</sup>, M. Cruz<sup>2</sup>, S. P. Bandeira<sup>1</sup>, A. C. Lopes<sup>3</sup>, L. L. Cavalcante<sup>1</sup>. <sup>1</sup>DASA, Fortaleza, Brazil, <sup>2</sup>DASA, Salvador, Brazil, <sup>3</sup>DASA, Florianópolis, Brazil

- B-148 Analytical Validation and Performance Characteristics of A Targeted Metagenomics Next-generation Sequencing Respiratory Pathogen ID/AMR Panel**

A. Vest, H. Houdeshell, E. Arnold, I. Harrison, M. Hardison, C. Clark. Aegis Sciences Corporation, Nashville, TN

- B-149 Next-generation Sequencing Via Targeted Metagenomics for Broad Antimicrobial Resistance Surveillance**

H. Houdeshell, A. Vest, E. Arnold, X. Thacker, I. Harrison, C. Clark, M. Hardison. Aegis Sciences Corporation, Nashville, TN

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## DATA ANALYTICS, INFORMATICS & STATISTICS

- B-150 Impact of Clinical Catastrophic Events on Individual Reference Values for 20 Analytes: Results of a Six-Measurement Study**  
T. F. de Almeida, I. F. Ferreira dos Santos Silva, T. Branchi Evans Salvia, D. Shoji Hayama, A. Carvalho da Silva, C. L. Pitangueira Manguiera. *Albert Einstein's Hospital, São Paulo, Brazil*
- 
- B-151 Estimation of the Uric Acid Reference Interval by the Indirect Method Using an Unsupervised Machine Learning Tool and R Programming Language**  
D. G. Canali<sup>1</sup>, A. C. Lopes<sup>2</sup>, L. M. Vieira<sup>3</sup>, G. Y. Garoli<sup>4</sup>, C. d. Sabino<sup>4</sup>, C. M. Dias<sup>4</sup>, G. Zampieri<sup>4</sup>, K. G. Muller<sup>5</sup>. <sup>1</sup>*Diagnóstico da America, São Jose, Brazil*, <sup>2</sup>*Diagnóstico da America, São José, Brazil*, <sup>3</sup>*Diagnóstico da America, Belo Horizonte, Brazil*, <sup>4</sup>*Diagnóstico da America, São Paulo, Brazil*, <sup>5</sup>*Diagnóstico da America, Joinville, Brazil*
- 
- B-152 Estimation of Creatinine Reference Interval (RI) by the Indirect Method Using an Unsupervised Machine Learning Tool and R Programming Language**  
D. G. Canali<sup>1</sup>, A. C. Lopes<sup>2</sup>, L. M. Vieira<sup>3</sup>, B. d. Santos<sup>4</sup>, C. d. Sabino<sup>4</sup>, C. M. Dias<sup>4</sup>, G. Zampieri<sup>4</sup>. <sup>1</sup>*Diagnóstico da America, São Jose, Brazil*, <sup>2</sup>*Diagnóstico da America, São José, Brazil*, <sup>3</sup>*Diagnóstico da America, Belo Horizonte, Brazil*, <sup>4</sup>*Diagnóstico da America, São Paulo, Brazil*
- 
- B-153 Acceleration vs. Time Data for Two Pneumatic Tube Specimen Transport Routes: Comparison of Distributions of Jerk (d(acceleration)/dt) and Theta (Change in Angle)**  
C. J. Mattiello, D. F. Stickle. *Jefferson University Hospital, Philadelphia, PA*
- 
- B-154 Characterizing Ability of the Serum Potassium (K) to Flag Hypokalemia or Hyperkalemia as Observed in Plasma: A Simulation Study**  
D. F. Stickle<sup>1</sup>, K. R. Koob<sup>1</sup>, C. R. McCudden<sup>2</sup>. <sup>1</sup>*Jefferson University Hospital, Philadelphia, PA*, <sup>2</sup>*University of Ottawa, Ottawa, ON, Canada*
- 
- B-155 Sigma Metric Equation Proposed by James O. Westgard is Wrong**  
Z. C. Brooks. *AWESome Numbers Inc, Worthington, ON, Canada*
- 
- B-156 Impact of Seven Incremental Scenarios of QC Strategies**  
Z. C. Brooks. *AWESome Numbers Inc, Worthington, ON, Canada*
- 
- B-157 Metrics to Express Risk in Terms of A. Risk Sources, B. Potential Events, C. Their Consequences and D. Their Likelihood — as Recommended by ISO 31000**  
Z. Brooks. *AWESome Numbers Inc, Worthington, ON, Canada*
- 
- B-158 Application of Statistical Analysis as a Tool to Monitor the Variation of SARS-CoV-2 and Other Respiratory Viruses**  
G. C. Carvalho, J. M. Nurmberger, B. B. Perez, D. R. Ramadan, S. Tufik. *Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil*
- 
- B-159 Data Mining With the Bhattacharya Method as a Tool for Reference Interval Determination in Populations With Thyroid Disorders**  
C. D. Partel, G. C. Carvalho, M. C. Martino, D. R. Ramadan, S. Tufik. *Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil*
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MASS SPECTROMETRY & SEPARATION SCIENCES

- B-160 Quantification of Titanium Using Inductively Coupled Plasma Mass Spectrometry ICP-MS to Monitor Toxic Levels in Blood**  
M. O. Soares<sup>1</sup>, L. T. Paulucci<sup>2</sup>, F. P. Mazete<sup>2</sup>, D. R. Ramadan<sup>2</sup>, S. Tufik<sup>2</sup>, E. K. Sugawara<sup>2</sup>. <sup>1</sup>AFIP - Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil, <sup>2</sup>AFIP - Associação Fundo de Incentivo à Pesquisa, São Paulo, Brazil
- 
- B-161 Mass Spectrometric Assay for the Early Diagnosis of Barth Syndrome**  
S. Byeon<sup>1</sup>, H. Vernon<sup>2</sup>, D. Oglesbee<sup>1</sup>, A. Pandey<sup>1</sup>. <sup>1</sup>Mayo Clinic, Rochester, MN, <sup>2</sup>Johns Hopkins University, Baltimore, MD
- 
- B-162 Direct Quantitation of Five Immunosuppressant Drugs in Dried Whole Blood Spots By a Fully Automated DSM-LC-MS System**  
R. Gibson, J. Guo, S. Samra. Thermo Fisher Scientific, San Jose, CA
- 
- B-163 Development and Validation of a New Quantitative LC-MS/MS Method for Vitamin K1 in Plasma and Serum**  
Z. Wu, A. K. Ghoshal. Quest Diagnostics Nichols Institute, Valencia, CA
- 
- B-164 Rapid, Low-Cost and Reliable Quantification of Non-Cholesterol Sterols Based on LC-MS/MS and Establishment of Gender-Specific Reference Intervals**  
K. Wang, X. gao, W. Zhang, h. cong, Z. Zhou. Beijing Key Laboratory for Molecular Diagnostics of Cardiovascular Diseases, State Key Laboratory of Cardiovascular Disease, National Center for Cardiovascular Diseases & Fuwai Hospital, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing, China
- 
- B-165 Establishment of a Labile Bound Copper and Labile Bound Copper Ratio Reference Interval in a Healthy Adult Population**  
A. Bitzer, P. Day, J. Fox, M. Wermers, P. Jannetto, J. Bornhorst. Mayo Clinic, Rochester, MN
- 
- B-166 Effect of Urine Adulteration on Quantifying Both Delta 8- and Delta 9-carboxy Tetrahydrocannabinol Using a New UPLC-tandem Mass Spectrometry Method**  
Y. Chai, M. Bjergum, A. Maus, R. Lahr, J. Tufariello, P. Ladwig, L. Langman, P. Jannetto. Mayo Clinic, Rochester, MN
- 
- B-167 Development and Validation of Liquid Chromatography-Tandem Mass Spectrometry Method for Therapeutic Drug Monitoring of Treosulfan and Busulfan**  
J. Ryu, S. Lee, S. Kim, W. Lee, S. Chun, W. Min. Asan Medical Center, Seoul, Korea, Republic of
- 
- B-169 Beta-hydroxybutyrate/Acetoacetate Ratio as Indicator for Mitochondrial Diseases Utilizing a Novel LC-MS/MS Based Ketone Body Panel**  
AACC  
ACADEMY  
R.H. Kemperman, R. D. Ganetzky, S. R. Master. Children's Hospital of Philadelphia, Philadelphia, PA
- 
- B-170 Identifying Metabolic Phenotyping Variability in a Cellular Model of Barth Syndrome**  
J. Kodger. Cleveland State University, Cleveland, OH
- 
- B-171 Comparison of Intact PTH and PTH Assays Using LC-MS/MS Among Non-Dialysis Dependent Chronic Kidney Disease Patients**  
H. Park, M. Lee, K. Lee. Seoul Clinical Laboratories, Yongin-si, Korea, Republic of
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MASS SPECTROMETRY & SEPARATION SCIENCES

- B-172 Development and Validation of an LC-MS/MS Assay for Quantification of Glecapravir/Pibrentasvir in Human Plasma**  
K. Garza, A. Pandey, M. Marzinke. *Johns Hopkins University School of Medicine, Baltimore, MD*
- 
- B-173 Simultaneous Quantification of the Indicative Panel for Secondary Hypertension With Coupling of HLB-magnetic Affinity and LC MS/MS**  
X. Gao<sup>1</sup>, J. Qu<sup>2</sup>, L. Lin<sup>3</sup>, Q. Wang<sup>4</sup>, S. Liu<sup>3</sup>. <sup>1</sup>*University of Chinese Academy of Sciences, Beijing, China*, <sup>2</sup>*The Third People's Hospital of Shenzhen, Shenzhen, China*, <sup>3</sup>*Beijing Genomics Institute, Shenzhen, China*, <sup>4</sup>*Biosepur, Suzhou, China*
- 
- B-174 Simple and Accurate Quantification of Four Direct Oral Anticoagulants in Plasma Using UPLC-MS/MS**  
C. Lin, Y. Huang, C. Cheng, Y. Yeh, S. Chang. *Chang Gung Memorial Hospital, Taoyuan, Taiwan*
- 
- B-175 Phytochemicals in *K. pinnata* and the Antioxidant Activity of Combined *K. pinnata* and Metformin Preparations on Normal and Diabetic Skeletal Muscle Cells**  
P. Ramon, F. Omoruyi, J. Sparks. *Texas A&M University-Corpus Christi, Corpus Christi, TX*
- 
- B-177 Quantitative Measurement of Vitamin B<sub>1</sub> in Whole Blood Using a Multiplex ESI-LC-MS/MS System**  
P. P. Vachali<sup>1</sup>, E. Kish-Trier<sup>2</sup>, R. N. Law<sup>1</sup>, E. L. Frank<sup>3</sup>. <sup>1</sup>*ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT*, <sup>2</sup>*ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT*; *NanoSpot.ai, Salt Lake City, UT*, <sup>3</sup>*ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT*; *University of Utah Health, Salt Lake City, UT*
- 
- B-178 Clinical Routine Ultrasensitive Lc-Ms/Ms Method Development for Analysis of 17β-Estradiol In Human Sserum**  
P. Y. Tokuyama, V. C. Rocha, G. Zampieri, P. S. Osorio, A. C. Lopes. *Dasa, São Paulo, Brazil*
- 
- B-179 Development of a Reflex Mass Spectrometric Workflow for Confirmation of IgE and IgD Specificity Paraproteins Utilising the EXENT® Platform**  
N. Wright<sup>1</sup>, W. Bermingham<sup>2</sup>, A. Rollins<sup>1</sup>, O. Berlanga<sup>1</sup>, S. Pasha<sup>1</sup>, S. North<sup>1</sup>, G. Wallis<sup>1</sup>, S. Harding<sup>1</sup>. <sup>1</sup>*The Binding Site, Birmingham, United Kingdom*, <sup>2</sup>*Immunology, Heartlands Hospital, Birmingham, United Kingdom*
- 
- B-180 The EXENT® Solution Provides Evidence for High Prevalence of Multiple M-proteins in Monoclonal Gammopathies**  
AACC ACADEMY  
S. Allen, J. Birtwistle, O. Berlanga, G. Malin, G. Lakos. *The Binding Site, Birmingham, United Kingdom*
- 
- B-181 Multi-centre Analytical Performance Evaluation of the EXENT® Solution for Identification and Quantitation of Monoclonal Immunoglobulins**  
R. Stanton<sup>1</sup>, D. McEntee<sup>1</sup>, D. Matters<sup>1</sup>, S. Ijaz<sup>1</sup>, A. Khalid<sup>1</sup>, D. Barnidge<sup>2</sup>, L. Ouverson<sup>2</sup>, D. Sakrikar<sup>2</sup>, J. Ashby<sup>1</sup>, N. Marrott<sup>1</sup>, I. M. Ghobrial<sup>3</sup>, H. El-Khoury<sup>3</sup>, L. Bertamini<sup>3</sup>, G. Fleming<sup>3</sup>, E. Horowitz<sup>3</sup>, A. S. Neish<sup>4</sup>, Z. M. Solis<sup>4</sup>, K. B. McLendon<sup>4</sup>, S. North<sup>1</sup>. <sup>1</sup>*The Binding Site, Birmingham, United Kingdom*, <sup>2</sup>*The Binding Site, Rochester, MN*, <sup>3</sup>*Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, MA*, <sup>4</sup>*Emory University School of Medicine, Atlanta, GA*
- 
- B-182 Advantage of Core-Shell Particle Morphology Over Fully Porous HPLC Column for the Analysis of Vitamin K Compounds by LC-MS/MS**  
S. W. Huq, Z. Aqeel. *Phenomenex, Torrance, CA*
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MASS SPECTROMETRY & SEPARATION SCIENCES

- B-183** The Impact of 3-EPI-25-Hydroxyvitamin D on 25-Hydroxyvitamin D Measurement by Liquid Chromatography/Mass Spectrometry  
*K. A. Turner, T. W. Radecki, E. L. Boughner, K. D. Bolhuis. Corewell Health, Grand Rapids, MI*
- 
- B-184** Development and Validation of a High-Performance Liquid Chromatography-Mass Spectrometry Method for Analyzing Phenolic Acids Metabolites in Feces  
*B. Odat, N. Abdelkader. Cleveland State University, Cleveland, OH*
- 
- B-185** High Throughput ID-LCMSMS Method for Simultaneous Quantitation of Monosaccharides in Human Serum  
*C. Y. Tse<sup>1</sup>, L. Zhang<sup>1</sup>, K. Dahya<sup>1</sup>, F. Pokuah<sup>1</sup>, O. Sugahara<sup>1</sup>, V. Delatour<sup>2</sup>, U. Danilenko<sup>1</sup>, H. W. Vesper<sup>1</sup>. <sup>1</sup>Centers for Disease Control and Prevention, Atlanta, GA, <sup>2</sup>Laboratoire National de métrologie et d'essais (LNE), Paris, France*
- 
- B-186** Investigating LC Column Selectivity for 19 Steroids in a Clinical Research Setting  
*M. Freige, S. J. Marin. Phenomenex, Torrance, CA*
- 
- B-187** Evaluation of Clinical Utility of LC-MS/MS Method for Thyroglobulin Measurement in Comparison With Immunoradiometric Assay and Chemiluminescence Microparticle Immunoassay  
*E. Yoon<sup>1</sup>, S. Kim<sup>1</sup>, H. Oh<sup>1</sup>, H. Park<sup>2</sup>, S. Kim<sup>2</sup>, S. Lee<sup>1</sup>. <sup>1</sup>Department of Laboratory Medicine and Genetics, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea, Republic of, <sup>2</sup>Division of Endocrinology and Metabolism, Department of Medicine, Thyroid Center, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea, Republic of*
- 
- B-189** Evaluate the Suitability of Urinary Reference Intervals for Organophosphate Flame Retardants in Healthy Adult Population from Southern Taiwan  
*C. M. Chen<sup>1</sup>, H. L. You<sup>2</sup>, W. T. Huang<sup>2</sup>. <sup>1</sup>Kaohsiung Chang Gung Memorial Hospital, Kaohsiung City, Taiwan, <sup>2</sup>Chang Gung Medical Foundation Kaohsiung Branch, Kaohsiung City, Taiwan*
- 
- B-190** Development of an LC-MS/MS Method for Analysis of 7 $\alpha$ -hydroxy-4-cholesten-3-one and Investigation Into its Utility as a Biomarker for Bile Acid Diarrhoea in the United Kingdom  
*L. Starbrook<sup>1</sup>, A. Kumar<sup>2</sup>, C. Ford<sup>1</sup>, M. Brookes<sup>2</sup>, R. Gama<sup>1</sup>. <sup>1</sup>Black Country Pathology Services, Wolverhampton, United Kingdom, <sup>2</sup>New Cross Hospital, Wolverhampton, United Kingdom*
- 
- B-191** Development of a Simple, Robust, and Accurate LC-MS/MS Method for the Quantification of 17 Therapeutic Drugs: Initial Validation Results  
*D. A. Payto, X. Tang, R. Giles, R. Wei, J. M. Colón-Franco. Cleveland Clinic, Cleveland, OH*
- 
- B-192** An LC-MS/MS Method Using the Xevo TQ Absolute Mass Spectrometer for the Combined Analysis of Aldosterone and Plasma Renin Activity in Plasma for Clinical Research  
*R. Wardle, S. Balloch, G. Hammond, D. Foley, L. Calton. Waters Corporation, Wilmslow, United Kingdom*
- 
- B-194** Development and Validation of Rapid LC-MS/MS Method for Simultaneous Determination of 8-iso-PGF<sub>2 $\alpha$</sub>  and 11-DHTXB<sub>2</sub> in Human Urine  
*N. Abdelkader, B. Odat. Cleveland State University, Cleveland, OH*

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MASS SPECTROMETRY & SEPARATION SCIENCES

- B-195 Development and Validation of a Liquid Chromatography-mass Spectrometry (LC-MS/MS) Method to Monitor Serum DHT Levels**  
L. R. Sanches, P. Cruz, A. Leme, M. Batista, C. Ferreira. *Hospital Albert Einstein, São Paulo, Brazil*
- 
- B-196 Lc/ms-ms Quantification of Myo-inositol: A Novel Biomarker for Kidney Disease**  
C. Omosule, C. Blair, E. Herries, C. Farnsworth, D. Dietzen, J. Gaut. *Washington University in St. Louis, St. Louis, MO*
- 
- B-197 Separation of Bile Acid Muricholic Acid Enantiomers By C18 Reversed-phase HPLC as a Function of Component Polarity Values of the Mobile Phase**  
M. Khair, D. J. Anderson. *Cleveland State University, Cleveland, OH*
- 
- B-198 Web-based Application of an Automated Quality Assurance Monitoring System or a Pain Management Panel by Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)**  
M. Jarrells, S. Armstrong, C. Hickey, C. Bumgardner, M. Yu. *University of Kentucky, Lexington, KY*
- 
- B-199 Performance of the MasSpec Pen for Intraoperative Margin Evaluation During Breast Conserving Surgeries**  
K. E. Liebenberg<sup>1</sup>, R. J. DeHoog<sup>1</sup>, A. E. Montgomery<sup>1</sup>, M. F. Keating<sup>2</sup>, A. De Melo Porcari<sup>1</sup>, E. Bonefas<sup>1</sup>, C. Nagi<sup>1</sup>, A. N. Barbieri<sup>1</sup>, A. Thompson<sup>1</sup>, A. Al-Fartosi<sup>1</sup>, J. W. Suliburk<sup>1</sup>, S. A. Carter<sup>1</sup>, L. S. Eberlin<sup>1</sup>. <sup>1</sup>*Baylor College of Medicine, Houston, TX*, <sup>2</sup>*University of Texas at Austin, Austin, TX*
- 
- B-200 Preoperative Classification of Thyroid Nodules by Desorption Electrospray Ionization Mass Spectrometry Imaging of Fine Needle Aspiration Biopsies**  
R. J. DeHoog, A. Al-Fartosi, N. Zarrin-Khameh, R. Huang, L. S. Eberlin, J. Suliburk. *Baylor College of Medicine, Houston, TX*
- 
- B-201 Development of a Quantitative Gas Chromatography Tandem Mass Spectrometry Method for Metabolic Profiling of Urine Organic Acids**  
A. S. Ptolemy, K. Young, C. MacDonald, R. Garrett, M. Kellogg, R. W. Peake. *Boston Children's Hospital, Boston, MA*
- 
- B-202 Improving Performance of an LC-MS C-peptide Reference Method**  
S. Connolly, W. Grothoff, R. Little, K. Kabytaev. *University of Missouri, Columbia, MO*
- 
- B-203 Development and Validation of an LC/MS/MS Method to Quantify Creatinine in Dried Blood Spots**  
C. Torres, R. Muldrow, D. N. Greene. *LetsGetChecked, Monrovia, CA*
- 
- B-204 Determination of Lyso-GB3 in Dried Blood Spots: A Useful Biomarker for Fabry Disease**  
B. F. Paulo, E. M. Novo, D. A. Zauli, A. P. Serra. *Instituto Hermes Pardini, Vespasiano, Brazil*
- 
- B-205 A Simple Method for Opioids, Synthetic Opioids and PCP Detection in Hair Samples by LC-MS/MS**  
B. F. Paulo, L. F. Junior, D. A. Zauli. *Instituto Hermes Pardini, Vespasiano, Brazil*
- 
- B-206 The Determination of Vanillylmandelic Acid (VMA), Homovanillic Acid (HVA) and 5-Hydroxyindolacetic Acid (5-HIAA) by LC-MS/MS Assay in Urine Samples for Diagnosis of Neuroendocrynes Tumor**  
L. F. Junior, B. F. Paulo, D. A. Zauli. *Instituto Hermes Pardini, Vespasiano, Brazil*
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MOLECULAR DIAGNOSTICS & GENETICS

- B-208 Correlation Studies of Human Papillomavirus DNA on Roche cobas vs Human Papillomavirus mRNA on Hologic Panther**  
*J. Teng. National Healthcare Group Diagnostics, Singapore, Singapore*
- 
- B-210 Spectrum of Germline Mutation with Characteristic MLH1 Hotspots and High Concordance with MMR Deficiency Phenotype in Lynch Syndrome Patients in Taiwan**  
*P. Y. Chang<sup>1</sup>, S. C. Chang<sup>1</sup>, M. C. Wang<sup>1</sup>, C. C. Chen<sup>2</sup>, J. M. Chiang<sup>1</sup>. <sup>1</sup>Chang Gung Memorial Hospital, Taoyuan, Taiwan, <sup>2</sup>Chang Gung University, Taoyuan, Taiwan*
- 
- B-211 A Crowd-sourcing Approach to Maintain the Journal Article Database About Copy Number Variation**  
*J. Choi<sup>1</sup>, S. Do<sup>2</sup>, D. Kim<sup>1</sup>. <sup>1</sup>Hanyang University, Seoul, Korea, Republic of, <sup>2</sup>Mass General Hospital and Harvard University, Boston, MA*
- 
- B-212 Application of Annexin A5Coated Beads for Collection of Extracellular Vesicles and Their Content RNA as Liquid Biopsy for Lung Cancer**  
*W. Mei-Chia<sup>1</sup>, G. Guan-Yu<sup>2</sup>, W. Chih-Liang<sup>3</sup>, C. Pi-Yueh<sup>4</sup>, C. Chiuan-Chian<sup>5</sup>. <sup>1</sup>Department of Medical Laboratory, Chang Gung Memorial Hospital, Taoyuan, Taiwan, <sup>2</sup>Chang-Gung University, Taoyung, Taiwan, <sup>3</sup>Division of Pulmonary Oncology and Interventional Bronchoscopy, Department of Thoracic Medicine, Chang Gung Memorial Hospital, Taoyung, Taiwan, <sup>4</sup>Department of Medical Laboratory, Chang Gung Memorial Hospital, Taoyung, Taiwan, <sup>5</sup>Department of Medical Biotechnology and Laboratory Science, Taoyung, Taiwan*
- 
- B-213 Colorimetric LAMP as an Effective Tool for Rapid Molecular Diagnostics**  
*N. A. Tanner, Z. Li, J. Bruce, R. A. Moncion, C. V. Cunningham, B. W. Langhorst, C. K. Carlow. New England Biolabs, Ipswich, MA*
- 
- B-214 Serial Changes of Donor-derived Cell-free DNA in Pancreas Transplant Recipients**  
*H. Lee<sup>1</sup>, K. Shin<sup>2</sup>, B. Choi<sup>1</sup>, M. Lee<sup>2</sup>, k. shin<sup>2</sup>. <sup>1</sup>Pusan National University Yangsan Hospital, Yangsan, Korea, Republic of, <sup>2</sup>Pusan National University Hospital, busan, Korea, Republic of*
- 
- B-215 Use of Whole Exome Sequencing and T Cell Receptor  $\beta$  Repertoires Analysis for Identifying Potential Genetic Variants in Rheumatoid Arthritis**  
*J. Cho<sup>1</sup>, H. Lee<sup>2</sup>, S. Ahn<sup>3</sup>, J. Song<sup>4</sup>, J. Kim<sup>1</sup>, J. Lee<sup>1</sup>. <sup>1</sup>Department of Laboratory Medicine, Yonsei University Wonju College of Medicine, Wonju, Korea, Republic of, <sup>2</sup>Division of Rheumatology, Department of Internal Medicine, Yonsei University Wonju College of Medicine, Wonju, Korea, Republic of, <sup>3</sup>Department of Laboratory Medicine, Gangneung Dongin Hospital, Gangneung, Korea, Republic of, <sup>4</sup>GC Genome, GC labs, Yongin, Korea, Republic of*
- 
- B-216 Development of a Point-of-Care Multiplexed Room Temperature Stable Environmental Toxin Test**  
*S. Aithal, S. Gupta, K. Duong, A. Kumar, N. Ho, S. Guo, Y. Ando, R. Liu, J. Warden, D. H. Ho. Hememics Biotechnologies Inc, Gaithersburg, MD*
- 
- B-217 The Study of Association of FokI Polymorphism of Vitamin D Receptor (VDR) Gene, Vitamin D and Parathyroid Hormone Levels in Stage 4-5 Chronic Kidney Disease Patients: A Cross-sectional Study**  
*R. Yadav<sup>1</sup>, S. Naagar<sup>2</sup>, S. K. Datta<sup>2</sup>, A. K. Ahirwar<sup>2</sup>, S. Mahajan<sup>2</sup>, P. Chopra<sup>2</sup>, S. Arulselvi<sup>2</sup>. <sup>1</sup>AIIMS New Delhi, India, New Delhi, India, <sup>2</sup>AIIMS New Delhi, New Delhi, India*
- 
- B-218 Role of Delta Tocotrienol and Resveratrol Supplementation In Regulation of Micro RNAs in Patients with Metabolic Syndrome: A Randomized Controlled Trial**  
*D. A. Khan<sup>1</sup>, S. Fatima<sup>2</sup>. <sup>1</sup>National University of medical Sciences, Rawalpindi, Pakistan, <sup>2</sup>NUMS, Rawalpindi, Pakistan*

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MOLECULAR DIAGNOSTICS & GENETICS

- B-220 Development of Reference Materials for Detection of Monkeypox**  
C. Huang, R. Raman, E. Morreale, N. Truong, B. Anekella. *LGC Clinical Diagnostics, Gaithersburg, MD*
- 
- B-221 Quantitation of DNA in Antibody-based and RNA-based Drugs by Quantitative Polymerase Chain Reaction (qPCR)**  
J. Su, J. Uriu, E. N. Aguilar, R. Tobias, G. Marr. *Nitto Vecia Pharma Services, Irvine, CA*
- 
- B-222 Validation of a qPCR Method for Qualitative Detection of Monkeypox Virus**  
A. Chan, K. Amaro, C. Bui, O. Camarena, A. Dang, D. Herron, J. Lara, L. Lim, P. Lopez, M. Mayoralgo, A. Nguyen, J. Nguyen, B. Ortega, A. Pham, K. Tran, D. Bach. *Bach Diagnostics, Irvine, CA*
- 
- B-223 Validation of a Non-invasive DNA NGS Assay for Detecting Somatic Mutations in Normal Appearing Sun Exposed Skin**  
K. Kaur, B. Riley, R. Ai, E. Roberts, J. Whitaker, C. Ibarra. *DermTech, San Diego, CA*
- 
- B-224 Comparison of an Unlabeled Probe High Resolution Melting Analysis (HRMA) Assay for Factor V Leiden 1691 G>A Mutation to a TaqMan Hydrolysis Assay**  
H. H. Han, S. Lewis, A. Hoang, K. Badri. *Tarleton State University, Fort Worth, TX*
- 
- B-225 Assessment of the Genotype Frequency of Thiopurine Methyltransferase (TPMT) Deficiency in a Large Cohort of Patients With Immune Mediated Inflammatory Disease and Cancer**  
AACC  
ACADEMY  
J. Stachelski, D. Pham, P. Hughes, O. McLachlan, T. Dervieux. *Prometheus Laboratories, San Diego, CA*
- 
- B-226 Clinical Evaluation of ElsiQ™ STI-12 Detection Kit 3/4 for Detection of Human Sexual Transmitted Infection Pathogens in Human Vaginal Swab and/or Urine Specimens**  
J. Ahn<sup>1</sup>, D. Kim<sup>1</sup>, W. Lee<sup>2</sup>, S. Yoon<sup>3</sup>, S. Cho<sup>4</sup>. <sup>1</sup>Gachon University Gil Medical Center, Incheon, Korea, Republic of, <sup>2</sup>Kyung Hee University Hospital at Gangdong, Seoul, Korea, Republic of, <sup>3</sup>Korea University College of Medicine, Seoul, Korea, Republic of, <sup>4</sup>Ajou University Hospital, Suwon, Korea, Republic of
- 
- B-227 Metabolic Reprogramming of Cancer Stem Cells and a Novel Eight-Gene Metabolism-related Risk Signature in Clear Cell Renal Carcinoma**  
L. Pang, H. Li. *Peking University First Hospital, Beijing, China*
- 
- B-228 Partition-free Digital Polymerase Chain Reaction: A Novel Approach to Enable Rapid Turnaround Time With Digital Accuracy**  
P. Erb, J. Myrick, M. Hensley, J. Schreiber, S. Sundberg. *Canon Virginia, Inc., Newport News, VA*
- 
- B-229 Benchmarking of Bioinformatics and Molecular Tools for Copy Number Variants Calling From Human Genome: A Detailed Look On Single Exons**  
G. Barra, A. Coqueiro, N. Pessoa, S. Correia, R. Benício, P. Mesquita, I. Sgardoli, A. Lamas, A. Andrade, R. Jácomo, L. Nery. *Sabin diagnóstico e saúde, Brasília, Brazil*
- 
- B-230 Monitoring SARS-CoV-2 Subvariants for Evaluation of the Diagnostic Kit's Annealing Site Using Nanopore Sequencing**  
AACC  
ACADEMY  
Y. Kim<sup>1</sup>, T. Noh<sup>1</sup>, S. Lee<sup>1</sup>, Y. Kim<sup>1</sup>, D. Prakash<sup>2</sup>, K. Lee<sup>1</sup>. <sup>1</sup>Seoul Clinical Laboratory (SCL), Yongin City, Gyeonggi-do, KOREA, Korea, Republic of, <sup>2</sup>HANARO Medical Foundation, Seoul, Korea, Republic of
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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MOLECULAR DIAGNOSTICS & GENETICS

- B-231 Development and Evaluation of a Lyophilized Mpox Virus qPCR Assay**  
X. Li<sup>1</sup>, D. Chen<sup>1</sup>, Y. Zeng<sup>1</sup>, H. Chen<sup>1</sup>, C. Zhang<sup>2</sup>, H. Xu<sup>2</sup>, B. Lam<sup>2</sup>, J. Dinh<sup>2</sup>, B. Turng<sup>1</sup>. <sup>1</sup>Jiangsu Medomics Medical Technology Co., Ltd., Nanjing, China, <sup>2</sup>XYZ Laboratory, Lakeway, TX
- 
- B-232 Versatile, Extraction-Free Nucleic Acid Sample Preparation in 15 Seconds via Hyperbaric Heating**  
J. A. Hambalek, R. L. Martin, E. Alvarado, P. W. Halle, R. E. Davis, H. Janwari, H. Kido, R. Peytavi. *Autonomous Medical Devices Incorporated, Santa Ana, CA*
- 
- B-233 Chromatin Accessibility Uncovers KRAS-driven FOSL2 Promoting Pancreatic Ductal Adenocarcinoma Progression via Upregulating CCL28**  
C. Wang<sup>1</sup>, J. Li<sup>1</sup>, S. Zhang<sup>2</sup>. <sup>1</sup>The Second Hospital of Shandong University, Jinan, China, <sup>2</sup>The Second Hospital of Shandong University, Jinan, China
- 
- B-234 The Quality in NGS: Do You Know How Much We Lost?**  
T. Chao, P. Chen, W. Huang. *Chang Gung Memorial Hospital-Kaohsiung Medical Center, Kaohsiung, Taiwan*
- 
- B-236 Portable 2 hour Sample-to-Answer Multi-pathogen Phenotypic Antibiotic Susceptibility Test (AST)**  
M. E. Roegner. *GeneCapture, Inc, Huntsville, AL*
- 
- B-237 Analytical and Clinical Performance Evaluation of the Panther Fusion® GI Parasite Assay (In Development)**  
J. Moberly, V. Dong, B. Dockter, Z. Marsh, M. Higgins, D. Miller, K. Laffer, D. Lopez, B. Kirkconnell, M. Carvallo Pinto. *Hologic, San Diego, CA*
- 
- B-239 Long-read Nanopore Sequencing is a Practicable Method of Targeted or Untargeted Microbial Contamination Detection**  
R. Suhandynata<sup>1</sup>, S. Maheu<sup>2</sup>, S. Safiari<sup>2</sup>, N. Bevins<sup>2</sup>. <sup>1</sup>University of California at San Diego, San Diego, CA, <sup>2</sup>Sequence Sciences, San Diego, CA
- 
- B-240 Development of AcroMetrix™ Human Microbiome Quality Control Materials**  
Q. Gan<sup>1</sup>, B. Drews<sup>2</sup>, W. Tom<sup>2</sup>, M. G. Torralba<sup>3</sup>, L. Liu<sup>1</sup>. <sup>1</sup>Thermo Fisher Scientific, Fremont, CA, <sup>2</sup>Thermo Fisher Scientific, South San Francisco, CA, <sup>3</sup>Thermo Fisher Scientific, Frederick, MD
- 
- B-241 A Novel Approach to Develop Multiplex Loop Mediated Amplification (LAMP) Assays**  
Y. Chander, D. Mead. *Varizymes, Middleton, WI*
- 
- B-242 Fast and Cost-effective RNA Extraction in Onco-hematology Laboratories**  
C. Pugliese, L. Dame, S. Lanes, A. Marinato, R. Proto-Siqueira. *Flow Diagnosticos, Sao Paulo, Brazil*
- 
- B-243 Utilizing Lyophilized LAMP Reagents in Rapid Molecular Assays**  
E. Alpaslan, Y. Zhang, N. A. Tanner, G. C. Patton. *New England Biolabs, Ipswich, MA*
- 
- B-244 DNA Library Amplification to Produce Archived Reference Samples for R&D and Clinical Assay Development, Optimization, and Validation**  
M. Williams, C. Gilley, K. Gowen, Z. Zhang, L. Elagina, J. Charlton, R. Witkowski, A. Shuber. *Harbinger Health, Cambridge, MA*
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MOLECULAR DIAGNOSTICS & GENETICS

- B-245** **Applicability of Metagenomic Next-Generation Sequencing (mNGS) in Challenging Infectious Diseases in a Tertiary Hospital**  
L. F. Chebabo<sup>1</sup>, F. M. Conti<sup>1</sup>, S. P. Bandeira<sup>2</sup>, M. C. Castelo<sup>2</sup>, A. C. Lopes<sup>3</sup>. <sup>1</sup>Dasa, Rio de Janeiro, Brazil, <sup>2</sup>Dasa, Fortaleza, Brazil, <sup>3</sup>Dasa, Florianópolis, Brazil
- 
- B-246** **The Evaluation of Actionable Mutations By Multiplex Analysis Using IntelliPlex® Lung Cancer Panel for Non-Small Cell Cancer Management**  
W. Cheng. PlexBio Co., Ltd., Taipei City, Taiwan
- 
- B-247** **Rapid and Field-Deployable Microchip-Based Real-Time Pcr for Hepatitis B Virus DNA Detection**  
Y. Liu, Y. Gao, Q. Song, Y. Hong, W. Wen. Hongkong University Of Science And Technology, Hong Kong Sar, Hong Kong
- 
- B-248** **Rapid PCR Method for Sexually Transmitted Infection (STI) Multiplex Testing Based on Novel Microfluidic Chip**  
S. Lee, J. Park, H. Koo, D. Kim, J. Park, D. Lee. Genesystem, Daejeon, Korea, Republic of
- 
- B-249** **Usefulness of Simultaneous Detection of Germline and Somatic Variants From Different Specimen Types By Next-Generation Sequencing**  
M. Han, J. Kim. Kangdong Sacred Heart Hospital, Seoul, Korea, Republic of
- 
- B-250** **Simultaneous Detection of Twelve Pathogens of Sexually Transmitted Infections Using an Innovative All-in-One PCR Instrument**  
S. Nam, J. Lee, M. Song, H. Heo, Y. Jeong, D. Kim, H. Park. BIONEER, Daejeon, Korea, Republic of
- 
- B-251** **Nmr Lipoproteins Help To Reveal Subphenotypes of Phenoreversion From Sars-cov-2 Infection**  
J. Wist<sup>1</sup>, S. Lodge<sup>1</sup>, R. Masuda<sup>1</sup>, P. Nitschke<sup>1</sup>, C. Cannet<sup>2</sup>, H. Schaefer<sup>2</sup>, H. Ruffieux<sup>3</sup>, G. Bantug<sup>4</sup>, C. Hess<sup>5</sup>, E. Holmes<sup>1</sup>, J. K. Nicholson<sup>1</sup>. <sup>1</sup>Murdoch University, Australian National Phenome Center, Perth, Australia, <sup>2</sup>Bruker, Rheinstetten, Australia, <sup>3</sup>University of Cambridge, Biostatistics Unit, Cambridge, United Kingdom, <sup>4</sup>University and University Hospital Basel, Department of Biomedicine, Basel, Switzerland, <sup>5</sup>University of Cambridge, Cambridge Institute of Therapeutic Immunology and Infectious Disease, Cambridge, United Kingdom
- 
- B-252** **In Vitro Expression Analysis of Variants in the Upstream Region of Genes Related to Familial Hypercholesterolemia**  
 J. G. de Araujo<sup>1</sup>, L. Tamborlin<sup>2</sup>, A. D. Luchessi<sup>3</sup>, R. D. Hirata<sup>4</sup>, M. H. Hirata<sup>4</sup>, A. D. Luchessi<sup>5</sup>, V. N. Silbiger<sup>5</sup>. <sup>1</sup>Northeast Biotechnology Network (RENORBIO), Graduate Program in Biotechnology, Federal University of Rio Grande do Norte, Natal, Brazil, <sup>2</sup>Institute of Biosciences, São Paulo State University (UNESP), Rio Claro, Brazil, <sup>3</sup>Laboratory of Biotechnology, School of Applied Sciences, University of Campinas, Limeira, Brazil, <sup>4</sup>Department of Clinical and Toxicological Analyses, School of Pharmaceutical Sciences, University of Sao Paulo, Sao Paulo, Brazil, <sup>5</sup>Department of Clinical and Toxicological Analyses, Federal University of Rio Grande do Norte, Natal, Brazil
- 
- B-253** **Performance Characteristics and Validation of Next-Generation Sequencing for Human Leucocyte Antigen Typing**  
C. Yang, M. Wang, S. Chang, C. Huang, P. Chang, T. Chueh. Department of Laboratory Medicine, Chang Gung Memorial Hospital, Taoyuan, Taiwan
-



# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MOLECULAR DIAGNOSTICS & GENETICS

- B-255 Engineered Reverse Transcriptases and Taq DNA Polymerases Deliver Robust Yield in the Presence of Clinically Relevant Inhibitors**  
 J. Walker<sup>1</sup>, P. Venter<sup>2</sup>, B. Faurholm<sup>2</sup>, R. Wadsworth<sup>2</sup>, J. Pavlica<sup>1</sup>, C. Marshall<sup>1</sup>, C. Ross<sup>1</sup>.  
<sup>1</sup>Watchmaker Genomics, Boulder, CO, <sup>2</sup>Watchmaker Genomics, Cape Town, South Africa
- 
- B-256 Genotype Distribution of the Hepatitis C Virus: 10 Years Data of a Clinical Laboratory in Brazil**  
 J. M. Nurmberger, G. C. de Carvalho, B. B. Perez, J. G. Borges, D. R. Ramadan, S. Tufik.  
 Associação Fundo de Incentivo a Pesquisa (Afip - Medicina Diagnóstica), São Paulo, Brazil
- 
- B-257 Rapid Implementation of Monkeypox Detection in a Brazilian Diagnostic Laboratory**  
 M. S. Andrade<sup>1</sup>, L. Silva<sup>1</sup>, F. A. Hurtado<sup>1</sup>, A. Belmok<sup>1</sup>, A. Ferreira<sup>1</sup>, C. Sousa<sup>1</sup>, A. F. Vieira<sup>1</sup>, R. Correa<sup>1</sup>, G. Gil<sup>1</sup>, T. Sena<sup>1</sup>, M. Soares<sup>1</sup>, M. Santos<sup>1</sup>, R. Jácomo<sup>1</sup>, L. Velasco<sup>1</sup>, L. Nery<sup>1</sup>, R. Andrade<sup>2</sup>. <sup>1</sup>Sabin Diagnóstico e Saúde, Brasília, Brazil, <sup>2</sup>Universidade Católica de Brasília, Brasília, Brazil
- 
- B-259 Exocas-2 Rapid and Pure Isolation of Exosomes By Anionic Exchange Using Magnetic Beads**  
 M. Bae, S. SHIN. Korea University, Seoul, Korea, Republic of
- 
- B-260 Innovative One-step Extraction of Exosomal Micro RNA Without Isolating Exosomes**  
 M. Bae, S. SHIN. Korea University, Seoul, Korea, Republic of
- 
- B-261 Identification of HLA-DQ2.5 Haplotype Using a Real-Time PCR Method**  
 A. H. de Carvalho, D. A. Zauli, J. d. Silva. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- B-262 Evaluation of the Genotypic Profile of the c.202 G>A Mutation in the G6PD Gene in Brazil**  
 J. d. Silva, J. S. Rios, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- B-263 Molecular Assay Evaluation to SMA and SCID Diagnosis in Newborn Dried Blood Spots (DBS)**  
 J. d. Silva, C. M. da Silva, D. A. Zauli, A. P. Serra. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- B-264 Identification of Potential Biomarkers Related to Major Depressive Disorder Using a Meta-analysis Approach**  
 A. H. de Carvalho<sup>1</sup>, A. B. de Lima<sup>1</sup>, H. D. Dias<sup>2</sup>, D. A. Zauli<sup>1</sup>. <sup>1</sup>Instituto Hermes Pardini, Vespasiano, Brazil, <sup>2</sup>Universidade Federal de Minas Gerais, Belo Horizonte, Brazil
- 
- B-265 Prevalence of 844ins68 Polymorphism in the Cystathionine  $\beta$ -synthase Gene in Brazilian Individuals**  
 J. S. Rios, J. d. Silva, F. S. Malta, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- B-266 Analytical Performance Comparison of Two Genotyping Assays for HIV-1 Drug Resistance Using Sanger Sequencing**  
 F. L. Marinho, J. d. Silva, L. B. Alvim, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
- 
- B-267 Validation of a New Molecular Test to Quantify Plasma Cytomegalovirus Load**  
 B. Dehesa-García, A. García-Murillo, I. Cortés-Portero, V. Pérez-Grijalba, B. García-Manrique.  
 CerTest Biotec, San Mateo de Gállego, Spain

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## MOLECULAR DIAGNOSTICS & GENETICS

**B-268 Validation of a New Real-Time PCR Test for the Detection of Mpox Virus on the BD MAX™ System**

G. Marín-Royo, C. Palacios-Pérez, A. Aznar-García, L. Llobet-Sesé, [B. García-Manrique](#). CerTest Biotec, San Mateo de Gállego, Spain

**B-269 Plasmodium Detection: Sera, Blood, Do They All Work?**

E. Franco-Marín<sup>1</sup>, G. Ulloa<sup>2</sup>, B. Dehesa-García<sup>1</sup>, M. Santolalla<sup>3</sup>, A. Lescano<sup>3</sup>, [B. García-Manrique](#)<sup>1</sup>, P. Mayor<sup>4</sup>, A. Mayor<sup>5</sup>, H. Alonso<sup>6</sup>. <sup>1</sup>CerTest Biotec, San Mateo de Gállego, Spain, <sup>2</sup>Universidade Federal Rural da Amazônia, Belém, Brazil, <sup>3</sup>Emerge, Emerging Diseases, and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Lima, Peru, <sup>4</sup>Department of Health and Animal Anatomy, Autonomous University of Barcelona, Barcelona, Spain, <sup>5</sup>Instituto Salud Global (ISGlobal), Barcelona, Spain, <sup>6</sup>Department of Microbiology, Paediatrics, Radiology, and Public Health, Faculty of Medicine, University of Zaragoza, Zaragoza, Spain

**B-270 Validation of a New Molecular Assay for the Detection and Quantification of Hepatitis B Load in Plasma**

I. Cortés-Portero, B. Dehesa-García, A. García-Murillo, [B. García-Manrique](#). CerTest Biotec, San Mateo de Gállego, Spain

**B-271 Molecular EQA Programs Verify the Use of a Quick Lysis Reagent in a Wide Range of Matrices and Pathogens**

M. Martínez-Santolaria<sup>1</sup>, C. Sota-Diez<sup>2</sup>, B. Gaston-Galvez<sup>1</sup>, [B. García-Manrique](#)<sup>2</sup>, E. Machetti-Mareca<sup>2</sup>, C. Gil-Rodríguez<sup>2</sup>. <sup>1</sup>Facultad de Ciencias, Universidad de Zaragoza, Zaragoza, Spain, <sup>2</sup>CerTest Biotec, San Mateo de Gállego, Spain

**B-272 Interference Assays: How Different Substances can Affect the Detection of Respiratory Viruses Using a Quick Molecular Solution**

M. Martínez-Santolaria<sup>1</sup>, [B. García-Manrique](#)<sup>2</sup>, E. Machetti-Mareca<sup>2</sup>, C. Gil-Rodríguez<sup>2</sup>. <sup>1</sup>Facultad de Ciencias, Universidad de Zaragoza, Zaragoza, Spain, <sup>2</sup>CerTest Biotec, San Mateo de Gállego, Spain

**B-273 Lymphogranuloma Venereum: Validation of a Real-Time PCR Kit for its Rapid Diagnosis**

M. Peris<sup>1</sup>, A. Milagro<sup>2</sup>, N. F. Martínez<sup>2</sup>, O. Algora<sup>2</sup>, D. Martínez-Mateos<sup>2</sup>, B. Dehesa-García<sup>3</sup>, [B. García-Manrique](#)<sup>3</sup>, A. Rezusta<sup>2</sup>. <sup>1</sup>Instituto de Investigación Sanitaria de Aragón, Zaragoza, Spain, <sup>2</sup>Hospital Universitario Miguel Servet, Zaragoza, Spain, <sup>3</sup>CerTest Biotec, San Mateo de Gállego, Spain

**B-274 One-step Detection of Candida Albicans, Trichomonas Vaginalis and Gardnerella Vaginalis**

M. Peris<sup>1</sup>, A. Milagro<sup>2</sup>, B. Gilaberte<sup>2</sup>, N. Gamadiel<sup>2</sup>, M. López<sup>2</sup>, B. Dehesa-García<sup>3</sup>, [B. García-Manrique](#)<sup>3</sup>, C. Mendoza<sup>2</sup>, P. Aabad<sup>2</sup>, A. Rezusta<sup>2</sup>. <sup>1</sup>Instituto de Investigaciones Sanitarias de Aragón (IISA), Zaragoza, Spain, <sup>2</sup>Hospital Universitario Miguel Servet, Zaragoza, Spain, <sup>3</sup>CerTest Biotec, San Mateo de Gállego, Spain

**B-275 Retrospective Study for Mpox Detection: Validation of a Real Time PCR Kit for its Fast Diagnosis**

M. Peris<sup>1</sup>, A. Milagro<sup>2</sup>, B. Fortuño<sup>2</sup>, D. Martínez-Mateos<sup>2</sup>, B. Gilaberte<sup>2</sup>, B. Dehesa-García<sup>3</sup>, [B. García-Manrique](#)<sup>3</sup>, L. Laborda<sup>2</sup>, M. Latorre-Millán<sup>2</sup>, C. Aspiroz-Sancho<sup>4</sup>. <sup>1</sup>Instituto de Investigaciones Sanitarias de Aragón (IISA), Zaragoza, Spain, <sup>2</sup>Hospital Universitario Miguel Servet, Zaragoza, Spain, <sup>3</sup>CerTest Biotec, San Mateo de Gállego, Spain, <sup>4</sup>Hospital Royo Villanova, Zaragoza, Spain

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## PROTEOMICS & PROTEIN MARKERS

- B-276 Preservation of Proteomic Inflammatory Biomarkers Signal in a Saliva Multiomic Buffer at Room Temperature**  
 M. M. Jensen<sup>1</sup>, H. Maecker<sup>2</sup>, T. Nguyen<sup>3</sup>, D. Vu<sup>4</sup>, D. Vigerust<sup>4</sup>, R. Gupta<sup>4</sup>. <sup>1</sup>Spectrum Solutions, Inc., Draper, UT, <sup>2</sup>Stanford University, Stanford, CA, <sup>3</sup>Stanford University, Palo Alto, CA, <sup>4</sup>Spectrum Solutions, LLC., Draper, UT
- 
- B-277 Analytical Validation of Whole Blood Suitability for MeMed BV, a Host-Protein Test for Differentiating Between Bacterial and Viral Infection**  
 M. Hainrichson<sup>1</sup>, E. Simon<sup>1</sup>, R. Kalfon<sup>1</sup>, N. Senderovich<sup>1</sup>, N. Shamir<sup>1</sup>, Y. Kaminer-Israeli<sup>1</sup>, R. Navon<sup>1</sup>, S. Halabi<sup>2</sup>, A. Klein-Kremer<sup>3</sup>, E. Eden<sup>1</sup>. <sup>1</sup>MeMed, Haifa, Israel, <sup>2</sup>Carmel Medical Center, Haifa, Israel, <sup>3</sup>Hillel Yaffe Medical Center, Hadera, Israel
- 
- B-278 Pilot Clinical Study of the CarePoint Assay**  
J. S. Briggs<sup>1</sup>, A. H. Brooks-Starks<sup>1</sup>, T. J. Elenberger<sup>1</sup>, R. Brennenman<sup>1</sup>, K. R. Scarpato<sup>2</sup>, S. S. Chang<sup>2</sup>, J. C. Bassett<sup>3</sup>, J. Linehan<sup>4</sup>. <sup>1</sup>PhageTech, Inc, Irvine, CA, <sup>2</sup>Vanderbilt University Medical Center, Nashville, TN, <sup>3</sup>Hoag Hospital, Newport Beach, CA, <sup>4</sup>St. John's Cancer Institute, Santa Monica, CA
- 
- B-279 Metabolomics in Practice, A Guide for Chemical Pathology Community**  
 H. Majid<sup>1</sup>, A. Ijaz<sup>2</sup>, S. Imran<sup>3</sup>, S. Rehman<sup>1</sup>, L. Jafri<sup>1</sup>, S. Ahmed<sup>1</sup>, A. Zubairi<sup>4</sup>, I. Siddiqui<sup>1</sup>, A. Habib<sup>1</sup>. <sup>1</sup>Aga Khan University, Karachi, Pakistan, <sup>2</sup>Mohiuddin Medical College, Azad-Jammu-Kashmir, Pakistan, <sup>3</sup>OMI Hospital, Karachi, Pakistan, <sup>4</sup>Indus Hospital and health Network, Karachi, Pakistan
- 
- B-280 Sensitivity and Specificity of beta-2 Transferrin Gel Electrophoresis with Immunofixation for Evaluating Nasal Cerebrospinal Fluid Leaks**  
H. Zari, A. Juras, C. Chen, K. Veasey, J. Craig, J. L. Carey, B. C. Cook. Henry Ford Health, Detroit, MI
- 
- B-281 Analytical Validation of the Mindray High Sensitivity Cardiac Troponin I Assay**  
B. Fabre-Estremera<sup>1</sup>, K. M. Schulz<sup>2</sup>, A. Ladd<sup>2</sup>, A. Buño Soto<sup>1</sup>, F. S. Apple<sup>3</sup>. <sup>1</sup>La Paz University Hospital, Madrid, Spain, <sup>2</sup>Hennepin Healthcare Research Institute, Minneapolis, MN, <sup>3</sup>Hennepin Healthcare/HCMC, Minneapolis, MN
- 
- B-282 C Reactive Protein as a Discriminative Marker in Emergency Surgery**  
 P. Lesmes - García Corrales<sup>1</sup>, A. García Serrano<sup>2</sup>, J. Guerrero Montávez<sup>2</sup>. <sup>1</sup>University Hospital Virgen del Rocío, Seville, Spain, <sup>2</sup>University Hospital Virgen del Rocío, Seville, Spain
- 
- B-283 The Epigenetic Landscape Regulation by Long Non-Coding RNAs Promotes Chemoresistance**  
R. A. Chiong Zevallos, E. Reis. Instituto de Química - Universidade de São Paulo, São Paulo, Brazil
- 
- B-284 Evaluating the Range of Serum Neurofilament Light Chain at Different Ages in Chinese**  
S. Guo<sup>1</sup>, Z. Meng<sup>2</sup>, M. Tang<sup>2</sup>, Y. Ren<sup>2</sup>, B. Ying<sup>2</sup>. <sup>1</sup>West China Hospital, Sichuan University, Chengdu, China, <sup>2</sup>West China Hospital, Sichuan University, Chengdu, China
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## PROTEOMICS & PROTEIN MARKERS

- B-287 Biofilm Formations & Carbon Utilizations in Five Porin-Deleted *Helicobacter Pylori* Mutants & Proteomics Analysis Revealing the Alterations of Physiological Functions in the Absence of HopE**  
*Y. Liu. the First Affiliated Hospital, Zhejiang University School of Medicine,, Hangzhou, China*
- 
- B-288 The Beginning of the End: AGO2 Protein Identified and Validated as a Novel Biomarker for Multi-Cancer Diagnosis through Bioinformatics Analysis and Immunoassay**  
*A. Hashmi<sup>1</sup>, G. Hutvagner<sup>2</sup>, S. Sidhu<sup>3</sup>. <sup>1</sup>University of Technology/NSW Health Pathology, Sydney, Australia, <sup>2</sup>University of Technology Sydney, Sydney, Australia, <sup>3</sup>Kollings Research Institute, Sydney, Australia*
- 
- B-289 Acute Kidney Injury Urinary Biomarker, Neutrophil Gelatinase-associated Lipocalin (NGAL) Analytical Performance Evaluation on Roche cobas c502 Chemistry Platform**  
*V. Samara<sup>1</sup>, V. Buggs<sup>2</sup>, L. Song<sup>2</sup>. <sup>1</sup>University of Chicago, Chicago, IL, <sup>2</sup>University of California Los Angeles, Los Angeles, CA*
- 
- B-290 Development of a LCMS/MS method for the Quantitation of Infliximab in Serum**  
*B. Zhong, J. V. Abonamah, D. Payto, A. McShane. Department of Laboratory Medicine, Cleveland Clinic Foundation, Cleveland, OH*
- 
- B-291 Proximity Labeling at Sites of Protein-Protein Interactions Using a Switchable DNA Catalyst**  
*A. Ogorek, X. Zhou, J. Martell. University of Wisconsin - Madison, Madison, WI*
- 
- B-292 Drug Repurposing via Host-pathogen Protein-protein Interaction for the Treatment of COVID-19**  
AACC ACADEMY  
*S. Kaur<sup>1</sup>, G. Singh<sup>2</sup>. <sup>1</sup>SGTB Khalsa college, university of delhi, DELHI, India, <sup>2</sup>SGTB Khalsa College, University of Delhi, Delhi, India*
- 
- B-293 Non-renal Sources of Erythropoietin: Complications for Interpreting Erythropoietin Assays**  
*R. Alshamali<sup>1</sup>, J. P. Marrow<sup>1</sup>, M. J. Platt<sup>1</sup>, K. R. Brunt<sup>2</sup>, J. A. Simpson<sup>1</sup>. <sup>1</sup>University of Guelph, Guelph, ON, Canada, <sup>2</sup>Dalhousie University, Saint John, NB, Canada*
- 
- B-294 Delineating the Diversity of Recombinant Monoclonal Antibodies Isolated from Alpaca Polyclonal Mixture**  
*D. Narang<sup>1</sup>, T. Le Bihan<sup>2</sup>, T. N. De Villavicencio Diaz<sup>2</sup>, B. Ma<sup>2</sup>. <sup>1</sup>Rapid Novor Inc, Kitchener, ON, Canada, <sup>2</sup>Rapid Novor Inc., Kitchener, ON, Canada*
- 



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## SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

### THERAPEUTIC DRUG MONITORING & TOXICOLOGY

- B-295** Analysis of Patient Health Questionnaire-9 Based Depression Prevalence, According to a Discordance Between Quantitative Urinary Cotinine Level and Self-Report on Second-Hand Smoke Exposure in Adults  
*H. Lee*, D. Park. *Wonkwang University, Iksan-si, Korea, Republic of*
- 
- B-296** Assessment of the Effect of HIV Protease Inhibitors Used in Antiretroviral Therapy In Cameroon on the Activity of Carbohydrate-Lipid Metabolism Enzymes in HIV-Infected Patients With Lipodystrophy  
*M. G. Ndoe*<sup>1</sup>, C. Fokunang<sup>2</sup>. <sup>1</sup>*Institut of Medical Research and Medicinal Plants Studies, Yaounde, Cameroon*, <sup>2</sup>*Faculty of Medicine and Biomedical Sciences, Yaounde, Cameroon*
- 
- B-297** Effortless and Streamlined Workflow for Absolute Quantitation of Therapeutic Monoclonal Antibodies Using Promise Proteomics mAbXmise Kits and TSQ Altis Plus Mass Spectrometer  
*Y. Song*<sup>1</sup>, D. Lebert<sup>2</sup>, J. Guillaubez<sup>2</sup>, S. Samra<sup>1</sup>, E. Goucher<sup>1</sup>, B. Hart<sup>1</sup>. <sup>1</sup>*Thermo Fisher Scientific, San Jose, CA*, <sup>2</sup>*Promise Proteomics, Grenoble, France*
- 
- B-298** Retrospective Analysis of Fentanyl Positivity at a Large Academic Center Reveals Trends in Illicit Fentanyl Use  
*M. Berry*<sup>1</sup>, L. Cohen<sup>2</sup>, D. Manthei<sup>1</sup>, C. Gherasim<sup>1</sup>. <sup>1</sup>*Michigan Medicine, Ann Arbor, MI*, <sup>2</sup>*College of Pharmacy, University of Michigan, Ann Arbor, MI*
- 
- B-299** Liquid Chromatography-mass Spectrometry Measurement of Drugs of Abuse and Alcohol Biomarker Phosphatidylethanol (Peth 16:0/18:1) Using Volumetric Dried Blood Spot Device  
*G. Göksu Gürsu*, M. E. Mavi, H. Yılmaz. *SEM Laboratuvar Cihazlari, Istanbul, Turkey*
- 
- B-300** Importance of Clinical Chemistry and Metabolism Parameters for the Management of Patient With Chronic Nitrous Oxide Intoxication  
*G. Grzych*<sup>1</sup>, E. Genez<sup>1</sup>, D. Marchand<sup>1</sup>, S. Deheul<sup>1</sup>, F. Zerimech<sup>1</sup>, V. Masso<sup>1</sup>, A. bennis<sup>2</sup>, R. Diesnis<sup>2</sup>, M. Joncquel<sup>1</sup>, I. Kim<sup>1</sup>, J. Niguet<sup>3</sup>, J. Guichard<sup>1</sup>, M. Giro<sup>1</sup>, C. Tard<sup>1</sup>. <sup>1</sup>*Chu Lille, Lille, France*, <sup>2</sup>*CH Roubaix, Roubaix, France*, <sup>3</sup>*GHICL, Lille, France*
- 
- B-301** In-vivo Continuous Therapeutic Drug Monitoring With Electrochemical Aptamer-Based Sensors  
*V. Goncales*<sup>1</sup>, A. A. Chamazketi<sup>1</sup>, M. Harrison<sup>1</sup>, K. Leung<sup>1</sup>, J. Gerson<sup>1</sup>, R. H. Batchelor<sup>1</sup>, A. Farnkopf<sup>1</sup>, A. Hodges<sup>1</sup>, K. Plaxco<sup>2</sup>. <sup>1</sup>*Nutromics, Melbourne, Australia*, <sup>2</sup>*University of California Santa Barbara, Santa Barbara, CA*
- 
- B-302** Increased False-Positives vs Increased Interference Flags: Using the AU 5800 to Compare Two Ethyl Glucuronide Assays  
*A. N. Jackson*<sup>1</sup>, S. P. Wyness<sup>1</sup>, S. La'ulu<sup>1</sup>, J. W. Rudolf<sup>2</sup>, *K. L. Johnson-Davis*<sup>2</sup>. <sup>1</sup>*ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT*, <sup>2</sup>*University of Utah Health, Department of Pathology, Salt Lake City, UT*
- 
- B-303** Comparison of Tacrolimus Concentrations Obtained by the Newly Approved Alinity i Tacrolimus Assay with a Reference Liquid-Chromatography Combined with Tandem Mass Spectrometry Assay  
*K. Woodard*, T. Kisler, A. Dasgupta. *University of Kansas Health System, Kansas City, KS*
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## THERAPEUTIC DRUG MONITORING & TOXICOLOGY

- B-304 Performance of Alternative Proficiency Testing Program for Bayesian Forecasting Tool of Infiximab Exposure in Clinical Pharmacokinetic Laboratory**  
*S. Caonguyen*, O. McLachlan, D. Pham, P. Hughes, T. Dervieux. *Prometheus Laboratories, San Diego, CA*
- 
- B-305 A Novel Dilute-n-Shoot Method for Quantitating Isotonitazene and Desmetonitazene in Human Urine by LC/MS**  
*P. J. Simms*. *Silver State Diagnostics, Las Vegas, NV*
- 
- B-306 Performance Evaluation of an Automated Assay for Measurement of Tacrolimus\* on the ADVIA Centaur XP System**  
*T. Chuang*<sup>1</sup>, R. Swan<sup>2</sup>, O. Sankiewicz<sup>2</sup>, N. Casson<sup>2</sup>, S. Baxter<sup>2</sup>. <sup>1</sup>*Siemens Healthcare Diagnostics Inc., Tarrytown, NY*, <sup>2</sup>*Randox Laboratories Limited, Antrim, United Kingdom*
- 
- B-307 Direct Quantitation of 77 Therapeutic and Clinical Toxicology Drugs in Dried Blood Spots Using the Fully Automated Transcend DSX-1 System**  
*J. Guo*, C. Patterson, R. Gibson, K. van Natta, S. Samra. *Thermo Fisher Scientific, San Jose, CA*
- 
- B-308 Focal Adhesion Kinase Activation is Involved in Tension Development During Contractile Stimulation of Mouse Detrusor Smooth Muscle to Modulate Bladder Dysfunction-Related Lower Urinary Tract Symptoms**  
*S. Maher*<sup>1</sup>, H. Kalil<sup>2</sup>, M. Bayachou<sup>2</sup>, G. Liu<sup>3</sup>. <sup>1</sup>*Cleveland Clinic, Cleveland, OH*, <sup>2</sup>*Cleveland State University, Cleveland, OH*, <sup>3</sup>*Case Western Reserve University, Cleveland, OH*
- 
- B-309 Development and Validation of a LC-MS/MS Method for Highly Concentrated Tacrolimus and Cyclosporine Specimens Prepared from Clinical Pharmaceutical Products to Assess Adsorption by Feeding Tubes**  
*Y. Xiao*, E. Leung. *Children's Hospital Los Angeles, Los Angeles, CA*
- 
- B-310 High Through-put Online Solid Phase Extraction of Immunosuppressive Drugs from Whole Blood on Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) in a Tertiary Hospital Laboratory**  
*J. Wong*, C. J. Gea, G. J. Goh, C. P. Yeo. *Singapore General Hospital, Department of Clinical Pathology, Singapore, Singapore*
- 
- B-311 Increasing Xylazine Findings in Clinical Samples**  
*A. Reinhart*. *NMS Labs, Horsham, PA*
- 
- B-313 Aberrant Lithium Results After hdl Assay on Roche cobas c503 Instrument**  
*A. Aravamudhan*, C. Mills, D. Li, P. Muluhngwi. *University of Minnesota Medical Center Fairview, Minneapolis, MN*
- 
- B-314 Evaluation of Everolimus QMS Immunoassay on Roche cobas c502 and Indiko Plus Analyzers**  
*V. Buggs*, L. Song, I. Metushi. *Department of Pathology and Laboratory Medicine. University of California Los Angeles, Los Angeles, CA*
- 
- B-315 Investigation Into Extraction Procedure Substitution in the Abbott Architect i2000 Tacrolimus, Sirolimus, and Cyclosporine Assays**  
*A. Chandras*, D. R. Mendu, *D. C. Kirchhoff*. *The Mount Sinai Hospital, New York, NY*
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## THERAPEUTIC DRUG MONITORING & TOXICOLOGY

- B-316 Retrospective Data Analysis Reveals Unusual Metabolism Pattern of Ethanol in Pediatrics as Compared to Adult and Geriatric Populations**  
*K. Baryeh*<sup>1</sup>, R. Zhou<sup>2</sup>, L. M. Zuromski<sup>3</sup>, G. A. McMillin<sup>1</sup>, M. D. Krasowski<sup>2</sup>, K. L. Johnson-Davis<sup>1</sup>. <sup>1</sup>University of Utah Health, Salt Lake City, UT, <sup>2</sup>University of Iowa, Iowa City, IA, <sup>3</sup>ARUP Laboratories, Salt Lake City, UT
- 
- B-317 Poor Standardization of Specimen Validity Tests Leads to Significant Variation of Urine Adulteration Positivity Rates**  
*E. M. Fatica*<sup>1</sup>, L. R. Ksiazek<sup>2</sup>, C. D. Koch<sup>2</sup>. <sup>1</sup>University of Cincinnati, Cincinnati, OH, <sup>2</sup>Sanford Health, Sioux Falls, SD
- 
- B-318 Development of Non-competitive Immunoassay System for Cyclosporine A Using Alpaca Naïve Library-derived VHH**  
*S. Fukuya*<sup>1</sup>, M. Tanaka<sup>1</sup>, Y. Hotta<sup>1</sup>, Y. Kitamori<sup>1</sup>, N. Kiyose<sup>2</sup>, N. Miyazaki<sup>2</sup>, N. Ise<sup>1</sup>, K. Aoyagi<sup>1</sup>. <sup>1</sup>Fujirebio inc., Tokyo, Japan, <sup>2</sup>ARK Resource Co., Ltd., Kumamoto, Japan
- 
- B-319 Drugs of Abuse: Correlation of Immunoassay Absorbance with Concentration by LC-MS/MS and False Negative Rates on the Roche Analyzer**  
*L. Milittello*, P. P. Gqamana, V. Zhang. University of Rochester, Rochester, NY
- 
- B-320 Development of Two-Step Sandwich CLEIA Kit for Tacrolimus with Automated Sample-Pretreatment Process, LUMIPULSE Presto® iTACT® Tacrolimus.**  
*A. Yamaguchi*, S. Funakoshi, C. Iwashita, K. Baba, S. Sekiya, Y. Hirano, Y. Hotta, N. Ise, K. Moriyama, K. Umeda, A. Kaneko, K. Aoyagi. FUJIREBIO Inc., Hachioji City, Tokyo, Japan
- 
- B-321 Development of Chemiluminescent Enzyme Immunoassay (CLEIA) for Detecting Methotrexate in Blood**  
*E. Inagaki*<sup>1</sup>, K. Baba<sup>2</sup>, Y. Imai<sup>2</sup>, A. Kaneko<sup>2</sup>, K. Aoyagi<sup>2</sup>. <sup>1</sup>FUJIREBIO Inc., Hachioji, Tokyo, Japan, <sup>2</sup>Fujirebio Inc., Hachioji, Tokyo, Japan
- 
- B-322 Assessment of MassTrak™ Immunosuppressant Calibrator and Control Sets: Confidence in your Calibrators**  
 G. Hammond, S. Balloch, *L. Calton*. Waters Corporation, Wilmslow, United Kingdom
- 
- B-323 Urinary Thebaine Improves Opioid Interpretation in Pain Management**  
*N. Pourfarrokhi*<sup>1</sup>, N. Nguyen<sup>2</sup>. <sup>1</sup>Baylor Scott and White Temple, Temple, TX, <sup>2</sup>Baylor Scott & White Health, Temple, TX
- 
- B-324 Comparison of Two Urine Fentanyl Assays on the Abbott Alinity c Analyzer**  
*E. T. Laryea*, S. Manning, J. H. Nichols. Vanderbilt University Medical Center, Nashville, TN
- 
- B-325 Retrospective Study Comparing Immunoassay Screen and Mass Spectrometry Confirmation Results in an Opioid Dependent Population**  
*M. J. Bennett*, J. Luong, D. W. Kinniburgh. Alberta Centre for Toxicology, University of Calgary, Calgary, AB, Canada
- 
- B-326 Home Collected Oral Fluid Specimens Are a Viable Option for Telemedicine Based Toxicology Testing**  
*J. P. Canner*, F. H. Moonschi. Gravity Diagnostics LLC, Covington, KY

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## THERAPEUTIC DRUG MONITORING & TOXICOLOGY

- B-327 Evidence of Missed Novel Psychoactive Substances (NPS) in Unexpected Fentanyl Positives**  
*AACC ACADEMY*  
G. Campbell, J. Schrecker, A. Holt, M. Hardison, R. Heltsley. *Aegis Sciences Corporation, Nashville, TN*
- 
- B-328 Analytical Performance of a Screening Test for Lead Using Dried Blood Spots and ICP-MS**  
C. M. Orahoske<sup>1</sup>, W. Cieslak<sup>2</sup>, D. M. Payto<sup>2</sup>, E. Chegwidzen<sup>2</sup>, J. Colón-Franco<sup>2</sup>. <sup>1</sup>*Cleveland State University, Cleveland, OH*, <sup>2</sup>*Cleveland Clinic Foundation, Cleveland, OH*
- 
- B-329 Comparison Between Trough and AUC Monitoring of MPA in Patients with and without Organ Transplantation — Influence of the Co-administered Immunosuppressant**  
D. Svinarov. *Alexander Hospital, Faculty of Medicine, Medical University of Sofia, Sofia, Bulgaria*
- 
- B-330 Homogeneous Enzyme Immunoassay for Hydrocodone**  
K. Chung, M. Pham, T. Houts, R. O'Malley. *ARK Diagnostics, Fremont, CA*
- 
- B-331 Homogeneous Enzyme Immunoassay for the Quantitative Determination of Methotrexate**  
J. Nguyen-Choi, S. Mun, D. Wolfson, B. Moon, T. Houts, R. O'Malley. *ARK Diagnostics, Fremont, CA*
- 
- B-332 Evaluation of the Analytical Performance of Seven Therapeutic Drug Monitoring Assays on the Atellica® CI 1900 Analyzer**  
A. Bogard, T. Coward, K. Kolewe, P. Paudel, C. Tyler, G. Arrode-Bruses, J. Rhea-McManus, J. Snyder. *Siemens Healthineers, Tarrytown, NY*
- 
- B-333 Getting in Line With the Guidelines: A New Screening Cutoff Validated for THC**  
S. P. Wyness<sup>1</sup>, A. N. Jackson<sup>1</sup>, J. W. Rudolf<sup>2</sup>, J. M. Boyd<sup>2</sup>, K. L. Johnson-Davis<sup>2</sup>. <sup>1</sup>*ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT*, <sup>2</sup>*Department of Pathology, University of Utah, Salt Lake City, UT*
- 
- B-334 How to Prevent the Next Wave in Overdose Crisis? Detect Designer Benzodiazepines Using CEDIA and DRI Assays**  
J. Wu<sup>1</sup>, A. Ouyang<sup>2</sup>, P. Chua<sup>3</sup>, L. Ye<sup>2</sup>, R. Patel<sup>2</sup>. <sup>1</sup>*Thermo Fisher Scientific, FREMONT, CA*, <sup>2</sup>*Thermo Fisher Scientific, Fremont, CA*, <sup>3</sup>*Thermo Fisher Scientific, South San Francisco, CA*
- 
- B-335 Rapid Quantitative Clozapine Measurements at the Point-of-Care Using Capillary Blood**  
R. H. Christenson<sup>1</sup>, M. R. Hilaire<sup>2</sup>, S. J. Salamone<sup>2</sup>, D. L. Kelly<sup>1</sup>. <sup>1</sup>*University of Maryland School of Medicine, Baltimore, MD*, <sup>2</sup>*Saladax Biomedical, Inc., Bethlehem, PA*
- 
- B-336 Comparison of the LZI Fentanyl Enzyme Immunoassay with ARKII and SEFRIA Fentanyl Assays on Beckman AU Analyzer**  
S. Manar<sup>1</sup>, B. George<sup>1</sup>, R. Huang<sup>2</sup>. <sup>1</sup>*Harris Health Ben Taub Hospital, Houston, TX*, <sup>2</sup>*Baylor College of Medicine, Harris Health Ben Taub Hospital, Houston, TX*
-



## SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

### THERAPEUTIC DRUG MONITORING & TOXICOLOGY

- B-337 Case Report: Fatal Opioid Overdose Induced by Over-the-Counter Cold Medication Diphenhydramine**  
*A. Whitt, S. Jortani. University of Louisville, Louisville, KY*
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- B-338 A Clinical Research LC-MS/MS Method for the Analysis of Immunosuppressant Drugs in Whole Blood Using Capitainer B Devices**  
*S. Balloch, L. Calton, G. Hammond. Waters, Wilmslow, United Kingdom*
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- B-339 A Clinical Research LC-MS/MS Method for the Analysis of Antidepressants in Plasma**  
*S. Balloch, L. Calton, G. Hammond. Waters, Wilmslow, United Kingdom*
- 
- B-340 Performance of a Quality System for Targeted Monoclonal Antibodies in a Reference Clinical Pharmacokinetic Laboratory**  
*J. McFarland, O. McLachlan, J. Tsang, M. Gowhari, J. Ho, P. Hughes, T. Dervieux. Prometheus Laboratories, San Diego, CA*
- 
- B-341 Analytical Performances of Homogeneous Mobility Shift Assay for Infliximab and Biosimilars and Resulting Exposure Assessments in Large Cohort of Patients with Inflammatory Bowel Diseases**  
*J. McFarland, J. Tsang, J. Ho, O. McLachlan, M. Gowhari, P. Hughes, T. Dervieux. Prometheus Laboratories, San Diego, CA*
- 
- B-342 Fentanyl Urine Drug Screen Comparison of the ARK II and Lin Zhi Immunoassays**  
*K. Lam<sup>1</sup>, M. Menlyadiev<sup>2</sup>, R. Suhandynata<sup>2</sup>, R. Fitzgerald<sup>2</sup>, L. Song<sup>1</sup>, I. Metushi<sup>1</sup>. <sup>1</sup>University of California Los Angeles, Los Angeles, CA, <sup>2</sup>University of California San Diego, San Diego, CA*

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# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## TUMOR MARKERS & CANCER DIAGNOSTICS

- B-343 Validation of Glucose Test in Pancreatic Cyst Fluid**  
*K. Lam, I. Metushi, L. Song. University of California Los Angeles, Los Angeles, CA*
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- B-346 The Prognostic Role of a Novel Model Based on Preoperative Prealbumin and Lactate Dehydrogenase in Hepatocellular Carcinoma Patients With Combined Treatments: A Retrospective Cohort Study**  
*X. Lou<sup>1</sup>, M. Ma<sup>2</sup>, S. Ma<sup>1</sup>, Y. Wu<sup>1</sup>, C. Xuan<sup>1</sup>, Z. Wang<sup>1</sup>, H. Gao<sup>1</sup>. <sup>1</sup>Chinese Academy of Medical Sciences, Beijing, China, <sup>2</sup>University of California, Berkeley, Berkeley, CA*
- 
- B-347 Performance Validation of an In-House Assay for Soluble Mesothelin Related Peptides**  
*J. A. Erickson<sup>1</sup>, K. Doyle<sup>2</sup>. <sup>1</sup>ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, <sup>2</sup>University of Utah School of Medicine, Department of Pathology, Salt Lake City, UT*
- 
- B-350 Hnrnpa2b1 Mediated MicroRNA-92a Upregulation and Section Acts a Promising Non-invasive Diagnostic Biomarker in Colorectal Cancer**  
*Y. Li, W. Cui. Cancer Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China*
- 
- B-351 A Novel Liquid Biopsy Technology Translating Personalized Gene Expression to Drug Efficacy**  
*C. Yeh, S. Lin. OncoDxRx, Los Angeles, CA*
- 
- B-352 Small Extrachromosomal Circular DNAs as Biomarkers for Pan-Cancer Diagnosis and Monitoring**  
*X. Luo, L. Zhang, J. Cui, Q. An, H. Li, Z. Zhang, G. Sun, W. Huang, Y. Li, F. Su, W. Jia, L. Zou, G. Zhao, F. Xiao. Beijing Hospital, Beijing, China*
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- B-355 Measurable Residual Disease Detection in Mantle Cell Lymphoma (MCL) Subjects Using NGS B-Cell MRD Assay**  
*P. Shah<sup>1</sup>, Y. Huang<sup>1</sup>, A. Jacobsen<sup>1</sup>, N. Hill<sup>1</sup>, A. Zlotnicki<sup>1</sup>, O. Diaz II<sup>1</sup>, A. Medina<sup>2</sup>. <sup>1</sup>Invivoscribe, San Diego, CA, <sup>2</sup>Hospital Universitario de Salamanca, Salamanca, Spain*
- 
- B-356 Advancements in Commercial Viability of a Blood Test for the Early Detection of Breast Cancer**  
*C. Kehelpanalla<sup>1</sup>, D. Pascovici<sup>2</sup>, D. Li<sup>1</sup>, K. Heffernan<sup>1</sup>, M. David<sup>1</sup>, K. Huynh<sup>3</sup>, G. Lamoury<sup>4</sup>, K. Ekroos<sup>5</sup>, P. J. Meikle<sup>3</sup>, A. M. Batarseh<sup>1</sup>. <sup>1</sup>BCAL Diagnostics Limited, Sydney, Australia, <sup>2</sup>Insight Stats, Croydon Park, Australia, <sup>3</sup>Baker Heart and Diabetes Institute, Melbourne, Australia, <sup>4</sup>Royal North Shore Hospital, St Leonards, Australia, <sup>5</sup>Lipidomics Consulting Ltd., Esbo, Finland*
- 
- B-358 Application of Surface-Enhanced Raman Spectroscopy to Improve Sensitivity of Clinical Assays**  
*D. Sheik<sup>1</sup>, C. Ummadisetti<sup>1</sup>, K. Byers<sup>1</sup>, V. Suresh<sup>2</sup>, K. Pate<sup>3</sup>, M. Matthews<sup>3</sup>, V. J. Davisson<sup>2</sup>. <sup>1</sup>Amplified Sciences, West Lafayette, IN, <sup>2</sup>Purdue University, West Lafayette, IN, <sup>3</sup>Wasatch Photonics, Morrisville, NC*
- 
- B-359 Bap1 Overexpression Enhances Epithelial-Mesenchymal Transition in Cholangiocarcinoma**  
*H. You<sup>1</sup>, W. Liao<sup>2</sup>, W. Huang<sup>1</sup>. <sup>1</sup>Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, <sup>2</sup>Kaohsiung Medical University, Kaohsiung, Taiwan*
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## TUMOR MARKERS & CANCER DIAGNOSTICS

- B-360 Usefulness of the Ratios of CYFRA21-1 and p53 Autoantibody Immune Complexes to Their Free Antigens in Lung Cancer**  
*Y. Hong, H. Kim, J. Lee, A. Oh, H. Kim. Korea Cancer Center Hospital, Seoul, Korea, Republic of*
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- B-361 Novel Blood-Based Assay for Early Cancer Detection Demonstrates High Precision and Reproducibility on Low Tumor Content**  
*J. Charlton, C. Gilley, E. Brown, K. Gowen, M. Williams, C. DuRoss, J. Sun, J. Gregg. Harbinger Health, Cambridge, MA*
- 
- B-363 Solid Lipid Nanoparticles Mediated CBLC siRNA Delivery as a Platform to Monitor and Probe Biological Functions**  
*K. R. Master, M. Bayachou. Cleveland State University, Cleveland, OH*
- 
- B-364 Inhibition of Hypoxia-Inducible Factor-1a (HIF-1 a) Provides a Therapeutic Approach for Hepatocellular Carcinoma (HCC)**  
*U. M. Alghamdi. Cleveland State University, Cleveland, OH*
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- B-365 Serum MAGE-A3 and MAGE-A4 Protein Levels as Potential Prognostic Biomarkers for Lung Cancer**  
*D. Kong<sup>1</sup>, R. Gonzalez<sup>1</sup>, J. Yom<sup>1</sup>, Z. Guo<sup>1</sup>, T. Qu<sup>1</sup>, X. Hu<sup>2</sup>, Q. Ren<sup>2</sup>, Z. Wu<sup>2</sup>, E. Zewdu<sup>1</sup>, H. Guo<sup>1</sup>, B. Gilmore<sup>1</sup>, Z. Zhao<sup>1</sup>, X. Liu<sup>1</sup>, W. Fu<sup>1</sup>. <sup>1</sup>OriGene Technologies, Inc., Rockville, MD, <sup>2</sup>OriGene Wuxi Biotechnology Co., Ltd, Wuxi, China*
- 
- B-366 Thyroglobulin Reflex to Manage Thyroglobulin Autoantibody Interference in an Academic Medical Center: A Comparison of Two Immunoassays and an LC-MS/MS Assay in the Presence of Thyroglobulin Autoantibodies**  
*M. Dee, N. Boyert, D. Payto, J. Colon-Franco. Cleveland Clinic Foundation, Cleveland, OH*
- 
- B-367 Analytical Validation of New CLIA Based TPS Assay as a Biomarker in Cancer Management**  
*K. Jagarlamudi<sup>1</sup>, Y. Damico<sup>1</sup>, P. Pellegrini<sup>1</sup>, M. Torstenson<sup>1</sup>, Z. Xia<sup>2</sup>, L. Xue<sup>2</sup>. <sup>1</sup>AroCell AB, Stockholm, Sweden, <sup>2</sup>ZECEN Biotech CO., Ltd, Jiangsu, China*
- 
- B-368 Non-invasive Longitudinal Analysis of Cancer Signal to Monitor Disease Progression and Responses to Treatment**  
*C. Gilley, J. Charlton, M. Williams, R. Stevens, J. Sun, Z. Zhang, R. Witkowski, T. Shuber. Harbinger Health, Cambridge, MA*
- 
- B-370 Clinical Utility of microRNA Quantitative Analysis Using Double Quencher Probes and Methylation Analysis By Methylation Sensitive Restriction Enzyme Polymerase Chain Reaction for Bladder Cancer**  
*A. Naruse<sup>1</sup>, A. Kikuchi<sup>1</sup>, K. Takagi<sup>2</sup>. <sup>1</sup>Daiyukai Research Institute for Medical Science, Ichinomiya, Japan, <sup>2</sup>Daiyukai Daiichi Hospital, Ichinomiya, Japan*
- 
- B-371 Two Cases of Multiple Myeloma Achieving Complete Remission But Presenting Residual M-Protein by the EXENT® Solution**  
*O. Berlanga, J. Birtwistle, S. Allen, G. Malin, G. Lakos. The Binding Site, Birmingham, United Kingdom*
- 
- B-372 Isolation of Circulating Nucleic Acids From Human Plasma Using Functionalized Magnetic Particles With High Efficiency**  
*C. Chen, C. Chen, T. Wu, B. Chen, P. Peng, S. Chen. Industrial Technology Research Institute, Hsinchu, Taiwan*

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## TUMOR MARKERS & CANCER DIAGNOSTICS

- B-373 The Development of a Logic-Gate Probe to Investigate Hypoxia in Cancer Stem Cells**  
*C. B. Swartchick, J. Chan. University of Illinois at Urbana Champaign, Urbana, IL*
- 
- B-374 Early Prediction of Recurrent Non-Muscle Invasive Bladder Cancer Using ATR-FTIR in Urine Samples**  
*H. Kalil<sup>1</sup>, S. Maher<sup>2</sup>, A. Mohamed<sup>3</sup>, A. El-Tobgy<sup>4</sup>, M. Bayachou<sup>1</sup>, A. El-Falouji<sup>4</sup>. <sup>1</sup>Cleveland State University, Cleveland, OH, <sup>2</sup>Cleveland Clinic, Cleveland, OH, <sup>3</sup>Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, <sup>4</sup>Suez Canal University, Ismailia, Egypt*
- 
- B-375 Mer-idpqr: A Method for Sequence-Specific Measurement of Small RNA Expression and Methylation in Liquid Biopsies**  
*R. Horos, A. Daniel-Moreno, C. Bieg-Salazar, J. Skottke, J. Ceiler, M. Sanchez-Delgado, T. Sikosek, T. Rajakumar, B. R. Steinkraus. Hummingbird Diagnostics GmbH, Heidelberg, Germany*
- 
- B-376 Performance of Pathological Anatomy Immunohistochemical Markers and Serum Tumor Markers in Prostate Cancer**  
*I. C. Silva<sup>1</sup>, G. C. Carvalho<sup>1</sup>, F. A. Vilaca<sup>1</sup>, D. R. Ramadan<sup>1</sup>, S. Tufik<sup>1</sup>, M. C. Feres<sup>2</sup>. <sup>1</sup>Associação Fundo de Incentivo a Pesquisa - Afip, Sao Paulo, Brazil, <sup>2</sup>Associação Fundo de Incentivo - Afip, Sao Paulo, Brazil*
- 
- B-377 Mircnps as Potential Colorectal Cancer Biomarkers: An Overview**  
*C. Santos Silva, K. Alves dos Santos, K. Costa de Souza, V. Nogueira Silbiger, A. Ducati Luchessi. Federal University of Rio Grande do Norte, Natal, Brazil*
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- B-378 Cell-free Plasma Preparation Workflow Solution**  
*L. Manley, S. Lopez, L. Kothandaramaswamy, H. Saunders, A. Cheng. Thermo Fisher Scientific, Austin, TX*
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- B-379 Analytical Performance of Two Tumor Marker Immunoassays on the Atellica CI 1900 Analyzer**  
*M. Quintanilla, A. Baldys, K. Thakur, G. Arrode-Bruses, J. Rhea-McManus, H. Leipold. Siemens Healthineers, Tarrytown, NY*
- 
- B-380 Drift of Freelite on Optilite**  
*M. H. Griffiths<sup>1</sup>, V. Kulasingam<sup>2</sup>, P. L. Cheng<sup>2</sup>, X. Y. Wang<sup>2</sup>, R. J. Schneider<sup>3</sup>. <sup>1</sup>Diazyme Laboratories, Poway, CA, <sup>2</sup>Division of Clinical Biochemistry, University Health Network, Toronto, ON, Canada, <sup>3</sup>Abbott Laboratories, Abbott Park, IL*
- 
- B-381 A Multiplex Blood-Based Assay Targeting DNA Methylation in Peripheral Blood Mononuclear Cells Enables Early Detection of Breast Cancer**  
*C. Wang, J. Li, T. Wang. The Second Hospital of Shandong University, Jinan, China*
- 
- B-382 Accurate and Early Detection of Colorectal Cancer Using a Multilocus DNA Methylation Markers-based Testing in Peripheral Blood Mononuclear Cells**  
*C. Wang<sup>1</sup>, P. Li<sup>2</sup>, Y. Xie<sup>2</sup>. <sup>1</sup>The Second Hospital of Shandong University, Jinan, China, <sup>2</sup>The Second Hospital of Shandong University, Jinan, China*
- 
- B-383 Exosomal PRPSAP1 in Plasma Predicts Microvascular Invasion in Hepatocellular Carcinoma**  
*Z. Xin, J. Zhou, H. Chen, M. Song, L. Jiao, B. Ying. West China Hospital of Sichuan University, Chengdu, China*
-

# SCIENTIFIC POSTER SESSIONS

9:30 a.m. - 5:00 p.m.

## TUMOR MARKERS & CANCER DIAGNOSTICS

- B-384 Genetic Variations Predict Severe Immunotherapy-related Adverse Events for PD-1/PD-L1 Inhibitors**  
 Z. Xin<sup>1</sup>, L. You<sup>1</sup>, F. Na<sup>1</sup>, J. Li<sup>1</sup>, M. Chen<sup>2</sup>, J. Song<sup>1</sup>, L. Bai<sup>1</sup>, J. Chen<sup>1</sup>, J. Zhou<sup>1</sup>, B. Ying<sup>1</sup>. <sup>1</sup>West China Hospital of Sichuan University, Chengdu, China, <sup>2</sup>The First Affiliated Hospital of Hainan Medical College, Haikou, China
- 
- B-385 Multi-omics to Reveal the Characteristics of the Gut Microbiome and Metabolome in Patients With Colorectal Cancer Liver Metastasis**  
 AACC ACADEMY  
 L. Du<sup>1</sup>, P. Li<sup>2</sup>, X. Zhang<sup>2</sup>. <sup>1</sup>Shandong University Qilu Hospital, Jinan, China, <sup>2</sup>The Second Hospital of Shandong University, Jinan, China
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- B-386 Construction of Exosome SORL1 Detection Platformbased On 3D Porous Microfluidic Chip and Its Application in Early Diagnosis of Colorectal Cancer**  
 L. Du<sup>1</sup>, P. Li<sup>2</sup>, Y. Chen<sup>2</sup>. <sup>1</sup>Shandong University Qilu Hospital, Jinan, China, <sup>2</sup>The Second Hospital of Shandong University, Jinan, China
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- B-387 Circular RNA hsa\_circ\_0067842 Facilitates Tumor Metastasis and Immune Escape in Breast Cancer Through HuR/CMTM6/PD-L1 Axis**  
 L. Du<sup>1</sup>, J. Li<sup>2</sup>, X. Dong<sup>2</sup>. <sup>1</sup>Shandong University Qilu Hospital, Jinan, China, <sup>2</sup>The Second Hospital of Shandong University, Jinan, China
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- B-388 Clinical Performance of Xpert BCR-ABL Ultra Assay for Isoform p210 Auantitation**  
 F. K. Marques, C. P. Mendonça, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
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- B-389 Validation of One-step In-house RT-qPCR Method for Detecting MLL::AF4 Fusion**  
 F. K. Marques, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
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- B-390 Next-generation Sequencing Panel to Detect Homologous Recombination Deficiency (HRD) Biomarkers in Brazilian Ovarian Cancer Samples**  
 A. B. de Lima, L. R. Leite, M. C. Freire, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
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- B-391 Is Comprehensive Cancer Panel By Next-Generation Sequencing (NGS) More Efficient Than Cancer-Specific Ngs Panel in the Management of Non-Small Cell Lung Cancer Patients?**  
 AACC ACADEMY  
 L. B. Alvim, F. L. Marinho, M. C. Freire, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
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- B-392 Standardization of Nucleic Acid Extraction Method From Thyroid Fine Needle Aspiration (FNA) Cells on Stained and Fixed Slides For Next-Generation Sequencing Protocols**  
 L. A. Martins<sup>1</sup>, R. S. Domingues<sup>1</sup>, G. M. de Moraes<sup>2</sup>, G. C. Penna<sup>2</sup>, D. A. Zauli<sup>1</sup>, A. B. de Lima<sup>1</sup>. <sup>1</sup>Instituto Hermes Pardini, Vespasiano, Brazil, <sup>2</sup>Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

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