2022 AACC ANNUAL SCIENTIFIC MEETING+ CLINICAL LAB EXPO

JULY 24-28 / CHICAGO

# THE LAB +BEYOND

## PROGRAM & POSTER ABSTRACTS GUIDE

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Mayo Clinic, Rochester, MN

AACC

# 74 YEARS OF INNOVATION THAT GOES BEYOND

We are beyond excited to welcome you to Chicago for the 2022 AACC Annual Scientific Meeting & Clinical Lab Expo — the premier destination for leaders from every facet of the industry, both in the lab + beyond.

Once a year we gather to analyze, test, examine, and anticipate what's next as one global laboratory medicine community. Collaborating and connecting across specialties, our collective power creates systemwide changes that improve patient outcomes and quality of life for all.

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# GENERAL MEETING INFORMATION

All locations are in the McCormick Place Convention Center unless otherwise noted.

## REGISTRATION

**General Registration Location:**
North Building, Hall B,
Grand Concourse Lobby

**Exhibitor Registration Location:**
South Building, South Level One Lobby; near shuttle drop off, Gate 2

| | |
|---|---|
| Sunday | 7:30 a.m. - 6:30 p.m. |
| Monday - Wednesday | 7:00 a.m. - 5:00 p.m. |
| Thursday | 8:00 a.m. - 1:00 p.m. |

## INFORMATION DESK

**Location: South Building, Level 2.5**

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

## HOUSING

**Location: Grand Concourse Lobby**

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

## AACC HEADQUARTERS OFFICE

**Location: South Building, S400C**
**Phone: 312-791-6700**

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

AACC Headquarters Office Hours

| | |
|---|---|
| Sunday | 7:30 a.m. - 6:30 p.m. |
| Monday - Wednesday | 7:00 a.m. - 5:00 p.m. |
| Thursday | 8:00 a.m. - 1:00 p.m. |

## BAGGAGE CHECK

**Location: South Building, South Level One Lobby**

| | |
|---|---|
| Monday - Wednesday | 7:00 a.m. - 6:00 p.m. |
| Thursday | 7:00 a.m. - 2:00 p.m. |

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

## LOST & FOUND

**Location: South Building, S102d**

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

## FIRST AID

**Location: South Building, Level 2.5**

Emergency Phone Number: 6060 from any telephone in the convention center.

## NURSING ROOM

**Location: South Building, Level 2.5, Across from Starbucks**

McCormick Place installed private nursing pods called Mamava Lactation Suites. These nursing pods can be locked and unlocked by utilizing the free Mamava mobile app. Please download the Mamava Mobile App at **mamava.com/mobile-app**.

mamava

## SPEAKER READY ROOM

**Location: South Building, S401**

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 AACC 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 | 8:00 a.m. - 6:30 p.m. |
| Monday - Wednesday | 7:00 a.m. - 5:00 p.m. |
| Thursday | 7:00 a.m. - 12:00 p.m. |

## HEALTH & SAFETY

Your health and safety are our top priority. Learn more about AACC's Health and Safety Plan at **meeting.aacc.org/covid19** or in the mobile app. If you are experiencing new COVID-19 symptoms, please contact AACC at 312-791-6700 or report to First Aid located on level 2.5 at McCormick Place.

## PHOTOGRAPHY

Except for photography specifically authorized by AACC, 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.

## PRESS ROOM

**Location: South Building, S103bc**
**Phone: 312-791-6702**

| | |
|---|---|
| Sunday | 9:00 a.m. - 5:00 p.m. |
| Monday - Wednesday | 8:00 a.m. - 5:00 p.m. |
| Thursday | 8:00 a.m. - 1:00 p.m. |

Members of the media can register for the AACC Annual Scientific Meeting 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.

## AACC MEMBERSHIP

To join immediately, stop by either AACC booth #2231 during Expo hours or the AACC Conference Registration Desk. Membership is valid for one full year beginning on the date that you join. Dues are as follows: Professional $244; Professional Affiliate $144; Transitional $83; Express $65; Trainee $40. Customize your membership by participating in one or more scientific divisions—first year members get one Division free.

**AACC Member Lounge**

AACC members are invited to visit the Member Lounge located at the AACC booth #2231 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: South Building, Exhibit Hall A**

| | |
|---|---|
| Tuesday - Wednesday | 9:30 a.m. - 5:00 p.m. |
| Thursday | 9:30 a.m. - 1:00 p.m. |

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

AACC permits individuals age 16 and 17 with a photo ID to register for and attend the 2022 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.

## EXPO EVENTS

**New This Year: Clinical Lab Expo Happy Hour**

Mix and mingle at AACC's first ever Clinical Lab Expo Happy Hour on Tuesday, July 26 from 4:00 p.m. - 5:00 p.m. One complimentary drink per person.

**Recharge on Wednesday**

Light refreshments are available on the show floor at 2:00 p.m., Wednesday, July 27. Please note these are first come, first served, and will only be available while supplies last.

**Thursday Coffee Break**

Enjoy coffee on the show floor at 10:00 a.m., Thursday, July 28. Coffee service provided by Choose Chicago.

**DxPx US Investor & Industry Partnering Conference & Startup City**

At the startup city, life science decision makers will be able to match with numerous potential entrepreneurs, resulting in valuable business connections. Meet your next collaborator through this partnering event. *Free on Thursday to 2022 AACC In-Person registrants.*

DxPx Industry & Investor Partnering Conferences

# MOBILE APP

## DOWNLOAD THE 2022 MOBILE APP

With hundreds of exhibitors to navigate and dozens of educational sessions to attend, planning your busy days at the 2022 AACC Annual Scientific Meeting & Clinical Lab Expo is essential to make the most of this dynamic event. You can do all that and more with the FREE 2022 AACC Annual Scientific Meeting & Clinical Lab Expo mobile app. Available for smartphones and tablets from the Apple App Store and on Google Play for Android devices.

- **VIEW** details on the AACC Opening Mixer, auxiliary events and networking opportunities.
- **PLAN** each day with a built-in calendar.
- **ACCESS** detailed session and speaker information.
- **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.
- **PARTICIPATE** in session polling and view live session presentations through the interactive audience engagement technology.
- **FOLLOW** live tweets and other social media about the meeting.


**TO DOWNLOAD:**

- Visit meeting.aacc.org/2022app
- Search for the app on the Apple App Store or on Google Play, or scan the barcode.

Download on the App Store

GET IT ON Google Play

**Information is accurate at the time of printing, but changes are bound to happen! Stay up to date by using the AACC mobile app.**

# REGISTRATION TYPES & EVENTS

| | CHICAGO ALL ACCESS | | GUEST/SPOUSE | DAILY ACCESS | EXPO ONLY | EXHIBITOR |
|---|---|---|---|---|---|---|
| | IN-PERSON + DIGITAL ACCESS | | IN-PERSON ONLY | | | IN-PERSON + DIGITAL ACCESS |
| **EVENTS** | - AACC Member<br>- Non-member<br>- Trainee/Student Member<br>- Emeritus Member | | Limit one per All Access registrant | Admission/ tickets for day registered *only* | Exhibit Hall access | |
| **Plenary Sessions**<br>10000 Series | | ✔ | ✔ | ✔ | ✕ | ✔ |
| **Scientific Sessions**<br>30000 Series | | ✔ | ✔ | ✔ | ✕ | ✔ |
| **Meet the Experts**<br>60000 Series | | ✔ | ✔ | ✔ | ✕ | ✔ |
| **AACC University**<br>190000 Series | T | $ |  | $ |  | $ |
| **Roundtable Sessions**<br>40000 Series morning<br>50000 Series afternoon | T | $ |  | $ |  | $ |
| **Poster Sessions**<br>In-Person + ePosters | | ✔ | ✔ | ✔ | ✕ | ✔ |
| **Special Events** | T | $ | $ | $ | $ | $ |
| **AACC Opening Mixer**<br>Sunday, July 24 | | ✔ | ✔ | ✔ | ✕ | ✔ |
| **Clinical Lab Expo**<br>Exhibit Hall, July 26 - 28 | | ✔ | ✔ | ✔ | ✔ | ✔ |
| **Industry Presentations**<br>(Hotel + Expo Floor) | | ✔ | ✔ | ✔ | ✔ | ✔ |
| **Startup City presented by DxPx US Conference**<br>(Free Thursday Only) | | ✔ | ✔ | ✔ | ✔ | ✔ |
| **Sunday Special Session + Disruptive Technology Special Session** | | ✔ | ✔ | ✔ | ✕ | ✔ |
| **30 Day Access to All Digital Pass Select Content** | July 29 - August 29, 2022 | | ✕ | ✕ | ✕ | July 29 - August 29, 2022 |
| **Access Session Recordings**<br>August 30, 2022 - July 31, 2023 | ✔ AACC Member<br>$ Non-member | | $ | $ | $ | $ |

✔ Included with registration type  T Ticket required  $ May purchase ticket   Not eligible to purchase ticket  ✕ May NOT attend

# ACTIVITY LOCATIONS

### MCCORMICK PLACE

- Registration
- Scientific Sessions, Plenary Sessions, Meet the Expert Sessions, Roundtable Sessions, AACC University Courses, President's Invited Session, Chair's Invited Session, Special Sessions
- AACC Clinical Lab Expo
- Poster Hall, ePoster stations, and Oral Abstract Presentations
- Product Showcase
- AACC Opening Mixer
- Industry Workshop Theater Presentations
- Lecture Series Presentations

### HYATT REGENCY MCCORMICK PLACE

- AACC Governance Activities
- Affiliated Organization Meetings
- Industry Workshops

### MARRIOTT MARQUIS CHICAGO

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

For a complete list of events happening at the annual meeting, please download and access the 2022 Annual Scientific Meeting & Clinical Lab Expo mobile app.

CHOOSE CHICAGO

**Chicago is home to world-class restaurants, museums and theater. Visit choosechicago.com/2022aacc to find out more.**

1. Cambria Hotel Chicago Loop – Theater District
2. Chicago Marriott Downtown Magnificent Mile
3. Courtyard by Marriott Chicago Downtown/River North
4. Courtyard Chicago Downtown/ Magnificent Mile
5. Embassy Suites Chicago Downtown
6. Embassy Suites by Hilton Chicago Downtown Magnificent Mile
7. Fairmont Chicago, Millennium Park
8. Hampton Inn Chicago McCormick Place
9. Hilton Chicago
10. Hilton Garden Inn Chicago McCormick Place
11. Hilton Garden Inn Chicago Downtown/Magnificent Mile
12. Home2 Suites by Hilton Chicago McCormick Place
13. Hyatt Regency Chicago
14. **Hyatt Regency Chicago McCormick Place – Co-Headquarters Hotel**
15. Intercontinental Chicago Magnificent Mile
16. Loews Chicago
17. **Marriott Marquis Chicago – Co-Headquarters Hotel**
18. Omni Chicago
19. Palmer House Hilton
20. Radisson Blu Aqua Hotel, Chicago
21. Renaissance Chicago Downtown Hotel
22. Royal Sonesta Chicago Downtown
23. Sheraton Grand Chicago
24. Swissôtel Chicago
25. The Westin Chicago River North


O'Hare International Airport
N Milwaukee Ave
Grand
CHICAGO RIVER
W Huron St
W Erie St
W Ontario St
W Ohio St
W Grand Ave
W Illinois St
N Franklin
N Dearborn
N Michigan Ave
N State St
W Hubbard St
W Kinzie St
Merchandise Mart
CHICAGO RIVER
E Wacker Dr
Navy Pier
Du Sable Harbor
W Lake St
Clinton
Clark/Lake
State/Lake
Lake
W Randolph St
Ogilvie Transportation Center
W Washington St
W Madison St
Kennedy Expy
Washington / Wells
Washington
Washington / Wabash
Millennium Park
W Monroe St
W Adams St
Willis Tower / Skydeck Chicago
Quincy / Wells
Monroe
Adams / Wabash
The Art Institute of Chicago
Union Station
THE LOOP
W Jackson Blvd
Jackson
GREEKTOWN
S Wacker Dr
LaSalle
Library
S Michigan Ave
BUSWAY
S Lake Shore Dr
Monroe Harbor
W Van Buren St
UIC / Halsted
Clinton
Eisenhower Expy
Congress Pkwy
W Harrison St
Harrison
S Wells St
S Financial Pl
S La Salle St
S Clark St
S Columbus Dr
CHICAGO RIVER
TTLE
TALY
Roosevelt
John G. Shedd Aquarium
Adler Planetarium
The Field Museum
W Roosevelt Rd
Dan Ryan Expy
S Halsted St
S Jefferson St
S Clinton St
S Canal St
MUSEUM CAMPUS
BUSWAY
W 18th St
S Lake Shore Dr
NORTHERLY ISLAND
Burnham Harbor
S State St
S Wabash Ave
S Michigan Ave
S Indiana Ave
S Prairie Ave
McCORMICK PLACE NORTH
LAKESIDE CENTER
Cermak-Chinatown
Cermak-McCormick Place
McCORMICK PLACE WEST
McCORMICK PLACE SOUTH
Midway International Airport
W Cermak Rd
CHINATOWN
Halsted
55
Stevenson Expy

# SHUTTLE SERVICES

| Date | Service Hours | Departures |
|---|---|---|
| **Sunday, July 24** | 6:30 a.m. - 10:00 a.m.<br>10:00 a.m. - 4:00 p.m.<br>4:00 p.m. - 8:30 p.m.* | Every 20 minutes<br>Every 30 minutes<br>Every 20 minutes |
| **Monday, July 25** | 6:00 a.m. - 10:00 a.m.<br>10:00 a.m. - 4:00 p.m.<br>4:00 p.m. - 6:30 p.m.* | Every 15 minutes<br>Every 30 minutes<br>Every 15 minutes |
| **Tuesday, July 26** | 6:00 a.m. - 10:00 a.m.<br>10:00 a.m. - 4:00 p.m.<br>4:00 p.m. - 6:30 p.m.* | Every 15 minutes<br>Every 30 minutes<br>Every 15 minutes |
| **Wednesday, July 27** | 6:00 a.m. - 10:00 a.m.<br>10:00 a.m. - 4:00 p.m.<br>4:00 p.m. - 6:30 p.m.* | Every 15 minutes<br>Every 30 minutes<br>Every 15 minutes |
| **Thursday, July 28** | 7:00 a.m. - 10:00 a.m.<br>10:00 a.m. - 12:00 p.m.<br>12:00 p.m. - 4:00 p.m.* | Every 15 minutes<br>Every 30 minutes<br>Every 15 minutes |

** Indicates last time shuttle departs convention center to hotels. The last shuttle departs hotels coming to McCormick Place 1 hour prior to this time.*

If you need to arrange wheelchair-accessible transportation, please call 877-865-3437at least 12 hours prior to requested pick-up time or see a shuttle supervisor located at the Shuttle Information desk in the McCormick Place Convention Center, South Building, Level One Lobby.


**SHUTTLE SCHEDULE MAY VARY** due to traffic and weather conditions. Stay up to date by accessing the LIVE shuttle bus schedule in the mobile app.

# ROUTES & BOARDING LOCATIONS

| Route/Color | Hotel | Boarding Location |
|---|---|---|
| #1 - Red | InterContinental Chicago | Illinois St. Entrance |
| | Courtyard Chicago Downtown/ Magnificent Mile | On Erie St. at N. St. Clair St. |
| | Omni Chicago | at Courtyard Stop |
| | Sheraton Grand Chicago | Across N. Water St. at Columbus Dr. |
| | Embassy Suites Magnificent Mile | at Sheraton Stop |
| | Loews Chicago | at Sheraton Stop |
| #2 - Yellow | Hyatt Regency Chicago | Curbside Upper Wacker Dr. by Lobby |
| | Fairmont Chicago, Millennium Park | at Hyatt Regency Stop |
| | Radisson Blu Aqua | at Hyatt Regency Stop |
| | Swissotel Chicago | at Hyatt Regency Stop |
| #3 - Blue | Hilton Garden Inn Magnificent Mile | Lobby Entrance |
| | Chicago Marriott Magnificent Mile | at Hilton Garden Inn Stop |
| | Courtyard by Marriott River North | at Hilton Garden Inn Stop |
| | Embassy Suites Downtown | at Hilton Garden Inn Stop |
| #4 - Green | Cambria Hotel Chicago Loop | Lobby Entrance |
| | Westin Chicago River North | Across Clark St. at James C. Tyree |
| | Renaissance Chicago Downtown | On Wacker Dr. between State St. and Wabash Ave. |
| | Royal Sonesta Chicago Downtown | On Wacker Dr. between State St. and Wabash Ave. |
| #5 - Orange | Palmer House Hilton | Wabash Ave. Entrance |
| | Hilton Chicago | 8th St. Entrance |

# THANK YOU 2022 SPONSORS as of June 7, 2022

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Eurotrol, Inc.
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Gold Standard Diagnostics
Group K Diagnostics
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*Professor of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN*

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*Clinical Professor, University of British Columbia*

*Division Head, Clinical Chemistry, St. Paul's Hospital, Vancouver, British Columbia, Canada*

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*Director, Clinical Chemistry, Point-of-Care Testing, Quality, Chicago, IL*

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*Service Line Medical Director, VUMC Core Laboratory*

*Assistant Professor of Pathology, Microbiology and Immunology, Vanderbilt University, Nashville, Tennessee*

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*Vice Chair, Department of Pathology & Laboratory Medicine, University of Ottawa*

*Deputy Chief Medical and Scientific Officer, Eastern Ontario Regional Laboratory Association*

*Clinical Biochemist, Division of Biochemistry, Department of Pathology & Laboratory Medicine, The Ottawa Hospital*

*Associate Professor, Department of Pathology & Laboratory Medicine, University of Ottawa, Ottawa ON, Canada*

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*Associate Professor of Pathology, Case Western Reserve University, Cleveland, OH*

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*Senior Consultant, J. Michael Consulting LLC, Roswell, GA*

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

**David Shiembob,** MBA, C(ASCP)$^{CM}$
*Healthcare Advisory Services Supervisor at ARUP Laboratories, Salt Lake City, UT*

## EX-OFFICIO WITH VOTE, PRESIDENT OF THE AACC ACADEMY

**Alison Woodworth,** PhD, FAACC
*Professor of Pathology & Laboratory Medicine, University of Kentucky, Lexington, KY*

## EX-OFFICIO

**Mark J. Golden,** FASAE, CAE
*Chief Executive Officer, AACC, Washington, DC*

# AACC AWARDS

*Sponsored by Siemens Healthineers*

Each year, the AACC Awards Committee selects outstanding individuals for the awards, grants, and fellowships presented by AACC. 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. The AACC awards program makes it possible for AACC to honor these exceptional individuals and demonstrates AACC's strong commitment to the growth and advancement of the field of clinical laboratory science.

## COMMITTEE MEMBERS

**Stanley F. Lo,** PhD, DABCC, FAACC, *Chair*
**Alison Woodworth,** PhD, DABCC, FAACC
**Lakshmi Vulimiri Ramanathan,** PhD
**Susan A. Evans,** PhD, FAACC
**Ann M. Gronowski,** PhD, DABCC

### 2022 Wallace H. Coulter Lectureship Award

**George Church,** PhD
*Harvard University*

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

**Michael J. Bennett,** PhD, FRCPath, DABCC, FACB
*University of Pennsylvania Perelman School of Medicine*

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

**James D. Faix,** MD
*Quest Diagnostics*

# AACC AWARDS

### Outstanding Contributions to Education in Clinical Chemistry

**David S. Hage,** PhD
*University of Nebraska, Lincoln*

### Outstanding Scientific Achievements by a Young Investigator

**Christopher W. Farnsworth,** PhD, DABCC
*Washington University School of Medicine*

### Clinical Laboratory Scientist Achievement Award

**Peggy Ann Mann,** MS, MT(ASCP), CPP
*University of Texas Medical Branch (UTMB Health)*

### Past President's Award

**David G. Grenache,** PhD, DABCC
*TriCore Reference Laboratories*

# AACC ACADEMY AWARDS

*Sponsored by Siemens Healthineers*

AACC Academy'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 (formerly NACB) 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 2022 Academy Award Recipients.

### AACC ACADEMY AWARDS COMMITTEE

**James Ritchie,** PhD, DABCC, FAACC, *Chair*
**Patti Jones,** PhD, DABCC, FAACC
**Jawahar Kalra,** PhD, FAACC
**Khushbu Patel,** PhD, DABCC, FAACC
**Roland Valdes,** PhD, DABCC, FAACC

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

**Rossa W.K. Chiu,** MBBS(Qld), PhD(CUHK), FRCPA, FHKCPath
*The Chinese University of Hong Kong*

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

**Roger L. Bertholf,** PhD, DABCC, FAACC, MASCP
*Houston Methodist Hospital, Weill Cornell Medicine*

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

**Ruben Y. Luo,** PhD, DABCC
*Stanford University*

# ACADEMY FELLOWS

AACC Academy is proud to announce its Academy Fellows. As members of AACC 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 27, during the AACC Annual Scientific Meeting.

AACC 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**.

## NEW ACADEMY FELLOWS ACCEPTED SINCE JULY 2021 as of May 1, 2022

**FULL FELLOW**

Sami Albeiroti, PhD, DABCC
Hassan Azzazy, PhD, DABCC
Kayode Balogun, PhD, DABCC
Robert Benirschke, PhD, DABCC
Janetta Bryksin, PhD
Liyun Cao, PhD, DABCC
Yachana Kataria, PhD, DABCC
Joyce Hsuan-Chieh Liao, PhD, DABCC
Jack Maggiore, PhD, DABCC
Jeff Meeusen, PhD, DABCC
Christina Pierre, PhD, DABCC
Karina Rodriguez-Capote, PhD, MD
Peng Yin, PhD, MD

**ASSOCIATE**

Shicheng Chen, PhD
Krishna Vanaja Donkena, PhD
Jayagandan Jayamani, MD

# OTHER AACC AWARDS

Student Research and AACC 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**.

# CONTINUING EDUCATION CREDIT & CERTIFICATE OF ATTENDANCE

AACC's 2022 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 24 – Thursday, July 28, at McCormick Place in Chicago, Illinois. Chicago All Access registrants will also have access to the online Digital Pass Select content from July 29 – August 29, 2022.

## 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 in the demographic form for credit to be reported to CE Broker. This educational activity (All Access pass which includes live courses and recorded digital pass courses) is designated for a maximum of 56.0 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/ASMcredits22**.

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 40.5 *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/ASMcredits22**.

## 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.

## TARGET AUDIENCE

AACC's 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.

# CONTINUING EDUCATION CREDIT & CERTIFICATE OF ATTENDANCE

## 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 whose products are related to the continuing education content. 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 relevant 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 resolved or managed all identified conflicts of interest, as applicable.

## FOLLOW AACC

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

- **Robert H. Christenson**
  **Consultancy(ies), Advisory Boards, etc.:** Babson Diagnostics, Beckman Coulter, Becton Dickinson, Instrumentation Laboratories, Medscape, PixCell Medical, Quidel Healthcare, Roche Diagnostics, Siemens Healthineers, and Sphingotech

  **Lecture Fees (Honoraria, Speakers Bureau, etc.:** Beckman Coulter, Becton Dickinson, Medscape, PixCell Medical, Quidel Healthcare, Roche Diagnostics, Siemens Healthineers, and Sphingotech

  **Grant Support:** Abbott Diagnostics, Beckman Coulter, Becton Dickinson, Biokit Diagostics, Greiner, Instrumentation Laboratories, Medscape, PixCell Medical, Quidel Healthcare, Roche Diagnostics, Siemens Healthineers, and Sphingotech

  **Patent Holder:** Patent holder of two patents on non-invasive detection of reperfusion, myoglobin; cardiac troponin; one patent on risk stratification of STEMI patients after reperfusion with biomarkers; and one patient on a tool for predicting of heart failure in asymptomatic individuals using biomarkers.

  **Stock Ownership:** Babson Diagnostics

- **Christina Lockwood**
  **Stock Ownership:** Bayer Healthcare

- **Daniel Holmes**
  **Consultancy(ies) Advisory Boards, etc.:** Dian Diagnostics

  **Grant Support:** AB Sciex

- **Mark Cervinski**
  **Consultancy(ies), Advisory Boards, etc.:** Roche Diagnostics

  **Patent Holder:** Patent holder of patent number 10338085, "Devices and Methods to Determine Whether to Calibrate a Laboratory Analyzer"

- **Amy Karger**
  **Consultancy(ies), Advisory Boards, etc.:** Roche

  **Grant Support:** Kyowa Kirin Pharmaceutical Development and Siemens Healthcare Diagnostics

- **Maria Alice Willrich**
  **Lecture Fees (Honoraria, Speakers Bureau, etc.):** Siemens Healthineers

  **Grant Support:** The Binding Site, Sebia Inc., and Siemens Healthineers

  **Patent Holder:** Patent holder of patent number PCT/US2015/042580, "Quantifying Monoclonal Antibody Therapeutics by LC-MS/MS"

- **Melanie Yarbrough**
  **Consultancy(ies), Advisory Boards:** Arkray and Roche Diagnostics

- **Brenda Suh-Lailam**
  Consultancy(ies), Advisory Boards, etc.: Instrumentation Laboratory

- **Joe Wiencek**
  **Consultancy(ies), Advisory Boards, etc.:** Roche

  **Grant Support:** Abbott

  **Patent Holder**: Patents on COVID-19 Antibody Testing

- **Amy Saenger**
  **Consultancy(ies), Advisory Boards, etc.:** Radiometer

- **Stephen Master**
  **Consultancy(ies), Advisory Boards, etc.:** Indigo BioAutomation and MEDACorp

- **David Alter**
  **Consultancy(ies), Advisory Boards, etc.:** Siemens-Healthineers

  **Expert Witness:** MooreHall LLC

*The following activity planners reported no financial relationships:*

**Linnea Baudhuin, David Koch, Mary Kay Liggins, Nathalie Lepage, Clayton Wilburn, Saswati Das, Anna Merrill, and Edmunds Reineks**

A summary of the disclosures is available at **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 become 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.


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meeting.aacc.org/2022app

# CONTINUING EDUCATION CREDIT & CERTIFICATE OF ATTENDANCE

## POLICY ON UNLABELED/OFF-LABEL USE

AACC 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). AACC 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

AACC will record learner's personal information as provided on continuing education evaluations to allow for issuance and tracking of CE certificates. AACC 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.


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

1. To claim your credits and/or to obtain your Certificate of Attendance, click the CE/CME icon on the AACC mobile app or go to **aacc.org/ASMcredits22**.
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 (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 2022 AACC Annual Scientific Meeting must be claimed by November 1, 2022.

### California and Florida Licensed Laboratory Professionals Receiving ACCENT® Credit

If you would like AACC to report your credits to your state licensing agency (Laboratory Field Services for California and CE BROKER for Florida), you must:

- claim your credits by the November 1, 2022 deadline; and
- enter your California or Florida license number in the appropriate box when claiming your ACCENT® credits.

### Claiming Credit for Online Digital Pass Select Sessions

Chicago All Access Pass registrants will receive access to online Digital Pass Select sessions from July 29 – August 29, 2022. Visit the mobile app or **aacc.org/ASMcredits22** and evaluate each session you viewed to update your credits. You may not claim credit for a single session twice.

RELEASE DATE: July 24, 2022

EXPIRATION DATE: November 1, 2022 (date after which this activity is no longer certified for continuing education credit)

**For questions regarding continuing education, please email education@aacc.org.**

## AACC REGISTRATION RESOURCE CENTER

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

**1. Open the Resource Center**
Go to **www.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

### 2022 AACC PATHWAYS
2022 AACC Pathways represent six 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.**

### 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.

### PLENARY SESSIONS
Designed for all levels, and featuring visionaries in clinical practice, research, business, and policy.

### MEET THE EXPERT SESSIONS
Attendance limited to 75 participants per session. Admission is first come, first served. These sessions are interactive discussions with plenary speakers.

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

### CHAIR'S INVITED SESSION
The Chair of the 2022 Annual Meeting Organizing Committee created this special session of particular importance to attendees. Details on page 39.

### AACC PRESIDENT'S INVITED SESSION
The AACC President has created this special session of particular importance to attendees. Details on page 35.

### ORAL ABSTRACT PRESENTATIONS
Select poster abstracts identified by the Annual Meeting Organizing Committee will be presented. Details on page 45.

### SESSION RECORDINGS
Sessions at the 2022 AACC Annual Scientific Meeting will be recorded. Access is complimentary to AACC members with full conference registration and is available for purchase for others as an 11-month access that will commence August 30, 2022 and close July 31, 2023. 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 28, 2022, 1:00 p.m. Central).
To purchase, visit **meeting.aacc.org** or go to Conference Registration in the lobby.

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# PLENARY+ SCIENTIFIC SESSIONS

## SUNDAY, JULY 24

**Robert H. Christenson, PhD, DABCC, FAACC, FACC**
Professor of Pathology, Professor of Medical and Research Technology, University of Maryland School of Medicine

Medical Director, Point-of-Care Services and Core Laboratories, University of Maryland Medical Center

# PLENARY SESSION 11001

**SUNDAY, JULY 24**
**5:00 p.m. - 6:30 p.m.**

ROOM: S100
LEVEL: Basic
CREDITS: ACCENT®: 1.0, CME: 1.0

## Biomedical Informatics Strategies to Enhance Individualized Predictive Models

**Lucila Ohno-Machado, MD, PhD, MBA**
*Professor and Chair, Department of Biomedical Informatics Health, Associate Dean, Informatics and Technology, University of California San Diego, La Jolla, CA*

Precision medicine is based on the development of individualized estimates for patients. There is an increasing use of artificial intelligence (AI) in clinical prediction models (e.g., severity scores, sepsis prediction). Although adoption is still sparse among clinicians, we may soon have a long list of predictive models for a given problem and may have a difficult time deciding which one is best. In this plenary session, Dr. Ohno-Machado will introduce how AI models are developed, tested, and validated. Dr. Ohno-Machado will then discuss performance measures that may help clinicians select these models for routine use. This will be presented in a tutorial format that reviews the main differences between statistical models (e.g., regression) and AI models (e.g., neural networks), and describes how different evaluation measures including model simplicity, explainability, and classification performance can be assessed and compared. The goal is to demystify AI for clinicians and biomedical researchers.

# AACC UNIVERSITY

## MORNING | 8:30 a.m. - 11:30 a.m.

T TICKET

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 191001 | Autoantibody Serology: What Every Laboratorian Needs to Know | S503 | 3.0 | 0 | I |

Moderator

- **Autoantibodies: What Are They and How Do We Detect Them?**
  ***Melissa Snyder,*** *PhD, Mayo Foundation, Rochester, MN*
- **Challenges of Autoantibody Serology Assays**
  ***Stacy Kenyon,*** *PhD, DABCC, NRCC, Labcorp, Houston, TX*
- **Analytical and Practical Considerations for Autoantibody Serology Assays**
  ***Lusia Sepiashvili,*** *PhD, DABCC, FCACB, The Hospital for Sick Children, Toronto, ON (Canada)*

| | | | | | |
|---|---|---|---|---|---|
| 191002 | Drug of Abuse Testing: What Lab Staff and Providers Need to Know | S501a | 3.0 | 0 | B |

Moderator

***Christine Snozek,*** *PhD, DABCC, FAACC, Mayo Clinic, Scottsdale, AZ*
***Jennifer Colby,*** *PhD, DABCC, FAACC, MedTox Laboratories, Saint Paul, MN*
***Sarah Delaney,*** *PhD, MSc, Unity Health Toronto, Toronto, ON (Canada)*

| | | | | | |
|---|---|---|---|---|---|
| 191003 | Integrating Chemistry and Hematology in Clinical Practice: An Introduction to Chematology | S501d | 3.0 | 3.0 | B |

*In cooperation with the Hematology & Coagulation Division*

Moderator

- **Introduction to the CBC and the Peripheral Blood Smear and Cases**
  ***Sean Campbell,*** *PhD, DABCC, FAACC, Montefiore Medical Center, Bronx, NY*
- **Introduction to WBC's and Flow Cytometry and Cases**
  ***Nadia Ayala-Lopez,*** *PhD, DABCC, MLS (ASCP), NRCC, Labcorp Drug Development, Avon, IN*

| | | | | | |
|---|---|---|---|---|---|
| 191004 | Troubleshooting for Clinical Liquid Chromatography Tandem Mass Spectrometry Part One: Instrument Basics | S404a | 3.0 | 0 | B |

*In cooperation with the Mass Spectrometry and Separation Sciences Division and Mass Spectrometry and Advances in the Clinical Lab*

Moderator

***Deborah French,*** *PhD, DABCC (CC, TC), FAACC, University of California, San Francisco, San Francisco, CA*
***Judy Stone,*** *PhD, University of California, San Francisco, Oakland, CA*

# AACC UNIVERSITY

T TICKET

## FULL DAY | 8:30 a.m. - 3:30 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 193010 | Building a Laboratory Stewardship Program Brick by Brick | S405 | 6.0 | 6.0 | I |

*In cooperation with the Management Sciences and Patient Safety Division and Patient-centered Laboratory Utilization Guidance Services*

- **Core Elements of Laboratory Stewardship Programs and Teams**
  ***Jessie Conta,*** *MS, CGC, Seattle Children's, Seattle, WA*
- **A Step-by-Step Guide to Setting Up and Maintaining a Stewardship Program**
  Moderator ***Alison Woodworth,*** *PhD, DABCC, FAACC, University of Kentucky, Lexington, KY*
- **Data Acquisition and Analytics in Laboratory Stewardship**
  ***Lee Schroeder,*** *MD, PhD, University of Michigan, Ann Arbor, MI*
- **External Collaboration–Reference Labs, Peer Comparisons, and Beyond: The Key to Patient-Centered Stewardship Initiatives**
  ***Brian Jackson,*** *MD, MS, MBA, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT*
- **Reassessment and ROI: Clinical, Academic, and Financial Impact of Stewardship Initiatives**
  ***Erin Schuler,*** *PhD, University of Kentucky, Lexington, KY*

| | | | | | |
|---|---|---|---|---|---|
| 193011 | Doing More with R: Create Your Own Automated Reports and Dashboards | S403 | 6.0 | 6.0 | I |

- **Part 1: Doing More with R: Create Your Own Automated Reports and Dashboards**
  Moderator ***Shannon Haymond,*** *PhD, DABCC, FAACC, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL*
- **Part 2: Doing More with R: Create Your Own Automated Reports and Dashboards**
  ***Dustin Bunch,*** *PhD, DABCC, Nationwide Children's Hospital, Columbus, OH*

| | | | | | |
|---|---|---|---|---|---|
| 193012 | Ten Hut! Fall in for the Essential Elements of a Point-of-Care Testing Boot Camp | S504a | 6.0 | 0 | B |

*In cooperation with the Management Sciences and Patient Safety Division and Patient-centered Laboratory Utilization Guidance Services*

- **Are You Competent to Evaluate Operator Competency?**
  ***Peggy Mann,*** *MS, MT (ASCP), CPP, University of Texas Medical Branch, Galveston, TX*
- **Integrating Quality and Compliance into POCT**
  ***Kimberly Skala,*** *MT (ASCP), Werfen, Oak Lawn, IL*
- **Are You Connected? Saving Your Sanity Using Connectivity for POCT!**
  ***Kerstin Halverson,*** *MS, Instrumentation Laboratory, Farmington, MN*
- **Working in Multidisciplinary Teams and Strengthening your Communication Skills**
  Moderator ***Jeanne Mumford,*** *MLS, MT (ASCP), Johns Hopkins Hospital, Baltimore, MD*

# AACC UNIVERSITY

TICKET

**FULL DAY | 8:30 a.m. - 3:30 p.m.**

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 193013 | Trust, But Verify: Getting the Most Out of Method Evaluation Experiments, Including Establishing QC After Accepting the New Method | S505 | 6.0 | 6.0 | ◑ |

Moderator

- **Introduction and Setting Performance Goals**
  ***David Koch,*** *PhD, DABCC, FAACC, Emory University/Grady Memorial Hospital, Atlanta, GA*
- **Performance Verification Experiments and Examples**
  ***Janetta Bryksin,*** *PhD, DABCC, Emory University, Decatur, GA*
- **Laboratory Challenges and Experiences in Method Validation**
  ***James Nichols,*** *PhD, DABCC, FAACC, Vanderbilt University Medical Center, Nashville, TN*
- **Establishing QC Parameters for Ongoing Monitoring of Test Performance**
  ***Anthony Killeen,*** *MD, PhD, DABCC, FAACC, University of Minnesota, Minneapolis, MN*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 193014 | Using the CLSI Test Life Phases Model and Guidelines for Meeting International and National Requirements for Establishment of LDTs and Implementation of Validated Test Methods | S404d | 6.0 | 0 | ◑ |

*In cooperation with the Clinical and Laboratory Standards Institute*

- **FDA QSR Requirements**
  ***Marcia Zucker,*** *PhD, FAACC, ZIVD LLC, Plaistow, NH*
- **CLIA Requirements**

Moderator

***J. Rex Astles,*** *PhD, FAACC, Centers for Disease Control and Prevention, Atlanta, GA*

- **Requirements of ISO Standards That Affect LDT Development and Test Method Implementation**
  ***Lucia Berte,*** *MA, MT (ASCP)SBB, DLM, Laboratories Made Better!, Broomfield, CO*
- **Using CLSI Guidelines to Ensure a Quality LDT Method: A Real-Life Example**
  ***Paula Ladwig,*** *MS, MT (ASCP), Mayo Clinic, Rochester, MN*
- **An External Reviewer's Perspective**
  ***Zhimin Tim Cao,*** *MD, PhD, DABCC, FAACC, SUNY Upstate Medical University, Syracuse, NY*

# AACC UNIVERSITY

## AFTERNOON | 12:30 p.m. - 3:30 p.m.

T TICKET

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 192005 | Beginner's Guide to Next Generation Sequencing: From Validation to Practical Considerations in Germline and Somatic Testing | S501d | 3.0 | 0 | B |

*In cooperation with the Molecular Pathology Division*

- **Getting Started with NGS: Overview of Technology, Bioinformatics, and Validation**
  ***Susan Hsiao,*** *MD, PhD, Columbia University Medical Center, New York, NY*
- **NGS Applications for Inherited Testing: Casting an Ever-Widening Net**
  ***Jillian Buchan,*** *PhD, University of Washington, Seattle, WA*
- **Practical Considerations for NGS Testing in Oncology**

Moderator — ***Vera Paulson,*** *MD, PhD, University of Washington, Seattle, WA*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 192006 | Changing Leadership Mindsets for Addressing Critical Issues in the Laboratory and Adopting Disruptive Change | S501a | 3.0 | 3.0 | I |

*In cooperation with the IFCC Education and Management Division and Committee on Clinical Laboratory Management*

- **From Competency Models to Collective Leadership: New Mindsets for Laboratory Leaders**
  ***Sedef Yenice,*** *PhD, MBA, Gayrettepe Florence Nightingale Hospital, Istanbul (Turkey)*
- **Leveraging Disruption Toward Positive Change and Sustainable Laboratory Services by Design**

Moderator — ***Edward Randell,*** *PhD, FCACB, FAACC, Memorial University/Eastern Health Authority, St. John's, NL (Canada)*

- **Shifting Laboratory Management to New and Unconventional Approaches for Performance Innovation**
  ***Matthias Orth,*** *MD, PhD, Vinzenz von Paul Kliniken gGmbH Marien Hospital, Stuttgart (Germany)*
- **Laboratory Strategic Leadership Plan Towards Improving Value-Based Laboratory Utilization**
  ***Praveen Sharma,*** *PhD, All India Institute of Medical Sciences, Jodhpur (India)*

# AACC UNIVERSITY

TICKET

## AFTERNOON | 12:30 p.m. - 3:30 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 192007 | LC-MS/MS Operations and Quality Assurance: A Primer | S503 | 3.0 | 0 | I |

Moderator — ***Brian Rappold,*** *BS, Labcorp, Raleigh, NC*

| | | | | | |
|---|---|---|---|---|---|
| 192008 | Troubleshooting for Clinical Liquid Chromatography Tandem Mass Spectrometry Part Two: Identifying Method Problems and Building Robustness | S404a | 3.0 | 3.0 | I |

*In cooperation with the Mass Spectrometry and Separation Sciences Division and Mass Spectrometry and Advances in the Clinical Lab*

Moderator — ***Deborah French,*** *PhD, DABCC (CC, TC), FAACC, University of California, San Francisco, San Francisco, CA*

***Judy Stone,*** *PhD, University of California, San Francisco, Oakland, CA*

| | | | | | |
|---|---|---|---|---|---|
| 192009 | Using Health Economic Analysis to Translate Laboratory Information into Value | S502 | 3.0 | 3.0 | A |

*In cooperation with the IFCC Committee for the Value Proposition in Laboratory Medicine*

Moderator

- **Bridging the Gulf Between Economic Analysis and Laboratory Medicine**
  ***Andrew St John,*** *PhD, Drajon Health, Toodyay, WA (Australia)*
- **Development of Health Economic Analysis Tools to Apply to Laboratory Testing**
  ***Paul Jülicher,*** *PhD, Abbott Laboratories, Wiesbaden (Germany)*
- **The Role of the Laboratory in Translational Health Economics**
  ***Maurice O'Kane,*** *BSc(Hons), MB, ChB, MD, FRCPath, Altnagelvin Hospital/Western Health and Social Care Trust, Londonderry (Ireland)*


**FIND SESSION DESCRIPTIONS. STAY UP TO DATE.**
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# SUNDAY SPECIAL SESSION

## AFTERNOON | 3:45 p.m. - 4:45 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 11002 | How Low Is Too Low? Hemoglobin A1c Considerations in Diabetes Management | S100 | 1.0 | 1.0 | B |

Moderator *Daniel Holmes, MD, FRCPC, University of British Columbia/St. Paul's Hospital, Vancouver, BC (Canada)*

- **Highs and Lows: My Life with A1c's**
  *James Hirsch, Journalist and Author, Needham, MA*
- **Limitations of HbA1c: What Every Provider, Patient, and Payor Needs to Know**
  *Irl Hirsch, MD, MACP, University of Washington Medicine Diabetes Institute, Seattle, WA*

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# PLENARY+ SCIENTIFIC SESSIONS

## MONDAY, JULY 25

**Brenda Suh-Lailam, PhD, DABCC, FAACC**
Associate Professor/Director, Clinical Chemistry and Point-of-Care Testing, Northwestern University/Ann & Robert H. Lurie Children's Hospital of Chicago

# PLENARY SESSION 12001

**MONDAY, JULY 25**
**8:45 a.m. - 10:15 a.m.**

ROOM: S100
LEVEL: Intermediate
CREDITS: ACCENT®: 1.0, CME: 0

## 2022 WALLACE H. COULTER LECTURESHIP AWARDEE

### Multiplexed & Exponentially Improving Technologies

**George Church, PhD**

*Founding Core Faculty & Lead, Synthetic Biology*
*Wyss Institute, Harvard University*

*Professor of Genetics, Harvard Medical School*

*Professor of Health Sciences and Technology,*
*Harvard/Massachusetts Institute of Technology,*
*Boston, MA*

Despite the 50-million-fold reduction in cost and comparable improvements in quality, we are just beginning to catch up with the implications of multiplexed sequencing and imaging. Through the advances in multiplexed sequencing and imaging, we can Identify small but crucial differences in DNA, RNA, proteins, and more at the population scale as well as at subcellular resolution. In this plenary session, Dr. George Church, AACC's 2022 Wallace H. Coulter Lectureship Awardee and pioneer in personal genomics and synthetic biology, will discuss advances and implications of multiplex technologies.

# ROUNDTABLE SESSIONS

T TICKET

**7:30 a.m. - 8:30 a.m. (40000 Series) -*or*- 12:30 p.m. - 1:30 p.m. (50000 Series)**
ROOM: S406 • 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. AACC does not provide meals for these sessions. Concession stands are available to purchase food.

| AM SESSION / PM SESSION | TITLE | LEVEL |
|---|---|---|
| 42102<br>52202 | An Enigmatic Hormone? Parathyroid Hormone: So Many Fragments, Forms, and Generations of Assays!<br>***Asmita Hazra,*** *MD, Government Medical College Pali Rajasthan, Jodhpur (India)* | I |
| 42103<br>52203 | Basic Quantitative Method Verification Using R<br>***Alexander Leichtle,*** *MD, Inselspital/University Hospital of Bern, Berne (Switzerland)* | B |
| 42104<br>52204 | Beyond Mass Spectrometry: Novel Multiplex Proteomics Technologies for the Analysis of Biofluids from Bench to the Bedside<br>***Annie Ren,*** *PhD, University of Toronto, Toronto, ON (Canada)* | B |
| 42106<br>52206 | Children Are Not Little Adults: Special Considerations in Pediatric Laboratory Testing<br>***Emily Garnett,*** *PhD, DABCC, NRCC, Baylor College of Medicine, Houston, TX* | I |
| 42107<br>52207 | Demonstrating the Value of Clinical Laboratory Medicine: Partnership with Case Management<br>***Andrew Fletcher,*** *MD, MBA, CPE, CHCQM, Eutilogic Consulting, Salt Lake City, UT* | B |
| 42108<br>52208 | Driving and Cannabis Use: What is the Legal Threshold for Intoxication?<br>***William Schreiber,*** *MD, LifeLabs, Burnaby, BC (Canada)* | B |
| 42109<br>52209 | Establishing a LC-MS/MS Quality Assurance Program<br>***Sheng-Ying Lo,*** *PhD, DABCC, Geisinger Medical Laboratories, Danville, PA* | B |
| 42110<br>52210 | Establishment of Pediatric Reference Intervals<br>***Li Zha,*** *PhD, DABCC, University of Rochester Medical Center, Rochester, NY* | B |
| 42111<br>52211 | Filling in the Gaps: Updates on the Role of Laboratory Testing in Diagnosis and Management of Diabetic Ketoacidosis<br>***Brooke Andrews,*** *PhD, University of Kentucky, Lexington, KY* | B |
| 42112<br>52212 | Gels from Hell: Overcoming Difficult-to-Interpret Serum Protein Electrophoresis and Immunofixation Test Findings<br>***Robert Maynard,*** *PhD, University of North Carolina Hospitals, Chapel Hill, NC* | B |
| 42113<br>52213 | Getting That New Job: A Guide to Applying, Interviewing and Negotiating<br>***Khushbu Patel,*** *PhD, DABCC, FAACC, Children's Hospital of Philadelphia, Philadelphia, PA* | B |
| 42114<br>52214 | HIV Diagnostics: What's Next?<br>***Vincent Ricchiuti,*** *PhD, ABB, FAACC, Labcorp, Dublin, OH* | B |
| 42115<br>52215 | How People Try to Beat Drug Testing and Defend Positive Results<br>***Amitava Dasgupta,*** *PhD, DABCC, UTHealth Houston McGovern Medical School, Houston, TX* | B |

# ROUNDTABLE SESSIONS

T TICKET

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| AM SESSION / PM SESSION | TITLE | LEVEL |
|---|---|---|
| 42116<br>52216 | Implementing LC-MS into the Clinical Lab: Clinical Utility and Method Development Strategies<br>***Robin Kemperman,*** *PhD, Children's Hospital of Philadelphia, Philadelphia, PA* | B |
| 42117<br>52217 | Introduction to Biochemical Genetics from the Clinical Laboratory Perspective: A Case-Based Discussion<br>***Irene De Biase,*** *MD, PhD, FACMG, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT* | B |
| 42118<br>52218 | Is There a Better Way to Plan and Perform Experiments? Introduction to Experimental Design<br>***Mark Kushnir,*** *PhD, ARUP Laboratories, Salt Lake City, UT* | B |
| 42119<br>52219 | Lab-on-a-Chip Technology: A Driving Force in Point-of-Care Testing<br>***Heather Nelson,*** *PhD, ARUP Laboratories, Salt Lake City, UT* | B |
| 42120<br>52220 | Modalities to Work Up Hemoglobinopathies<br>***Izmarie Poventud-Fuentes,*** *PhD, Baylor College of Medicine/Texas Children's Hospital, Houston, TX* | B |
| 42121<br>52221 | Nuts and Bolts of Implementing High Sensitivity Cardiac Troponin-I at an Academic Hospital<br>***Yachana Kataria,*** *PhD, DABCC, Boston Medical Center, Boston, MA* | B |
| 42122<br>52222 | Overused and Often Abused: The Clinical Utility of Autoimmune Antibody Panels in the Diagnosis of Paraneoplastic Neurologic Syndromes<br>***Bradley Poore,*** *PhD, Dartmouth-Hitchcock Medical Center, Hanover, NH* | B |
| 42123<br>52223 | Quality Control in Molecular Biology Laboratories<br>***Ashwini Kumar Nepal,*** *MS, MLS (ASCP), PPD Laboratories, Highland Heights, KY* | B |
| 42125<br>52225 | Super Villains and Lab Safety: Origin Stories<br>***Dan Scungio,*** *MT (ASCP), SLS, CQA (ASQ), CHOP, Sentara Healthcare, Williamsburg, VA* | I |
| 42126<br>52226 | The ABCs of Thrombosis Testing: Case Based Approach<br>***Olajumoke Oladipo,*** *MD, MSc, DABCC, FAACC, Penn State Milton S. Hershey Medical Center, Hershey, PA* | I |
| 42127<br>52227 | The CDC Vitamin D Standardization-Certification Program: Assisting Laboratories and Assay Manufacturers with Improving 25-Hydroxyvitamin D Measurements<br>***Otoe Sugahara,*** *BS, Centers for Disease Control and Prevention, Atlanta, GA* | I |
| 42128<br>52228 | Total Allowable Error (TEa): How Much Error Can Your Laboratory Allow?<br>***Kornelia Galior,*** *PhD, DABCC, UW Madison, Madison, WI* | B |
| 42129<br>52229 | We Don't Make Widgets: Skills for Boosting Intuition in Laboratory Operations Management<br>***Frederick Strathmann,*** *PhD, MBA, DABCC, 4DQC, LLC, Warrington, PA* | I |

# MEET THE EXPERT

## MORNING | 10:30 a.m. - 11:30 a.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 62001 | Biomedical Informatics Strategies to Enhance Individualized Predictive Models | S101b | 1.0 | 0 | B |

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

***Lucila Ohno-Machado,*** *MD, PhD, MBA, University of California San Diego Health, La Jolla, CA*

| | | | | | |
|---|---|---|---|---|---|
| 62002 | Multiplexed and Exponentially Improving Technologies | S102a | 1.0 | 0 | I |

Moderator — ***Robert Christenson,*** *PhD, DABCC, FAACC, FACC, University of Maryland School of Medicine, Baltimore, MD*

***George Church,*** *PhD, Harvard University/Harvard Medical School/Massachusetts Institute of Technology, Boston, MA*

# PRESIDENT'S INVITED SESSION

## MORNING | 10:30 a.m. - 12:00 p.m.

| | | | | | |
|---|---|---|---|---|---|
| 32101 | Bad, Better, Best: Putting Machine Learning Models to the Test | S402 | 1.5 | 1.5 | B |

Moderator — ***Stephen Master,*** *MD, PhD, FAACC, Children's Hospital of Philadelphia, Philadelphia, PA*

- **Case Discussion**
  ***Shannon Haymond,*** *PhD, DABCC, FAACC, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL*
  ***Christopher McCudden,*** *PhD, DABCC, NRCC, FACB, The Ottawa Hospital General Campus, Ottawa, ON (Canada)*
- **Audience Facilitator**
  ***T. Scott Isbell,*** *PhD, DABCC, FAACC, Saint Louis University School of Medicine, Saint Louis, MO*

# AACC ADVOCACY SPECIAL SESSION

## MORNING | 10:30 a.m. - 12:00 p.m.

| | | | | | |
|---|---|---|---|---|---|
| 32450 | Get the Inside Scoop on What is Happening on Capitol Hill from Our Consultants | S505 | 0 | 0 | B |

Moderator — ***Vince Stine,*** *PhD, AACC, Washington, DC*

- **An Insider's Update on Congress**
  ***William Applegate,*** *Bryan Cave Leighton Paisner LLP*
  ***Christopher Rorick,*** *Bryan Cave Leighton Paisner LLP*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32102 | Cardiometabolic Syndrome: Molecular Mechanisms and Emerging Biomarker Assessment | S404d | 1.5 | 0 | B |

Moderator: *J. Shirley Li, MD, PhD, DABCC, NRCC, The Ohio State University Wexner Medical Center, Columbus, OH*

- **Pathophysiology of Cardiovascular Consequence of Metabolic Syndrome**
  *Alan Wu, PhD, University of California, San Francisco, San Francisco, CA*
- **Molecular Insights in Metabolic Cardiovascular Disease**
  *Ross Solaro, PhD, University of Illinois, Chicago, Chicago, IL*
- **The Evolution of Cardiac Troponin Analysis-Proteomic Analysis**
  *Rongrong Huang, PhD, DABCC, Baylor St. Luke's Medical Center, Houston, TX*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32103 | Emerging Applications of Label-Free Immunoassays in Clinical Diagnostics | S501a | 1.5 | 0 | B |

- **Label-Free Immunoassay: An Emerging Platform in Clinical Immunology and Therapeutic Biologics Monitoring**

Moderator: *Y. Ruben Luo, PhD, DABCC, Stanford University, Palo Alto, CA*

- **Quantitative, Rapid and Real-Time SARS-CoV-2 Antibody Avidity Method Using Label-Free Technologies**
  *Zhen Zhao, PhD, DABCC, FAACC, Weill Cornell Medicine, New York, NY*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32104 | Hemoglobin A1c Results in Patients with Hemoglobin Variants: The Cost of Poor Quality Due to Method Selection and How to Avoid It | S501d | 1.5 | 0 | I |

- **A Clinical Overview of HbA1c, and the Methods Available for Measurement**

Moderator: *David Koch, PhD, DABCC, FAACC, Emory University/Grady Memorial Hospital, Atlanta, GA*

- **Method-Dependent Effects on HbA1c Accuracy for Patients with Variant Hemoglobin Traits**
  *Jeanne Rhea-McManus, PhD, NRCC, Siemens Healthcare Diagnostics, Newark, DE*
- **The Cost of Quality Concept, and the Failure Costs Associated with Choosing the Wrong Method**
  *Lucia Berte, MA, MT (ASCP)SBB, DLM, Laboratories Made Better!, Broomfield, CO*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32106 | SNP! BAM! NEO! Using Proficiency Testing Data to Unlock Your Molecular Lab's Superpowers: An Interactive Session with the College of American Pathologists Molecular Oncology Committee | S505 | 1.5 | 1.5 | I |

*In cooperation with the College of American Pathologists Molecular Oncology Committee*

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

- **Is Bigger Always Better? Lessons Learned from Multi-Analyte NGS Proficiency Tests**
  ***Ian Hagemann,*** *MD, PhD, Washington University in St. Louis, Saint Louis, MO*
- **Comparison of Molecular Oncology Laboratory-Developed Tests and FDA-Approved Assays**
  ***Joel Moncur,*** *MD, PhD, The Joint Pathology Center, Silver Spring, MD*
- **Common Laboratory Errors in Next-Generation Sequencing Assays**
  ***Valentina Nardi,*** *MD, Harvard Medical School/Massachusetts General Hospital, Boston, MA*
- **In Silico Assessments: A Stress Test for Bioinformatics Pipelines**
  ***Ian Hagemann,*** *MD, PhD, Washington University in St. Louis, Saint Louis, MO*
- **Preanalytical Threats: Neoplastic Cellularity and Why It Cannot Be Ignored**
  ***Joel Moncur,*** *MD, PhD, The Joint Pathology Center, Silver Spring, MD*
- **Top 22 Deficiencies in Molecular Oncology Accreditation Inspections**
  ***Nikoletta Sidiropoulos,*** *MD, University of Vermont Medical Center, Burlington, VT*

| | | | | | |
|---|---|---|---|---|---|
| 32107 | The Toxicology Tool Kit: An Interactive, Case-Based Approach to Toxicology Investigations | S502 | 1.5 | 1.5 | I |

- **Unexpected Negatives**

Moderator — ***Nicholas Heger,*** *PhD, C-ASCP, NRCC, Tufts Medical Center, Boston, MA*

- **Unexpected Positives**
  ***Danyel Tacker,*** *PhD, DABCC, FAACC, West Virginia University Hospitals, Morgantown, WV*

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|---|---|---|---|---|---|
| 32108 | Transforming Laboratory Medicine Through Mobile Health Technologies | S504a | 1.5 | 0 | B |

*In cooperation with the IFCC Mobile Health and Bioengineering in Laboratory Medicine Committee*

- **A Future So Bright: Personalizing Laboratory Medicine Through Mobile Health**

Moderator — ***James Nichols,*** *PhD, DABCC, FAACC, Vanderbilt University Medical Center, Nashville, TN*

- **Smart Technologies and Their Impact on the Digital Transformation of the Medical Laboratory**
  ***Frank Desiere,*** *PhD, MBA, Roche, Rotkreuz (Switzerland)*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32110 | Preanalytical Challenges of Blood, Sweat, and Urine Collection in Pediatric Populations | S403 | 1.5 | 1.5 | I |

*In cooperation with the Pediatric and Maternal-Fetal Division*

- **Initial Admission Laboratory Testing in Neonates Using Umbilical Cord Blood**
  *Stefani Thomas, PhD, DABCC, NRCC, University of Minnesota, Minneapolis, MN*
- **Impact of Novel Urine Collection Devices and Techniques on Urine Chemistry Results**

Moderator — *Amy Pyle-Eilola, PhD, Nationwide Children's Hospital, Columbus, OH*

- **Strategies in Improving Sweat Collection Rates**
  *Khushbu Patel, PhD, DABCC, FAACC, Children's Hospital of Philadelphia, Philadelphia, PA*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32111 | New Accurate Plasma Biomarkers in Alzheimer's and Other Neurodegenerative Disease | S503 | 1.5 | 0 | B |

- **Development of Blood-Based Biomarkers in the Diagnosis of Alzheimer's Disease**
  *Kaj Blennow, MD, PhD, University of Gothenburg, Göteborg (Sweden)*
- **The Latest Developments in Blood-Based Alzheimer's Disease Biomarkers**
  *Henrik Zetterberg, MD, PhD, University of Gothenburg, Göteborg (Sweden)*
- **Early Experiences Using Blood-Based Alzheimer's Biomarkers in Clinical Trials and in the Clinic**

Moderator — *Hans Frykman, MD, PhD, FRCP(c), University of British Columbia, Vancouver, BC (Canada)*


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# CHAIR'S INVITED SESSION

## MID-DAY | 12:30 p.m. - 2:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32446 | Population Genomics Health and Precision Medicine | S403 | 1.5 | 0 | B |

Moderator — *Linnea Baudhuin, PhD, DABMGG, FACMG, Mayo Clinic, Rochester, MN*

- **Advancing Precision Health Research for "All of Us"**
  *Stephanie Devaney, PhD, All of Us Research Program, National Institutes of Health, Bethesda, MD*
- **Expanding the Reach of Genomic Screening to Diverse Populations**
  *Eimear Kenny, PhD, Institute for Genomic Health/Icahn School of Medicine at Mount Sinai, New York, NY*

# SCIENTIFIC SESSIONS

## MID-DAY | 12:30 p.m. - 2:00 p.m.

| | | | | | |
|---|---|---|---|---|---|
| 32441 | Albumin Harmonization: Impact on Serum, Urine, and Body Fluid Interpretation | S501a | 1.5 | 1.5 | I |

- **Harmonization of Albumin Measurement Procedures Used for Serum and Urine**
  *Lorin Bachmann, PhD, MT (ASCP), DABCC, Virginia Commonwealth University Health System, Richmond, VA*
- **Performance of Assays to Quantify Body Fluid Albumin**

Moderator — *Darci Block, PhD, DABCC, Mayo Clinic, Rochester, MN*

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|---|---|---|---|---|---|
| 32442 | Cannabis and Driving: Biomarkers, Performance, and Officer Observations | S402 | 1.5 | 1.5 | I |

*In cooperation with the TDM & Toxicology Division*

- **Effects of Cannabis on Driving Performance and User Perception of Safety**
  *Thomas Marcotte, PhD, University of California, San Diego, San Diego, CA*
- **Officer Observations Combined with Toxicology Testing to Determine Impairment**

Moderator — *Robert Fitzgerald, PhD, DABCC, NRCC, FAACC, University of California, San Diego, San Diego, CA*

# SCIENTIFIC SESSIONS

## MID-DAY | 12:30 p.m. - 2:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT*/CME | | LEVEL |
|---|---|---|---|---|---|
| **32443** | Development of Effective Clinical Decision Support Tools for Laboratory Testing | S503 | 1.5 | 1.5 | I |

- **Where Do I Begin? Fundamentals of Clinical Decision Support Strategy and Design**
  *Joseph Rudolf, MD, ARUP Laboratories, Salt Lake City, UT*
- **Where Did I Go Wrong? Case Studies of Clinical Decision Support Challenges and Solutions**

Moderator — *Ronald Jackups, MD, PhD, Washington University in St. Louis, Saint Louis, MO*

| | | | | | |
|---|---|---|---|---|---|
| **32444** | Leadership: Wherever You Go, There You Are | S501d | 1.5 | 1.5 | B |

Moderator

- **Leadership: Introduction and Practical Outcomes**
  *Sara Love, PhD, DABCC, Siemens Healthineers, Newark, DE*
- **Coaching Tools for Stronger Communication**
  *Joy Glasser, MAT, PCC, Glasser Group Inc., Saint Louis Park, MN*
- **Social Engagement: Reading Beyond the Words**
  *Jim Robinson, PhD, Consultant, Saint Paul, MN*

| | | | | | |
|---|---|---|---|---|---|
| **32445** | Optimizing Laboratory Workflows Using Information System Tools: Leveraging Middleware, Health Information, and Laboratory Information Systems to Enhance Patient Care | S504a | 1.5 | 1.5 | I |

- **Utilizing Empirical and Clinical Data to Design Middleware Rules for Managing Specimens with Preanalytical Issues**

Moderator — *Christina Pierre, PhD, DABCC, Penn Medicine Lancaster General Hospital, Lancaster, VA*

- **Leveraging the EPIC-Embedded Analytics Tool Slicer Dicer for Monitoring Lab Quality Indicators**
  *Steven Cotten, PhD, DABCC, NRCC, FAACC, University of North Carolina at Chapel Hill, Chapel Hill, NC*

| | | | | | |
|---|---|---|---|---|---|
| **32447** | Serum COVID-19 Antibodies: Should We Do Testing for Clinical Diagnostics and Monitoring of Vaccine Efficacy? | S404a | 1.5 | 1.5 | I |

Moderator — *Alan Wu, PhD, University of California, San Francisco, San Francisco, CA*

- **Update on 2021 AACC Annual Scientific Meeting COVID-19 Immunology Sample Bank**
  *Victoria Zhang, PhD, MBA, DABCC, FAACC, University of Rochester Medical Center, Rochester, NY*
- **CDC Guidelines for COVID-19 Antibody Testing in Serum**
  *Jefferson Jones, MD, MPH, FAAP, Centers for Disease Control and Prevention, Atlanta, GA*
- **Novel Serum Antibody Tests for COVID-19**
  *Kara Lynch, PhD, DABCC, FAACC, University of California, San Francisco/Zuckerberg SFGH Clinical Laboratories, San Francisco, CA*

# SCIENTIFIC SESSIONS

## MID-DAY | 12:30 p.m. - 2:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32448 | The Clinical Laboratory's Role in Ensuring Sample Quality Prior to Testing | S502 | 1.5 | 1.5 | B |

- **Focus on Pediatric Sample Collection Quality: Dried Blood Spots**
  *Dustin Bunch, PhD, DABCC, Nationwide Children's Hospital, Columbus, OH*
- **Focus on Adult Sample Collection Quality from the Emergency Department: How to Work with Nursing**
  *Eugenio Zabaleta, PhD, OhioHealth Mansfield Hospital, Mansfield, OH*
- **Focus on Sample Transportation and Interference Removal Prior to Testing: Serum Indices and Pneumatic Tube Systems**

Moderator — *Joe El-Khoury, PhD, DABCC, FAACC, Yale University, West Haven, CT*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32449 | Should Race Be Included in the Diagnosis of Kidney Disease? Implications for Diabetes | S404a | 1.5 | 0 | I |

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

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

- **Challenges and Progress in the Measurement of Creatinine and Calculation of eGFR**
  *Gary Horowitz, MD, Tufts Medical Center, Boston, MA*
- **Race Should Be Included in the Diagnosis of Kidney Disease**
  *George Bakris, MD, University of Chicago, Chicago, IL*
- **Race Should Not Be Included in the Diagnosis of Kidney Disease**
  *Dinushika Mohottige, MD, Duke University, Durham, NC*

### STUDENT RESEARCH AWARDS ORAL PRESENTATION COMPETITION

**MONDAY, JULY 25 | 1:30 p.m. - 2:30 p.m.**
**Room S404cd**

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

# SCIENTIFIC SESSIONS

## AFTERNOON | 2:30 p.m. - 4:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32221 | Acid-Base and Blood Gas Interpretations, Treatment Strategies, and Morbidities in Patients with COVID-19 Acute Respiratory Distress Syndrome (ARDS) | S501a | 1.5 | 1.5 | I |

Moderator

- **Mechanisms of Acid-Base and Blood Gas Disorders Applied to Monitoring Respiratory Failure and ARDS**
  *John Toffaletti, PhD, DABCC, Duke University Medical Center, Durham, NC*
- **Pathophysiology, Management, and Treatment of COVID-ARDS: Case Discussions with Utilization of Laboratory Test Results**
  *Lingye (Nina) Chen, MD, Duke University Medical Center, Durham, NC*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32222 | Laboratory Medicine's Role in Creating Equitable Clinical Laboratories: A Global Call to Action | S504a | 1.5 | 1.5 | I |

*In cooperation with the Health Equity and Access Division*

Moderator

- **Designing An Equitable Clinical Laboratory: Test Menu, Result Interpretation, and Outreach**
  *Octavia Peck-Palmer, PhD, FAACC, University of Pittsburgh Medical Center, Pittsburgh, PA*
- **Eliminating the Use of Race Corrections In Medicine**
  *Darshali Vyas, MD, Massachusetts General Hospital, Cambridge, MA*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32224 | Lessons Learned: a Post-Gel Era for Paraproteinemia Analysis | S501d | 1.5 | 0 | I |

Moderator

*Xin Yi, PhD, DABCC, FAACC, Houston Methodist Hospital, Houston, TX*

- **Case-Based Review of Challenging and Unusual Paraproteinemia Profiles**
  *J. Shirley Li, MD, PhD, DABCC, NRCC, The Ohio State University Wexner Medical Center, Columbus, OH*
- **Advantages of Mass Spectrometry-Based Method Over Conventional Electrophoresis on M-Protein Identification**
  *David Murray, MD, PhD, MBA, MT (ASCP), Mayo Clinic, Rochester, MN*
- **How to Integrate Guideline Recommendations with a Multi-Method Approach for Reliable Paraproteinemia Assessment**
  *Rongrong Huang, PhD, DABCC, Baylor St. Luke's Medical Center, Houston, TX*

# SCIENTIFIC SESSIONS

## AFTERNOON | 2:30 p.m. - 4:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32225 | Patient-Based Real-Time Quality Control: Moving from Concept to Implementation | S505 | 1.5 | 1.5 | I |

Moderator

- **An Introduction to Patient Based Real-Time Quality Control**
  *Tony Badrick, PhD, MBA, FAACC, RCPAQAP, Cleveland (Australia)*
- **Validation and Verification of PBRTQC**
  *Mark Cervinski, PhD, DABCC, FAACC, Dartmouth-Hitchcock Medical Center, Lebanon, NH*
- **Real World PBRTQC Applications: Benefits and Limitations**
  *Mark Sharp, BS, Labcorp, Elon, NC*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32226 | Practical Challenges with Implementation of Diagnostic Algorithms for Infectious Disease | S404a | 1.5 | 0 | B |

Moderator

- **Pitfalls and Practicalities of HIV and HCV Algorithmic Testing**
  *Neil Anderson, MD, DABMM, Washington University in St. Louis, St. Louis, MO*
- **Detour Ahead! Navigating Syphilis and Lyme Disease Algorithmic Testing**
  *Elitza Theel, PhD, Mayo Clinic, Rochester, MN*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 32227 | Psychedelics in Medicine: Macroeconomics, Microdoses, and the Laboratory Perceptions | S502 | 1.5 | 1.5 | I |

Moderator

- **Surveying the Emerging Patent Literature and Business Landscape of Psilocybin, DMT, MDMA, and Ketamine**
  *Steven Cotten, PhD, DABCC, NRCC, FAACC, University of North Carolina at Chapel Hill, Chapel Hill, NC*
- **Data Trends and Analytical Approaches in Clinical and Forensic Testing for Psychedelic Compounds: A Trip from Seized Drugs to Postmortem Specimens**
  *Frederick Strathmann, PhD, MBA, DABCC, 4DQC, LLC, Warrington, PA*
- **What's in a (Therapeutic) Dose? Effects of Psychedelics in Full Hallucinogenic Doses and Microdoses on Human Cognitive Performance, Empathy and Wellbeing: Implications for Therapeutic Applications**
  *Kim Kuypers, PhD, Maastricht University, Maastricht (Netherlands)*

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# SCIENTIFIC SESSIONS

## AFTERNOON | 2:30 p.m. - 4:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| **32228** | Social Media in Laboratory Medicine: How to Build Your Presence and Your Career | S503 | 1.5 | 1.5 | B |

Moderator — *Carey-Ann Burnham, PhD, ABMM, Pattern Bioscience/Washington University School of Medicine, Saint Louis, MO*

- **Twitter Social Media in Laboratory Medicine: A Skill for All Ages**
  *Daniela Hermelin, MD, Saint Louis University School of Medicine, Saint Louis, MO*
- **Social Media in Publishing: Twitter and Editorial Comics Through the Lens of the Editor-in-Chief**
  *Alexander McAdam, MD, PhD, Boston Children's Hospital, Boston, MA*

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|---|---|---|---|---|---|
| **32229** | Updates on Chronic Kidney Disease Diagnosis: New Race Neutral eGFR, Measured GFR, and Urine Albumin-to-Creatinine Ratio | S402 | 1.5 | 0 | B |

Moderator — *Joe El-Khoury, PhD, DABCC, FAACC, Yale University, West Haven, CT*

- **Communicating Effectively When Facing Potential Conflict**
  *Pradip Datta, PhD, DABCC, Siemens Healthcare Diagnostics, Newark, DE*
- **Policies and Procedures: It's Not OUR Fault That Nurses Won't Read Our SOPs! Tips for Making POC Documents User Friendly**
  *Jesse Seegmiller, PhD, DABCC, University of Minnesota, Farmington, MN*

| | | | | | |
|---|---|---|---|---|---|
| **32230** | Valid Vital LDTs: Current State of Regulation Legislation of Laboratory-Developed Tests | S403 | 1.5 | 1.5 | I |

Moderator — *Eric Konnick, MD, University of Washington, Seattle, WA*

- **Panelists**

  *Karen Kaul, MD, PhD, Evanston Hospital, Evanston, IL*

  *David Flannery, MD, Cleveland Clinic, Cleveland, OH*

  *Dennis Dietzen, PhD, DABCC, FAACC, Washington University School of Medicine, Saint Louis, MO*

  *Jonathan Genzen, MD, PhD, ARUP Laboratories, Salt Lake City, UT*


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# STUDENT RESEARCH AWARDS COMPETITIONS

## McCORMICK PLACE CONVENTION CENTER

The AACC Student Research Awards competitions showcase AACC'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** to learn more about the competitions, competitors, and winner announcements.

### POSTER COMPETITION

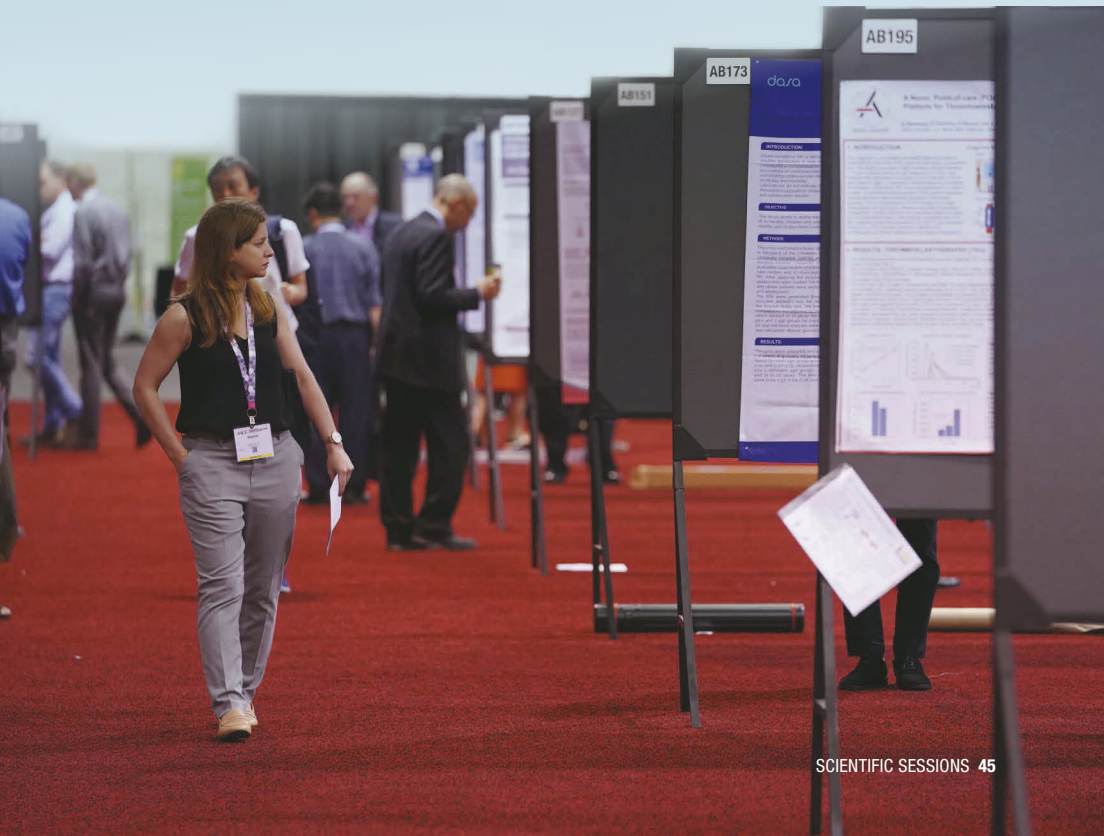
**On display 9:00 a.m. - 5:00 p.m.**
**Judging takes place 2:45 p.m. - 4:00 p.m.**
**Room S405**

Visit the 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 S404cd**

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.



# 2022 AACC DISRUPTIVE TECHNOLOGY AWARD COMPETITION

**AFTERNOON | 4:30 p.m. - 6:00 p.m.**
**Room: S100 (Plenary Ballroom)**

*Sponsored by LabCorp and Pall Medical*

AACC'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 AACC's Annual Scientific Meeting 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.

**FINALISTS:**

**Rob Turner,** M.Eng., *Biological Dynamics, Inc., San Diego, CA*
**Alison Burklund,** PhD, *Nanopath, Cambridge, MA*
**Adam de la Zerda,** PhD, *Visby Medical, San Jose, CA*

# PLENARY+ SCIENTIFIC SESSIONS

## TUESDAY, JULY 26

**David Shiembob, MBA, C(ASCP)CM**
Supervisor, Healthcare Advisory Services,
ARUP Laboratories

# PLENARY SESSION 13001

**TUESDAY, JULY 26**
**8:45 a.m. - 10:15 a.m.**

ROOM: S100
LEVEL: Intermediate
CREDITS: ACCENT®: 1.0, CME: 0

## Applications of Human Brain Organoid Technology

**Alysson Muotri, PhD**
*Professor of Pediatrics*
*Professor of Cellular & Molecular Medicine*
*University of California San Diego School of Medicine, La Jolla, CA*

The human brain is a very complex biological system and responsible for several neurological and neurodegenerative disorders, affecting millions of people worldwide. Despite its importance, the human man is poorly understood due to the inaccessibility of the developmental stages in uterus. Participants of this plenary session will learn the concept of human brain organogenesis, or to put in other words, how to recreate the human brain in a dish. Several applications of this technology in medicine and engineering will be discussed.

# ROUNDTABLE SESSIONS

T TICKET

**7:30 a.m. - 8:30 a.m. (40000 Series) -*or*- 12:30 p.m. - 1:30 p.m. (50000 Series)**
ROOM: S406 • 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. AACC does not provide meals for these sessions. Concession stands are available to purchase food.

| AM SESSION / PM SESSION | TITLE | LEVEL |
|---|---|---|
| 43101<br>53201 | Adrenal Venous Sampling and Practical Considerations for Efficient Laboratory Testing<br>***Anastasia Gant Kanegusuku,*** *PhD, University of Chicago, Chicago, IL* | B |
| 43102<br>53202 | Alternative Matrix Samples: Challenges in Body Fluids Testing and Assays Validation<br>***Alina Sofronescu,*** *PhD, Atrium Health Wake Forest Baptist Health Medical Center, Winston Salem, NC* | B |
| 43103<br>53203 | Anion Gap: A Review and Reappraisal<br>***David Alter,*** *MD, MPH, DABCC, FAACC, Emory University, Atlanta, GA* | I |
| 43104<br>53204 | Clinical Laboratory Leadership and Management During a Pandemic: A Global Perspective<br>***Barnali Das,*** *MD, Kokilaben Dhirubhai Ambani Hospital, Mumbai, Maharashtra (India)* | B |
| 43105<br>53205 | Clinical Utility of the NephroCheck Test for Predicting Risk for Acute Kidney Injury<br>***Ghaith Altawallbeh,*** *PhD, DABCC, Intermountain Healthcare, Murray, UT* | I |
| 43106<br>53206 | Designing a Successful Quality Management System for Point-of-Care Testing<br>***Jack Maggiore,*** *PhD, MT (ASCP), DABCC, FAACC, Loyola University Medical Center, Maywood, IL* | B |
| 43107<br>53207 | Developing a Patient-Centered Laboratory Process to Tackle Pseudohyperkalemia or Pseudohyponatremia<br>***Lu Song,*** *PhD, DABCC, University of California, Los Angeles, Los Angeles, CA* | I |
| 43108<br>53208 | Direct Oral Anticoagulants: Measurands and Interferents in the Clinical Hemostasis Laboratory<br>***Anna Merrill,*** *PhD, DABCC, University of Iowa, Iowa City, IA* | B |
| 43110<br>53210 | eLearning in Laboratory Medicine: Present Scenario and the Way Forward<br>***Prasenjit Mitra,*** *MD, CBiol, CSci, ERT, MRSB, MIScT, FLS, FACSc, FAACC, Post Graduate Institute of Medical Education and Research, Chandigarh, Chandigarh (India)* | B |
| 43111<br>53211 | Essential Statistics for Medical Laboratory Professionals: To Accept or to Reject?<br>***Jayson Pagaduan,*** *PhD, DABCC, Intermountain Healthcare, Murray, UT* | B |
| 43112<br>53212 | Estimated GFR in Children: New Equations and Clinical Applications of Cystatin C<br>***Qian Sun,*** *PhD, DABCC, Beaumont Health, Novi, MI* | B |
| 43113<br>53213 | Exploring Current and Emerging Novel Laboratory Biomarkers of Preeclampsia<br>***Lily Olayinka,*** *PhD, Baylor College of Medicine, Houston, TX* | B |
| 43114<br>53214 | High-Sensitivity Cardiac Troponin Assays: Analytical Nuances and Challenges in Standardization<br>***Kang Xiong-Hang,*** *PhD, Hennepin County Medical Center, Minneapolis, MN* | B |
| 43115<br>53215 | How Often to Repeat the Test: Importance and Challenges of Minimal Retesting Interval<br>***Asmita Hazra,*** *MD, Government Medical College Pali Rajasthan, Jodhpur (India)* | I |

# ROUNDTABLE SESSIONS

T TICKET

**7:30 a.m. - 8:30 a.m. (40000 Series) -*or*- 12:30 p.m. - 1:30 p.m. (50000 Series)**
ROOM: S406 • 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. AACC does not provide meals for these sessions. Concession stands are available to purchase food.

| AM SESSION / PM SESSION | TITLE | LEVEL |
|---|---|---|
| 43116<br>53216 | How Statistics Influence Our Clinical Decisions<br>***Oswald Sonntag,*** *PhD, Consultant, Eichenau (Germany)* | B |
| 43117<br>53217 | Introduction to Pharmacogenomics<br>***Ann Moyer,*** *MD, PhD, Mayo Clinic, Rochester, MN* | B |
| 43118<br>53218 | Largescale Point-of-Care Testing from Test Method Selection to Rollout<br>***Erika Deaton-Mohney,*** *BS, MT (ASCP), CPP, Bronson Health Care System, Kalamazoo, MI* | B |
| 43119<br>53219 | Latest Trends in Designer Drugs<br>***Xander Van Wijk,*** *PhD, DABCC, FAACC, Beckman Coulter, Denver, CO* | I |
| 43120<br>53220 | Measurement of Immunosuppressants by Mass Spectrometry: A Practical Guide<br>***Erica Fatica,*** *PhD, University of Cincinnati, Cincinnati, OH* | B |
| 43121<br>53221 | Minimal or Optimal Analytical Goals to Achieve: A Review of Allowable Total Error<br>***Nga Yeung Tang,*** *PhD, DABCC, NRCC, Beaumont Health, Royal Oak, MI* | I |
| 43122<br>53222 | Rapid Testing for Infectious Diseases<br>***Vera Tesic,*** *MD, MS, ABMM, University of Chicago, River Forest, IL* | B |
| 43123<br>53223 | Stop Managing by Bitmoji: How to Use Process Behavior Charts to Effectively Monitor Non-Analytical Processes in the Laboratory<br>***Frederick Strathmann,*** *PhD, MBA, DABCC, 4DQC, LLC, Warrington, PA* | I |
| 43124<br>53224 | The CDC Hormone Standardization (HoSt) Program and Accuracy-Based Monitoring Program (AMP): Improving Clinical Measurements of Testosterone and Estradiol through Standardization and Monitoring<br>***Otoe Sugahara,*** *BS, Centers for Disease Control and Prevention, Atlanta, GA* | I |
| 43125<br>53225 | The CDC Lipid Standardization Programs: Ensuring Quality Measurements of Existing and Emerging Cardiovascular Disease Biomarkers<br>***Alicia Lyle,*** *PhD, Centers for Disease Control and Prevention, Atlanta, GA* | I |
| 43126<br>53226 | The Good, the Bad, and the Unknown of Serum Protein Electrophoresis and Immunofixation: A Case-Based Discussion<br>***Hoda Hagrass,*** *MD, PhD, MSc, University of Arkansas for Medical Sciences, Little Rock, AR* | B |
| 43127<br>53227 | The Impact of the National Glycohemoglobin Standardization Program on HbA1c Measurement in the Clinical Laboratory<br>***Randie Little,*** *PhD, University of Missouri School of Medicine, Columbia, MO* | B |
| 43128<br>53228 | Time Management Tools for the Laboratory Professional<br>*In cooperation with the Society for Young Clinical Laboratorians.*<br>***Joe El-Khoury,*** *PhD, DABCC, FAACC, Yale University, West Haven, CT* | B |
| 43129<br>53229 | You're Gonna Need a Smaller Tube: Necessary Considerations in Pediatric Laboratory Medicine<br>***Kyana Garza,*** *PhD, Johns Hopkins University School of Medicine, Baltimore, MD* | B |
| 43130<br>53230 | Exploring Racial and Ethnic Health Disparities through a Laboratory Medicine Lens<br>***Christina Pierre,*** *PhD, DABCC, Penn Medicine Lancaster General Hospital, Lancaster, VA* | B |

# MEET THE EXPERT

## MORNING | 10:30 a.m. - 11:30 a.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 63001 | Applications of Human Brain Organoid Technology | S101b | 1.0 | 0 | I |

Moderator

***Robert Fitzgerald,*** *PhD, DABCC, NRCC, FAACC, University of California, San Diego, San Diego, CA*

***Alysson Muotri,*** *PhD, University of California, San Diego School of Medicine, La Jolla, CA*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| | | | | | |
|---|---|---|---|---|---|
| 33101 | AACC Guidance on the Use of Point-of-Care Testing in Fertility and Reproduction | S505 | 1.5 | 1.5 | B |

*In cooperation with the AACC Academy*

- **Point-of-Care Fertility Monitoring and Ovulation Prediction: Test Performance, Clinical Utility, and Emerging Devices**
  ***Li-Sheng Chen,*** *PhD, DABCC, FACB, Michigan Department of Health and Human Services, Silver Spring, MD*
- **To Point-of-Care or Not: Where Should Pregnancy Testing Be Performed?**
  Moderator
  ***James Nichols,*** *PhD, DABCC, FAACC, Vanderbilt University Medical Center, Nashville, TN*
- **Premature Rupture of Membrane (PROM) Testing: Clinical Utility and Performance**
  ***Hoi-Ying Yu,*** *PhD, DABCC, FAACC, Geisinger Health System, Danville, PA*

| | | | | | |
|---|---|---|---|---|---|
| 33102 | Addressing Preanalytical Issues for Blood Collection and Testing Outside Conventional Locations | S402 | 1.5 | 1.5 | I |

*In cooperation with the Health Equity and Access Division*

- **Current Limitations and Potential Improvements of Fingerstick Blood Collections**
  ***Susan Evans,*** *PhD, FAACC, BioDecisions Consulting, Los Gatos, CA*
- **Prevention and Detection of Hemolysis: Unmet Needs in Quality Testing**
  ***Robert Christenson,*** *PhD, DABCC, FAACC, FACC, University of Maryland School of Medicine, Baltimore, MD*
- **Challenges and Promise of Dried Blood Spot Testing for Routine Clinical Analytes**
  Moderator
  ***Alan Wu,*** *PhD, University of California, San Francisco, San Francisco, CA*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33103 | At the Heart of Sex and Gender | S504a | 1.5 | 1.5 | I |

*In cooperation with the Biomarkers of Acute Cardiovascular Diseases and Health Equity and Access Divisions*

Moderator

- **At the Heart of Gender**
  ***Dina Greene,*** *PhD, DABCC, LetsGetChecked, Burien, WA*
- **At the Heart of Sex**
  ***Amy Saenger,*** *PhD, DABCC, FAACC, Hennepin County Medical Center, Minneapolis, MN*

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|---|---|---|---|---|---|
| 33104 | Clinical Chemistry Journal: Hot Topics in Molecular Diagnostics   | S404a | 1.5 | 1.5 | I |

Moderator

***Nader Rifai,*** *PhD, DABCC, FAACC, Harvard Medical School/Boston Children's Hospital, Boston, MA*

- **Reflection on Major Advancements in Circulating Nucleic Acids Research**
  ***Yuk-Ming Lo,*** *MD, PhD, The Chinese University of Hong Kong, Shatin (Hong Kong)*
- **Reflection on Major Advancements in Nucleic Acids Amplification Technologies**
  ***Carl Wittwer,*** *MD, PhD, University of Utah, Salt Lake City, UT*

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|---|---|---|---|---|---|
| 33105 | Considerations and Recommendation for Developing Machine Learning Models in Clinical Laboratory Medicine | S501d | 1.5 | 1.5 | B |

Moderator

- **The Workflow of Machine Learning in Clinical Laboratory Medicine**
  ***He Yang,*** *MBBS, PhD, DABCC, FAACC, Weill Cornell Medicine, New York, NY*
- **Challenges and Pitfalls of, and Recommendations for Machine Learning in Clinical Laboratory Medicine**
  ***Fei Wang,*** *PhD, FAMIA, Weill Cornell Medicine, New York, NY*

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|---|---|---|---|---|---|
| 33106 | Do You Want to Be Responsible for Your Hospital Being Hacked? Cybersecurity and Information Assurance Fundamentals for Laboratory Medicine | S502 | 1.5 | 1.5 | B |

- **Cybersecurity Essential Concepts: From Malware to Proper Cyber Hygiene Practices**
  ***Christopher Williams,*** *EE, MD, University of Oklahoma Health Sciences Center, Oklahoma City, OK*
- **Information Assurance and Clinical Laboratories: Maintaining the Confidentiality, Integrity, and Availability of Laboratory Systems**

Moderator

***David McClintock,*** *MD, Mayo Clinic, Ann Arbor, MI*

- **You Will Get Hacked: Preparing for Cybersecurity Events and Extended Downtimes in Clinical Laboratories**
  ***Thomas Durant,*** *MD, Yale School of Medicine, Wallingford, CT*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33107 | Guidelines for the Laboratory Detection of Monoclonal Gammopathies | S501a | 1.5 | 1.5 | I |

*In cooperation with the Clinical & Diagnostic Immunology Division*

- **Harmonization Need and Utility**
  *Mohammad Ansari, MD, Louis Stokes Veterans Affairs Medical Center, Cleveland, OH*
- **Techniques, Measurement, and Follow-up**

Moderator — *David Keren, MD, MS, University of Michigan, Ann Arbor, MI*

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|---|---|---|---|---|---|
| 33108 | Laboratory Implementation of Recommendations from the NKF-ASN Task Force Reassessing the Inclusion of Race in Diagnosing Kidney Diseases | S405 | 1.5 | 1.5 | I |

Moderator — *Lakshmi Ramanathan, PhD, Memorial Sloan-Kettering Cancer Center, Ardsley, NY*

- **Laboratory Implementation of Recommendations from the NKF-ASN Task Force Reassessing the Inclusion of Race in Diagnosing Kidney Diseases**
  *Joseph Vassalotti, MD, National Kidney Foundation, New York, NY*
- **A Patient Perspective: Recommendations from the NKF-ASN Task Force Reassessing the Inclusion of Race in Diagnosing Kidney Diseases**
  *Curtis Warfield, MS, National Kidney Foundation, New York, NY*

| | | | | | |
|---|---|---|---|---|---|
| 33109 | The Clinical Laboratory Workforce: Essential Before, Critical Now, and a Blueprint for a Stronger Future | S403 | 1.5 | 1.5 | B |

- **Strengthening the Clinical Lab Professional Workforce: The Roles and Concerns of Educators and Employers**

Moderator — *Bianca Frogner, PhD, University of Washington Center for Health Workforce Studies, Seattle, WA*

- **Recruiting and Retaining a Qualified, Diverse Workforce: Challenges and Facilitators Faced by Clinical Lab Professionals**
  *Edna Garcia, MPH, American Society for Clinical Pathology, Washington, DC*
- **Creating A Blueprint for Action to Strengthen the Workforce of Clinical Laboratory Professionals**
  *Edna Garcia, MPH, American Society for Clinical Pathology, Washington, DC*

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# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33110 | What's Wrong with These Results? Effects of Herbal Supplements on Clinical Laboratory Test Results and Patients | S404d | 1.5 | 1.5 | B |

Moderator

- **Herbal Supplements: The Good, the Bad, and the Ugly Using Real Clinical Case Reports**
  *Paul Jannetto, PhD, DABCC, MT (ASCP), FAACC, Mayo Clinic, Rochester, MN*
- **Treatment Failure Due to Drug-Herb Interactions and How Laboratory Results Can Predict Such Interactions**
  *Amitava Dasgupta, PhD, DABCC, UTHealth Houston McGovern Medical School, Houston, TX*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33111 | Where Lab and Clinicians Converge: An Update on Primary Aldosteronism | S503 | 1.5 | 1.5 | I |

Moderator

*Daniel Holmes, MD, FRCPC, University of British Columbia/St. Paul's Hospital, Vancouver, BC (Canada)*

- **Advances in Primary Aldosteronism: A Clinician's Perspectives**
  *Gregory Kline, MD, University of Calgary, Calgary, AB (Canada)*
- **Advances in Primary Aldosteronism: A Laboratorian's Perspectives**
  *Andrew Don-Wauchope, MBCh, MD, FRCP, LifeLabs, Oakville, ON (Canada)*
- **Primary Aldosteronism: The Patient Journey**
  *Kelly-Anne Dypolt-O'Mahony, Canada Energy Regulator, Calgary, AB (Canada)*

## VISIT THE POSTER HALL

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

Posters are on display on the Expo show floor in the Poster Hall of the McCormick Place 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.

# SCIENTIFIC SESSIONS

## AFTERNOON | 2:30 p.m. - 4:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33221 | Addressing the Clinical Laboratory Staffing Crisis: Alternative Recruitment and Development Pathways for Clinical Laboratory Scientists | S405 | 1.5 | 1.5 | B |

*In cooperation with the AACC Clinical Laboratory Scientists Council*

Moderator — ***David Shiembob,*** *MBA, C(ASCP)CM, ARUP Laboratories, Salt Lake City, UT*

- **Alternative CLS Recruiting Strategies: A Case Study**
  ***Eden Partlo,*** *BS, MT (ASCP), Spectrum Health Lakeland Laboratory, Saint Joseph, MI*
- **Alternative CLS Training Strategies: A Case Study**
  ***Judith Sterry,*** *MS, MT (ASCP), University of Rochester Medical Center, Penfield, NY*
- **Alternative CLS Education Strategies: A Case Study**
  ***Jillian Gonzales,*** *MA, TriCore Reference Laboratory, Albuquerque, NM*

| | | | | | |
|---|---|---|---|---|---|
| 33222 | Defining the Value of Next Generation Sequencing in Clinical Microbiology | S503 | 1.5 | 1.5 | I |

- **Finding Value in NGS Technologies for Clinical Microbiology**
  ***David Gaston,*** *MD, PhD, Johns Hopkins Hospital, Baltimore, MD*
- **Next-Generation Sequencing Approaches to Lower Respiratory Tract Infections**

Moderator — ***Patricia Simner,*** *PhD, ABMM, Johns Hopkins University, Baltimore, MD*

| | | | | | |
|---|---|---|---|---|---|
| 33223 | Machine Learning 101: Opening Opportunities for Laboratory Stewardship | S501d | 1.5 | 1.5 | B |

- **When Laboratory Stewardship is Hard to Enforce, Let the Data Speak for Itself**
  ***Allison Chambliss,*** *PhD, DABCC, FAACC, Keck School of Medicine of the University of Southern California, Long Beach, CA*
- **A Bit (0 or 1) of Information on Developing Decision Trees in the Clinical Laboratory**

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

- **Test Stewardship in the Digital Age: Leveraging Data Analytics and Artificial Intelligence**
  ***Thomas Durant,*** *MD, Yale School of Medicine, Wallingford, CT*

| | | | | | |
|---|---|---|---|---|---|
| 33225 | Point-of-Care Testing: Meeting Patient Needs in New Ways | S403 | 1.5 | 0 | B |

*In cooperation with the Critical and Point-of-Care Testing Division*

- **A New World for Point-of-Care Testing**

Moderator — ***James Nichols,*** *PhD, DABCC, FAACC, Vanderbilt University Medical Center, Nashville, TN*

- **Increasing STI Testing Through Innovation and Access: Point-of-Care Tests, Over-the Counter, and Self-Collection Mail-in Testing**
  ***Yukari Manabe,*** *MD, FIDSA, FRCP, Johns Hopkins Center for Global Health, Baltimore, MD*

# SCIENTIFIC SESSIONS

## AFTERNOON | 2:30 p.m. - 4:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33227 | Selecting Suitable Indicators to Monitor the Pre- and Post-Analytical Performance of Genomics Assays | S404a | 1.5 | 1.5 | I |

- **Development and Implementation of Quality Control Programs for NGS Based Assays**

Moderator — ***Andrea Ferreira-Gonzalez,*** *PhD, Virginia Commonwealth University, Richmond, VA*

- **Using Quality Indicators to Understand Trends and Deviations in Genomic Assays**
  ***Helen Fernandes,*** *PhD, ABB, DABCC, Columbia University Irving Medical Center, New York, NY*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33228 | So You Want to Buy a Mass Spectrometer? | S501a | 1.5 | 1.5 | B |

*In cooperation with the TDM & Toxicology Division*

- **Mass Spectrometry in the Clinical Laboratory: One Size Does Not Fit All**

Moderator — ***Melissa Budelier,*** *PhD, DABCC, TriCore Reference Laboratories, Albuquerque, NM*

- **Obtaining Stakeholder Buy-in and Selecting the Right Mass Spectrometer for Your Application: From Idea to Installation**
  ***Adina Badea,*** *MD, PhD, DABCC, Lifespan Health/Rhode Island Hospital/Brown University, Providence, RI*

- **From Development to Production: Assuring Quality for LC-MS/MS Clinical Methods**
  ***Kara Lynch,*** *PhD, DABCC, FAACC, University of California, San Francisco/Zuckerberg SFGH Clinical Laboratories, San Francisco, CA*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33229 | The New Normal: "Speed Dating" with Peers to Identify How to Approach Reference Interval Studies in the Clinical Laboratory | S504a | 1.5 | 1.5 | B |

- **Ordinary People: Requirements for Reference Range Validation and Verification for Adult Populations**
  ***Mark Marzinke,*** *PhD, DABCC, FAACC, Johns Hopkins University, Baltimore, MD*

- **The Kids Are Alright: Approaches to Pediatric Reference Range Validation and Verification**

Moderator — ***Jane Dickerson,*** *PhD, DABCC, Seattle Children's Hospital, Seattle, WA*

- **Fantastic Fluids and Where to Find Them: The Challenges of Body Fluid Reference Intervals for the Laboratory**
  ***Alec Saitman,*** *PhD, DABCC, Providence Regional Laboratories, Portland, OR*

# SCIENTIFIC SESSIONS

## AFTERNOON | 2:30 p.m. - 4:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33230 | Unusual Toxicology: Interpreting Complex Cases Involving Urine, Umbilical Cord, Meconium, and Hair Samples | S404d | 1.5 | 1.5 | I |

- **Urine Trouble: Interpreting Complex Urine Toxicology Cases**
  *Joe El-Khoury, PhD, DABCC, FAACC, Yale University, West Haven, CT*
- **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*
- **Shaving the Day with Hair Toxicology Testing**

Moderator — *Jacqueline Hubbard, PhD, DABCC, QualiTox Laboratories, McKees Rocks, PA*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33231 | Xenotransplantation of a Porcine Heart to a Human: A New Era Begins | S402 | 1.5 | 0 | I |

*In cooperation with the Animal Clinical Chemistry Division*

Moderator — *Robert Christenson, PhD, DABCC, FAACC, FACC, University of Maryland School of Medicine, Baltimore, MD*

- **Post-Surgical Support of Xenotransplant Patients in the Intensive Care Unit**
  *Alison Grazioli, MD, University of Maryland School of Medicine, Baltimore, MD*
- **Xenotransplantation: Infectious Disease and Laboratory Considerations**
  *Kapil Saharia, MD, University of Maryland School of Medicine, Baltimore, MD*


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# SCIENTIFIC SESSIONS

## AFTERNOON | 2:30 p.m. - 4:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33232 | Laboratory Testing for the Assessment of Preterm Delivery: A Summary of the AACC Academy Guidance Document | S502 | 1.5 | 1.5 | I |

*In cooperation with the AACC Academy*

- **The Impact of Preterm Delivery on Maternal and Neonatal Health**
  ***Erin Bailey,*** *MD, University of Wisconsin-Madison, Madison, WI*
- **Strengths and Limitations of Fetal Fibronectin**
  ***Christopher Farnsworth,*** *PhD, DABCC, Washington University in St. Louis, Saint Louis, MO*
- **Beyond Fetal Fibronectin: In Search of New Predictors of Preterm Birth**

Moderator ***Robert Nerenz,*** *PhD, DABCC, Dartmouth-Hitchcock Medical Center, Lebanon, NH*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 33233 | Laboratory and Clinical Medicine Consultative Case Interpretations Involving High Sensitivity Cardiac Troponin Testing | S505 | 1.5 | 1.5 | A |

- **Case Presentations and Interpretation from Laboratory Medicine**

Moderator ***Fred Apple,*** *PhD, DABCC, Hennepin Healthcare/Hennepin County Medical Center, Minneapolis, MN*

- **Case Presentations and Interpretation from Cardiology**
  ***Allan Jaffe,*** *MD, Mayo Clinic, Rochester, MN*
- **Case Presentations and Interpretations from Emergency Medicine**
  ***Stephen Smith,*** *MD, Hennepin Healthcare, Minneapolis, MN*


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# PLENARY+ SCIENTIFIC SESSIONS

## WEDNESDAY, JULY 27

**Stefani Thomas, PhD, DABCC, NRCC**
Assistant Professor, University of Minnesota

# PLENARY SESSION 14001

**WEDNESDAY, JULY 27**
**8:45 a.m. - 10:15 a.m.**

ROOM: S100
LEVEL: Intermediate
CREDITS: ACCENT®: 1.0, CME: 0

## Building Trust in a Time of Turmoil

**Thomas H. Lee, MSc, MD**
*Chief Medical Officer, Press Ganey Associates, LLC*
*Professor of Medicine, Harvard Medical School/ Brigham & Women's Hospital*
*Professor of Health Policy and Management, Harvard T.H. Chan School of Public Health, Boston, MA*

The United States and rest of the world is having a trust crisis, which is affecting healthcare delivery along with most other parts of life. In this plenary session, Dr. Thomas Lee will describe the importance of building trust among patients and among the healthcare workforce. He will describe a three-component model for building trust, and the types of interventions most likely to be effective.

# ROUNDTABLE SESSIONS

T TICKET

**7:30 a.m. - 8:30 a.m. (40000 Series) -*or*- 12:30 p.m. - 1:30 p.m. (50000 Series)**
ROOM: S406 • 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. AACC does not provide meals for these sessions. Concession stands are available to purchase food.

| AM SESSION / PM SESSION | TITLE | LEVEL |
|---|---|---|
| 44101<br>54201 | "Tick" or Treat? Laboratory Diagnosis of Lyme Disease Using the Modified Two-Tier Testing Algorithm<br>***Nkem Okoye,*** *PhD, DABCC, Northwell Health Laboratories, Lake Success, NY* | B |
| 44102<br>54202 | Analytical and Clinical Evaluation of sFlt-1 and PlGF Immunoassays for Predicting Preeclampsia<br>***Lei Fu,*** *PhD, DABCC, FAACC, Sunnybrook Health Sciences Centre, Toronto, ON (Canada)* | I |
| 44103<br>54203 | Approaches to Testing in Resource-Limited Settings: A Review of Dried Blood Spot Sampling<br>***Cate Omosule,*** *PhD, Washington University in St. Louis, Saint Louis, MO* | B |
| 44104<br>54204 | Basic Concepts and Clinical Applications of Measuring Circulating Tumor DNA<br>***Evan Alexander,*** *PhD, University of Louisville, Louisville, KY* | B |
| 44105<br>54205 | Capillary Electrophoresis for Hemoglobin Evaluation: Hemoglobin Basics, Test Interpretation, Common Variant Identification, and Case Studies<br>***Mark Girton,*** *MD, University of Virginia, Charlottesville, VA* | I |
| 44106<br>54206 | Cases in Pediatric Clinical Chemistry<br>***Lawrence de Koning,*** *PhD, DABCC, FAACC, Alberta Precision Laboratories, Calgary, AB (Canada)* | I |
| 44107<br>54207 | COVID-19 Antibody Testing in the Pandemic: Lessons Learned<br>***Raymond Suhandynata,*** *PhD, University of California, San Diego, San Diego, CA* | I |
| 44108<br>54208 | Drug Testing in Clinical and Employment Settings<br>***Rejwi Dahal,*** *PhD, DABCC, NRCC, Indiana University Health, Indianapolis, IN* | B |
| 44110<br>54210 | External Quality Assessment: Program Designs and Strategies for Developing Actions for Unexpected Results<br>***Berna Aslan,*** *MD, MSc, DABCC, FAACC, FCABC, Eastern Health Authority/ Health Sciences Centre, St John's, NL (Canada)* | I |
| 44111<br>54211 | Hemoglobin A1c Testing Considerations for Diabetes Screening and Monitoring: Choosing Right Methodology for Your Patient Population<br>***Vishnu Amaram Samara Simha Subhash,*** *PhD, University of California, Los Angeles, Los Angeles, CA* | B |
| 44112<br>54212 | High Sensitive Cardiac Troponin Assays: Implementation of Sex-Specific Upper Reference Limits is the Need of the Hour<br>***Barnali Das,*** *MD, Kokilaben Dhirubhai Ambani Hospital, Mumbai, Maharashtra (India)* | B |
| 44113<br>54213 | How to Assess Biological Variation and Facilitate the Test Interpretation in Endocrinology<br>***Damien Gruson,*** *PhD, Cliniques Universitaires Saint Luc, Kraainem (Belgium)* | I |
| 44114<br>54214 | How to Improve the Robustness of Our Current LC-MS/MS Method for Urine Opiates Confirmation<br>***Ka Keung Chan,*** *PhD, University of Washington, Seattle, WA* | B |
| 44115<br>54215 | Implementing a New Test or a New Instrument? A Crash Course on Method Validation<br>***Kornelia Galior,*** *PhD, DABCC, UW Madison, Madison, WI* | B |

# ROUNDTABLE SESSIONS

T TICKET

**7:30 a.m. - 8:30 a.m. (40000 Series) -*or*- 12:30 p.m. - 1:30 p.m. (50000 Series)**
ROOM: S406 • 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. AACC does not provide meals for these sessions. Concession stands are available to purchase food.

| AM SESSION / PM SESSION | TITLE | LEVEL |
|---|---|---|
| 44116<br>54216 | Interference by Dietary Supplements in a Post-Pandemic World<br>***Vrajesh Pandya,*** *PhD, MSc, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT* | B |
| 44117<br>54217 | Keeping up with Laboratory Projects<br>***Anu Maharjan,*** *PhD, University of Connecticut Health Center, Farmington, CT* | B |
| 44118<br>54218 | Mass Spectrometry a Game Changer for Clinical Diagnostics: Choose the Right One for Your Analytical and Clinical Needs<br>***Nazmin Bithi,*** *PhD, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT* | B |
| 44119<br>54219 | Mass Spectrometry: Current Clinical Applications and a Glimpse into the Future<br>***Ibrahim Choucair,*** *PhD, Yale New Haven Health, New Haven, CT* | B |
| 44120<br>54220 | Molecular Diagnostics Profoundly Alters Clinical and Life-Changing Outcomes in Diagnosing Inherited Metabolic Disorders<br>*In cooperation with the Molecular Pathology & Pediatric and Maternal-Fetal Divisions*<br>***Jude Abadie,*** *DABCC, DABMG, FAACC, FACMG, Texas Tech University Health Sciences Center, El Paso, TX* | I |
| 44121<br>54221 | New Perspectives on Old Analytes: LDH, eGFR, Serum Proteins, and Immunoglobulins<br>***Izmarie Poventud-Fuentes,*** *PhD, Baylor College of Medicine/Texas Children's Hospital, Houston, TX* | B |
| 44122<br>54222 | Optimizing Serum Index Thresholds on Clinical Chemistry Analyzers<br>***Adam McShane,*** *PhD, DABCC, FAACC, Cleveland Clinic, Cleveland, OH* | B |
| 44123<br>54223 | Project Management for Point-of-Care Testing<br>***Kathleen David,*** *MT (ASCP), TriCore Reference Laboratory, Albuquerque, NM* | I |
| 44124<br>54224 | The New CDC Clinical Standardization Program for Thyroid Function Tests: Improving Patient Care Through Accurate, Reliable Free Thyroxine Measurements<br>***Ashley Ribera,*** *BS, Centers for Disease Control and Prevention, Atlanta, GA* | I |
| 44125<br>54225 | To Quant or Not to Quant? Case Presentations Addressing the Challenges of Protein Electrophoresis<br>*In cooperation with the Clinical & Diagnostic Immunology Division*<br>***Katherine Turner,*** *PhD, DABCC, Spectrum Health, Grand Rapids, MI* | I |
| 44127<br>54227 | Using Force Multipliers to Maximize the Clinical Laboratory Workforce<br>***Jaime Noguez,*** *PhD, DABCC, University Hospitals Cleveland Medical Center, Cleveland, OH* | B |
| 44128<br>54228 | Utility of Advanced CBC Parameters<br>***Megan Nakashima,*** *MD, Cleveland Clinic, Cleveland Heights, OH* | B |
| 44129<br>54229 | Strategies for Reducing Laboratory Turnaround Times<br>***Patrick Kyle,*** *PhD, DABCC, DABFT, University of Mississippi Medical Center, Jackson, MS* | I |

# MEET THE EXPERT

## MORNING | 10:30 a.m. - 11:30 a.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 64001 | Building Trust in a Time of Turmoil | S101b | 1.0 | 0 | I |

Moderator

***Robert Christenson,*** *PhD, DABCC, FAACC, FACC, University of Maryland School of Medicine, Baltimore, MD*

***Thomas Lee,*** *MSc, MD, Press Ganey Associates LLC/Harvard Medical School/Brigham & Women's Hospital, Boston, MA*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| | | | | | |
|---|---|---|---|---|---|
| 34101 | AACC Healthcare Forum: How to Transform Laboratory Medicine with Data Interoperability | S501a | 1.5 | 0 | I |

*In cooperation with the AACC Policy and External Affairs Core Committee*

Moderator

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

- **SHIELD: A Pathway Moving Forward**
  ***Gregory Pappas,*** *MD, PhD, US Food & Drug Administration, Silver Spring, MD*
- **How Can Harmonization of Laboratory Data Improve the Practice of Laboratory Medicine**
  ***Daniel Herman,*** *MD, PhD, University of Pennsylvania, Philadelphia, PA*

| | | | | | |
|---|---|---|---|---|---|
| 34102 | An Overview of Traumatic Brain Injury: Clinical and Laboratory Presentation, Diagnosis, and Monitoring | S501d | 1.5 | 0 | B |

Moderator

- **Laboratory Diagnostics of Acute TBI**
  ***Pradip Datta,*** *PhD, DABCC, Siemens Healthcare Diagnostics, Newark, DE*
- **So You Got Banged in the Head? Now What's Your Doc Gonna Do?**
  ***Frank Peacock,*** *MD, FACEP, FACC, FESC, Baylor College of Medicine, Houston, TX*
- **Laboratory Diagnostics and Novel Research in TBI Markers**
  ***Alan Wu,*** *PhD, University of California, San Francisco, San Francisco, CA*

## VISIT THE POSTER HALL

**Wednesday, July 27 | 1:30 p.m. - 2:30 p.m.**

Posters are on display on the Expo show floor in the Poster Hall of the McCormick Place 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.

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 34103 | Becoming an Ally and Advocate: A Panel Discussion for Diversity, Equity, and Inclusion in Laboratory Medicine | S405 | 1.5 | 1.5 | B |

*In cooperation with the Health Equity and Access Division*

- **Diversity in Lab Medicine: Representation in Clinical Trials and Reference Intervals**
  ***M. Laura Parnas,*** *PhD, DABCC, Roche Diagnostics Corporation, Danville, CA*
- **Health Equity Creates Healthy Communities**
  ***Octavia Peck-Palmer,*** *PhD, FAACC, University of Pittsburgh Medical Center, Pittsburgh, PA*
- **Why Mentorship Matters**
  ***Lakshmi Ramanathan,*** *PhD, Memorial Sloan-Kettering Cancer Center, Ardsley, NY*
- **Mentors as Allies**
  ***Nadia Ayala-Lopez,*** *PhD, DABCC, MLS (ASCP), NRCC, Labcorp Drug Development, Avon, IN*
- **Promoting a More Inclusive Environment**

Moderator — ***Zahra Shajani-Yi,*** *PhD, DABCC, FAACC, NRCC, Labcorp, San Diego, CA*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 34104 | Challenges to Consider when Bringing in New Mass Spectrometry-Based Testing | S504a | 1.5 | 1.5 | I |

- **Point/Counterpoint Speakers**

Moderator — ***Jacqueline Hubbard,*** *PhD, DABCC, QualiTox Laboratories, McKees Rocks, PA*

***Adina Badea,*** *MD, PhD, DABCC, Lifespan Health/Rhode Island Hospital/Brown University, Providence, RI*

***Mark Cervinski,*** *PhD, DABCC, FAACC, Dartmouth-Hitchcock Medical Center, Lebanon, NH*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 34105 | Developing Laboratory Data-Based Processing Including Use of Machine Learning Models Towards Clinical Decision Support | S503 | 1.5 | 1.5 | I |

- **Embracing Data Analytics and Machine Learning Models for Data-Driven Laboratory Operations**
  ***Deniz Topcu,*** *MD, PhD, Baskent University, Ankara (Turkey)*
- **The Increasing Value of Laboratory Results Within Machine Learning-Assisted Clinical Decision Support Tools**
  ***Hikmet Can Cubukcu,*** *MD, Turkish Ministry of Health, Ankara (Turkey)*
- **An Overview on Data-Based Processing in the Clinical Laboratory**

Moderator — ***Sedef Yenice,*** *PhD, MBA, Gayrettepe Florence Nightingale Hospital, Istanbul (Turkey)*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 34106 | Genomic Prescribing: Implementation of Pharmacogenomic (PGx) Testing and Results Delivery Programs Across Major Academic Medical Systems | S502 | 1.5 | 1.5 | I |

*In cooperation with the Clinical Translational Science and Personalized Medicine Divisions*

Moderator — ***KT Jerry Yeo,*** *PhD, DABCC, FAACC, The University of Chicago, Chicago, IL*

- **The University of Florida Personalized Medicine Program**
  ***Larisa Cavallari,*** *PharmD, BCPS, FCCP, University of Florida, Gainesville, FL*
- **Clinical Impact of Pharmacogenomic Results Delivery at The University of Chicago**
  ***Peter O'Donnell,*** *MD, The University of Chicago, Chicago, IL*

| | | | | | |
|---|---|---|---|---|---|
| 34107 | Implementing New Technology for Detecting Microorganisms Associated with Pneumonia and Bloodstream Infection | S505 | 1.5 | 0 | I |

Moderator — ***Carey-Ann Burnham,*** *PhD, ABMM, Pattern Bioscience; Washington University School of Medicine, Saint Louis, MO*

- **Molecular Syndromic Panels for Pneumonia: Useful or Wasteful?**
  ***Neil Anderson,*** *MD, DABMM, Washington University in St. Louis, St. Louis, MO*
- **Validation and Implementation of a New Blood Culture System and Assessment of Optimal Blood Culture Incubation Time**
  ***Eric Ransom,*** *PhD, University Hospitals Cleveland Medical Center, Clevland, OH*
- **Last Blood: The Metagenomic End Game of Blood Stream Infection Detection—Culture Independent Methods for Detection of BSI**
  ***Robert Potter,*** *PhD, Washington University School of Medicine, Saint Louis, MO*

| | | | | | |
|---|---|---|---|---|---|
| 34108 | JALM Hot Topics: Current Practice and Future Promise of Immunology Laboratory Medicine   | S403 | 1.5 | 1.5 | I |

Moderator — ***Vathany Kulasingam,*** *PhD, FCACB, University Health Network/University of Toronto, Toronto, ON (Canada)*

- **The International Consensus on ANA Patterns (ICAP) in 2021: The 6th Workshop and Current Perspectives**
  ***Edward Chan,*** *PhD, University of Florida Health, Gainesville, FL*
- **Clinical Sensitivity, Specificity, and Predictive Value of Neural Antibody Testing for Autoimmune Encephalitis**
  ***Adrian Budhram,*** *MD, FRCPC, Western University, London, ON (Canada)*
- **Beyond Titer: Expanding the Scope of Clinical Autoantibody Testing**
  ***Susan Fink,*** *MD, PhD, University of Washington, Seattle, WA*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 34109 | Let Me Show You the Data! A Showcase of Clinical Laboratory Dashboards | S404d | 1.5 | 1.5 | B |

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

- **A Business Intelligence Dashboard to Monitor Quality and Product Utilization in Blood Bank**
  *Christina Barriteau, MD, MPH, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL*
- **Meaningful Metrics on Display: Laboratory Stewardship Dashboard Development**
  *Jane Dickerson, PhD, DABCC, Seattle Children's Hospital, Seattle, WA*
- **Pathogen Dashboards for COVID-19 and Beyond**
  *Scott Long, MD, PhD, ABMM, Houston Methodist Hospital, Houston, TX*
- **EPIC-Embedded Analytics to Achieve Chest Pain Accreditation Designation**
  *Steven Cotten, PhD, DABCC, NRCC, FAACC, University of North Carolina at Chapel Hill, Chapel Hill, NC*

| | | | | | |
|---|---|---|---|---|---|
| 34110 | Oxygenation Challenges: Red Blood, Brown Blood, and Bitter Almonds —The Pathophysiology of Carboxyhemoglobin, Methemoglobin, and Cyanide Poisoning | S404a | 1.5 | 1.5 | I |

Moderator

- **Red Blood: Carbon Monoxide Poisoning**
  *William Winter, MD, DABCC, FAACC, University of Florida, Gainesville, FL*
- **Brown Blood: Methemoglobinemia**
  *Maximo Marin, MD, University of Florida, Gainesville, FL*
- **Bitter Almonds: Cyanide Poisoning**
  *Neil Harris, MBCh, MD, FAACC, University of Florida, Gainesville, FL*

| | | | | | |
|---|---|---|---|---|---|
| 34111 | Testing Strategies for Detecting Pediatric Drug Exposure: A Case Based Discussion | S402 | 1.5 | 1.5 | I |

*In cooperation with the TDM & Toxicology Division*

Moderator

- **A Case-Based Discussion of Approaches for the Detection of Drug Exposure in Pediatrics**
  *Kara Lynch, PhD, DABCC, FAACC, University of California, San Francisco/Zuckerberg SFGH Clinical Laboratories, San Francisco, CA*
- **Moving Beyond Immunoassays: A Laboratorys Experience with Direct-to-Mass Spectrometry Drug Testing for Pediatric Patients**
  *Stephen Roper, PhD, Washington University School of Medicine, Saint Louis, MO*

# SCIENTIFIC SESSIONS

## AFTERNOON | 2:30 p.m. - 5:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 34221 | Cardiovascular Risk Assessment Update: Clinical Utility of Lipids, Lipoproteins, and Genetic Panels | S403 | 2.5 | 2.5 | I |

Moderator — *Jeff Meeusen, PhD, DABCC, Mayo Clinic, Rochester, MN*

- **Current and Upcoming Risk Calculators for Stratification of Atherosclerosis Cardiovascular Disease**
  *Alan Remaley, MD, PhD, National Institutes of Health, Bethesda, MD*
- **ApoB vs non-HDL-C vs LDL-C as Markers of Cardiovascular Disease**
  *Allan Sniderman, MD, McGill University, W. Montreal, QC (Canada)*
- **Personalized Genomics Update for Clinical Applications in Lipids and Cardiovascular Disease**
  *Masako Ueda, MD, University of Pennsylvania, Philadelphia, PA*
- **Lipoprotein (a) Clinical Utility in Lipid Testing and Risk Stratification for Cardiovascular Disease**
  *Leslie Donato, PhD, DABCC, Mayo Clinic, Rochester, MN*

| | | | | | |
|---|---|---|---|---|---|
| 34222 | Chemistry Confessions: Constructive Conflict Resolution with Case Studies | S404d | 2.5 | 2.5 | B |

Moderator — *William Clarke, PhD, MBA, DABCC, FAACC, Johns Hopkins University School of Medicine, Baltimore, MD*

- **Strategies for Effective Management of Conflict and Difficult Conversations**
- **Conflict in Organizational Behavior: Causes, Consequences, and Confessions**
  *Jane Dickerson, PhD, DABCC, Seattle Children's Hospital, Seattle, WA*

| | | | | | |
|---|---|---|---|---|---|
| 34223 | Clinical Assay Issues: What Endocrinologists Will Ask You | S503 | 2.5 | 2.5 | I |

*In cooperation with the AACC Clinical Societies Collaboration Committee and Endocrine Society*

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

- **What Should the Serum Cortisol Cutoffs Be for ACTH Stimulation Tests?**
  *Hershel Raff, PhD, FAAAS, FAPS, Medical College of Wisconsin/Aurora St. Luke's Medical Center, Milwaukee, WI*
- **Anti-Mullerian Hormone to Assess Ovarian Reserve**
  *Richard Legro, MD, Penn State University, Hershey, PA*
- **Steroid Mass Spectrometry Panels to Diagnose Adrenocortical Cancer**
  *Irina Bancos, MD, Mayo Clinic, Rochester, MN*

# SCIENTIFIC SESSIONS

## AFTERNOON | 2:30 p.m. - 5:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| **34224** | Do Pediatric Reference Intervals Reflect the Development of Healthy Children? | S501a | 2.5 | 2.5 | I |

*In cooperation with the Pediatric and Maternal-Fetal Division, Pediatric Endocrine Society, and Partnership for Accurate Testing of Hormones*

- **Current State of Pediatric Reference Intervals**
  *Alicia Lyle, PhD, Centers for Disease Control and Prevention, Atlanta, GA*
- **Developmental Biochemistry: How do Reference Intervals Capture Normal Child Development**

Moderator *Dennis Dietzen, PhD, DABCC, FAACC, Washington University School of Medicine, Saint Louis, MO*

- **Challenges and Solutions to Improving and Harmonizing Pediatric Reference Intervals**

Panelist *Hubert Vesper, PhD, Centers for Disease Control and Prevention, Atlanta, GA*

Panelist *Edward Wong, MD, Quest Diagnostics Inc., Chantilly, VA*

Panelist *Alicia Lyle, PhD, Centers for Disease Control and Prevention, Atlanta, GA*

Panelist *Dennis Dietzen, PhD, DABCC, FAACC, Washington University School of Medicine, Saint Louis, MO*

| | | | | | |
|---|---|---|---|---|---|
| **34225** | Aplicaciones Básicas de Espectrometría de Masa: Ejemplos Prácticos (presentado en Español) | S501d | 2.5 | 2.5 | B |

*In cooperation with the Mass Spectrometry and Separation Sciences Division and AACC Global Laboratory Quality Initiative*

- **Espectrometría de Masa Para El Laboratorio Clínico: Del Fundamento a las Aplicaciones Clínicas**

Moderator *Veronica Luzzi, PhD, DABCC, TriCore Research Institute, Albuquerque, NM*

- **Implementación de Espectrometría de Masas en un Hospital Pediátrico**
  *Van Leung-Pineda, PhD, DABCC, Children's Healthcare of Atlanta, Atlanta, GA*
- **Aspectos Prácticos de la Implementación de Espectrometría de Masas en el Laboratorio Clínico**
  *Jessica Colon-Franco, PhD, DABCC, Cleveland Clinic, Cleveland, OH*

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# SCIENTIFIC SESSIONS

## AFTERNOON | 2:30 p.m. - 5:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 34226 | Neonatal Drug Testing: Pick Your Candidate! | S405 | 2.5 | 0 | B |

*In cooperation with the Pediatric and Maternal-Fetal and TDM & Toxicology Divisions*

Moderator

- **Neonatal Abstinence Syndrome and the Role of Drug Testing: Take it from a Newborn Nursery Provider**
  ***Anna Morad,*** *MD, FAAP, Vanderbilt University Medical Center, Nashville, TN*
- **The Incumbent: Meconium Testing**
  ***Jennifer Colby,*** *PhD, DABCC, FAACC, MedTox Laboratories, Saint Paul, MN*
- **The Challenger: Cord Testing**
  ***Gwendolyn McMillin,*** *PhD, DABCC, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 34227 | Optimal Testing: AACC's Guide to Lab Test Utilization | S402 | 2.5 | 2.5 | I |

*In cooperation with the AACC Academy*

Moderator

- **Introduction to AACC's Guide to Lab Test Utilization**
  ***Yusheng Zhu,*** *PhD, DABCC, Penn State University Hershey Medical Center, Hershey, PA*
- **Appropriate Use of Testosterone and Estrogen Testing in Special Populations**
  ***Amy Pyle-Eilola,*** *PhD, Nationwide Children's Hospital, Columbus, OH*
- **Is IgG Food Allergen Testing Appropriate for Food Allergy Diagnosis?**
  ***Fang Wu,*** *PhD, DABCC, FAACC, Saskatoon Health District, Saskatoon, SK (Canada)*
- **Lab Test Utilization of Vitamins**
  ***Lusia Sepiashvili,*** *PhD, DABCC, FCACB, The Hospital for Sick Children, Toronto, ON (Canada)*
- **Appropriate Tests to Assess Thyroid Function**
  ***Octavia Peck-Palmer,*** *PhD, FAACC, University of Pittsburgh Medical Center, Pittsburgh, PA*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 34228 | Take it to the Databank! Establishing, Transferring, and Verifying Reference Intervals Using Modern Indirect Methods | S404a | 2.5 | 2.5 | I |

Moderator

- **Data Filtering and Wrangling: Considerations for Indirect Reference Intervals**
  ***Dustin Bunch,*** *PhD, DABCC, Nationwide Children's Hospital, Columbus, OH*
- **Overview, Application, and Evaluation of Modern Indirect Reference Interval Methods**
  ***Kelly Doyle,*** *PhD, DABCC, FAACC, ARUP Laboratories, Salt Lake City, UT*
- **refineR: Discussion and Demonstration of a State-of-the-Art Indirect Method**
  ***Christopher Rank,*** *PhD, Roche Diagnostics GmbH, Penzberg (Germany)*

# SCIENTIFIC SESSIONS

## AFTERNOON | 2:30 p.m. - 5:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 34229 | Understanding the Current Expansion of Molecular Point-of-Care Testing in the Clinical Laboratory and at the Point-of-Care | S502 | 2.5 | 0 | I |
| | *In cooperation with the Critical and Point-of-Care Testing Division* | | | | |

Moderator — *Jamie Acero, MHA, CPP, University of Pittsburgh Medical Center, Pittsburgh, PA*

- **An Overview of the Expansion of Point-of-Care Testing and Recent Advances in Molecular-Based Point-of-Care Tests**
  *Heather Stang, MS, MT, Centers for Disease Control and Prevention, Atlanta, GA*
- **Overcoming Challenges and Identifying Best Practices of Implementing Various Molecular POCT Methods in a Variety of Clinical and Employee Testing Locations**
  *Jeanne Mumford, MLS, MT (ASCP), Johns Hopkins Hospital, Baltimore, MD*
- **Evaluating Point-of-Care Molecular Testing Pre-pandemic, Pandemic, and Post-pandemic in Diverse Clinical Settings**
  *Peggy Mann, MS, MT (ASCP), CPP, University of Texas Medical Branch, Galveston, TX*

## SPECIAL SESSION

**WEDNESDAY, JULY 27 | 4:00 p.m. - 5:00 p.m. | Poster Hall**

### 2022 AACC Laboratory Feud: Academia vs Industry

Join us for the annual Laboratory Feud. Two teams made up of AACC members who are either from academia or industry will compete in a Family Feud style game format. Lab medicine topics will include history, nutrition, preanalytical errors, testing methods, immunology, point-of-care testing, TDM and toxicology, and more. **Join us in this exciting and fun special event!**

#### MODERATOR

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

#### TEAM ACADEMIA

**Team Captain**
Maria Alice Willrich, PhD, DABCC, FAACC
*Mayo Clinic, Rochester, MN*

**Team Members**
Adina Badea, MD, PhD, DABCC
*Lifespan Health/Rhode Island Hospital/ Brown University, Providence, RI*

Christopher Farnsworth, PhD, DABCC
*Washington University in St. Louis Saint Louis, MO*

Jaime Noguez, PhD, DABCC
*University Hospitals Cleveland Medical Center, Cleveland, OH*

Kimia Sobhani, PhD
*Cedars-Sinai Medical Center Los Angeles, CA*

#### TEAM INDUSTRY

**Team Captain**
M. Laura Parnas, PhD, DABCC
*Roche Diagnostics Corporation, Danville, CA*

**Team Members**
Manoj Gandi, MD, PhD
*Thermo Fisher Scientific, San Francisco, CA*

Wenzhe Li, PhD, MBA, DABCC
*Siemens Healthineers, Atlanta, GA*

Mary Mayo, PhD, BCLD, MT (ASCP), DABCC, FAACC
*Beckman Coulter Diagnostics, Mount Juliet, TN*

Ramani Wonderling, PhD
*Abbott, Chicago, IL*

# PLENARY+ SCIENTIFIC SESSIONS

## THURSDAY, JULY 28

**Van Leung-Pineda, PhD, DABCC, FAACC**
Director of Clinical Chemistry and POC,
Children's Healthcare of Atlanta,
Emory University School of Medicine

# PLENARY SESSION 15001

**THURSDAY, JULY 28**
**8:45 a.m. - 10:15 a.m.**

ROOM: S100
LEVEL: Intermediate
CREDITS: ACCENT®: 1.0, CME: 0

## Guiding Clinical Decisions with Molecular Information Provided by Direct Mass Spectrometry Technologies

**Livia Schiavinato Eberlin, PhD**
*Associate Professor of Surgery*
*Director, Translational and Innovations Research, Baylor College of Medicine, Houston TX*

Mass spectrometry techniques that allow direct and fast molecular analysis of clinical samples offer the exciting opportunity to incorporate molecular data into clinical practice to expedite clinical decision making and thus improve disease diagnosis and patient care. In this plenary session, Dr. Eberlin will discuss the development and application of direct mass spectrometry techniques used in clinical microbiology labs, clinical pathology labs, and the operating room. Key operational principles, depth of molecular data, and the analytical and diagnostic performance metrics achieved with these techniques for disease detection will be discussed to provide a critical assessment of their capabilities and potential uses within the context of routine clinical practice. The presentation will focus on results obtained in ongoing clinical studies employing two direct mass spectrometry techniques, desorption electrospray ionization mass spectrometry imaging and the MasSpec Pen technology. Challenges and opportunities in implementing these techniques into clinical workflows will also be discussed.

# MEET THE EXPERT

## MORNING | 10:30 a.m. - 11:30 a.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| 65001 | Guiding Clinical Decisions with Molecular Information Provided by Direct Mass Spectrometry Technologies | S101b | 1.0 | 0 | I |

Moderator

***Robert Christenson,*** *PhD, DABCC, FAACC, FACC, University of Maryland School of Medicine, Baltimore, MD*

***Livia Eberlin,*** *PhD, Baylor College of Medicine, Houston, TX*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| | | | | | |
|---|---|---|---|---|---|
| 35101 | AACC Academy Scientific Shorts Hot Topics: Answers to the Questions You Were Afraid to Ask | S501a | 1.5 | 0 | B |

*In cooperation with the AACC Academy*

- **BNP or NT-proBNP: Are These Tests Interchangeable?**
  ***Christopher Farnsworth,*** *PhD, DABCC, Washington University in St. Louis, Saint Louis, MO*
- **Should Labs Report a Corrected Sodium?**
  ***William Winter,*** *MD, DABCC, FAACC, University of Florida, Gainesville, FL*
- **What Is Pseudohyperkalemia and What Should Labs Do About It?**

Moderator

***Thomas Kampfrath,*** *PhD, DABCC, NRCC, FAACC, Siemens Healthineers, White Plains, NY*

| | | | | | |
|---|---|---|---|---|---|
| 35102 | Drug Screening and Confirmatory Testing in Clinical Practice: Practical Interpretive Guidance and Public Health Considerations | S404a | 1.5 | 1.5 | B |

- **Drug Screening in Clinical Practice: A Practical Guide to Tackling a Mess**
  ***Alec Saitman,*** *PhD, DABCC, Providence Regional Laboratories, Portland, OR*
- **Drug Confirmatory Assays, Interpretation, and Case Discussions**

Moderator

***Hsuan-Chieh Liao,*** *PhD, NRCC, DABCC, University of Washington, Seattle, WA*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| **35103** | Gut Check: Lab Evaluation of Celiac Disease, Inflammatory Bowel Disease, and Irritable Bowel Syndrome | S403 | 1.5 | 0 | I |

*In cooperation with the Clinical & Diagnostic Immunology Division*

Moderator — ***Lusia Sepiashvili,*** *PhD, DABCC, FCACB, The Hospital for Sick Children, Toronto, ON (Canada)*

- **Laboratory Testing and Clinical Diagnosis of Celiac Disease: What's New and What's Next?**
  ***Vijayalakshmi Viji Nandakumar,*** *PhD, DABCC, ARUP Laboratories, Salt Lake City, UT*
- **pANCA and ASCA in the Diagnostic Evaluation of IBD: Are They Still Clinically Relevant?**
  ***Stacy Kenyon,*** *PhD, DABCC, NRCC, Labcorp, Houston, TX*
- **The Benefits and Limitations of Fecal Calprotectin Results**
  ***Lisa Johnson,*** *PhD, MHS, MT (ASCP), DABCC, ARUP Laboratories, Salt Lake City, UT*

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| **35104** | Leveraging Informatics, Analytics, and Machine Learning to Improve Patient Care: Examples for Everyone | S501d | 1.5 | 1.5 | I |

*In cooperation with the Informatics Division*

- **Informatics and Information Technology Tools for Point-of-Care Testing Governance**
  ***Edward Leung,*** *PhD, DABCC, FAACC, Children's Hospital Los Angeles, Los Angeles, CA*
- **Lessons Learned in Autoverification in the Core Clinical Laboratory**
  ***Darci Block,*** *PhD, DABCC, Mayo Clinic, Rochester, MN*
- **Using Basic Machine Learning to Improve and Personalize Laboratory Testing**

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

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| **35105** | Molecular Diagnostic Approaches to Navigating Healthcare Obstacles in Intersex and Transgender Patients | S402 | 1.5 | 1.5 | I |

*In cooperation with the Health Equity and Access, Molecular Pathology, and Personalized Medicine Divisions*

- **Social Challenges and Advocacy in Transgender, Intersex, and Non-binary Patients**
  ***Julie Papango,*** *MLS(ASCPi)$^{CM}$, Albany Medical Center, Albany, NY*
- **Molecular Mechanisms Resulting Syndromic Conditions That Can Lead to Alternate Gender Assignments**

Moderator — ***Jude Abadie,*** *DABCC, DABMG, FAACC, FACMG, Texas Tech University Health Sciences Center, El Paso, TX*

- **Overcoming Molecular Diagnostic Obstacles in Transgender and Intersex Populations**
  ***Jeffrey SoRelle,*** *MD, UT Southwestern Medical Center, Dallas, TX*

# SCIENTIFIC SESSIONS

## MORNING | 10:30 a.m. - 12:00 p.m.

| SESSION | TITLE | ROOM | CREDITS; ACCENT®/CME | | LEVEL |
|---|---|---|---|---|---|
| **35106** | Perspectives on Quality Control Challenges in the Clinical Laboratory | S502 | 1.5 | 0 | ◐ |

Moderator — ***Andy Quintenz,*** *BBA, Bio-Rad, Irvine, CA*

Panelist — ***David Grenache,*** *PhD, DABCC, MT (ASCP), TriCore Reference Laboratories, Albuquerque, NM*

Panelist — ***Nikola Baumann,*** *PhD, DABCC, Mayo Clinic, Rochester, MN*

Panelist — ***T. Scott Isbell,*** *PhD, DABCC, FAACC, Saint Louis University School of Medicine, Saint Louis, MO*

Panelist — ***Lorin Bachmann,*** *PhD, MT (ASCP), DABCC, Virginia Commonwealth University Health System, Richmond, VA*

| | | | | | |
|---|---|---|---|---|---|
| **35107** | Recommendations for Use of Free Testosterone in Patient Care: A Challenge for the Laboratory | S503 | 1.5 | 0 | ◐ |

*In cooperation with the Endocrinology Division and Partnership for the Accurate Testing of Hormones*

- **Clinical Practice Guidelines for Treating Men with Testosterone Deficiency: A Physician Perspective**
  ***Abraham Morgentaler,*** *MD, FACS, Men's Health Boston, Chestnut Hill, MA*
- **Challenges in Free Testosterone Measurements: A Laboratory Perspective**
  ***Ravinder Singh,*** *PhD, DABCC, Mayo Clinic, Rochester, MN*
- **Overcoming Challenges in Free Testosterone Measurements to Meet Clinical Needs**

Moderator — ***Hui Zhou,*** *PhD, Centers for Disease Control and Prevention, Atlanta, GA*


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# POSTER ABSTRACTS TITLES

## TUESDAY, JULY 26 & WEDNESDAY, JULY 27

**Erika Deaton-Mohney, MT(ASCP), CPP**
Point of Care Coordinator and Laboratory Compliance, Bronson Healthcare

# SCIENTIFIC POSTER SESSION SCHEDULE

Posters of accepted abstracts are on display in the Poster Hall on the Expo show floor of the McCormick Place Convention Center on Tuesday, July 26, and Wednesday, July 27. 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 ACADEMY Posters that are recognized in the Poster Sessions by an AACC Academy Distinguished Abstract Ribbon are designated with the AACC Academy icon in this guide.

ePOSTER Posters with this special icon are available as an ePoster only and can be viewed on any of the ePoster kiosks found in the Poster Hall.

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Except for photography specifically authorized by AACC, use of video and photographic equipment is prohibited in Poster Hall. Photography of poster sessions is permitted only with express permission of the presenting author.

## POSTER SESSION TOPICS & SCHEDULED TIMES

**TUESDAY, JULY 26 | 9:30 a.m. - 5:00 p.m.**

| | |
|---|---|
| General Clinical Chemistry | A-001 – A-124 |
| Laboratory Management and Leadership | A-125 – A-138 |
| Laboratory Stewardship and Patient Safety | A-139 – A-147 |
| Molecular Diagnostics | A-148 – A-240 |
| Special Patient Populations | A-241 – A-272 |
| Toxicology and Therapeutic Drug Monitoring | A-273 – A-303 |

**WEDNESDAY, JULY 27 | 9:30 a.m. - 5:00 p.m.**

| | |
|---|---|
| Analytical Techniques and Applications | B-001 – B-126 |
| Data Analytics and Informatics | B-127 – B-158 |
| Hematology/Coagulation | B-159 – B-186 |
| Microbiology and Infectious Diseases | B-187 – B-268 |
| Preanalytical and Postanalytical | B-269 – B-298 |
| Precision Medicine | B-299 – B-311 |

# 2022 DISTINGUISHED ABSTRACTS AWARDS

The AACC Academy is pleased to announce the winners of the 2022 Distinguished Abstracts Awards. A group of Fellows selected these 18 abstracts for their scientific excellence from a pool of more than 640 abstracts accepted for the AACC Annual Scientific Meeting.

Winning abstracts will display the Academy blue ribbon during the AACC Annual Scientific Meeting poster sessions in Chicago, IL.

**A-010** **Jeffrey Chang MD, Birmingham, AL**
Comparison of eGFR Calculated by MDRD Equation and the 2021 CKD-EPI without Race Equation

**A-061** **Robert Maynard PhD, Chapel Hill, NC**
Concordance of Chronic Kidney Disease Stage and Metformin Management Using CKD-EPI 2021 Race-Free Equation vs. CKD-EPI 2009 Equation to Estimate Glomerular Filtration Rate

**A-077** **Kimia Sobhani PhD, Los Angeles, CA**
Longitudinal Analysis of Characteristics Associated with Variable Antibody Response to BNT162b2 Vaccination Among Healthcare Workers Over Ten Months

**A-107** **Ayaka Ikenaga, Tokyo, Japan** (ePoster only)
Chymase Truncation of Apolipoprotein E in High-density Lipoprotein is Further Promoted Under Myeloperoxidase Oxidation

**A-160** **Guanmin Chen MD, Cleveland, OH**
RNase L Contributes to the Development of Nonalcoholic Steatohepatitis (NASH) by Regulating the Expression of the Key Genes Involved in Lipid Metabolism, Immune Responses, and Fibrosis Signaling

**A-161** **Anil Chokkalla PhD, Madison, WI**
Clinical Utility of RNA Chemical Modifications as Biomarkers for Acute Ischemic Stroke

**A-210** **Kyounghoon Suh PhD, Daejeon, Korea**
Clinical Evaluation of Thioredoxin 1 in the Blood as a Novel Biomarker to Detect Breast Cancer

**A-253** **Jennifer Power Carson PhD, Saint Louis, MO**
Glycated Albumin During Pregnancy: Preliminary Reference Intervals for a Midwestern U.S. Population and Usefulness as a Predictor of Adverse Neonatal Events

**A-293** **Theresa Swift MA/MS, Ann Arbor, MI**
Changes in Phosphatidylethanol Positivity After Transfusion and Potential Impact on Interpretation of Alcohol Use

**A-295** **Grace Williams PhD, Richmond, VA**
Potential Detection of 58 Fentanyl Analogs in Urine Using Fentanyl Immunoassays

# 2022 DISTINGUISHED ABSTRACTS AWARDS

**B-023** **Rachel DeHoog, Houston, TX**
Desorption Electrospray Ionization Mass Spectrometry Imaging as a Tool for Preoperative Classification of Thyroid Nodules

**B-049** **Pankaj Kumar, Vancouver, Canada** (ePoster only)
Comparison of Diagnostic Performance of Combined CSF Biomarkers with Plasma p-tau181 Concentrations in Predicting Clinically Diagnosed Alzheimer's Disease

**B-053** **Danting Liu PhD, Memphis, TN**
Deep Single-cell Type Proteome Profiling of Mouse Brain from Alzheimer's Disease Model by Nano-scale Tandem Mass Tag Mass Spectrometry

**B-069** **Danielle Ronnow, Salt Lake City, UT**
Quantitative Analysis of Ethanolamine Plasmalogen Species in Red Blood Cells Using Liquid Chromatography Tandem Mass Spectrometry

**B-111** **Yang Luo, Chongging, China**
DNAzyme Encapsulated Nano-vesicle for Non-Destructive Detection of Exosomal miRNA

**B-130** **Akhil Bhargava MA/MS, Chicago, IL**
Assessment of a Combined Biomarker-EMR Data Machine Learning Model for Sepsis-3

**B-183** **Kelly Michaelsen MD/PhD, Seattle, WA** (ePoster only)
Micro-mechanical PT/INR Testing Using Smartphones

**B-243** **Jingcai Wang PhD, Columbus, OH**
Evaluation of a Prediction Algorithm Value in Predicting Positive Urine Culture in Pediatrics: A Retrospective Cohort Study at Nationwide Children's Hospital


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# SCIENTIFIC POSTER SESSIONS

## ALL DAY | 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.*

### GENERAL CLINICAL CHEMISTRY

**A-001 Evaluation of the Turbidimetric VITROS® wrCRP Chemistry Products Reagent* on the Ortho VITROS 5600 Integrated System**

K. Ackles, T. DiMagno, N. Kinne, N. Wheeler. *Ortho Clinical Diagnostics, Rochester, NY*

**A-002 The Distribution of NT ProBNP and Respiratory Virus PCR Reslts in Children with Respiratory Tract Infection**

S. Ahn, S. Lee, K. Lee, Y. Jeon, S. Lee, E. Lee. *Green Cross Laboratories, Yongin, Korea, Republic of*

**A-003 Novel Diagnostic Validation of High Sensitivity Troponin Prior to Implementation**

E. Alexander, N. Pozzi, S. Jortani. *University of Louisville, Department of Pathology & Laboratory Medicine, Louisville, KY*

**A-004 Improved Analytical Measuring Interval and Hemoglobin performance for New Investigational Use Assay (IUO) Triglyceride Assay on the Abbott's ARCHITECT and Alinity c Systems**

S. Ali[1], B. Cummins[2], R. Thillen-Chennault[2], S. Brophy[1]. *[1]Abbott Laboratories, Abbott Park, IL, [2]Abbott Laboratories, Irving, TX*

**A-005 Evaluation of the Ferritin Assay Using the Roche cobas e801 Analyzer**

T. R. Allison[1], S. P. Wyness[1], S. L. La'ulu[1], K. Doyle[2], J. W. Rudolf[2]. *[1]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, [2]University of Utah Health, Department of Pathology, Salt Lake City, UT*

**A-006 Reevaluating the Icterus Index Cutoff on the Roche Jaffé Gen 2 Creatinine Method**

Y. F. Alvarez, M. T. Kelliher, J. H. Hubbard, R. D. Nerenz, M. A. Cervinski. *Dartmouth Hitchcock Medical Center, Lebanon, NH*

**A-007 Clinical Utility of the Abbott FreeStyle Precision Pro POC Ketone Meter for Monitoring Pediatric Patients with Diabetic Ketoacidosis**

B. A. Andrews, E. E. Schuler, E. Webber, W. J. Smith, A. S. Krishna, A. L. Woodworth. *University of Kentucky, Lexington, KY*

**A-008 Creation of a Novel Serum B-Cell Maturation Antigen (sBCMA) Reference Standard**

J. Bailey[1], N. Kennett[1], P. Stubbs[1], M. Rizzioli[1], N. Li[1], K. Dacanay[1], J. Berenson[2], E. Souther[2], O. Berlanga[1], S. Harding[1], G. Wallis[1], P. Hazarika[1]. *[1]The Binding Site Group Ltd., Birmingham, United Kingdom, [2]ONCOtracker, West Hollywood, CA*

**A-009 Assessment of Anti-SARS-CoV-2 Antibody Status Among Laboratory Healthcare Workers in the City of Goiania, Central Brazil**

M. F. Barbosa[1], E. F. Barbosa[1], H. S. Pereira[1], G. S. Pereira[1], L. A. Carvalho[1], A. M. Lima[1], D. C. Retucci[1], R. R. Coelho[1], F. F. Moral[1], A. P. Barbosa[2]. *[1]Laboratorio Saude, Goiania-Goias, Brazil, [2]Instituto de Patologia Tropical e Saude Publica-UFG, Goiania-Goias, Brazil*

**A-010 Comparison of eGFR Calculated by MDRD Equation and the 2021 CKD-EPI without Race Equation**

AACC ACADEMY

J. Chang, J. Lima, V. Reddy, L. Cao. *University of Alabama Birmingham, Birmingham, AL*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## GENERAL CLINICAL CHEMISTRY

**A-011 Performance Evaluation of the Atellica® CH 930 Analyzer Lac_3, CHE_2, and Hapt_2 Assays**

J. Cheek, J. Thomas, D. Blagovcanin, A. Sinopoli, T. Johnson, J. O'Brien. *Siemens Healthineers, Newark, DE*

**A-012 Development of an Assay for the Measurement of Total Immunoglobulin E (IgE) on Beckman Coulter Clinical Chemistry Analyzers**

O. Clohessy. *Beckman Coulter, Ennis, Ireland*

**A-013 A Case for Updating Lipid Panel Assay Performance Recommendations**

J. Cole[1], M. L. Sampson[1], A. T. Remaley[2]. *[1]Clinical Center, Department of Laboratory Medicine, National Institutes of Health, Bethesda, MD, [2]National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, MD*

**A-014 Audit of High Sensitivity Cardiac Troponin Requesting Patterns In Routine Clinical Use**

P. O. Collinson, S. Ford, S. Krishnanandan. *St George's Hospital, London, United Kingdom*

**A-015 Feasibility of Implementing A 0-2 Troponin Algorithm**

P. O. Collinson, S. Ford, S. Krishnanandan. *St George's Hospital, London, United Kingdom*

**A-016 RACE-IT: Rapid Myocardial Infarction Exclusion Using an Accelerated High-Sensitivity Cardiac Troponin I Protocol in a Prospective Trial**

B. Cook[1], J. Miller[1], P. Levy[2], S. Mahler[3], C. Gandolfo[1], A. Tang[1], K. Nour[1], M. Hudson[1], H. Klausner[1], B. Zweig[1], D. Lanfear[1], S. Parikh[1], R. Gindi[1], H. Kim[1], G. Perrotta[1], A. Lewandowski[1], S. Krupp[1], C. Keerie[4], S. Gunaga[1], N. Mills[4], K. Malette[1], H. Nassereddine[1], A. Oudeif[1], J. McCord[1]. *[1]Henry Ford Hospital, Detroit, MI, [2]Wayne State University, Detroit, MI, [3]Wake Forest University, Winston-Salem, NC, [4]University of Edinburgh, Edinburgh, United Kingdom*

**A-017 CDC Clinical Standardization Programs for Free Thyroxine—Results of the Baseline Interlaboratory Study**

U. Danilenko[1], O. Sugahara[1], A. Ribera[2], L. Collins[3], T. Buchannan[2], C. Coffman[4], N. Vazquez[4], F. Pokuah[1], D. Wirtz[1], L. Zhang[1], A. N. Lyle[1], H. W. Vesper[1]. *[1]CDC, Atlanta, GA, [2]Battelle, Atlanta, GA, [3]Cherokee Federal, Atlanta, GA, [4]ORISE, Atlanta, GA*

**A-018 Anti-MDA5-Positive Dermatomyositis: A New cCinical Phenotype in Patients with Skin Lesions**

T. González Cejudo, J. Villa Suárez, P. Montes Ramos, M. López Vélez, T. de Haro Muñoz. *Hospital Universitario Clínico San Cecilio, Granada, Spain*

**A-019 Tiered Hemolysis Index Thresholds to Enhance Direct Bilirubin Reporting from Roche cobas Analyzers**

A. Ehlers, J. Kingery, S. Davis, A. E. Merrill. *University of Iowa Hospitals and Clinics, Iowa City, IA*

**A-020 Clinical Performance of Total-Tau and Total-Tau/phospho-Tau Ratios Across Platforms for the Diagnosis of Creutzfeldt-Jakob Disease**

E. M. Fatica[1], S. Ashrafzadeh-Kian[1], L. Wu[1], D. Shir[1], M. Campbell[1], V. Nandakumar[2], J. Graff-Radford[1], J. R. Mills[1], A. Algeciras-Schimnich[1]. *[1]Mayo Clinic, Rochester, MN, [2]ARUP, Salt Lake City, UT*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## GENERAL CLINICAL CHEMISTRY

**A-021 Assessment of Neutralization Potential of Convalescent and Vaccinated Individuals Against Mutated SARS CoV2 Strains—Using Fully Automated IVD Assays**

J. Schulte-Pelkum, D. Filchtinski, L. Steller, R. Fiedler. *TF Scientific IDD, Phadia GmbH, Freiburg, Germany*

**A-022 Utility of Commercially Available Quantitative hCG Immunoassays as Tumor Markers in Trophoblastic and Non-Trophoblastic Disease**

C. E. Franks[1], J. Li[2], M. Martinez[3], C. W. Farnsworth[1], P. M. Jones[4], D. G. Grenache[3], Q. H. Meng[2], A. M. Gronowski[1]. *[1]Washington University School of Medicine, St. Louis, MO, [2]The University of Texas MD Anderson Cancer Center, Houston, TX, [3]TriCore Reference Laboratories, Albuquerque, NM, [4]Children's Medical Center, Dallas, TX*

**A-023 Fluid Type Matters: A Descriptive Analysis of Five Body Fluid Analytes to Inform Processes in the Clinical Laboratory**

R. C. Fyffe-Freil, P. M. Vanderboom, J. D. Greenwood, N. A. Baumann, D. R. Block. *Mayo Clinic, Rochester, MN*

**A-024 Analytical and Clinical Evaluation of the Automated Elecsys IL-6 Assay on the Roche cobas e602 Analyzer**

A. Gant Kanegusuku[1], T. Carll[2], K. L. Yeo[2]. *[1]The University of Chicago, Chicago, IL, [2]University of Chicago Medical Center, Chicago, IL*

**A-025 A Peptide Enrichment and Mass Spectrometry-based Workflow for the Absolute Quantitation of SARS-CoV-2**

R. J. Gibson, S. N. Samra, Y. E. Song. *Thermo Fisher Scientific, San Jose, CA*

**A-026 Diagnostic Performance for Myocardial Infarction of the Whole Blood Siemens VTLi Point of Care High Sensitivity Cardiac Troponin I Assay**

I. L. Gunsolus[1], K. Schulz[2], Y. Sandoval[3], S. W. Smith[4], B. Lindgren[2], F. S. Apple[5]. *[1]HealthPartners, Minneapolis, MN, [2]Cardiac Biomarkers Trials Laboratory, Hennepin Healthcare Research Institute, Minneapolis, MN, [3]Department of Cardiovascular Medicine, Mayo Clinic, Rochester, MN, [4]Department of Emergency Medicine, Hennepin Healthcare/HCMC; Department of Emergency Medicine, University of Minnesota, Minneapolis, MN, [5]Department of Laboratory Medicine and Pathology, Hennepin Healthcare/HCMC; Department of Laboratory Medicine and Pathology, University of Minnesota; Cardiac Biomarkers Trials Laboratory, Hennepin Healthcare Research Institute, Minneapolis, MN*

**A-027 Pituitary Macroadenoma: is High-dose hook Effect Still a Relevant Concern for Prolactin Measurement?**

E. A. Hain, N. A. Baumann, D. R. Block. *Mayo Clinic, Rochester, MN*

**A-028 Correlation Between Hemoglobin Measured by Point of Care Instrument and Hematocrit Measured by the Central Laboratory**

M. Altura, R. Kim, C. J. Binghay, H. Mayberry, K. Gantt, I. A. Hashim. *UT Southwestern Medical Center, Dallas, TX*

**A-029 Impact of Removing Race Adjustment When Estimating GFR on Chronic Kidney Disease Staging**

C. Cai, B. Wilson, T. Veeramachaneni, F. Sahor, S. Nesbitt, I. Hashim. *UT Southwestern Medica; Center, Dallas, TX*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## GENERAL CLINICAL CHEMISTRY

**A-030 Vitamin D Levels Among Patients Prior to and During COVID-19 Pandemic**
J. Neeley[1], I. A. Hashim[2]. *[1]UT Southwestern Medical Center, Dallas, TX, [2]UT Southwestern Medical Center and Parkland Health, Dallas, TX*

**A-031 Detection of Anti-Ak5 Autoantibodies in Patients With Limbic Encephalitis in Indirect Immunofluorescence Assay and Line Blot**
I. Heckler. *EUROIMMUN US, Mountain Lakes, NJ*

**A-032 Identification of NVL as a Novel ANA Target in Systemic Sclerosis**
I. Heckler. *EUROIMMUN US, Mountain Lakes, NJ*

**A-033 Relevance of Anti-Pla2r Levels in Therapy Decision and Prediction of Therapy Outcome Using Cyclophosphamide and Steroids Treatment in Patients With Membranous Nephropathy**
I. Heckler. *EUROIMMUN US, Mountain Lakes, NJ*

**A-034 Sensitivity and Specificity of a Novel Cell-Based Indirect Immunofluorescence Assay for Detecting Anti-MAG IgM in Patients With Peripheral Neuropathy**
I. Heckler. *EUROIMMUN US, Mountain Lakes, NJ*

**A-035 Strategy for the Detection of Anti-Septin Antibodies by Indirect Immunofluorescence Assay**
I. Heckler. *EUROIMMUN US, Mountain Lakes, NJ*

**A-036 Development and Characterization of Monoclonal Standards for Calibration Verification of Reportable Ranges of SARS-CoV-2 IgG Assays**
J. Herod[1], S. Pang[2], L. Luckau[2], R. Garlick[3], J. Pawlak[1]. *[1]LGC Clinical Diagnostics Inc, Cumberland Foreside, ME, [2]LGC Standards National Measurement Laboratory, Teddington, United Kingdom, [3]LGC Clinical Diagnostics Inc, Milford, MA*

**A-037 Intuitive Modification of the Friedewald formula for calculation of LDL-cholesterol concentration**
J. Hong[1], W. Lee[2], S. Chun[2], W. Min[2]. *[1]Chuncheon Sacred Heart Hospital, Hallym University College of Medicine, Chuncheon, Korea, Republic of, [2]Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea, Republic of*

**A-038 Performance Evaluation of the Dimension EXL LOCI BRAHMS PCT Assay**
B. Israel, A. Walters, K. Kelly, C. Schaible, A. Tyler, T. Wei. *Siemens Healthineers, Newark, DE*

**A-039 Body Fluid Matrix Study for Selected Tests Performed on the Roche cobas pro c503 Module**
K. Jackson, C. Cornacchione, S. Wang. *Akron Children's Hospital, Akron, OH*

**A-040 Pre-analytical Characterization of Nasal and Nasopharyngeal Specimen CoV2 Antigen Stability in Transport Media**
C. Jacobson[1], M. Datwyler[1], R. Geissler[1], A. Hadji[1], N. Jeanblanc[1], K. Pandya[1], M. Marcinkus[1], P. Hemken[1], E. Israeli[1], P. Mohr[2], L. Sokoll[2], G. Davis[1]. *[1]Abbott, Abbott Park, IL, [2]John Hopkins Medical Institution, Baltimore, MD*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## GENERAL CLINICAL CHEMISTRY

**A-041 Development of Exploratory Algorithms using Plasma Biomarkers on ARCHITECT i2000 and c8000 Platforms, Demographic, and Radiomic Data to Aid in Risk of Malignancy Prediction of Indeterminate Pulmonary Nodules**

N. M. Jeanblanc[1], L. Jackson[1], S. Gawel[1], S. E. Brophy[1], S. Vaidya[1], S. Syed[1], J. A. Borgia[2], G. J. Davis[1]. *[1]Abbott Laboratories, Abbott Park City, IL, [2]Rush University Medical Center, Chicago, IL*

**A-042 Research Use Only (RUO) IgG1 and IgG2 Subclass Assays on the Abbott Alinity c Clinical Chemistry Analyzer**

N. M. Jeanblanc, S. Vaidya, K. Ngo, S. E. Brophy. *Abbott Laboratories, Abbott Park, IL*

**A-043 Evaluation of Reagent Lot-to-Lot Performance of Alinity i Tumor Marker Assays**

K. Johnson, K. Gignac, P. Roth. *Abbott Laboratories, Abbott Park, IL*

**A-044 Reagent Lot Consistency of Three Common Cardiac Markers on Alinity i**

K. Johnson, D. Daghfal, K. Gignac, P. Roth, A. Shulla-Mesi. *Abbott Laboratories, Abbott Park, IL*

**A-045 Method Development of Hemoglobin A1c in the Whole Blood of Non-Human Primates**

A. Kalb. *Charles River Laboratories, Ashland, OH*

**A-046 Δ-Tocotrienol in Combination with Resveratrol Improve the Cardiometabolic Risk Factors and Biomarkers in Patients with Metabolic Syndrome: A Randomized Controlled Trial**

D. A. khan[1], S. Fatima[2]. *[1]NUMS, Rawalpindi, Pakistan, [2]Nums, Rawalpindi, Pakistan*

**A-047 Biological Variation in Creatinine in the SPRINT Hypertension Trial**

A. A. Killeen[1], S. Lay-Flurrie[2], J. P. Sheppard[2]. *[1]University of Minnesota, Minneapolis, MN, [2]University of Oxford, Oxford, United Kingdom*

**A-048 Evaluation of Peak Shape Errors in HbA1c Measurement by HPLC to Improve Quality and Efficiency of Resulting**

G. M. Kroner, J. Colón-Franco. *Cleveland Clinic, Cleveland, OH*

**A-049 Impact of Inappropriate Storage of Reagents on Test Results**

V. Kumar[1], A. Mathew-Joseph[2], S. Farheen[2], A. F. Gallegos[1]. *[1]Quest Diagnostics, Lewisville, TX, [2]Baylor University Medical Center, Dallas, TX*

**A-050 Body Fluid Matrix Evaluation for the Roche cobas pro c503**

S. L. La'ulu[1], S. P. Wyness[1], A. N. Jackson[1], T. R. Allison[1], J. R. Genzen[2], J. W. Rudolf[2]. *[1]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, [2]University of Utah Health, Department of Pathology, Salt Lake City, UT*

**A-051 Is Reflex Testing Feasible for Outpatient Thyroid Testing?**

D. J. Lee, A. Mohd Rashid, L. Lum, S. P. Tan, S. K. Ong, T. C. Aw. *Sengkang General Hospital, Singapore, Singapore*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## GENERAL CLINICAL CHEMISTRY

**A-052 Clinical Impact of IgG Subclass and C1q Binding aAsay in Donor-specific HLA Antibody-positive kidney Transplant Patients**

H. Lee[1], J. Jung[2], A. Choi[2], J. Ryu[2], B. Chung[3], C. Yang[3], E. Oh[2]. *[1]Department of Laboratory Medicine, Catholic Kwandong University International St. Mary's Hospital, Incheon, Korea, Republic of, [2]Department of Laboratory Medicine, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea, Republic of, [3]Division of Nephrology, Department of Internal Medicine, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea, Republic of*

**A-053 Effect of Second Hand Smoke Exposure on Establishing Urinary Cotinine-Based Cut-Off Values for Smoking Status Classification**

H. Lee, D. Park. *Wonkwang University, Iksan, Korea, Republic of*

**A-054 Analytical Performance Evaluation of the Beckman Coulter HbA1c Advanced Assay**

J. Lee[1], S. Kim[1], S. Jun[1], Y. Nam[1], K. Lee[1], S. Song[2], J. Song[1]. *[1]Seoul National University Bundang Hospital, Seongnam, Korea, Republic of, [2]Seoul National University Hospital, Seoul, Korea, Republic of*

**A-055 Limited Utility of Free Triiodothyronine (fT3) Testing in the Majority of Patients with Physician-Ordered Testing**

Y. Lin[1], A. Riek[2], A. M. Gronowski[1], C. W. Farnsworth[1]. *[1]Department of Pathology & Immunology, Washington Unviversity in St. Louis, St Louis, MO, [2]Deparmtne of Internal Medicine Medcine, Washington University in St. Louis, St Louis, MO*

**A-056 Analytical Comparison of the Roche c702 Pancreatic Lipase Assay Against Two Third-party Lipase Assays on the Abbott Alinity**

S. M. Logan[1], R. Selvaratnam[2], A. Fabros[2], F. Leung[3]. *[1]University of Toronto, Toronto, ON, Canada, [2]University Health Network, Toronto, ON, Canada, [3]Mount Sinai, Toronto, ON, Canada*

**A-057 Comparison of the CKD-EPI 2021 Equation ($eGFR_{cr}$ 2021) with Other Creatinine-based eGFR Equations in Chronic Kidney Disease Diagnosis and Staging**

S. Lu, K. Robyak, Y. Zhu. *Penn State University College of Medicine, Hershey, PA*

**A-058 A Novel All-in-One Universal Cartridge based Truly Modular Electrolyte Analyzer**

V. MATHUR, S. Dalvi. *DIASYS DIAGNOSTICS INDIA PVT. LTD, MUMBAI, India*

**A-059 Effect of In Vitro Acetylation of Hemoglobin on HbA1c Measurement by the DCA Vantage Analyzer**

J. Mayfield[1], C. Tilghman[2], K. Das[2]. *[1]Siemens Healthcare Diagnostics, Mishawaka, IN, [2]Siemens Healthcare Diagnostics, Norwood, MA*

**A-060 Effect of Labile Glycated Hemoglobin on HbA1c Measurement by the DCA Vantage Analyzer**

J. Mayfield[1], C. Tilghman[2], K. Das[2]. *[1]Siemens Healthcare Diagnostics, Mishawaka, IN, [2]Siemens Healthcare Diagnostics, Norwood, MA*

**A-061 Concordance of Chronic Kidney Disease Stage and Metformin Management Using CKD-EPI 2021 Race-Free Equation vs. CKD-EPI 2009 Equation to Estimate Glomerular Filtration Rate**

AACC ACADEMY

R. D. Maynard, S. Cotten, N. Korpi-Steiner. *University of North Carolina, Chapel Hill, NC*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## GENERAL CLINICAL CHEMISTRY

**A-062 Association Between Estimated Average Glucose and Fasting Plasma Glucose Levels for Hyperglycemia Management During Health Checkups**
E. Nah. *Korea association of Heath Promotion, Seoul, Korea, Republic of*

**A-063 Determination of Optimum Quality Control Testing Frequency for 27 Common Clinical Chemistry Analytes on Roche cobas 702 platform**
S. Narla[1], T. Bose[1], S. Taboo[1], I. Reed[1], V. Labrador[2]. *[1]Labcorp Drug Development, Indianapolis, IN, [2]Labcorp Drug Development, Geneva, Switzerland*

**A-064 Prevalence of Hemolyzed Blood Gas Specimens in Acute Care Settings**
J. H. Nichols[1], F. S. Apple[2]. *[1]Vanderbilt University Medical Center, Nashville, TN, [2]Hennepin Healthcare/Hennepin County Medical Center, Minneapolis, MN*

**A-065 Performance Evaluation of the ADVIA Centaur NT-proBNPII (PBNPII) Assay**
C. Farnsworth[1], J. Januzzi[2], G. Privon[3], B. Plouffe[4], K. Diemer[3], J. Rigler[3], L. Schiavoni[3], S. Bermel[3], C. Brown[4], Y. Liu[4], E. Miller[3], A. Gartland[4], K. Nissen[5]. *[1]Washington University School of Medicine, St. Louis, MO, [2]Massachusetts General Hospital, Harvard Medical School, Boston, MA, [3]Siemens Healthineers, Newark, DE, [4]Siemens Healthineers, Tarrytown, NY, [5]Siemens Healthineers, Walpole, MA*

**A-066 The Value of High Sensitive Cardiac Troponin I as Predictive Marker for Cardiovascular Complications and Survivals in Korean Adults With Chronic Kidney Disease**
P. Park[1], M. Park[2]. *[1]Gachon Medical School Gil Medical Center, Incheon-shi, Korea, Republic of, [2]GC Laboratories, YongIn, Korea, Republic of*

**A-067 CAP Quality Cross Check Materials are an Effective Approach for Biannual Instrument Correlations: A Pilot Study**
M. Pater, J. Wiencek. *Vanderbilt University Medical Center, Nashville, TN*

**A-068 Performance Characteristics of the Thyroid Stimulating Hormone 3-Ultra Assay on the Atellica CI 1900 Analyzer**
M. Quintanilla, H. Zhang, H. Leipold, M. Coladangelo, N. Philippe, K. Brescia. *Siemens Healthineers, Tarrytown, NY*

**A-069 An Alberta Lipase Correction Factor: Strong Correlation Between Serum Lipase Assays Across Vendors and Analyzer Types Will Enable Assay Harmonization Across This Canadian Province**
M. Reid[1], V. Higgins[2], J. L. Gifford[1]. *[1]Alberta Precision Laboratories, Calgary, AB, Canada, [2]DynaLIFE Medical Labs, Edmonton, AB, Canada*

**A-070 The Role of Rotational Thromboelastometry (ROTEM) in Understanding the Coagulation Problems in COVID-19 Associated Critical Illness**
I. RODRIGUEZ MARTIN[1], J. Montenegro Martínez[2], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen del Rocío, SEVILLA, Spain, [2]Hospital Universitario Virgen del Rocío, Sevilla, Spain*

**A-071 A Pre-treatment Free and Highly Selective Chromogenic Research Use Only (RUO) Assay for Zinc Deficiency on the Abbott Alinity c System**
L. Ruvuna, J. Brady, N. Vondra, S. Ali, S. Brophy. *Abbott Laboratories, Abbott Park, IL*

**A-072 Clinical Impact of the Variability in eGFR values**
L. D. Brookshire[1], E. L. Ryan[2]. *[1]Mercer University School of Medicine Macon Campus, Macon, GA, [2]Atrium Health Navicent Medical Center, Macon, GA*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## GENERAL CLINICAL CHEMISTRY

**A-073 Comparison Between Electrochemioluminescence (COBAS e801/Roche) And Chemioluminescence (ADVIA Centaur XP/Siemens) Methodologies in the Dosage of Samples With Hyperprolactinemia**

C. O. Sabino[1], D. Waltrick[2], G. Zampieri[2], J. S. Filletti[2], B. S. Santos[2], L. Rodrigues[2]. *[1]DASA, Sao Paulo, Brazil, [2]Dasa, São Paulo, Brazil*

**A-074 Determination of the Functional Linearity of BHCG Assay**

C. Sabino, D. Waltrick, G. Zampieri, B. Santos, J. Filleti, J. F. de Souza, L. Rodrigues. *DASA Medical Group, Sao Paulo, Brazil*

**A-075 Performance Evaluation of Chek-Stix Liquid Quality Control Across Siemens Healthineers Urinalysis Systems**

L. S. Schulman. *Siemens Healthineers, Mishawaka, IN*

**A-076 Analytical Performance Assessment of a Newly Formulated, IFCC traceable Alkaline Phosphatase Assay for Abbott's ARCHITECT c and Alinity c Systems**

J. Sheldon[1], S. Brophy[1], R. Thillen-Chennault[2]. *[1]Abbott Laboratories, Abbott Park, IL, [2]Abbott Laboratories, Irving, TX*

**A-077 Longitudinal Analysis of Characteristics Associated with Variable Antibody Response to BNT162b2 Vaccination Among Healthcare Workers Over Ten Months**

AACC ACADEMY

K. Sobhani, J. E. Ebinger, S. Joung, M. Wu, G. Y. Melmed, J. Braun, S. Cheng. *Cedars Sinai Medical Center, Los Angeles, CA*

**A-078 Improved Hemoglobin Interference Performance on Newly Formulated Cholesterol Assay for Abbott's ARCHITECT and Alinity c Systems**

H. Soni, B. Cummins, S. Ali, R. Thillen-Chennault, S. Brophy. *Abbott Laboratories, Abbott Park, IL*

**A-079 Fast Method of Quantitative Analysis of Serum Vitamin E (α-tocopherol) Using LC-MS/MS**

M. O. Soares, F. P. Mazete, D. R. Ramadan, S. Tufik, E. K. Sugawara. *AFIP, São Paulo, Brazil*

**A-080 New Diagnostic Cutoffs for Adrenal Insufficiency after Cosyntropin Stimulation using Abbott Architect Cortisol Immunoassay**

S. Mallika Krishnan[1], L. Zha[2], J. Li[3], E. Sykes[1], Q. Sun[1]. *[1]Beaumont Health, Royal Oak, MI, [2]University of Rochester Medical Center, Rochester, NY, [3]Ohio State University, Columbus, OH*

**A-081 Improved Accuracy Across the Analytical Measuring Range for the Newly Formulated Calcium Assay on Abbott's ARCHITECT and Alinity c Systems**

S. Syed[1], A. Pekalska[1], J. Rhinehart[2], L. Chen[2], R. Thillen-Chennault[2], S. Brophy[1]. *[1]Abbott Laboratories, Abbott Park, IL, [2]Abbott Laboratories, Irving, TX*

**A-082 Stability Performance Impact of Clinical Chemistry Enzyme Assays Prepared in Stainless Steel Containers**

S. Syed, N. Vondra, S. Brophy. *Abbott Laboratories, Abbott Park, IL*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## GENERAL CLINICAL CHEMISTRY

**A-083 Analyte Dependent Performance Characteristics of Immunoassays for the Detection of U1RNP Antibody in the Evaluation of Connective Tissue Disease**

A. E. Tebo[1], L. K. Peterson[2], T. D. Jaskowski[3], S. Sales[1], D. Knappa[4], C. Craig[5], M. R. Snyder[6], D. Lebiedz-Odrobina[7]. *[1]Mayo Clinic, Rochester, MN, [2]Department of Pathology, University of Utah Health, Salt Lake City, UT, [3]ARUP Institute of Clinical and Experimental Pathology, Salt Lake City, UT, [4]ARUP Laboratories, Salt Lake city, UT, [5]ARUP Laboratories, Salt Lake City, UT, [6]Mayo Clinic, Rochester, UT, [7]Department of Internal Medicine, University of Utah Health, Salt Lake City, UT*

**A-084 Validating Extension of Serum Creatine Kinase Clinically Reportable Range through Automated Dilution Using CLSI Approach**

J. Tee, C. Gea, S. Tan, S. Wong, C. Yeo. *Singapore General Hospital, Singapore*

**A-085 Clinical Performance Evaluation of the cobas pulse System**

M. Goodman[1], S. Bercker[2], C. Canada-Vilalta[3], D. D. Canepa[4], W. Clarke[5], C. Fantz[6], C. Farnsworth[7], E. Ganser[8], N. Geerts[9], B. Goldsmith[10], G. Headden[11], D. Hoppensteadt[12], B. Klapperich[4], R. Matika[13], G. Miles[3], S. Mukhopadhyay[14], J. H. Nichols[15], R. O'Dell[16], Z. Rafique[17], A. Schuetzenmeister[18], R. Slingerland[19], J. Swanson[20], N. Tran[21], A. H. Wu[22], B. Karon[23]. *[1]Department of Surgery, University of Cincinnati, Cincinnati, OH, [2]Department of Anesthesiology and Critical Care Medicine, University Hospital, Leipzig, Germany, [3]Roche Diagnostics Operations, Indianapolis, IN, [4]Roche Diagnostics International AG, Rotkreuz, Switzerland, [5]Department of Pathology, Johns Hopkins University School of Medicine, Baltimore, MD, [6]Medical and Scientific Affairs, Roche Diagnostics Corporation, Indianapolis, IN, [7]Department of Pathology and Immunology, Washington University School of Medicine in St. Louis, St Louis, MO, [8]Roche Diabetes Care Inc., Indianapolis, IN, [9]Clinical Laboratory, Catharina Hospital Eindhoven, Eindhoven, North Brabant, Netherlands, [10]Department of Pathology, Anatomy, and Cell Biology, Thomas Jefferson University, Philadelphia, PA, [11]Emergency Medicine, Medical University of South Carolina, Charleston, SC, [12]Molecular Pharmacology and Neuroscience, Loyola University Chicago, Chicago, IL, [13]Department of Anesthesiology, University of Arizona Health Network, Tucson, AZ, [14]Department of Pediatrics, Children's Hospital of Philadelphia, Philadelphia, PA, [15]Department of Pathology Microbiology and Immunology, Vanderbilt University Medical Center, Nashville, TN, [16]Roche Diagnostics Solutions, Indianapolis, IN, [17]Emergency Medicine, Baylor College of Medicine – Ben Taub Hospital, Houston, TX, [18]Biostatistics & Data Science, Roche Diagnostics GmbH, Penzberg, Germany, [19]Isala Klinieken, Zwolle, Netherlands, [20]Department of Pediatrics, University of Virginia Children's Hospital, Charlottesville, VA, [21]Department of Pathology and Laboratory Medicine, University of California Davis Medical Center, Sacramento, CA, [22]University of California, San Francisco, CA, [23]Division of Clinical Core Laboratory Services, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN*

**A-086 Multi-Hospital Laboratory Derivation of Beckman High Sensitivity Troponin I Reference Change Value**

A. Tsui, Y. Qiu, G. Cembrowski. *University of Alberta, Edmonton, AB, Canada*

# SCIENTIFIC POSTER SESSIONS

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## GENERAL CLINICAL CHEMISTRY

**A-087 Multicenter Evaluation of SARS-CoV-2 Serology Assays Shows Differential Response Between Inpatients, Outpatients, and Long Term Care Residents**

S. Kittanakom[1], E. Petryayeva[2], U. Uddayasankar[3], D. Konforte[3], D. Bailey[4], I. Bouhtiauy[5], T. Chetty[2], Y. Gong[6], W. I. Khan[2], A. Lou[7], J. Macri[2], D. Richardson[2], J. Shaw[8], K. Sohn[9], J. Taher[10], P. Yip[11], N. M. White-Al Habeeb[4]. *[1]William Osler Health System, Brampton, ON, Canada, [2]Hamilton Regional Laboratory Medicine Program, Hamilton, ON, Canada, [3]LifeLabs, Toronto, ON, Canada, [4]Dynacare, Brampton, ON, Canada, [5]Reseau de Sante Vitalite, Edmunston, NB, Canada, [6]Kingston General Hospital, Kingston, ON, Canada, [7]Capital Health, Halifax, NS, Canada, [8]Eastern Ontario Regional Laboratory Association, Ottawa, ON, Canada, [9]Trillium Health Partners, Mississauga, ON, Canada, [10]Sinai Health, Toronto, ON, Canada, [11]Sunnybrook Health Sciences Center, Toronto, ON, Canada*

**A-088 Evaluation of a Urine and CSF Pyrogallol Red Total Protein Assay for Use on the Binding Site Optilite Analyser**

R. J. van Heezik, D. G. McEntee, J. Robbins, P. J. Showell, M. McCusker, S. J. Harding. *The Binding Site Ltd, Birmingham, United Kingdom*

**A-089 CAP Linearity Surveys for NT-proBNP: Nonlinear Results for the Roche STAT Assay**

A. Vitale[1], B. C. Cook[1], N. Arnini[1], D. F. Stickle[2]. *[1]Henry Ford Hospital, Detroit, MI, [2]Jefferson University Hospital, Philadelphia, PA*

**A-090 Development and Assessment of a New Assay for B-hydroxybutyrate on the HORIBA Yumizen C1200 Chemistry Analyzer**

B. Walters. *Horiba Instruments Inc., Canton, MI*

**A-091 Surprising Findings Using Continuous Temperature Monitoring**

G. R. Williams, L. M. Bachmann. *Virginia Commonwealth University Health Systems, Richmond, VA*

**A-092 Implementation and Assessment of a SmartZone Alert to Notify Clinicians of Critical Hyperbilirubinemia in Preterm Infants Less Than 35 Weeks Gestation**

Y. Xiao, M. Palmucci, L. Carlin, C. Lee, M. O'Gorman, S. Nair, L. Yieh, E. Leung. *Children's Hospital Los Angeles, Los Angeles, CA*

**A-093 Implementation of High-sensitivity Troponin Improve ED Discharge Time at Multiple Facilities in a Hospital System in Central Pennsylvania**

H. E. Yu, L. Laam. *Geisinger Health System, Danville, PA*

**A-094 Elevated Serum Uric Acid Level as a Cost-Reliable Biomarker of Tumor Progression In Patients With Non-Small Cell Lung Cancer**

POSTER

O. Zakharenkova[1], A. Vasiliev[1], K. Penkov[2], P. Zverev[2]. *[1]PHI Clinical Hospital "RZD-Medicine", Saint Petersburg, Russian Federation, [2]PMI "Euromedservice", Saint Petersburg, Russian Federation*

**A-095 The Role of RNase L in Metabolic Syndrome**

A. A. Zame[1], D. Liu[2], A. Zhou[1]. *[1]Cleveland State University, Cleveland, OH, [2]St Jude Children's Hospital, Memphis, TN*

**A-096 Anti-Covid Antibody Generation After Vaccination and Natural Infection Over Time**

M. Christian, J. Allen, A. Zuretti, M. H. Bluth. *Maimonides Medical Center, Brooklyn, NY*

# SCIENTIFIC POSTER SESSIONS

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## GENERAL CLINICAL CHEMISTRY

**A-097 SCC Increase in an Individual With Breast Cancer**
S. S. Asís, B. García García, L. Valiña Amado. *Hospital Universitario Son Espases, Palma de Mallorca, Spain*

**A-098 Correlation of Serum Tissue Transglutaminase Antibody Levels With Histological Changes In Celiac Disease Diagnosis**
R. M. Ayash. *Iust university and damascus university, Syria, Syrian Arab Republic*

**A-099 Procalcitonin and Total White Blood Cell Count as a Prognostic Markers of Hospital Outcomes in Hyperglycemic Emergencies**
A. A. Azeez, s. uwadia. *university college hospital, ibadan, Nigeria*

**A-100 Indirect Reference Intervals of Serum Calcium in Pakistani Children & Adolescents — A Comparison Between the KOSMIC, Bhattacharya and Hoffman Methods**
POSTER
S. Ahmed[1], A. Siddiqui[1], I. Siddiqui[1], A. Agrawat[2]. *[1]AKU, Karachi, Pakistan, [2]BJ Medical College, Ahmedabad, India*

**A-101 Is the Prolactin Value Above Which the Hook Effect May be Induced in the Roche Elecys Prolactin Assay consistent with the Package Insert?**
POSTER
M. F. Pinheiro, T. S. Souza, D. M. Gomes, C. O. Sabino, R. Fontes, Y. Schrank, A. Perozo, P. B. Araujo. *DASA, Rio de Janeiro, Brazil*

**A-102 Pubertal Development and Growth in Children with Primary Dyslipidemia**
POSTER
M. G. CASTELO[1], M. P. DE VASCONCELOS[2], A. R. MONTENEGRO[3], A. B. de Carvalho[2], L. F. Aragão[2], M. S. SOUSA[2], M. T. SALES[2], R. M. MONTENEGRO JUNIOR[2], F. M. COELHO[2], E. B. VAL[2], G. A. CAMPANA[4]. *[1]DASA, FORTALEZA, Brazil, [2]UFC, FORTALEZA, Brazil, [3]UFC, FORTALEZA, Afghanistan, [4]DASA, SAO PAULO, Brazil*

**A-103 Reference Intervals for Some Vitamins in Mongolian Adults**
POSTER
T. Enkhjargal, D. Khishigbuyan, P. Gantuya, O. Anujin, B. Sodnomtseren, D. Ganbileg, N. Altanchimeg. *National Centre for Public Health, Ulaanbaatar, Mongolia*

**A-104 Impact of COVID-19 Pandemic on Serum Vitamin D Level**
POSTER
A. B. Fernandes[1], J. J. Campos[1], L. H. Silva[1], A. A. Veloso[2], K. B. Gomes[2]. *[1]Laboratório Lustosa, Belo Horizonte, Brazil, [2]Federal University of Minas Gerais, Belo Horizonte, Brazil*

**A-105 Sensitivity Gain and Immune Window Reduction with Automated Assay Improvement for SARSCoV2**
POSTER
C. E. Ferreira, E. A. Rosseto-Welter, V. S. de Lemos, S. S. Rodrigues, P. M. Matsuo, A. P. Aguirra da Silva, D. d. Campos, C. A. Giafferi, C. L. Mangueira. *Hospital Israelita Albert Einstein, São Paulo, Brazil*

**A-106 Configuration and Validation of 7 Open Channel Assays on the Roche cobas c503 Analyzer**
POSTER
J. J. Hunsaker[1], S. L. La'ulu[1], T. M. Snow[1], K. L. Johnson-Davis[2], J. W. Rudolf[2]. *[1]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, [2]University of Utah Health, Department of Pathology, Salt Lake City, UT*

**A-107 Chymase Truncation of Apolipoprotein E in High-density Lipoprotein is Further Promoted Under Myeloperoxidase Oxidation**
AACC ACADEMY
POSTER
A. Ikenaga, T. Kameda, R. Ohkawa. *Tokyo Medical and Dental University, Tokyo, Japan*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## GENERAL CLINICAL CHEMISTRY

**A-108 Body Fluid Source Method Validation on the Roche cobas pro ISE Analytical Unit**

POSTER

A. N. Jackson[1], S. P. Wyness[1], S. L. La'ulu[1], T. R. Allison[1], J. R. Genzen[2], J. W. Rudolf[2]. *[1]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, [2]University of Utah Health, Department of Pathology, Salt Lake City, UT*

**A-109 Accuracy of the New Creatinine Based Equation to Estimate Glomerular Filtration Rate Without Race in Korea**

POSTER

T. Jeong[1], J. Hong[2], W. Min[3]. *[1]Ewha Womans University College of Medicine, Seoul, Korea, Republic of, [2]Hallym University Chuncheon Sacred Heart Hospital, Chuncheon, Korea, Republic of, [3]University of Ulsan College of Medicine and Asan Medical Center, Seoul, Korea, Republic of*

**A-110 Effects of Serum Amyloid A on the Structure and Antioxidant Ability of Low Density Lipoprotein**

POSTER

T. Kameda, M. Ogino, R. Kawaguchi, M. Shibuya, T. Yamada, A. Ikenaga, C. Sun, R. Ohkawa. *Tokyo Medical and Dental University (TMDU), Bunkyo-ku, Tokyo, Japan*

**A-111 The Effect of Sampling Procedure and Substrate Type for Activity Assay on PON1 assessment**

POSTER

R. Kawaguchi[1], T. Kameda[1], A. Yoshimoto[2], R. Ohkawa[1]. *[1]Tokyo Medical and Dental University, Bunkyo-ku, Tokyo, Japan, [2]The University of Tokyo Hospital, Bunkyo-ku, Tokyo, Japan*

**A-112 Evaluation of an Improved Sysmex Troponin T Assay Including Effects of Renal Dysfunction**

POSTER

C. S. Lau[1], S. K. Phua[1], C. H. Low[2], S. J. Tan[2], T. C. Aw[1]. *[1]Changi General Hospital, Singapore, Singapore, [2]Sysmex Asia Pacific, Singapore, Singapore*

**A-113 Utility of Alert Tools in the Laboratory for the Diagnosis Of Severe Hypercholesterolemia**

POSTER

C. Macías Blanco, S. Castañeda Nieto, F. Fuentes-Jiménez, F. Rodríguez Cantalejo. *Hospital Universitario Reina Sofía, Córdoba, Spain*

**A-114 Longitudinal Study of IgG Antibody Response After Sars-CoV-2 Pfizer-BioNTech vaccination**

POSTER

W. Niklinski[1], B. J. Niklinska-Schirtz[2], A. Angel[1], C. Lontoc[1], S. Siddique[1]. *[1]John H. Stroger Jr. Hospital of Cook County, Department of Pathology, Chicago, IL, [2]Emory University School of Medicine, Children's Healthcare of Atlanta, Department of Pediatric Gastroenterology, Hepatology and Nutrition, Atlanta, GA*

**A-115 Prevalence of Macroprolactinemias in our Healthcare Area**

POSTER

R. Rubio-Sánchez[1], M. Esteban de Celis[1], M. Zarate[1], M. Giménez Blanco[1], M. Viloria Peñas[1], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen de Valme, Sevilla, Spain, [2]Hospital Universitario Virgen del Rocío, Sevilla, Spain*

**A-116 Retrospective Search for Undiagnosed Hypophosphatasias**

POSTER

M. Zarate[1], R. Rubio-Sánchez[1], M. Giménez Blanco[1], J. Bobillo Lobato[1], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen de Valme, Sevilla, Spain, [2]Hospital Universitario Virgen del Rocío, Sevilla, Spain*

# SCIENTIFIC POSTER SESSIONS

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## GENERAL CLINICAL CHEMISTRY

**A-117 Utility of Lactate in Cerebrospinal Fluid as a Biomarker of Bacterial Meningitis**
R. Rubio-Sánchez[1], E. Lepe-Balsalobre[2], M. Zarate[1], M. Esteban de Celis[1], M. Viloria Peñas[1], J. Guerrero Montávez[3]. *[1]Hospital Universitario Virgen de Valme, Sevilla, Spain, [2]Hospital de Riotinto, Huelva, Spain, [3]Hospital Universitario Virgen del Rocío, Sevilla, Spain*
POSTER

**A-118 Comparison Between AM and PM Testosterone Levels During Validation of Testosterone Reference Intervals**
J. Sun[1], I. Hashim[2]. *[1]University of Texas Southwestern Medical Center, dallas, TX, [2]University of Texas Southwestern Medical Center, Dallas, TX*
POSTER

**A-119 Circulating Platelet-Activating Factor Acetylhydrolase Activity Increases in Rats With Non-Alcoholic Steatohepatitis With Fibrosis Induced By High-Fat/High-Cholesterol Diet**
S. Usui[1], R. Shinohata[2], Y. Arao[2]. *[1]School of Health Science, Tottori University, Tottori, Japan, [2]Okayama University Graduate School of Health Sciences, Okayama, Japan*
POSTER

**A-120 Analytical Sensitivity Assessment of IgA, IgM and IgG tests of the cobas c702/Roche Equipment**
D. Waltrick[1], G. Zampieri[2], A. O. Maia[2], P. N. Silva[2], C. O. Sabino[2], J. Souza[2], L. Rodrigues[2]. *[1]DASA, Sao Paulo, Brazil, [2]Dasa, São Paulo, Brazil*
POSTER

**A-121 Investigation of Assays for Cholesterol Content of Erythrocytes Membrane**
A. Yamazaki[1], Y. Fujii[2], T. Kameda[1], N. Ichimura[2], S. Tohda[2], R. Ohkawa[1]. *[1]Analytical Laboratory Chemistry, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan, [2]Clinical Laboratory, Tokyo Medical and Dental University Hospital, Tokyo, Japan*
POSTER

**A-122 Monthly Averages of Lipid Profile Results over a Three-Year Period in a Community Hospital**
J. Yang, D. Tacker. *West Virginia University, MORGANTOWN, WV*
POSTER

**A-123 Verification of PEG Methodology for Macroprolactin Detection in cobas E801-Roche**
G. Zampieri[1], D. Waltrick[2], C. O. Sabino[2], A. O. Maia[2], P. N. Silva[2], L. Rodrigues[2]. *[1]DASA, Sao Paulo, Brazil, [2]Dasa, São Paulo, Brazil*
POSTER

**A-124 Performance Characteristics of Two Immunoassays for Interleukin-6 (IL-6) and Comparison in a Pediatric Population**
S. Zilka, J. Harrington, D. Payto, J. Colon-Franco. *Cleveland Clinic, Cleveland, OH*
POSTER

# SCIENTIFIC POSTER SESSIONS

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## LABORATORY MANAGEMENT AND LEADERSHIP

**A-125 Improving Specimen Handling in Central Processing Laboratory Using Lean Concepts**
T. Gardner, O. Bassett, A. C. Corley, K. Chaudhry, E. D. Wobga, B. Patel, H. Lee. *NorthShore University HealthSystem, Evanston, IL*

**A-126 Examining Healthcare Cost of Lab as a Risk Management Metric**
Z. C. Brooks. *AWEsome Numbers Inc., Worthington, ON, Canada*

**A-127 Interactive Tools for Training and Continuing Medical Education: The Future of Medical Education Applied Here to the New Concept of Interactive Scientific Poster**
G. GRZYCH[1], S. Schraen[1], C. Mondou[2]. *[1]CHU Lille, Lille, France, [2]Université de Lille, Lille, France*

**A-128 Stick to the Norm: Managing a Large-Scale Reference Interval Verification Study**
S. L. La'ulu[1], S. P. Wyness[1], J. J. Hunsaker[1], T. R. Allison[1], J. A. Straseski[2], K. Doyle[2], J. R. Genzen[2], J. W. Rudolf[2]. *[1]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, [2]University of Utah Health, Department of Pathology, Salt Lake City, UT*

**A-129 Process Improvements in a Molecular Laboratory: A Medical Laboratory's Public Health Response**
C. J. Ledesma. *Marquis Labs, Oklahoma City, OK*

**A-130 Proficiency Test Management and Continuous Improvement in a Multisite Laboratory**
A. C. Bandeira, J. M. Banzato, V. F. Coutinho, C. d. Silva, R. F. Marques, S. F. Santiago, M. C. de Martino, D. R. Ramadan, S. Tufik. *Associação Fundo de Incentivo à Pesquisa, São Paulo, Brazil*

**A-132 Sigma Metric Equation Proposed by James O. Westgard is Wrong**
H. Bayat[1], S. Westgard[2]. *[1]Sina Lab, Qaemshahr, Iran, Islamic Republic of, [2]Westgard QC. Inc, Madison, WI*

**A-133 Point-of-Care Testing Boot Camp for Year III Medical Students—from Bench to Bed side**
POSTER
S. Ahmed, L. Jafri, H. Majid, S. Shakeel. *Aga Khan Universtiy, Karachi, Pakistan*

**A-134 Optimization of Urine Sample Process Flow Through the Application of Kaizen And Lean Production Tools**
POSTER
I. B. ESCALANTE, C. C. SILVA, L. A. SILVA, D. D. DORO, M. A. ALFENAS, P. G. COSTA, R. H. JACOMO, L. F. ABDALLA, J. R. OLIVEIRA. *Laboratorio Sabin, Brasilia, Brazil*

**A-135 Productivity Gain and Waste Reduction in the Hemostasis Sector Through the Use of Continuous Improvement and Lean Manufacturing Tools**
POSTER
I. B. Escalante[1], P. P. Sartori[1], F. M. Furtado[1], T. Broring[2], I. M. Domingues[1], M. A. Sartori[1], P. G. Costa[1], R. H. Jacomo[1], L. F. Abdalla[1], J. R. Oliveira[1]. *[1]Laboratorio Sabin, Brasilia, Brazil, [2]Werfen Medical Ltda, Barueri, Brazil*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## LABORATORY MANAGEMENT AND LEADERSHIP

**A-136 Use of Postponement Production Seeking Operational Efficiency in the Immunology Sector**
I. B. Escalante, M. B. Melo, M. A. Alfenas, P. G. Costa, R. H. Jacomo, L. F. Abdalla, J. R. Oliveira. *Laboratorio Sabin, Brasilia, Brazil*
POSTER

**A-137 Specimens Dispatch in a Large Laboratory Area: Adapting Autonomous Mobile Robot Technology**
W. Ng, J. Ong, S. Loo, J. Su, C. Yeo. *Singapore General Hospital, Singapore, Singapore*
POSTER

**A-138 An Automated System for Clinical Laboratory Quality Control Review and Management of Assay Performance**
R. Sharma, L. T. Xu, D. Salazar, D. Piche, G. Putignani, J. Ouk, K. Russell, R. Chen, R. Veeraraghavan, F. L. Lacbawan, J. H. Godsey, P. T. Tanpaiboon. *Quest Diagnostics Nichols Institute, San Juan Capistrano, CA*
POSTER

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## LABORATORY STEWARDSHIP AND PATIENT SAFETY

**A-139 Impact of Multidisciplinary End-To-End Total Laboratory Automation Solution on Diagnostics Delivery at an Apex Tertiary Care Hospital Setup in India**

S. K. Datta[1], S. Acharya[2], .. Hemang[2], P. Jinger[3], T. Sehgal[2]. *[1]All India Institute of Medical Sciences, New Delhi, India, [2]AIIMS, New Delhi, India, [3]NIMS University, Jaipur, India*

**A-140 Classification of Kidney Stone Composition Using an Artificial Intelligence Model: Twelve Month Prospective Study Demonstrates Improvements in Quality and Patient Safety**

P. L. Day[1], S. A. Erdahl[1], D. Rokke[1], M. Wieczorek[2], P. Johnson[2], J. Bornhorst[1], R. Carter[2], P. J. Jannetto[1]. *[1]Mayo Clinic, Rochester, MN, [2]Mayo Clinic, Jacksonville, FL*

**A-141 Hide and Seek With Triglycerides: A Vitaminized Unusual Suspect**

G. GRZYCH, M. DESCHILDT, J. PEKAR, I. KIM, P. MABOUDOU. *CHU Lille, Lille, France*

**A-142 Implementation of POCT COVID-19 Testing Using a LumiraDx SARS-CoV-2 Testing Platform in Patient and Employee Testing Environments**

M. M. Karikari[1], J. L. Mumford[1], W. A. Clarke[2]. *[1]Johns Hopkins Hospital, Baltimore, MD, [2]Johns Hopkins University School of Medicine, Baltimore, MD*

**A-143 Shining Renewed Light on a Tried-and-True Test: The Critical Role of Osmolality Testing in Improving Health and Economic Outcomes in Patients with Hyponatremia**

J. MacKenzie. *Advanced Instruments LLC, Norwood, MA*

**A-144 Evaluation of Thyroid Stimulating Hormone Receptor Antibody Test Utilization Patterns From a National Reference Laboratory**

H. A. Nelson, K. Doyle, J. A. Straseski. *University of Utah / ARUP Laboratories, Salt Lake City, UT*

**A-145 Automatic Signature Algorithm for Laboratory Exams in Hospital Units: Implementation and Evaluation of Effectiveness**

A. G. Romero, R. B. Ayoub, R. F. Marques, G. M. R de Souza, D. R. Ramadan, S. Tufik. *Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil*

**A-146 Study of Immunohistochemical Markers for Breast Cancer in Search of an Indicator for Immunotherapeutic Treatment**

I. C. Silva, T. P. Fonseca, H. D. Silva, G. C. Carvalho, R. A. Nunes, D. R. Ramadan, G. M. R de Souza, S. Tufik, M. C. Feres. *Associação Fundo de Incentivo a Pesquisa, Sao Paulo, Brazil*

**A-147 Designing Multi-Instrument QC Procedures to Reduce the Risk of Patient Harm From Erroneous Results**

J. Yundt-Pacheco[1], N. VandePoele[1], C. Hansen[2], B. Ruth[2], D. Grenache[2]. *[1]Bio-Rad Laboratories, Hercules, CA, [2]TriCore Reference Laboratories, Albuquerque, NM*

# SCIENTIFIC POSTER SESSIONS

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## MOLECULAR DIAGNOSTICS

**A-148 Visby Medical Sexual Health Click Test: A Patient-centric Portable Palm-sized PCR Platform — The Next Generation in Molecular Diagnostics**

T. Abraham, A. Poh, R. Nambudiri, P. Dentinger, A. Lam, S. Roy, B. Ciopyk, B. Andreyev, D. McSheery, V. Briones, A. Postlewaite, S. Lanning, D. Swenson, P. Cao, J. Albrecht, J. Hong, E. Biba, V. Pham, G. Loney, M. Meyer, G. Schoolnik, A. D. Zerda. *Visby Medical, San Jose, CA*

**A-149 Clinical Evaluation of Aptiva CTD Essential for the Detection of Antibodies Associated With Systemic Lupus Erythematosus in a Spanish Cohort**

M. Amio. *Headquarters & Technology Center Autoimmunity, Werfen, San Diego, CA*

**A-150 Performance Evaluation of the QuantStudio 5 Dx Real-Time PCR System and the QuantStudio 7 Pro Dx Real-Time PCR System**

D. Andrada, L. Miller, O. Baran, N. Wong. *Thermo Fisher Scientific, South San Francisco, CA*

**A-151 Role Of Interleukin-6 In Tuberculosis Patients of India**

S. Gupta[1], M. Banerjee[1], K. Gauba[1], P. Mitra[2], D. Yadav[1], P. Sharma[1]. *[1]All India Institute of Medical Sciences, Jodhpur, India, [2]PGIMER, Chandigarh, India*

**A-152 Evaluation of Analytical Sensitivity of Metagenomic Sequencing Test for the Bloodstream**

X. Wang[1], X. Wang[1], H. Wu[1], A. Ghavanini[2], C. Bao[2], W. Chen[1], D. Li[1]. *[1]BGI PathoGenesis Pharmaceutical Technology, Shenzhen, China, [2]BGI Americas Corporation, Cambridge, MA*

**A-153 Identification of SARS-CoV-2 Variants by RT-qPCR Genotyping as a More Affordable Option for Laboratories**

F. F. Moral[1], M. F. Barbosa[1], G. S. Pereira[1], E. F. Barbosa[1], H. S. Pereira[1], O. S. Dias Neto[1], T. P. Moral[1], A. P. Barbosa[2]. *[1]Laboratorio Saude, Goiania-Goias, Brazil, [2]Instituto de Patologia Tropical e Saude Publica-UFG, Goiania-Goias, Brazil*

**A-154 SARS-CoV-2 ECLIA Antigen Test Performance Compared to RT-PCR Positive Samples from Central Brazil**

G. S. Pereira[1], H. S. Pereira[1], M. F. Barbosa[1], E. F. Barbosa[1], D. C. Retucci[1], L. A. Carvalho[2], A. M. Lima[1], F. F. Moral[1], R. R. Coelho[1], A. P. Barbosa[3]. *[1]Laboratorio Saude, Goiania-Goias, Brazil, [2]Laboartorio Saude, Goiania-Goias, Brazil, [3]Instituto de Patologia Tropical e Saude Publica-UFG, Goiania-Goias, Brazil*

**A-155 Incorporating Spinal Muscular Atrophy Screening By Next-Generation Sequencing into a Comprehensive Multigene Panel for Newborn Sequencing: A Pilot Evaluation**

G. B. Barra, A. C. Santos, T. H. Santa Rita, N. S. Pessoa, R. O. Benício, P. G. Mesquita, I. C. Sgardioli, A. F. Andrade, R. H. Jácomo, L. F. Nery. *Sabin Medicina Diagnóstica, Brasília, Brazil*

**A-156 Simultaneous Tumor Theranostics with Tetrahedral DNA-assisted Catalytic Hairpin Assembly**

A. Batool, Y. Deng, Z. Wang, L. Li, Y. Luo. *Chongqing University, Chongqing, China*

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## MOLECULAR DIAGNOSTICS

**A-157 Exome Plus Cgh Array to Solve a Complex Clinical Case: A Case Report**

A. Costa Martins[1], J. L. de Veas da Silva[1], M. A. Alvarez Dominguez[1], M. Bueno Delgado[2], R. Sanchez Rubio[2], A. Rubio[3], P. Molinero Hueso[3], J. M. Guerrero[4], H. C. Macher[5]. *[1]Virgin del Rocío University Hospital, Seville, Spain, [2]Virgin del Valme University Hospital, Seville, Spain, [3]Seville University. Institute of Biomedicine of Seville (IBIS), Seville, Spain, [4]Virgin del Rocío University Hospital. Seville University. Institute of Biomedicine of Seville (IBIS), Seville, Spain, [5]Virgin del Rocío University Hospital. Institute of Biomedicine of Seville (IBIS), Seville, Spain*

**A-158 Gut Microbiota Assessment in Healthy Adults from North America and Canada**

C. Kraft[1], R. Reimer[2], D. A. Gulick[1], K. Gravdal[3], K. H. Kirste[3], C. W. Casén[3]. *[1]Emory University Hospital, Atlanta, GA, [2]University of Calgary, Calgary, AB, Canada, [3]Genetic Analysis AS, Oslo, Norway*

**A-159 Comparison of Laboratory Developed Tests (LDT) on Molecular Multiplex Platforms used for Urinary Tract Infection Detection in Proficiency Testing Samples**

D. Casey, E. Mills, D. Edson. *American Proficiency Institute, Traverse City, MI*

**A-160 RNase L Contributes to the Development of Nonalcoholic Steatohepatitis (NASH) by Regulating the Expression of the Key Genes Involved in Lipid Metabolism, Immune Responses, and Fibrosis Signaling**

AACC ACADEMY

G. Chen, X. Zhao, U. M. Alghamdi, A. Zhou. *Cleveland State University, Cleveland, OH*

**A-161 Clinical Utility of RNA Chemical Modifications as Biomarkers for Acute Ischemic Stroke**

AACC ACADEMY

A. K. Chokkalla[1], S. L. Mehta[1], K. Pajdzik[2], Q. Dai[2], C. He[2], R. Vemuganti[1]. *[1]University of Wisconsin-Madison, Madison, WI, [2]University of Chicago, Chicago, IL*

**A-162 Segregation in Two Families of the *PCDH19 Gene* Geletion Associated With Infantile Epileptic Encephalopathy of X-Linked Inheritance and Expression in Female Carriers**

M. Bellido Diaz[1], T. de Haro[2], T. Gonzalez[2], T. de Haro[2]. *[1]Hospital Universitario Virgen De Las Nieves, Granada, Spain, [2]hospital Universitario Clinico San Cecilio, Granada, Spain*

**A-163 Estimation of the Prevalence of Hypophosphatasia in the Spanish Population**

J. Villa Suárez[1], T. González Cejudo[2], T. de Haro Romero[2], B. García Fontana[3], M. Muñoz Torres[2], T. de Haro Muñoz[2]. *[1]Hospital Universitario Clínico San Cecilio, Granada, Spain, [2]Hospital Universitario Clínico San Cecilio, GRANADA, Spain, [3]Instituto de Investigación Biosanitaria de Granada, GRANADA, Spain*

**A-164 Prevalence of Molecular and Serological Tests of the New Coronavirus SARS-CoV-2 in the Clinical Laboratory Analysis in Cuiaba, MT, Brazil**

C. C. de Paula[1], W. Shimoya-Bittencourt[2], J. C. Passos[2], C. A. Paula[3], B. O. Barreto[4], V. A. Lopes[5], C. Araujo[4], L. F. Abdalla[4], M. R. Castilho[1], K. Arunachalam[6], C. J. Fontes[7], R. G. de Oliveira[7]. *[1]Sabin Medicina Disgnóstica, Cuiabá, Brazil, [2]UNIVAG – Centro Universitário, Várzea Grande, Brazil, [3]Scan Rastreamento em Medicina Diagnóstica, Cuiabá, Brazil, [4]Sabin Medicina Disgnóstica, Brasília, Brazil, [5]Sabin Medicina Diagnóstica, Salvador, Brazil, [6]Chinese Academy of Sciences, Kunming Institute of Botany, Key Laboratory of Economic Plants and Biotechnology and the Yunnan Key Laboratory for Wild Plant Resources, Kunming, China, [7]Universidade Federal de Mato Grosso, Hospital Universitário Júlio Müller, Cuiabá, Brazil*

# SCIENTIFIC POSTER SESSIONS

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## MOLECULAR DIAGNOSTICS

**A-165 Potential Effect of the Accredited Vaccines on Body Protection Against SARS-CoV-2 Infection, in Iran**

V. Ezzatizadeh[1], M. Jamshidi[1], M. Tajik[2], F. Shasti-Karimi[1], A. Nejadeh[2]. [1]*Medical Genetics Department, Ayandeh Diagnostic Laboratory, Varamin, Iran, Islamic Republic of,* [2]*Pathobiology Department, Ayandeh Diagnostic Laboratory, Varamin, Iran, Islamic Republic of*

**A-166 Performance Evaluation of a High Throughput Automated RT-PCR Platform for the Detection of SARS-CoV-2**

C. Shaw[1], G. Eltringham[1], G. Citrone[1], H. Brown[1], H. Plummer[1], I. Oikonomou[1], J. Rooney[1], C. Schultz[1], P. Card[1], M. Majkusiak[1], E. Zlotucha-Kowalska[1], E. Hodgson[2], H. Leong[2], H. Pezzi[2], J. Feenstra[2], Z. Pounce[2], D. Saunders[3], L. Dougall[3], J. Collins[3]. [1]*Integrated Covid Hub North East, Gateshead, United Kingdom,* [2]*Thermo Fisher Scientific, South San Francisco, CA,* [3]*Microbiology and Virology Department, The Newcastle upon Tyne Hospitals NHS Foundation Trust, Freeman Hospital, Newcastle upon Tyne, United Kingdom*

**A-167 Direct RT-PCR of SARS-CoV-2 on Gargle Samples for a Safe and Open University Campus**

L. Dohmen[1], G. Haider[1], D. T. Hanisch[1], A. Gruhn[1], M. Rahmatollahi[2], J. Feenstra[2], M. Gandhi[2], M. F. Schneider[1]. [1]*Medical and Biological Physics, Technical University Dortmund, Dortmund, Germany,* [2]*Thermo Fisher Scientific, South San Francisco, CA*

**A-168 PCR-based Genotyping Assays as a Complement to Whole Genome Sequencing for Surveillance of SARS-CoV-2 Variants of Concern, Including Omicron**

L. Koets[1], K. Van Leeuwen[2], M. Derlagen[3], J. Van Wijk[3], N. Keijzer[3], J. Feenstra[4], O. Sorel[4], M. Gandhi[4], M. Koppelman[1]. [1]*Sanquin Research and Lab services, National Screening Laboratory Sanquin, Amsterdam, Netherlands,* [2]*Sanquin Diagnostics, Department of Phagocytes Diagnostics, Amsterdam, Netherlands,* [3]*Sanquin Diagnostics, Department of Immune Cytology, Amsterdam, Netherlands,* [4]*Thermo Fisher Scientific, South San Francisco, CA*

**A-169 A Rapid Tool to Detect Vancomycin Resistance Genes in *Enterococcus Faecium* Isolates**

M. Peris-Peris[1], A. Milagro-Beamonte[2], B. Fortuño-Cebamanos[2], C. López-Gómez[2], A. I. López-Calleja[2], N. F. Martínez-Cameo[3], Y. Gracia-Grataloup[3], B. Gilaberte-Angós[3], D. Martínez-Mateos[3], J. Franco-Cuartero[3], M. Romo-Cabanzon[3], M. Santiago-Amago[3], B. Aracil-García[4], R. Nuñez-Medina[3], S. G. Nabal-Díaz[3], M. Latorre-Millán[1], L. Clusa-Cuesta[1], B. Dehesa-García[5], C. Escolar[5], B. García-Manrique[5], H. Alonso[5], A. Rezusta-López[2]. [1]*Instituto de Investigaciones Sanitarias de Aragón (IISA), Grupo de investigación en infecciones de difícil diagnóstico y tratamiento, GIIS023, Zaragoza, Spain,* [2]*Servicio Microbiología y Parasitología, Hospital Universitario Miguel Servet, Grupo de investigación en infecciones de difícil diagnóstico y tratamiento, GIIS023, Zaragoza, Spain,* [3]*Servicio Microbiología y Parasitología, Hospital Universitario Miguel Servet, Zaragoza, Spain,* [4]*Centro nacional de Microbiología y virología sanitarias CNMVS ISCIII, Madrid, Spain,* [5]*Certest Biotec, San Mateo de Gállego, Spain*

**A-170 Clinical Sensitivity of VIASURE Complete Automatized Workflow for the Molecular Diagnosis of Gastrointestinal Infections**

C. Giménez-Rota, L. Pastor-Bernad, E. Lucia-Lobera, B. Santos-da Silveira, B. García-Manrique. *Certest Biotec, San Mateo de Gállego, Spain*

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## MOLECULAR DIAGNOSTICS

**A-171 Comparison of Five Nucleic Acids Processing Methods for SARS-CoV-2 Molecular Diagnosis**

M. Martínez-Santolaria[1], E. Machetti-Mareca[2], B. García-Manrique[2], C. Gil-Rodríguez[2]. *[1]Facultad de Ciencias, Universidad de Zaragoza, Zaragoza, Spain, [2]Certest Biotec, San Mateo de Gállego, Spain*

**A-172 Contribution of Molecular Techniques for the Early Diagnosis of Patients With Haemocultures Positive to Gram-Negative Bacilli**

M. Monforte-Cirac[1], I. Millán-Lou[1], M. Corruchaga-Arregui[2], A. Ezpeleta-Galindo[2], G. Tirado-Anglés[2], E. Franco-Marín[3], B. Dehesa-García[3], B. García-Manrique[3], C. Aspiroz-Sancho[1]. *[1]Sección de Microbiología, Hospital Royo Villanova, Zaragoza, Spain, [2]Unidad de Cuidados Intensivos, Hospital Royo Villanova, Zaragoza, Spain, [3]Certest Biotec, San Mateo de Gállego, Spain*

**A-173 Detection and Differentiation of *Bordetella pertussis, parapertussis and holmesii* Using the Integrated Nucleic Acid Extraction and Amplification Platform BD MAX™**

G. Marín-Royo, A. Aznar, C. Palacios, T. González, B. García-Manrique. *Certest Biotec, San Mateo de Gállego, Spain*

**A-174 Detection of *Staphylococcus aureus* Bacteraemia and Other Methicillin-Sensitive and Methicillin-Resistant *Staphylococci***

M. Monforte-Cirac[1], I. Millán-Lou[1], M. Corruchaga-Arregui[2], A. Ezpeleta-Galindo[2], G. Tirado-Anglés[2], E. Franco-Marín[3], B. Dehesa-García[3], B. García-Manrique[3], C. Aspiroz-Sancho[1]. *[1]Sección de Microbiología, Hospital Royo Villanova, Zaragoza, Spain, [2]Unidad de Cuidados Intensivos, Hospital Royo Villanova, Zaragoza, Spain, [3]Certest Biotec, San Mateo de Gállego, Spain*

**A-175 DNA Free Taq Polymerase to Eliminate False-Positives in *Escherichia coli* qPCR Sepsis Diagnosis**

M. Gistas-Loscos[1], A. Manzano-Ferrando[2], I. Navarro-Pérez[2], P. de la LLana-Barón[2], B. García-Manrique[2], L. Llobet-Sesé[2]. *[1]Biochemistry/Biotechnology Faculty of Science, University of Zaragoza, Zaragoza, Spain, [2]Certest Biotec, San Mateo de Gállego, Spain*

**A-176 Early Detection of MRSA in Epidemiologic Surveillance Samples From Hospitalised Patients**

M. Monforte-Cirac[1], I. Millán-Lou[1], M. P. Corruchaga-Arregui[2], A. Ezpeleta-Galindo[2], G. Tirado-Anglés[2], E. Franco-Marín[3], B. Dehesa-García[4], B. García-Manrique[3], C. Aspiroz-Sancho[1]. *[1]Sección de Microbiología, Hospital Royo Villanova, Zaragoza, Spain, [2]Unidad de Cuidados Intensivos, Hospital Royo Villanova, Zaragoza, Spain, [3]Certest Biotec, San Mateo de Gállego, Spain, [4]Certest Biotec, Zaragoza, Spain*

**A-177 Molecular Diagnosis of SARS-CoV-2: Nucleic Acid Extraction + PCR SetUP in the new VIASURE VLFEX Platform**

C. Giménez-Rota, L. Pastor-Bernad, E. Lucia-Lobera, B. García-Manrique. *Certest Biotec, San Mateo de Gállego, Spain*

**A-178 New Automated Solution for Simultaneous Molecular Diagnosis of Gastrointestinal, Respiratory and Sexual Infections**

C. Giménez-Rota, L. Pastor-Bernad, E. Lucia-Lobera, B. Santos-da Silveira, B. García-Manrique. *Certest Biotec, San Mateo de Gállego, Spain*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## MOLECULAR DIAGNOSTICS

**A-179 Saliva Samples for Quick Detection of SARS-CoV-2: Compatibility With Several Nucleic Acid Processing Methods**

M. Martínez-Santolaria[1], C. Sota-Diez[2], B. García-Manrique[2], E. Machetti-Mareca[2]. *[1]Facultad de Ciencias, Universidad de Zaragoza, Zaragoza, Spain, [2]Certest Biotec, San Mateo de Gállego, Spain*

**A-180 Study of SARS-CoV-2 *in silico* Analysis Mismatches, Can the Different Variants be Monitored Whilst Verifying the PCR Performance?**

P. Tajada, B. Dehesa-García, F. Hamdan, L. P. Iguacel, E. Machetti-Mareca, C. Escolar, B. García-Manrique. *Certest Biotec, San Mateo de Gállego, Spain*

**A-181 The Most Desirable Scenario: Rapid Typing of Clinical Isolates for the Epidemiological Control of Influenza A Virus**

E. Teresa, V. Pérez, C. Escolar, B. García-Manrique. *Certest Biotec, San Mateo de Gállego, Spain*

**A-182 Bacterial Signatures for Type 2 Diabetes**

K. Gravdal, K. H. Kirste, K. Grzelak, G. T. Kirubakaran, C. Casén. *Genetic Analysis AS, Oslo, Norway*

**A-183 Association Between Circulating Interleukin-22 And Its Receptor Expression In Tuberculosis Patients of Northwest India**

S. Gupta[1], M. Banerjee[1], K. Gauba[1], P. Mitra[2], D. Yadav[1], P. Sharma[1]. *[1]All India Institute of Medical Sciences, Jodhpur, India, [2]PGIMER, Chandigarh, India*

**A-184 Genetic Diagnosis by Clinical Exome: Kabuki Syndrome**

M. Molina Zayas[1], M. del Aguila Garcia[2], S. Garcia Chileme[2], S. Garcia Linares[1], A. Poyatos Andujar[2], T. Haro Muñoz[1]. *[1]Hospital Universitario San Cecilio, Granada, Spain, [2]Hospital Virgen de las Nieves, Granada, Spain*

**A-185 Evaluation of a Novel Buccal Sample collection Device for High Quality Human Genomic DNA**

G. S. Hunter[1], M. Boen[2]. *[1]Gentueri Inc., Verona, WI, [2]Ahlstrom-Munksjo, Pont-Eveque, France*

**A-186 Early Diagnosis of Coronary Artery Disease By Micro RNA Panel in Patients With Angina**

D. A. khan[1], S. A. Gilani[2], A. Rauf[2], N. A. Samore[2], Z. H. Haroon[3]. *[1]NUMS, Rawalpindi, Pakistan, [2]Armed Forces Institute of Cardiology (AFIC) & National Institute of Heart Diseases (NIHD), Rawalpindi, Pakistan, [3]Armed Forces Institute of Pathology (AFIP), Rawalpindi, Pakistan*

**A-187 Performance Evaluation of BioGX Xfree™ COVID-19 Direct RT-PCR Assay**

R. Khoury, P. Gudaitis, P. Patel, A. Gandhi, R. Shah, D. Gudaitis. *Aculabs, Inc, East Brunswick, NJ*

**A-188 Identification of a Novel Splicing Variant and the Other Hidden Variant in *GALNS* by Whole Genome Sequencing and RNA Study in Mucopolysaccharidosis IVA**

S. Kim, E. Noh, J. Park, H. Park, J. Jang, S. Cho. *Samsung Medical Center, Seoul, Korea, Republic of*

**A-189 HAZIS-CirR: A Novel Enrichment and Isolation Platform of Urinary Circulating RNAs**

B. Koo, Y. Shin. *Yonsei University, Soeul, Korea, Republic of*

# SCIENTIFIC POSTER SESSIONS

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## MOLECULAR DIAGNOSTICS

**A-190 Analysis of HLA A, B, C, DR Types Associated with CMV-specific Cell Mediated Immunity in Seropositive Kidney Transplant Candidates**

H. Lee[1], S. Yun[2], J. Ryu[3], H. Bae[2], J. Lee[2], G. Ko[2], A. Choi[3], J. Jung[3], E. Oh[3]. *[1]Catholic Kwandong University International St. Mary's Hospital, Incheon, Korea, Republic of, [2]Department of Biomedicine & Health Sciences, Graduate School, The Catholic University of Korea, Seoul, Korea, Republic of, [3]Department of Laboratory Medicine, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea, Republic of*

**A-191 Clinical Performance of the Ultra-High Throughput Amplitude™ Platform for Multiplex Respiratory Pathogen Detection**

H. Leong[1], H. Pezzi[1], P. Childress[2], C. Short[2], T. Proctor[1], O. Okafor[1], O. Sorel[1], J. Feenstra[1], M. Gandhi[1]. *[1]Thermo Fisher Scientific, South San Francisco, CA, [2]Quantigen Biosciences, Fishers, IN*

**A-192 Concurrent Cell Free EGFR Testing and its Influence on Survival Outcome of Non Small Cell Lung Cancer**

r. lingaiah[1], N. Kumari[2], R. Paturu[2], S. Singh[2], S. Mishra[2], N. Krishnani[2]. *[1]Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, UP, India, [2]Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow UP, India*

**A-193 Evaluation of HER2 Status in Equivocal Breast Cancer Samples Using Surrogate DNA Methylation Markers**

X. Liu[1], H. Li[2], l. Zeng[2], Z. Lu[2], S. Chen[2], M. Bibikova[1], Z. Chen[1], J. Fan[2]. *[1]AnchorDX INC., Fremont, CA, [2]AnchorDX Medical Corp. LTD, Guangzhou, China*

**A-194 Prevalence of Influenza A and SARS-COV2 Coinfection in Patients Referred to a Clinical Chemistry Laboratory in Brazil**

V. A. Lopes[1], H. L. Brandão[2], B. O. Barreto[2], C. Araujo[2], L. F. Abdalla[2]. *[1]Sabin Medicina Diagnóstica, Brasília, Brazil, [2]Sabin Medicina Disgnóstica, Brasília, Brazil*

**A-195 Longitudinal Evaluation of Anavasi AscencioDx RT-LAMP SARS-CoV-2 Assay in a Point-of-Care Clinical Setting During the Omicron Wave**

M. Blaivas[1], B. Lutz[2], R. Atkinson[3], C. Bennett[3], R. Rivera[3], E. Kline[2], M. Duong[3]. *[1]University of South Carolina School of Medicine, Columbia, SC, [2]University of Washington, Seattle, WA, [3]Anavasi Diagnostics, Seattle, WA*

**A-196 Development of Reference Materials for Detection of Hepatitis E Virus (HEV)**

S. Daniel, C. Huang, L. Brandt, E. Morreale, B. Anekella. *LGC Clinical Diagnostics, Gaithersburg, MD*

**A-197 Development of Reference Materials for SARS-CoV-2 Omicron Variant Detection**

S. Daniel[1], C. Huang[1], L. Brandt[1], E. Morreale[2], B. Anekella[1]. *[1]LGC Clinical Diagnostics, Gaithersburg, MD, [2]LGC Clinical Diagnostics, Milford, MA*

**A-198 Improvement of the Quantitativeness of Methylation Analyses Using a Methylation-Sensitive Restriction Enzyme**

A. Naruse[1], A. Kikuchi[1], K. Akita[2], K. Takagi[2]. *[1]Daiyukai Research Institute for Medical Science, Ichinomiya, Japan, [2]Daiyukai Daiichi Hospital, Ichinomiya, Japan*

# SCIENTIFIC POSTER SESSIONS

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## MOLECULAR DIAGNOSTICS

**A-199 Performance Evaluation of TaqMan SARS-CoV-2, Flu A/B, RSV RT-PCR Multiplex Assay for the Detection of Respiratory Viruses**

P. Neopane, J. Nypaver, R. Shrestha, S. S. Beqaj. *Patients Choice Laboratories, Indianapolis, IN*

**A-200 Mechanical Loading Modulates Phosphate Related Genes in Rat Bone**

A. K. Nepal[1], H. W. van Essen[1], C. M. Reijnders[1], P. Lips[2], N. Bravenboer[1]. *[1]Department of Clinical Chemistry, Amsterdam UMC, Vrije Universiteit Amsterdam, Amsterdam, Netherlands, [2]Department of Internal Medicine, Endocrine section, Amsterdam UMC, Vrije Universiteit Amsterdam, Amsterdam, Netherlands*

**A-201 Comparison of Cepheid, Roche, and LDT Platforms for COVID-19 and Influenza Testing**

G. W. Pratt, L. V. Rao. *Quest Diagnostics, Marlborough, MA*

**A-202 A 10-year Comparative Study of Karyotypes by G-banding and Array-CGH Hybridization Techniques**

A. C. Bandeira, G. C. Carvalho, R. A. Nunes, C. S. Silva, A. C. Ellio, H. R. Junior, B. B. Perez, D. R. Ramadan, S. Tufik. *Associação Fundo de Incentivo à Pesquisa, São Paulo, Brazil*

**A-203 Open Format Real-Time PCR Kits Are a Reliable Solution for Testing Needs During COVID-19 Pandemic in Poland**

J. Sánchez[1], L. Fulawka[2], A. Kuzan[3]. *[1]Vitassay Healthcare SLU, Huesca, Spain, [2]Molecular Pathology Centre Cellgen, Wroclaw, Poland, [3]Department of Biochemistry and Immunochemistry, Wroclaw Medical University, Wroclaw, Poland*

**A-204 Relevance of EQA Programmes in the Assessment of the Performance of qPCR Kits for the Detection of Pathogens Responsible of Tropical Diseases**

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

**A-205 Ignoring PCR Duplicates Does Not Affect Germline Variant Calling in Targeted Next-Generation Sequencing**

A. C. Santos, P. G. Mesquita, T. H. Santa Rita, N. S. Pessoa, R. O. Benício, I. C. Sgardioli, A. d. Andrade, R. H. Jácomo, L. F. Nery, G. B. Barra. *Sabin Medicina Diagnóstica, Brasília, Brazil*

**A-206 Analysis of Gene Expression in Left Ventricular Dysfunction after Acute Myocardial Infarction**

M. S. Cruz, K. S. Costa de Souza, A. Medeiros Gomes da Silva, R. A. Silva Dantas, R. Viana Zuza Diniz, A. Ducati Luchessi, V. N. Silbiger. *Federal University of Rio Grande do Norte, Natal, Brazil*

**A-207 Identification of Candidate Regulatory Variants Within Upstream Regions of Genes Related to Familial Hypercholesterolemia**

J. N. de Araujo[1], V. F. Oliveira[2], J. B. Borges[3], C. Dagli-Hernandez[2], E. d. Marçal[2], R. C. Freitas[2], G. M. Bastos[3], R. M. Gonçalves[3], A. A. Faludi[3], C. E. Jannes[4], A. d. Pereira[4], R. D. Hirata[2], M. H. Hirata[2], A. D. Luchessi[1], V. N. Silbiger[1]. *[1]Federal University of Rio Grande do Norte, Natal, Brazil, [2]University of Sao Paulo, São Paulo, Brazil, [3]Institute Dante Pazzanese of Cardiology, São Paulo, Brazil, [4]Heart Institute, University of Sao Paulo, São Paulo, Brazil*

# SCIENTIFIC POSTER SESSIONS

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## MOLECULAR DIAGNOSTICS

**A-208 microRNAs in Left Ventricular Systolic Dysfunction Post-Myocardial Infarction**

R. C. Dantas-Komatsu[1], M. S. Cruz[1], R. V. Diniz[1], R. D. Hirata[2], M. H. Hirata[2], V. N. Silbiger[1], A. D. Luchessi[1]. *[1]Federal University of Rio Grande do Norte, Natal, Brazil, [2]University of Sao Paulo, São Paulo, Brazil*

**A-209 Panel of SNPs to Assess the Risk and Prognosis of Thyroid Carcinoma in a Mixed Population of Northeastern Brazil**

I. C. Clemente dos Santos[1], K. Alves dos Santos[1], K. S. Costa de Souza[1], C. Santos Silva[1], H. Gomes Ribeiro[1], A. Carracedo[2], M. Torres-Español[2], M. d. Paiva Baracho[1], A. K. Pereira de Medeiros[3], S. Ramos de Miranda Henriques Tarrap[3], A. A. Honorato Sobrinho[3], R. Lanverly de Medeiros[3], A. Ducati Luchessi[1], V. Silbiger[1]. *[1]Federal University of Rio Grande do Norte, Natal, Brazil, [2]University of Santiago de Compostela, Santiago de Compostela, Spain, [3]Liga Norte Riograndense Contra o Câncer, Natal, Brazil*

**A-210 Clinical Evaluation of Thioredoxin 1 in the Blood as a Novel Biomarker to Detect Breast Cancer**

AACC ACADEMY

K. Suh[1], Y. Kim[1], S. Park[1], H. Ko[2], J. Kim[3], J. Kim[2], S. Lee[2], J. Lee[4], B. Choi[5], J. Kim[6], J. Jung[7], J. Kim[2], J. Sul[2], E. Jin[8], J. Hong[4], C. Lee[9], S. Kim[3], J. Lee[2]. *[1]E&S Healthcare Co., Ltd., Daejeon, Korea, Republic of, [2]Chungnam National University Hospital & Scolle of Medicine, Daejeon, Korea, Republic of, [3]Yonsei University College of Medicine, Seoul, Korea, Republic of, [4]Chungnam National University College of Medicine, Daejeon, Korea, Republic of, [5]Department of Radiology, Chungnam National University Hospital, Daejeon, Korea, Republic of, [6]Department of Pathology, Chungnam National University Hospital, Daejeon, Korea, Republic of, [7]Department of Family Medicine, Chungnam National University Hospital, Daejeon, Korea, Republic of, [8]Department of Pharmacology, Chungnam National University College of Medicine, Daejeon, Korea, Republic of, [9]Department of pathology, Konyang University Hospital, Daejeon, Korea, Republic of*

**A-211 Analytical Performance of SARS-CoV-2 RT-qPCR Assay on Advanced Mobile Real Time PCR Device**

Y. Tan, C. Chen, L. Hua, T. Shah, T. Verdun, M. Al-Halbouni, D. B. Hirst, P. J. Pickering. *Ubiquitome Limited, Auckland, New Zealand*

**A-212 Analytical Sensitivity of the SalivaDirect™ Assay on the Liberty16 for Detecting SARS-CoV-2 B.1.1.529 ("Omicron")**

Y. Tan, M. Al-Halbouni, C. Chen, D. B. Hirst, P. J. Pickering. *Ubiquitome Limited, Auckland, New Zealand*

**A-213 Multivariate Analysis of the Effects of Specimen Tube Type and Relative Percent Tube Fill Volume on Cerebrospinal Fluid Aß42, pTau181, and pTau181/Aß42 Ratio Determinations**

P. M. Vanderboom, R. Fyffe-Freil, S. Ashrafzadeh Kian, R. Deters, A. Algeciras-Schimnich, J. Bornhorst. *Mayo Clinic, Rochester, MN*

**A-214 TaqMan™ SARS-CoV-2 Genotyping Assays for Quick Identification of Delta, Omicron BA.1 and BA.2 SARS-CoV-2 Variants**

S. Vanoni[1], B. Avdiu[1], A. Matulevicius[1], G. Scantamburlo[1], J. Feenstra[2], T. Proctor[2], M. Gandhi[2], M. Paulmichl[3], C. Nofziger[1]. *[1]Pharmgenetix GmbH, Anif, Austria, [2]Thermo Fisher Scientific, South San Francisco, CA, [3]Privatklinik Maria Hilf GmbH, Klagenfurt, Austria*

# SCIENTIFIC POSTER SESSIONS

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## MOLECULAR DIAGNOSTICS

**A-215 Effect of Upper Respiratory Tract Site of Collection for the Molecular Detection of SARS-CoV-2: Anterior Nasal versus Nasopharyngeal Swabs**
B. Mohajer, O. Aceves, P. Friebe, O. Sorel, T. Proctor, M. Gandhi, X. Wang. *Thermo Fisher Scientific, South San Francisco, CA*

**A-216 Development and Analytical Verification of Automated Cell-free DNA Extraction for EpiCheck®—Compatible DNA Methylation Testing in aHhigh Throughput Clinical Laboratory**
A. M. Wilhelm, T. Gyuris, L. Johnson, M. Dodge, E. E. Bram, C. A. Schnabel. *Nucleix, San Diego, CA*

**A-217 Evaluation of the Analytical Performance of Four Sars-Cov-2 Rapid Antigen Detection Tests for Laboratory Diagnosis of COVID-19 in Brazil**
C. P. Mendonça, F. K. Marques, J. d. Silva, A. B. de Lima, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-218 Lactose Intolerance by Oral Swab Genotyping: Validation of a Direct-to-Consumer Test**
C. P. Mendonça, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-219 Molecular Panel to Detect and Differentiate SARS-CoV-2 Variants by RT-qPCR**
J. d. Silva[1], A. B. de Lima[1], L. B. Alvim[1], C. P. Mendonça[1], F. S. Malta[1], R. Santana[2], D. A. Zauli[1]. *[1]Pardini Group, Vespasiano, Brazil, [2]Universidade Federal de Minas Gerais, Belo Horizonte, Brazil*

**A-220 New Concern in COVID-19 Pandemic: Co-infection of Sars-Cov-2 With Other Respiratory Pathogens**
A. B. Lima, J. d. Silva, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-221 One-step In-house RT-qPCR Method Standardization for Detecting PML-RARa Fusions**
A. B. de Lima, F. K. Marques, F. M. Lage, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-222 One-step RT-qPCR Method Standardizing for Detecting the *RUNX1-RUNX1T1* Fusion in the Acute Myeloid Leukemia**
F. K. Marques, F. M. Lage, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-223 Performance Evaluation of a Molecular Assay for Detection CBFB-MYH11 Fusion Transcripts**
J. d. Silva, A. B. de Lima, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-224 Validation of One-step in-house RT-qPCR Method for Detecting Two Relevant Gene Fusions for the Acute Lymphoblastic Leucemias**
F. K. Marques, F. M. Lage, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-225 Health Economics Model (HEM) Comparison of Rapid Point-of-Care COVID-19 Antigen Tests in Terms of Direct Costs of False-negative Results: City of Athens as a Case Study**
R. Hren, J. Urquhart, C. Mardis. *Siemens Healthineers, Norwood, MA*

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## MOLECULAR DIAGNOSTICS

**A-226 Performance of PCR-based Genotyping Panel and Whole Genome Sequencing for SARS-CoV-2 Variant Identification in Low Viral Load Samples** AACC ACADEMY

N. Pinkhover[1], E. Sanchez[1], K. Pontbriand[1], K. Fletcher[1], A. Pum[1], T. Proctor[2], J. D. Feenstra[2], O. Sorel[2], M. Gandhi[2], J. Auclair[1]. *[1]Northeastern University, Boston, MA, [2]Thermo Fisher Scientific, South San Francisco, CA*

**A-227 Concordance of CK and Aldolase in the Diagnostic Approach of Muscle Damage**

S. Sánchez Asís, D. Morell García, C. Gómez Cobo, I. Llompart Alabern, J. Delgado Rodriguez. *Hospital Universitario Son Espases, Palma de Mallorca, Spain*

**A-228 Identification of Clinical Common Invasive Fungal Disease Via a Multi-Channel qPCR Melting Curve Analysis**

Z. Wang, S. Li, Y. Zhang, X. Yan, W. Yao, H. Wang. *Dynamiker Sub-Center of Beijing Key Laboratory for Mechanisms Research and Precision Diagnosis of Invasive Fungal Disease, Tianjin, China*

**A-229 Point-of-Care Diagnosis of Dry Eye Disease With Sensitive Dual Biomarker Detection**

S. D. Zhang, D. Wang. *Westview Optometry and Eye Institute, San Diego, CA*

**A-230 Big Data Analysis from Laboratory Medicine Reflects Waves of Covid-19 Pandemic in Brazil** POSTER

S. P. Bandeira[1], J. E. Levi[2], L. C. Pierroti[2], J. U. Brito[3], A. Chebabo[4], D. C. Thielmann[4], S. L. Hinrichsen[5], A. C. Lopes[6], C. M. Dias[2], M. C. Castelo[1], L. L. Cavalcante[1], T. S. Sousa[5], J. S. Filleti[2], B. S. Santos[2], C. K. Hirose[2], G. A. Campana[2]. *[1]Dasa, Fortaleza, Brazil, [2]Dasa, São Paulo, Brazil, [3]Dasa, DF, Brazil, [4]Dasa, Rio de Janeiro, Brazil, [5]Dasa, Recife, Brazil, [6]Dasa, Florianópolis, Brazil*Online-only Display

**A-231 The Real Situation of the Covid-19 Pandemic in a Laboratory in Northern Brazil During 2021** POSTER

M. A. Brazao[1], P. B. Cohen[2], G. B. Brazao[3], F. V. Brazao[4]. *[1]Laboratório Ruth Brazao, Belem, Brazil, [2]Lab Ruth Brazao, Belem, Brazil, [3]CESUPA, Belem, Brazil, [4]SBPC/ML, Belem, Brazil*Online-only Display

**A-232 Validation of Influenza A, Influenza B and SARS-CoV-2 kit: Positive Results Parameters Observation in Clinical Samples of Rio de Janeiro, Brazil** POSTER

A. L. Candéa, F. A. Freitas, F. S. Ribas, F. D. Mello, M. A. Krieger, E. M. Carvalho. *Fiocruz, Rio de Janeiro, Brazil*Online-only Display

**A-233 Congenital Neutropenia With Deficiency of SRP54** POSTER

A. Jurado Orozco, P. Lesmes-García Corrales, R. Muñoz García, J. Guerrero Montávez. *Hospital Universitario Virgen del Rocio, Sevilla, Spain*Online-only Display

**A-234 Importance of the Multidisciplinary Approach in the Diagnosis and Follow-Up of Minority Diseases** POSTER

P. Lesmes-García Corrales[1], R. Muñoz García[1], A. Jurado Orozco[1], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen del Rocio, Sevilla, Spain, [2]Hospital Universitario Virgen del Rocío, Sevilla, Spain*Online-only Display

# SCIENTIFIC POSTER SESSIONS

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## MOLECULAR DIAGNOSTICS

**A-235 Primary Ciliary Dyskinesia— Genetic Diagnosis in a Patient With Suspected Primary Inmunodeficiency**
POSTER
R. Muñoz[1], A. Jurado Orozco[2], P. Lesmes-García Corrales[2], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen del Rocío, Sevilla, Spain, [2]Hospital Universitario Virgen del Rocio, Sevilla, Spain*Online-only Display

**A-236 A Novel Multiplex PCR Assay for the Identification of Clinically Relevant *Aspergillus* Species**
POSTER
S. Li, Z. Wang, Y. Zhang, Y. Wang, H. Wang. *Dynamiker Sub-Center of Beijing Key Laboratory for Mechanisms Research and Precision Diagnosis of Invasive Fungal Disease, Tianjin, China*Online-only Display

**A-237 Inconsistent Variant Interpretation Between Original Results and Prenatal Molecular Diagnostic Center**
POSTER
L. Lin[1], Y. Zhang[2], H. Pan[2], Y. Ma[2], L. Qiu[1]. *[1]Peking Union Medical College Hospital, Beijing, China, [2]Peking University First Hospital, Beijing, China*Online-only Display

**A-238 Diagnosis of Primary Hereditary Dyslipidemias Through the Laboratory**
POSTER
C. Macías, V. Moreno, F. Prada, F. Rodriguez-cantalejo. *Hospital Reina Sofía, Córdoba, Spain*Online-only Display

**A-239 Genetic Diagnosis of a Case of Congenital Myotonia**
POSTER
R. Rubio-Sánchez[1], M. Zarate[1], M. Giménez Blanco[1], M. Viloria Peñas[1], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen de Valme, Sevilla, Spain, [2]Hospital Universitario Virgen del Rocío, Sevilla, Spain*Online-only Display

**A-240 A Novel Variant of RAG2 Gene in a Parent, Potential Risk Factor for Neonates With Severe Combined Immunodeficiency**
POSTER
S. Shah[1], P. Arora[2], S. Jangam[2], S. Ozalkar[2], S. Parthasarathy[2], S. Gupte[3]. *[1]Greenarray Genomic Research and Solutions of ADPL, Pune, India, [2]Greenarray Genomic Research & Solutions of ADPL, Pune, India, [3]Gute Hospital, Pune, India*

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# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## SPECIAL PATIENT POPULATIONS

**A-241 Novel Neuroimmune MicroRNA Panel as a Potential Early Diagnostic Marker of Autism Spectrum Disorders in Egyptian Children With Autism**

O. A. AbdelKarem[1], A. M. El Banaa[1], M. S. Abd Elmaksoud[2], R. A. Elwafa[3], M. A. Zaki[1]. *[1]Chemical Pathology Department,Medical Research Institute, Alexandria University, Alexandria, Egypt, [2]Pediatric Neurology Department, Alexandria children Hospital, Faculty of Medicine, Alexandria University, Alexandria, Egypt, [3]Clinical and Chemical Pathology Department, Faculty of Medicine, Alexandria University, Alexandria, Egypt*

**A-242 Pediatric Reference Interval Verification for Special Chemistry, Immunoassay, and Cancer Markers on the Abbott Alinity ci System**

M. Bohn[1], S. Wilson[1], R. Schneider[2], K. Adeli[1]. *[1]The Hospital for Sick Children, Toronto, ON, Canada, [2]Abbott Diagnostics, Chicago, IL, Canada*

**A-243 Pediatric Reference Intervals for Serum Calprotectin in the Caliper Cohort of Healthy Children and Adolescents: A Potential Biomarker for Neonatal and Pediatric Bacterial Infection**

M. Bohn, S. Wilson, A. Messiha, A. Havelka, K. Adeli. *The Hospital for Sick Children, Toronto, ON, Canada*

**A-244 Serological Antibody Response to SARS-CoV-2 Vaccination in a Large Cohort of Canadian Children, Adolescents, and Adults**

M. Bohn[1], S. Wilson[1], R. Schneider[2], K. Adeli[1]. *[1]The Hospital for Sick Children, Toronto, ON, Canada, [2]Abbott Diagnostics, Chicago, IL, Canada*

**A-245 Analysis of 5 Years of Ottawa Outpatient Lipid Data Reveals Realistic, Fit for Use, Between-Week Intra-Patient Biologic Variations Twice That of Normal Subjects**

J. Qiu[1], G. Cembrowski[1], C. McCudden[2]. *[1]University of Alberta, Edmonton, AB, Canada, [2]University of Ottawa, Ottawa, ON, Canada*

**A-246 Comparison of Clinical Characteristics Between Two Pediatric Groups: Confirmed Anti-NMDA Receptor Mediated Autoimmune Encephalitis Patients Versus Clinically Suspected but Anti-NMDAR Negative**

P. Gadgil, A. M. Walinjkar, B. Das. *Kokilaben Dhirubhai Ambani Hospital & Medical Research Institute, Mumbai, India*

**A-247 Evaluation of sSrum S100 Protein as Biomarker for Evaluating Progression And Prognosis of Intra Cerebral Hematoma**

A. Doshi, S. R. Borse, H. Sarkar, A. Kumar, P. M. Pal, B. Das. *Kokilaben Dhirubhai Ambani Hospital & Medical Research Institute, Mumbai, India*

**A-248 Does Fatty Acid Content Influence Plasmalogen Levels? Implications for the Laboratory Evaluation of Peroxisomal Disorders**

I. De Biase[1], D. J. Ronnow[2], L. Duque Lasio[1], E. Kish-Trier[2], T. Yuzyuk[1]. *[1]Department of Pathology, University of Utah School of Medicine, Salt Lake City, UT, [2]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT*

**A-249 Preliminary Investigation into the Prevalence of G6PD Deficiency in a Pediatric African American Population using a Near-Patient Diagnostic Platform**

V. Leung-Pineda[1], E. Weinzierl[1], B. Rogers[1], R. Sista[2]. *[1]Children's Healthcare of Atlanta, Atlanta, GA, [2]Baebies Inc, Durham, NC*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## SPECIAL PATIENT POPULATIONS

**A-250 Comparison of an Automated Multi-Analyte System with the Manual ELISA Method for Celiac Disease Antibody Detection and Evaluation of the Updated ESPGHAN Guidelines**

C. Novis[1], D. Banerjee[1], H. Wells[1], M. Elgort[1], E. Wahl[2], A. Seaman[2], E. Camacho[2], M. Aure[2], B. Holloway[2], M. Mahler[2], V. Nandakumar[1]. *[1]Department of Pathology, University of Utah School of Medicine, Clinical Immunology Division, ARUP Laboratories, Salt Lake City, UT, [2]Headquarters & Technology Center Autoimmunity, Werfen, San Diego, CA*

**A-251 Comparison of Random Urine Protein/Creatinine Ratio with 24-hr Urine Protein in Suspected Pre-eclampsia**

L. Olayinka, E. Garnett, S. Devaraj. *Baylor College of Medicine/Texas Children's Hospital, Houston, TX*

**A-252 Investigation of Thyroid Testing in Pregnant Women at a Large Safety Net Hospital**

B. Osa-Andrews[1], T. S. Islam[1], P. M. Jones[1], A. Muthukumar[1], I. Hashim[2], J. Cao[1]. *[1]University of Texas Southwestern Medical Center, Dallas, TX, [2]Parkland Hospital, Dallas, TX*

**A-253 Glycated Albumin During Pregnancy: Preliminary Reference Intervals for a Midwestern U.S. Population and Usefulness as a Predictor of Adverse Neonatal Events**

AACC ACADEMY

J. Powers Carson[1], E. B. Carter[2]. *[1]Washington University in St. Louis-Core Lab Clinical Studies, Saint Louis, MO, [2]Washington University in St Louis, Saint Louis, MO*

**A-254 Ursodeoxycholic Acid Treatment in Intrahepatic Cholestasis Of Pregnancy: A Case for Monitoring**

K. Schramm[1], M. Hellier[2], E. Kish-Trier[1], T. Yuzyuk[3]. *[1]ARUP Institute for Clinical and Experimental Pathology, SALT LAKE CITY, UT, [2]ARUP laboratories, Salt Lake City, UT, [3]University of Utah, SALT LAKE CITY, UT*

**A-255 Pediatric Reference Limits for 10 Commonly Measured Autoimmune Disease Markers**

L. Sepiashvili[1], M. Bohn[2], A. Hall[1], T. Henderson[3], J. Chen[3], R. Dunst[3], K. Adeli[4]. *[1]The Hospital for Sick Children/University of Toronto, Toronto, ON, Canada, [2]The Hospital for Sick Children/University of toronto, Toronto, ON, Canada, [3]The Hospital for Sick Children, Toronto, ON, Canada, [4]The Hospital fro Sick Children/University of Toronto, Toronto, ON, Canada*

**A-256 The Presence of Anosmia and Dysgeusia Was Associated With the Perception of Weight Loss in Patients With COVID-19, But Not the Worst Prognosis**

M. Carvalho, R. C. Komatsu, V. Silbiger. *Universidade Federal do Rio Grande do Norte, Natal, Brazil*

**A-257 Performance of the InteliSwab® COVID-19 Rapid Test in Pediatric Population 2-14 Years of Age**

A. K. Stankovic[1], M. Roehler[2], M. Wooten[2], D. Spindell[2]. *[1]KoliadaConsulting LLC, Boston, MA, [2]OraSure Technologies Inc., Bethlehem, PA*

**A-258 One Case of "Hemoglobin H Disease" without Hb H Band**

R. Li. *Medical Laboratory of the Third affiliated Hospital of Shenzhen University, Shenzhen, China*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## SPECIAL PATIENT POPULATIONS

**A-259 Medians for Maternal Serum Markers of Fetal Abnormalities: Progress in Prenatal Screening**

S. Thapa, N. Thakur, A. Jang Kunwar, G. Joshi, S. Khanal. *Kathmandu Center for Genomics and Research Laboratory (KCGRL), Lalitpur, Nepal*

**A-260 Suboptimal Health Influences Gestational Levels of Angiogenic Growth Mediators and Oxidative Stress Biomarkers in Normotensive Pregnant Women Who Later Developed Preeclampsia in a Ghanaian Population** POSTER

E. O. Anto[1], O. Addai-Mensah[1], A. Tawiah[2]. *[1]Department of Medical Diagnostics, Kwame Nkrumah University Of Science and Technology, Kumasi, Ghana, [2]Department of Obstetrics and Gynecology Komfo Anokye Teaching Hospital, Kumasi, Ghana*

**A-261 Very Early Dyslipidemia In Congenital Generalized Lipodystrophy** POSTER

M. G. Castelo[1], V. O. Fernandes[2], G. E. Lima[2], A. D. Montenegro[2], C. M. Ponte[3], G. A. Campana[4], R. M. Montenegro Jr[2]. *[1]Dasa, Fortaleza, Brazil, [2]UFC, Fortaleza, Brazil, [3]Unichristus, Fortaleza, Brazil, [4]Dasa, São Paulo, Brazil*

**A-262 Point-of-Care Testing With a Viscoelastic Assay at Different Timepoints in Perioperative Haemostasis Management of Orthotopic Liver Transplant From Donors After Cardiac Death** POSTER

D. Fatela-Cantillo, J. Á. Noval-Padillo, J. L. Prieto-Rubio, M. Á. Gómez-Bravo, J. M. Guerrero-Montávez. *Hospital Universitario Virgen Del Rocio, Sevilla, Spain*

**A-263 Should We Stop Performing OGTT In Patients With a History Of Bariatric Surgery? An Analysis of Side Effects and Usefulness of the Test** POSTER

A. FRAGOSO PEROZO, R. FONTES, Y. Schrank, L. Spina, A. Telles, P. Araujo, M. Pinheiro, D. Gomes, D. Rodrigues, L. Santos. *Dasa, Rio De Janeiro, RJ, Brazil*

**A-264 Assessment of Non-Invasive Prenatal Test Implementation in the Prenatal Screening Program** POSTER

J. Montenegro Martínez, E. Lepe Balsalobre, D. Nuñez Jurado, J. Guerrero Montávez. *Virgen del Rocío University Hospital, Seville, Spain*

**A-265 Prenatal Disorder—Does Race Matter?** POSTER

H. Jum'Ah[1], Y. Wang[1], P. Wolanski[1], M. Ali[2]. *[1]The MetroHealth System, Cleveland, OH, [2]The MetroHealth System, Case Western Reserve University School of Medicine, Cleveland, OH*

**A-266 Asymptomatic HyperCKemia—A Case Report** POSTER

M. Zárate[1], M. Esteban de Celis[1], M. Giménez Blanco[1], R. Rubio-Sánchez[1], M. Viloria Peñas[1], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen de Valme, Sevilla, Spain, [2]Hospital Universitario Virgen del Rocío, Sevilla, Spain*

**A-267 Gestational Diabetes Incidence in Our Healthcare Area** POSTER

R. Rubio-Sánchez[1], E. Lepe-Balsalobre[2], M. Viloria Peñas[1], J. Guerrero Montávez[3]. *[1]Hospital Universitario Virgen de Valme, Sevilla, Spain, [2]Hospital de Riotinto, Huelva, Spain, [3]Hospital Universitario Virgen del Rocío, Sevilla, Spain*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## SPECIAL PATIENT POPULATIONS

**A-268 Hypophosphatasia— A Case Report**
POSTER
M. Zárate[1], M. Giménez Blanco[1], M. Esteban de Celis[1], R. Rubio-Sánchez[1], M. Viloria Peñas[1], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen de Valme, Sevilla, Spain, [2]Hospital Universitario Virgen del Rocío, Sevilla, Spain*

**A-269 Prognostic Utility of Procalcitonin, C-Reactive Protein, and Leukocyte Count in Neonatal Sepsis**
POSTER
E. Lepe-Balsalobre[1], R. Rubio-Sánchez[2], M. Viloria Peñas[2], J. Guerrero Montávez[3]. *[1]Hospital de Riotinto, Huelva, Spain, [2]Hospital Universitario Virgen de Valme, Sevilla, Spain, [3]Hospital Universitario Virgen del Rocío, Sevilla, Spain*

**A-270 Single Embryo Transfer in the Public Health System**
POSTER
R. Rubio-Sánchez[1], G. Bueno Rodríguez[1], P. Moreno de Acevedo Yagüe[1], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen de Valme, Sevilla, Spain, [2]Hospital Universitario Virgen del Rocío, Sevilla, Spain*

**A-271 Study of the Implementation of the sFIT-1/PIGF Ratio for Preeclampsia Screening in our Health Area**
POSTER
M. Giménez Blanco[1], M. Esteban de Celis[1], R. Rubio-Sánchez[1], M. Zarate[1], M. Viloria Peñas[1], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen de Valme, Sevilla, Spain, [2]Hospital Universitario Virgen del Rocío, Sevilla, Spain*

**A-272 Optimizing Cortisol After Glucagon Stimulus in Children: When and How Many Times Should We Collect Blood Samples to Accurately Exclude Hypocortisolism**
POSTER
Y. Schrank[1], R. Fontes[2], P. Araújo[2], A. F. Perozo[2], M. F. Pinheiro[2], D. M. Gomes[2]. *[1]DASA - SA, Rio de Janeiro, Brazil, [2]DASA, Rio de Janeiro, Brazil*

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# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## TOXICOLOGY AND THERAPEUTIC DRUG MONITORING

**A-273 Prevalence of Concurrent Detection of Novel Psychoactive Substances and Antipsychotics Treatment**
M. Bala, J. Schrecker, D. Schwope, L. Marshall, R. Heltsley. *Aegis Sciences Corporation, Nashville, TN*

**A-274 Does Labetalol Trigger False Positive Drug Testing Results?**
N. Bithi, S. D. Merrigan, G. A. McMillin. *ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT*

**A-275 Internal Versus External Calibration for Determination of Plasma Methotrexate by LC-MS/MS**
C. J. Blair, D. J. Dietzen. *Washington University School of Medicine, St. Louis, MO*

**A-276 Analytical and Clinical Evaluation of the Automated Elecsys Tacrolimus Assay on the Roche cobas e602 Analyzer**
A. Gant Kanegusuku[1], K. J. Yeo[2]. *[1]The University of Chicago, Chicago, IL, [2]University of Chicago Medical Center, Chicago, IL*

**A-277 Integration of VeriSpray and FAIMS for Quantitation of Immunosuppressant Drugs in Whole Blood**
K. Y. Garza[1], S. Samra[2], J. Guo[3], N. Wijeratne[2], C. Boeser[2], S. Lee[2], G. Tan[2], W. Clarke[1]. *[1]Johns Hopkins University School of Medicine, Baltimore, MD, [2]Thermo Fisher Scientific, San Jose, CA, [3]Thermo Fisher Scientific, Minneapolis, MN*

**A-278 Loperamide: A Novel Drug of Abuse Immunoassay Interferent**
K. A. Geno[1], A. Badea[2], K. L. Lynch[3], P. J. Jannetto[4], J. A. Hubbard[5], R. D. Nerenz[5], M. A. Cervinski[5]. *[1]Texas Tech University Health Sciences Center El Paso, El Paso, TX, [2]Lifespan Academic Medical Center, Rhode Island Hospital, Providence, RI, [3]University of California San Francisco, San Francisco, CA, [4]Mayo Clinic, Rochester, MN, [5]Dartmouth-Hitchcock Medical Center, Lebanon, NH*

**A-279 Occupational Exposure to Heavy Metals and Oxidative Stress Markers in Workers of North Western Rajasthan**
T. Goyal[1], P. Mitra[1], S. Sharma[2], P. Sharma[2]. *[1]Post Graduate Institute Of Medical Education & Research, Chandigarh, India, [2]All India Institute of Medical Sciences, Jodhpur, India*

**A-280 The Prevalence of Prenatal Fentanyl Exposure and Co-Exposure to Commonly Abused Drugs in a High-Risk Population**
J. T. Jones, S. Hariharan, D. Gonzalez. *United States Drug Testing Laboratories, Des Plaines, IL*

**A-281 Urine Drug Monitoring: Stress Testing a New B-Glucuronidase Enzyme**
V. Joshi[1], M. Roberts[2], C. Bunner[2]. *[1]EMD Millipore Corp., Burlington, MA, [2]Chem Quant Analytical Solutions LLC, Apex, NC*

**A-282 Evaluation of MedTox®$_{Scan}$ Profile®-V 13 Panel Test to Monitor Compliance with Buprenorphine Treatment for Opioid Dependence**
B. R. Kelley, T. L. Baudoin, A. M. Wockenfus, B. S. Karon, B. M. Katzman. *Mayo Clinic, Rochester, MN*

**A-283 LC-MS/MS Analysis of PFAS Forever Chemicals in Serum**
L. Labay, L. Blum. *NMS Labs, Horsham, PA*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## TOXICOLOGY AND THERAPEUTIC DRUG MONITORING

**A-284 A Quantitative LC-MS/MS Urine Buprenorphine and Norbuprenorphine Assay With Automated Sample Preparation**
K. Stoppie, A. Witmer, S. Lo. *Geisinger, Danville, PA*

**A-285 Multifunctional Nanoplatform Based on Alginate Hydrogel Co-Loaded With Cisplatin and Silver Nanoparticles to Study Drug Delivery and Modulation in Cancer Cell Lines**
S. Maher[1], H. Kalil[1], G. Liu[2], P. Rana[2], W. Wang[3], V. Markovic[4], K. Sossey[4], M. Bayachou[1]. *[1]Cleveland State University, Cleveland, OH, [2]Metrohealth medical Center, Case Western Reserve University, Cleveland, OH, [3]Metrohealth medical Center, Case Western Reserve University, cleveland, OH, [4]Metrohealth medical Center, Case Western Reserve University, Cleveland, OR*

**A-286 Comparison of the New Roche FEN2 and the Thermo DRI™ Fentanyl Immunoassays**
M. Menlyadiev, K. Lund, R. T. Suhandynata, M. J. Kelner, R. L. Fitzgerald. *University of California San Diego, San Diego, CA*

**A-287 Relationship of Circulating miRNAs with Immunological Parameters in Occupationally Lead Exposed Workers of North Western India**
P. Mitra[1], T. Goyal[2], S. Sharma[2], P. Sharma[2]. *[1]Postgraduate Institute of Medical Education & Research, Chandigarh, India, [2]All India Institute of Medical Sciences, Jodhpur, India*

**A-288 Therapeutic Drug Monitoring: Comparison of Result Accuracy and Analyte Stability in Plain Serum Tubes versus Plasma Separator Tubes**
D. Robbins[1], T. Robakowski[2], A. Nelson[2], K. Grant[2], Z. Jin[1], K. Galior[1]. *[1]UW Madison, Madison, WI, [2]UWHealth, Madison, WI*

**A-289 Clozapine Blood Levels on the Beckman Coulter DxC 700 Analyzer—Faster Turn-around-Time**
S. Salamone, I. Baburina, J. Fritz, M. Hilaire, D. Kozo, J. Wisnoski. *Saladax Biomedical Inc., Bethlehem, PA*

**A-290 Opioid Drug Interactions: Ongoing Awareness Amidst the COVID-19 Pandemic and Opioid Epidemic**
J. Schrecker, B. Cox, D. Schwope. *Aegis Sciences Corporation, NASHVILLE, TN*

**A-291 XRCC1 Gene Polymorphism and DNA damage in Occupationally Lead-Exposed Workers of North-western India**
P. Sharma[1], P. Singh[1], P. Mitra[2], T. Goyal[2], S. Sharma[1]. *[1]All India Institute of Medical Sciences, Jodhpur, India, [2]Post Graduate Institute Of Medical Education & Research, Chandigarh, India*

**A-292 Interference of Gabapentin in LC-MS/MS Analysis of Amphetamine and Proposed Solution**
R. Shrestha, J. Reeser, U. Mahanama, A. Reeb, P. Neopane, S. S. Beqaj. *Patients Choice Laboratories, Indianapolis, IN*

**A-293 Changes in Phosphatidylethanol Positivity After Transfusion and Potential Impact on Interpretation of Alcohol Use** AACC ACADEMY
T. Swift, D. M. Manthei, G. S. Winder, C. Gherasim. *University of Michigan, Ann Arbor, MI*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## TOXICOLOGY AND THERAPEUTIC DRUG MONITORING

**A-294 Cutoff Concentration Evaluation of a Fentanyl Screening Assay**
C. Thorburn[1], S. L. Cunningham[1], R. Schneider[2], D. Wang[1]. *[1]Beaumont Health, Royal Oak, MI, [2]Abbott Diagnostics, Abbott Park, IL*

**A-295 Potential Detection of 58 Fentanyl Analogs in Urine using Fentanyl Immunoassays** AACC ACADEMY
M. A. Akala, C. E. Wolf, G. R. Williams. *Virginia Commonwealth University Health Systems, Richmond, VA*

**A-296 A High Throughput LDTD-MS/MS Method to Drug Screening in Hair Samples**
B. F. Paulo, E. M. de Oliveira, E. Marques, J. S. Alves, A. B. Martins, L. Fialho Junior, V. G. Milagres, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-297 A Simple Method for Opioids, Synthetic Opioids, PCP, Pregabalin, and Barbiturates Detection in hair samples by LC-MS/MS**
B. F. Paulo, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-298 Analytical Method Development and Validation to Quantify Urinary Ortho-Cresol by Gas Chromatography with Flame Ionization Detector**
V. G. Milagres, B. F. Paulo, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-299 Determination of Psychoactive Substances (Confirmatory Method), in Hair Samples by LC-MS/MS**
L. Fialho Junior, B. F. Paulo, V. G. Milagres, A. B. Martins, E. M. de Oliveira, E. Marques, J. S. Alves, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-300 Development and Validation of a Highly Sensitive Method for Detection of Synthetic Cannabinoid JWH-018, AB-CHMINACA, and their Metabolites in hair Samples by LC-MS/MS**
B. F. Paulo, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-301 Validation of a Straightforward, Robust, and Rapid Method for Element Determination in Serum Samples By ICPMS**
B. F. Paulo, L. Fialho Junior, V. G. Milagres, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**A-302 Can Current Immunoassay and Gas-Chromatography Mass Spectrometry (GC-MS) Methods for Delta-9-tetrahydrocannabinol Carboxylic Acid (Δ9-THC-COOH) Detect Δ8-THC-COOH?** POSTER
U. Garg, S. Baird, C. Frazee. *Children's Mercy Hospital, Kansas City, MO*

**A-303 An UPLC-MS/MS Method for Therapeutic Drug Monitoring of Clozapine** POSTER
C. Lin, Y. Huang, C. Lee, Y. Huang. *Chang Gung Memorial Hospital, Taoyuan, Taiwan*

# SCIENTIFIC POSTER SESSIONS

## ALL DAY | 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.*

### ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-001 No Blood, No Pain, Yes Gain**

B. D. Andreguetto[1], J. Martins[2], V. Pereira Ferreira[2], M. de Moraes Cardoso[2], G. Marques Florencio[2], R. C. Pozeti[1], G. Dolci Mendes[1], J. M. Ferreira Antunes Neto[3]. *[1]Vital Brazil Lab, Campinas-SP, Brazil, [2]Nanotimize, Itapira-SP, Brazil, [3]Faculdade de Tecnologia de Itapira - FATEC, Itapira-SP, Brazil*

**B-002 How Much RHIG Does This Patient Need?**

C. A. Aronson[1], N. Roggeman[2]. *[1]ACL Labs/ Advocate Hospitals, Rosemont, IL, [2]Advocate Lutheran General Hospital, Park Ridge, IL*

**B-003 Evaluation of Burosumab Interference in Intact and C-terminal FGF23 Immunoassays**

S. Ashrafzadeh-kian[1], J. Bornhorst[1], T. Srivastava[2], U. Garg[3], A. Algeciras-Schimnich[1]. *[1]Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN, [2]Department of Nephrology Children's Mercy Hospital, Kansas City, MO, [3]Department of Pathology & Laboratory Medicine, Children's Mercy Kansas City, Kansas City, MO*

**B-004 LC-MS-MS-Based Lipidomic Profiling Reveals Altered Concentrations of Bioactive Eicosanoids in Pregnant Women with HIV Exposed to Combination Antiretroviral Therapy**

K. Balogun[1], L. Balmert[2], J. Jao[2], S. Sun[2], R. Bazinet[3], L. Serghides[4]. *[1]Saskatchewan Health Authority and University of Saskatchewan, Saskatoon, SK, Canada, [2]Northwestern University, Chicago, IL, [3]University of Toronto, Toronto, ON, Canada, [4]University Health Network, Toronto, ON, Canada*

**B-005 Analytical and Clinical Performance of Two Point-of-Care Rapid Antibody Assays for SARS-CoV-2**

B. Chakraborty[1], S. Nath[2], S. Deb[2], A. Baruah[1], P. Bhattacharjee[2], M. Paul[2], R. A. Mohan[2], S. Dutta[2], M. A. Barbhuiya[3]. *[1]Foundation for Advancement of Essential Diagnostics, Guwahati, Assam, India, [2]Molecular Biology Division, Dibascan Diagnostic Centre Pvt. Ltd, Silchar, Assam, India, [3]Department of Pathology, UMass Chan Medical School-Baystate, Springfield, MA*

**B-006 Monitoring the Stability of Biological Samples Detected for SARS-CoV-2 RNA After 12 Months at -20°C Through Cycle Threshold (CT) Value Comparisons**

F. A. Moral[1], M. F. Barbosa[1], G. A. Pereira[1], E. F. Barbosa[1], H. G. Pereira[1], A. P. Amancio[1], T. M. Moral[1], L. C. Andrade[1], O. S. Dias Neto[1], A. P. Barbosa[2]. *[1]Laboratorio Saude, Goiania-Goias, Brazil, [2]Instituto de Patologia Tropical e Saude Publica-UFG, Goiania-Goias, Brazil*

**B-007 Validation of a Real-Time PCR Methodology for SARS-Cov-2 Detection at Laboratory Saude, Goiania, Brasil**

F. F. Moral[1], M. F. Barbosa[1], G. S. Pereira[1], E. F. Barbosa[1], H. S. Pereira[1], T. P. Moral[1], A. P. Barbosa[2]. *[1]Laboratorio Saude, Goiania-Goias, Brazil, [2]Instituto de Patologia Tropical e Saude Publica-UFG, Goiania-Goias, Brazil*

**B-008 The Lumipulse® G ß-Amyloid Ratio (1-42/1-40): A Fully Automated Method That Combines CSF Concentrations of Lumipulse G ß-Amyloid 1-42 and Lumipulse G ß-Amyloid 1-40 into a Numerical Ratio**

N. Benina, R. Esquivel, A. Calabro, S. Gannon, F. De Simone, M. Castellana, M. Urbanski, J. Latham, K. Martin, S. Dolan, R. Radwan, D. Dickson. *Fujirebio Diagnostics Inc, Malvern, PA*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-009 Validation of a Rapid and Sensitive Method for the Determination of Cotinine and Trans-3'-Hydroxycotinine in Serum by LC-MS/MS**

J. Ye, M. J. Bennett, D. W. Kinniburgh. *Alberta Centre for Toxicology, University of Calgary, Calgary, AB, Canada*

**B-010 Development of a Standardized Whole-blood Interferon Gamma Release Assay on *VIDAS*® to Detect SARS-CoV-2 Specific T-cells**

S. Daniel[1], X. Lacoux[1], S. Ducrot[1], K. Brengel-Pesce[2], C. Compagnon[2], N. Renard[1], F. Raymond[1], S. Touillet-Assant[2], L. Zitvogel[3], F. Berthier[1]. *[1]bioMérieux- R&D Immunoassays, Marcy l'étoile, France, [2]Joint Research Unit Civils Hospices of Lyon-bioMérieux, Hospices Civils de Lyon, Lyon Sud Hospital, Pierre-Bénite, France, [3]Gustave Roussy- ClinicObiome; INSERM U1015, Equipe Labellisée - Ligue Nationale contre le Cancer; Center of Clinical Investigations in Biotherapies of Cancer (CICBT) 1428; Villejuif and Université Paris-Saclay, Le Kremlin Bicêtre, France*

**B-011 Performance of the FibroTest-ActiTest in a Single Analytical Platform for a Simplified Testing Workflow in a Clinical Laboratory**

K. M. Bowers, Y. Zheng, D. Payto, R. Giles, E. Reineks, J. Colón-Franco. *Cleveland Clinic, Cleveland, OH*

**B-012 Performance Evaluation of the Second Generation CALiaGold®, a New Immunoturbidimetric Test for the Quantification of Human Calprotectin in Stool**

S. Brambilla[1], C. De Cunto[1], A. Leuci[2], G. Grammatico[2], C. Roveta[2], F. Ferrara[2], M. Pirovano[1], F. Magro[1]. *[1]Sentinel CH. SpA, Milan, Italy, [2]CDI Centro Diagnostico Italiano SpA, Milan, Italy*

**B-013 Assay Migration Studies on the Beckman Coulter DxI 9000 Access Immunoassay Analyzer**

R. A. Lareau[1], J. Mah[1], N. Boymatov[1], T. Her[1], T. R. Thompson[1], J. Thao[1], L. Pearson[1], A. Bagley[1], B. A. Bolstad[1], L. M. Pearson[1], K. D. Walt[1], D. Lovett[1], B. D. Bilyeu[1], D. Anderson[1], M. Kanow[1], H. Jia[1], M. Quin[1], M. Szabo[1], C. R. Knutson[1], F. S. Apple[2], R. H. Christenson[3], Z. Bostanian[4], W. D. Nelson[1], C. M. Carlson[1], M. D. Holland[1]. *[1]Beckman Coulter, Chaska, MN, [2]Hennepin Healthcare Research Institute, Minneapolis, MN, [3]University of Maryland Medical Center, Baltimore, MD, [4]Research & Development Institute, Van Nuys, CA*

**B-014 Performance Evaluation & Relevance of AI 100 Artificial Intelligence System for Image Based Analysis of Peripheral Blood Smears at a Tertiary Care Oncology Centre**

P. CHAVAN[1], S. PG[2], V. Bhat[2], R. Ethirajan[3], S. H. Karve[3], M. Tiwari[2], U. Gosavi[2], P. Gangakhedkar[2], S. Mhatre[2], S. Kumar[2], S. Naganna[3]. *[1]ACTREC-TATA MEMORIAL CENTRE, Navi Mumbai, India, [2]ACTREC-Tata Memorial Centre, Navi Mumbai, India, [3]Sigtuple, Bengaluru, India*

**B-015 Performance Evaluation of Abbott Neuron-Specific Enolase (NSE) Assay on Alinity and ARCHITECT Systems**

C. Setthaudom[1], C. Chen[2], S. Buahom[1], A. Uamkhyan[1], A. Samutpong[1]. *[1]Department of Pathology, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand, [2]Scientific Affairs, Abbott Laboratories, Singapore, Singapore*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-016 Assessing Cardiac Troponin I Recovery in Blood Collections from Normal Healthy Individuals**

R. H. Christenson[1], N. Hoti[1], K. E. Mullins[1], M. S. Lowenthal[2], R. C. Payne[3], E. Pickett[1], J. D. McNair[1], S. Donald[1], S. Duh[1]. *[1]University of Maryland School of Medicine, Baltimore, MD, [2]National Institute of Standards and Technology, Gaithersburg, MD, [3]Siemens Healthineers, Tarrytown, NY*

**B-017 Confidence in your Calibrators: Metrologically Traceable Calibrators and Quality Controls for the LC-MS Analysis of Steroid Hormones**

D. Foley[1], R. Wardle[1], N. Breen[2], P. Rossiter[2], L. Davey[2], J. Clarke[3], L. Calton[1]. *[1]Waters Corporation, Wilmslow, United Kingdom, [2]Waters Technologies Ireland Ltd, Drinagh, Ireland, [3]Waters Corporation, Milford, MA*

**B-018 Comparison of Two NT- ProBNP Assays**

D. Daghfal[1], R. Inzitarri[2], K. McAuley[3], A. McDermott[2], P. Doran[2]. *[1]Abbott Laboratories, Lake Forest, IL, [2]University College Dublin-School of Medicine, Dublin, Ireland, [3]UCD-School of Medicine, Dublin, Ireland*

**B-019 Method Comparison between the Glucose Isotope Dilution Gas Chromatography-Mass Spectrometry Reference Measurement Procedure and Point of Care Testing (POCT) Devices**

K. Dahya, F. Pokuah, O. Glogovsky, S. Taylor, U. Danilenko, H. W. Vesper. *Centers for Disease Control and Prevention, Atlanta, GA*

**B-020 Development of Routine Serum Free Thyroxine Assay Based on Equilibrium Dialysis ID-LC/MS/MS Procedure**

L. Zhang, A. Ribera, Z. D'Zio, O. Sugahara, C. Tse, U. Danilenko, H. W. Hubert W. Vesper. *CDC, Atlanta, GA*

**B-021 Anti-SAE1 Antibody in the Diagnosis of Paraneoplasic Dermatomyositis**

M. T. de Haro Romero, P. Montes Ramos, J. Villa Suárez, M. González Cejudo, M. López Vélez, T. de Haro Muñoz. *Hospital Universitario Clínico San Cecilio, Granada, Spain*

**B-022 Cell Counting in Biological Fluids: Comparison of Two Automated Methods**

C. A. Garzón, M. Molina Zayas, F. Rodríguez Palomo, M. del Señor López, T. de Haro Muñoz. *Hospital Universitario Clínico San Cecilio, Granada, Spain*

**B-023 Desorption Electrospray Ionization Mass Spectrometry Imaging as a Tool for Preoperative Classification of Thyroid Nodules**

AACC ACADEMY

R. DeHoog[1], M. Lin[2], R. Huang[1], J. Suliburk[1], L. Eberlin[1]. *[1]Baylor College of Medicine, Houston, TX, [2]University of Texas at Austin, Austin, TX*

**B-024 Analytical Development, Validation, and Pediatric CALIPER Reference Interval Establishment for a LC-MS/MS High Sensitivity Estradiol Method in Serum Without Derivatization**

A. Di Meo[1], M. Yazdanpanah[2], V. Higgins[1], M. Nichols[1], M. Bohn[1], A. Tan[2], S. Zainab[2], L. Sepiashvili[2], K. Adeli[2]. *[1]Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, ON, Canada, [2]Department of Paediatric Laboratory Medicine, The Hospital for Sick Children, Toronto, ON, Canada*

**B-025 Diagnostic Evaluation of COVID-19 Infection Using Saliva-Based Rapid Antigen Test**

I. Diawara, C. Nejjari, S. Ahid. *Mohammed VI University of Health Sciences, Casablanca, Morocco*

# SCIENTIFIC POSTER SESSIONS

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## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-026 Pipeline for Rapid Autoantibody Biomarker Discovery and Development using Protein Microarray and Luminex Immunobead Platforms: Application-Companion Diagnostics for Lung Cancer Screening**

C. E Auger[1], I. Tarhoni[1], H. Moudgalya[1], C. Fhied[1], D. Gerard[1], T. Hulett[2], M. Vargas[2], S. Hu[2], J. Borgia[1]. *[1]Rush University, Chicago, IL, [2]CDI Laboratories, Inc., Baltimore, MD*

**B-027 A Comparative Study Between Immunoturbidimetry & Chemiluminescence for Measuring Urinary Albumin**

O. Elgaddar, E. Elzein, R. Al Sharkawy, A. Zaki. *Medical Research Institute - Alexandria University, Alexandria, Egypt*

**B-028 Performance Evaluation of the Newly Developed N Latex aTNFα Reagent for Quantification of the TNFα Inhibitors Adalimumab, Infliximab, and Etanercept Using Automated Siemens Healthineers Immunonephelometry Systems**

C. Freidel, L. Müller, E. Weisspflug, C. Schelp. *Siemens Healthcare Diagnostics Products GmbH, Marburg, Germany*

**B-029 Validation of a Radioimmunoassay Kit for the Specific and Reproducible Measurement of Oxytocin in Alternative Matrices**

K. Gerred, A. Kapoor. *University of Wisconsin-Madison, Madison, WI*

**B-030 Simultaneous Determination of Pterin Biosynthesis and Regeneration Pathway Metabolites by LC-MS/MS in Serum**

G. Göksu Gürsu, M. E. Mavis, M. Balcı, H. Yılmaz. *SEM Laboratuar Cihazları Pazarlama San. ve Tic. A.S., Istanbul, Turkey*

**B-031 Evaluation of the Buhlmann Anti-MAG (Myelin Associated Glycoprotein) Autoantibodies ELISA for Distal Acquired Demyelinating Symmetric Neuropathy**

A. Gorsh, D. Dubey, C. Klein, M. Mauermann, S. Shelly, J. R. Mills. *Mayo Clinic, Rochester, MN*

**B-032 Evaluation of a Fully-automated Random-access LC-MS/MS Platform as a Standalone Clinical Analyzer**

P. P. Gqamana, J. M. McMaster, S. J. Daley, D. Bannister, Y. V. Zhang. *University of Rochester Medical Center, Rochester, NY*

**B-033 Correlation Between Plasma Sarcosine and Erythrocyte Folate: Analysis of a Retrospective Cohort**

C. KLOS, E. GERNEZ, T. RAMON, M. JONCQUEL, M. BOUT, I. KIM, M. DEFEVRE, A. KERCKHOVE, L. GEORGE, A. DESSEIN, M. GILLERON, D. DOBBELAERE, C. DOUILLARD, G. GRZYCH. *CHU Lille, Lille, France*

**B-034 Direct Quantitation of Phosphatidylethanol (PEth) in Volume-Controlled Dried Blood Spots using the Fully Automated Transcend DSX-1 System**

J. Guo[1], R. J. Gibson[1], S. Samra[1], K. Hassell[1], T. Correa[1], E. Goucher[1], E. Lauer[2], J. Déglon[3], E. Ödman[3]. *[1]Thermo Fisher Scientific, San Jose, CA, [2]Geneva University Hospitals, Geneva, Switzerland, [3]DBS System SA, Gland, Switzerland*

**B-035 A Clinical Research Method for Low Level Quantification of Eight Vitamin D Metabolites**

R. Wardle[1], P. Harrsch[2], L. Calton[1]. *[1]Waters Corporation, Wilmslow, United Kingdom, [2]Waters Corporation, Milford, MA*

# SCIENTIFIC POSTER SESSIONS

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## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-036 Bioanalytical Solid-Phase Microextraction (BioSPME) for Sample Preparation for Clinically Relevant Hormone Analytes and Correlation to Externally Validated Methods**

M. Ross[1], D. Mendivelso[1], O. Shimelis[1], N. Hauser[2], J. Walters[3], J. Walters[3]. *[1]MilliporeSigma, Bellefonte, PA, [2]MilliporeSigma, Laramie, WY, [3]MilliporeSigma, St. Louis, MO*

**B-037 Measurement of HbA1c in Packed Red Blood Cells Using the Abbott Hemoglobin A1c Assay**

W. G. John[1], P. Henriques[2], E. English[3], E. Miler[1], M. Berman[4]. *[1]Norfolk and Norwich University Hospital, Norwich, United Kingdom, [2]James Paget University Hospital, Great Yarmouth, United Kingdom, [3]Faculty of Medicine and Health, University of East Anglia, Norwich, United Kingdom, [4]Abbott Laboratories, Abbott Core Diagnostic, Abbott Park,, Chicago, IL*

**B-038 Development of the hCG+ß Immunoassay Standardized to the 6th WHO International Standard for hCG for Abbott's Alinity i® analyzer**

K. M. Holman, V. Rajagopalan, V. A. Salbilla, G. A. Sumerdon, S. E. Brophy. *Abbott Laboratories, Abbott Park, IL*

**B-039 Validation of the ProteinSimple Ella Serum Mesothelin Assay**

S. M. Hutcherson, S. Doddi, K. L. Thoren, K. Murata. *Memorial Sloan Kettering Cancer Center, New York, NY*

**B-040 Development of Liquid Chromatography-Tandem Mass Spectrometry Method for Quantification of Free 25-Hydroxyvitamin $D_3$**

N. Ishimine[1], S. Wu[1], R. Ohta[2], K. Takahashi[3], M. Takiwaki[3], M. Tozuka[4], T. Uehara[5]. *[1]Shinshu University Hospital, Nagano, Japan, [2]Shinshu University School of Medicine, Nagano, Japan, [3]JEOL Ltd., Tokyo, Japan, [4]Life Science Research Center, Nagano Children's Hospital, Nagano, Japan, [5]Department of Laboratory Medicine, Shinshu University School of Medicine, Nagano, Japan*

**B-041 Comparison of Two Recently Formulated Low-Density Lipoprotein-Cholesterol Calculations With Direct Measurement in Patients With Moderate to Severe Hypertriglyceridemia**

S. Islam, B. Osa-Andrews, I. Hashim, P. M. Jones, A. R. Muthukumar, J. Cao. *UT Southwestern Medical Center, Dallas, TX*

**B-042 Bias Implications When Performing Anti-dsDNA Method Comparisons**

V. E. Joy, J. Murphy, J. Yancon, H. Homburger. *Thermo Fisher Scientific, Portage, MI*

**B-043 A Novel Rapid Antibody Based Electrochemical Biosensor Assay for SARSCoV2 Detection**

K. Karumanchi[1], S. Shourideh-Ziabari[2], M. Rose[2], C. Hendrix[2], S. Rupprecht[2], E. Barrows[2]. *[1]Persown Inc., Jacksonville, FL, [2]Persown Inc, Jacksonville, FL*

**B-044 Method Development and Validation for Simultaneous Determination of Glucocorticoids on Liquid Chromatography Tandem Mass Spectrometry**

U. B. Khalid[1], H. M. Batool[2], M. Batool[2]. *[1]AFIP, Rawalpindi, Pakistan, [2]School of Chemistry, University of Punjab, Lahore, Pakistan*

**B-045 Method Development and Validation of Methylmalonic Acid by Liquid Chromatography Tandem Mass Spectrometry**

U. B. Khalid, H. Awais. *AFIP, Rawalpindi, Pakistan*

# SCIENTIFIC POSTER SESSIONS

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## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-046 Metabolic Characterization of Barth Syndrome Cellular Model**
J. Kodger, Y. Sandlers, A. Patil, Y. Xu. *Cleveland State University, Cleveland, OH*

**B-047 Serum MAGEA3 Is a Potential Prognostic Marker for Prostate Cancer**
D. Kong[1], J. Yom[1], T. Qu[1], Z. Guo[1], R. Gonzalez[1], W. Fu[1], E. Zewdu[1], A. Tran[1], X. Hu[2], Q. Ren[2]. *[1]OriGene Technologies, Inc., Rockville, MD, [2]OriGene Wuxi Biotechnology Co., Ltd, Wuxi, China*

**B-048 Analytical and Clinical Performance of Plasma p-tau181 Assay on the High-sensitivity Simoa HD-X Platform**
P. kumar[1], M. Encarnacion[2], A. Cruz[2], A. Mousavi[2], A. Mammel[3], M. Zaharik[1], G. Hsiung[4], H. Frykman[5]. *[1]BC Neuroimmunology lab, Vancouver, BC, Canada, [2]BC Neuroimmunology lab, vancouver, BC, Canada, [3]Neurocode lab USA, Bellingham, BC, [4]Department of Medicine, University of British Columbia, Vancouver, BC, Canada, [5]BC Neuroimmunology lab, University of British Columbia, Vancouver, BC, Canada*

**B-049 Comparison of Diagnostic Performance of Combined CSF Biomarkers With Plasma P-Tau181 Concentrations in Predicting Clinically Diagnosed Alzheimer's Disease** AACC ACADEMY
P. kumar[1], M. Encarnacion[2], A. Mousavi[2], G. Hsiung[3], H. Frykman[4]. *[1]BC Neuroimmunology lab, Vancouver, BC, Canada, [2]BC Neuroimmunology lab, vancouver, BC, Canada, [3]Department of Medicine, University of British Columbia, Vancouver, BC, Canada, [4]BC Neuroimmunology lab, Department of Medicine, University of British Columbia, Vancouver, BC, Canada*

**B-050 Alanine-glycine Ratio is a Novel Predictive Biomarker for Type 2 Diabetes Mellitus: The Korean Genome and Epidemiologic Cohort Study**
K. Lee, J. Rim, Y. Lee, S. Lee, J. Lim, J. Kim. *Yonsei University College of Medicine, Seoul, Korea, Republic of*

**B-051 Performance Evaluation of Hematology Parameters in 3D Quantitative Phase Imaging-based Individual Blood Cell Analysis**
S. Lee[1], H. Kang[1], M. Kim[1], E. Go[2], S. Oh[1], S. Yang[1], E. Choi[2], J. Kim[2], Y. Park[1]. *[1]Tomocube Inc., Daejeon, Korea, Republic of, [2]Chungnam National University Hospital, Daejeon, Korea, Republic of*

**B-052 Performance Evaluation of an Urine Dipstick Analyzer CYBOW R-600S**
S. Lee, W. Kim, H. Choi, S. Yu, M. Park, J. Lee, C. L. Chang. *Pusan National Univ. Yangsan Hospital, Yangsan, Korea, Republic of*

**B-053 Deep Single-cell Type Proteome Profiling of Mouse Brain from Alzheimer's Disease Model by Nano-scale Tandem Mass Tag Mass Spectrometry** AACC ACADEMY
D. Liu, K. Yu, J. Peng. *St. Jude Children's Research Hospital, Memphis, TN*

**B-054 Neuron Specific Enolase in Serum and CSF using the BRAHMS KRYPTOR Analyzer**
J. Lu[1], S. La'ulu[1], F. Chiang[2], K. Doyle[3]. *[1]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, [2]ARUP Laboratories, Salt Lake City, UT, [3]University of Utah Health, Department of Pathology, Salt Lake City, UT*

**B-055 Effect of Automated Lot Calibration of Selected Clinical Chemistry Assays on cobas pure and cobas pro Integrated Solutions**
V. Luzzi[1], A. Allen[1], R. L. Smith[1], C. Griego-Fullbright[1], M. Umlauft[2], K. Klopprogge[3], J. Furrer[4]. *[1]TriCore Research Institute, Albuquerque, NM, [2]Roche Diagnostics GmbH, Penzberg, Germany, [3]Roche Diagnostics GmbH, Mannheim, Germany, [4]Roche Diagnostics International Ltd, Rotkreuz, Switzerland*

# SCIENTIFIC POSTER SESSIONS

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## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-056 NOVEOS™ Mechanical Reliability, Precision and Clinical Performance vs ImmunoCAP™ 250 and IMMULITE™ 2000**

V. I. Luzzi[1], D. Grenache[2], C. Griego-Fullbright[1], G. Foster[1], N. Ornelas[1]. *[1]Tricore Research Institute, Albuquerque, NM, [2]Tricore Reference Laboratories, Albuquerque, NM*

**B-057 The Impact of Circulating Hydrogen Sulfide on the Risk of Major Adverse Cardiovascular Events**

H. Malaeb[1], V. Gogonea[2], Z. Wang[1], S. Hazen[1]. *[1]Lerner Research Institute, Cleveland, OH, [2]Cleveland State University, Cleveland, OH*

**B-058 Analytical Characterization of Diagnostic Assays for Atypical Respiratory Infections Caused by Mycoplasma pneumoniae and Chlamydophila pneumoniae with the use of LAMP technology**

M. Malodobra-Mazur, M. Czosnykowska-Lukacka, I. Pielka, M. Tokarski. *Genomtec, Wroclaw, Poland*

**B-059 Performance of a C2 Assay for EDTA Plasma and Serum on the Binding Site Optilite Analyser**

D. J. Matters, D. McEntee, F. Murphy, I. Bell, M. Assi, S. Ramsay, A. Loughlin, J. Fisher, M. McCusker, S. Harding. *The Binding Site Group Ltd, Birmingham, United Kingdom*

**B-060 Performance Evaluation of the High-sensitivity ADVIA Centaur and Atellica IM Serum Neurofilament Light Chain (sNfL) Assay**

E. Merabet[1], J. Meenan[2]. *[1]Siemens Healthineers, Tarrytown, NY, [2]Siemens Healthineers, Newark, DE*

**B-061 Spectroscopic and Computational Investigation of Fe-Bound and Co-Substituted C93G/Y157F Cysteine Dioxygenase**

J. Miller, C. Aschenbrener, T. Brunold, B. Fox. *University of Wisconsin-Madison, Madison, WI*

**B-062 Evaluation of a Lipase Open Channel Assay Using the Abbott Alinity c Analyzers**

A. H. Nguyen Sorenson[1], J. D. Wilson[2], S. L. La'ulu[1], L. Wilson[2], B. A. Young[3], L. N. Pearson[3]. *[1]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, [2]ARUP Laboratories, Salt Lake City, UT, [3]University of Utah Health, Department of Pathology, Salt Lake City, UT*

**B-063 The OnS!te® Plus— A New Concept of Portable Mini Laboratory**

J. Noval Padillo[1], T. Vilariño[1], L. De Cabo[2], J. Sabaris[2], J. Guerrero[1]. *[1]University Virgen del Rocío Hospital, Sevilla, Spain, [2]awepharmagroup, Barcelona, Spain*

**B-064 Comparison of the Same Free Light Chain Assay on the Optilite Versus cobas Instrument**

C. L. Omosule[1], K. G. Hock[1], C. Ballman[1], A. Scalpati[2], A. Brants[2], C. W. Farnsworth[1]. *[1]Washington University in St. Louis, St. Louis, MO, [2]The Binding Site, San Diego, CA*

**B-065 Evaluation of Neonatal Blood Collection Protocols on Blood Gas Parameters**

A. Phelps, E. Weber, E. Schuler. *University of Kentucky, Lexington, KY*

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## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-066 Analytical Performance Comparison of COVID-19 Diagnostic Methods During the Acute Phase**

A. C. Bandeira, A. H. Utiyama, R. H. Vanderlinde, C. S. da Silva, J. T. Oliveira, D. R. Ramadan, S. Tufik. *Associação Fundo de Incentivo à Pesquisa, São Paulo, Brazil*

**B-067 Analytical Performance Evaluation of the Next Generation Clinical Chemistry Assays on the Architect System**

A. Ren[1], X. Wang[2], P. Cheng[2], M. I. Berman[3], V. Kulasingam[2]. *[1]University of Toronto, Toronto, ON, Canada, [2]University Health Network, Toronto, ON, Canada, [3]Abbott Laboratories, Abbott Park, IL*

**B-068 Reproducibility of a Volumetric Absorption Device for Both Drugs and Endogenous Compounds in Whole Blood**

M. Roberts. *Chem Quant Analytical Solutions, Apex, NC*

**B-069 Quantitative Analysis of Ethanolamine Plasmalogen Species in Red Blood Cells Using Liquid Chromatography Tandem Mass Spectrometry**

AACC ACADEMY

D. J. Ronnow[1], L. Duque Lasio[2], E. Kish-Trier[1], T. Yuzyuk[2], I. De Biase[2]. *[1]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, [2]Department of Pathology, University of Utah School of Medicine, Salt Lake City, UT*

**B-070 Comparison of Three Automated Immunoassays for the Detection of Anti-cardiolipin and Anti-beta 2 Glycoprotein I Antibodies according to the Different Cut-off Values**

H. Ryu[1], H. Lee[2], J. Kong[1], H. Lee[3], S. Yoo[3], A. Choi[3], E. Oh[3]. *[1]Samkwang Medical Laboratories, Seoul, Korea, Republic of, [2]Department of Laboratory Medicine, Catholic Kwandong University International St. Mary's Hospital, Incheon, Korea, Republic of, [3]Department of Laboratory Medicine, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea, Republic of*

**B-071 Performance Evaluation of the Abbott BinaxNOW® G6PD Test**

A. Salajova[1], C. Guardado Salazar[2], M. Carayannopoulos[2]. *[1]Rutgers University, New Brunswick, NJ, [2]Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ*

**B-072 Method Development and Validation of Serum Testosterone on a High-Resolution Orbital Ion Mass Spectrometer**

T. Sobolevskii, V. Samara, B. D. Ahrens. *UCLA, Los Angeles, CA*

**B-073 Validation of Neutrophil Gelatinase Associated Lipocalin (NGAL), a Urinary Biomarker for Acute Kidney Injury, on Roche cobas c502 Chemistry Analyzer**

V. Samara. *UCLA, Los Angeles, CA*

**B-074 A Fully Automated Quantification Method of microRNA Using Bioluminescent Enzyme Immunoassay**

Y. Nagatake, M. Sato, Y. Mouri, N. Tomita. *Eiken Chemical Co., Ltd., Tochigi, Japan*

**B-075 Diagnostic Markers of Ectopic Pregnancy**

S. Selvarajan[1], J. Ramalingam[2]. *[1]Sri Ramachandra Institute of Higher Education & Research, Chennai, India, [2]SRIHER, Chennai, India*

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## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-076 Fixing Activated Basophils for Prolonged Novel Basophil Activation Test (BAT) Read-out in Allergy Diagnostics**

D. Vogt[1], A. Malone[1], C. Shaw[2], M. Romano[1], M. Gerspach[1], N. Beck[1], M. Schneider[1], T. Schuster[1]. *[1]BÜHLMANN Laboratories AG, Schönenbuch, Switzerland, [2]BUHLMANN Diagnostics Corp, Amherst, NH*

**B-077 Serum Levels of Infliximab and Adalimumab Biosimilars Can Be Measured Equivalently to Original Drugs By Quantum Blue Rapid Testing as Tool For Therapeutic Drug Monitoring**

L. Anchling[1], J. Jourdan[1], C. Moniz[1], C. Shaw[2], T. Schuster[1]. *[1]BÜHLMANN Laboratories AG, Schönenbuch, Switzerland, [2]BUHLMANN Diagnostics Corp, Amherst, NH*

**B-078 Standardization of Quantum Blue® Rapid TDM Assays with WHO International Standards For Adalimumab and Infliximab**

J. Afonso[1], B. Ricken[1], T. Schuster[1], D. Guschin[1], C. Shaw[2], M. Schneider[1]. *[1]BÜHLMANN Laboratories AG, Schönenbuch, Switzerland, [2]BUHLMANN Diagnostics Corp, Amherst, NH*

**B-079 Laboratory Validation of a Neurofilament Light Chain (NfL) Clinical Trial Assay for Applications in Neurological Diseases Testing Services**

A. Shields. *Siemens, Berkeley, CA*

**B-080 Middle-up Approach for Therapeutic Monoclonal Antibodies (t-mAbs) Monitoring in Human Serum using LC-HRAM-MS**

Y. E. Song, S. N. Samra. *Thermo Fisher Scientific, San Jose, CA*

**B-081 Notes Regarding Dilutions and Quantitative Results for the Roche Elecsys Anti-SARS-CoV-2 S Antibody Assay**

E. D. Flerova, D. F. Stickle. *Jefferson University Hospital, Philadelphia, PA*

**B-082 Development and Validation of an ICPMS Method for Trace Metal Analysis of Urine on NexION2000 ICPMS**

J. Tee, C. Tan, M. Lim, W. Ng, C. Yeo. *Singapore General Hospital, Singapore, Singapore*

**B-083 Development of Derivatization-free ID-LC/MS/MS Method for Simultaneous Measurement of Human Serum Monosaccharides**

C. Y. Tse, L. Zhang, K. Dahya, F. Pokuah, O. Sugahara, D. Uliana, H. Vesper. *Centers for Disease Control and Prevention, Atlanta, GA*

**B-084 Naphthalene-Functionalized Macrocycle as Selective, Fluorescent Self-Quenching Sensor for Kynurenic Acid**

A. Karle[1], K. Twum[1], N. Sabbagh[1], A. Haddad[1], M. Taimoory[2], M. M. Szczęśniak[1], E. Trivedi[3], J. Trant[4], N. Beyeh[1]. *[1]Oakland University, Rochester, MI, [2]University of Michigan, Ann Arbor, MI, [3]Oakland Univeristy, Rochester, MI, [4]University of Windsor, Windsor, ON, Canada*

**B-085 Cortisol Extended Measuring Interval Validation Study**

M. Ulas, D. Zenezan, A. I. Khan. *Temple University Hospital, Department of Pathology and Laboratory Medicine, Philadelphia, PA*

# SCIENTIFIC POSTER SESSIONS

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## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-086 Estimation of the Reference Interval for Growth Hormone in Newborns by a New Analytical Method Using Dried Blood Spots**

M. Vidali[1], C. Giavoli[2], C. Vantaggiato[1], C. Orsenigo[1], F. Giacchetti[2], A. Di Modugno[1], F. Napolitano[1], A. Sangiorgio[3], G. Rodari[4], D. Morniroli[4], L. Colombo[5], E. Profka[2], A. Dall'Antonia[6], M. Gianni'[5], M. Arosio[2], F. Mosca[5], F. Ceriotti[1]. *[1]Clinical Chemistry Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy, [2]Endocrinology Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy, [3]University of Milan, International Medical School, Milan, Italy, [4]Department of Clinical Sciences and Community Health, University of Milan, Milan, Italy, [5]Neonatology and Neonatal Intensive Care Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy, [6]University of Milan, Milan, Italy*

**B-087 A Novel Ultrasensitive, High Throughput And Quantitative SARS CoV 2 Neutralizing Antibody Titer Measurement Assay in Dried Blood Spot Samples**

Y. Wang[1], T. Fan[2], Y. Zhang[1], L. Si[2], P. Yin[2], F. Xuan[1]. *[1]SpearBio, Inc., Woburn, MA, [2]Wyss Institute for Biologically Inspired Engineering, Harvard University, Boston, MA*

**B-088 Comparative Evaluation of Different RNA Extraction Methods for the Detection of SARS-CoV-2**

Y. Wang[1], K. Mclndoo[2]. *[1]Inform Diagnostics, Phoenix, AZ, [2]Inform Diagnostics, Inc., Phoenix, AZ*

**B-089 Serum Free Light Chain Quantification Testing: Comparison of Binding Site and Diazyme Methods**

B. M. Whitaker[1], A. H. Wu[2], H. Xu[3], C. Yuan[4], M. Griffiths[4], C. Dou[4], R. J. Bollag[1], G. Singh[1]. *[1]Augusta University Medical Center, Augusta, GA, [2]University of California at San Francisco, San Francisco, CA, [3]Medical College of Georgia, Augusta, GA, [4]Diazyme Laboratories Inc., Poway, CA*

**B-090 A Prospective De-glycosylation Workflow for Reflex Analysis of Suspected Light Chain N-Linked Glycosylation of Paraproteins Identified Using the EXENT® System**

N. Wright[1], H. Giles[2], S. Pasha[1], O. Berlanga[1], S. North[1], G. Pratt[2], G. Jackson[3], A. Spencer[4], R. Sadler[5], L. Campbell[5], G. Wallis[1], S. Harding[1]. *[1]The Binding Site Group Ltd., Birmingham, United Kingdom, [2]University Hospitals Birmingham NHS Foundation Trust, Birmingham, United Kingdom, [3]Newcastle Upon Tyne NHS Foundation Trust, Newcastle, United Kingdom, [4]Monash University, Melbourne, Australia, [5]Oxford University Hospitals NHS Foundation Trust, Oxford, United Kingdom*

**B-091 The Real Time Quaking Induced Conversion (RT-QuIC) Prion Assay Moves Mainstream—Development and Performance Assessment in an International Reference Laboratory**

J. L. Wu[1], D. Shir[1], E. Fatica[1], E. K. Lexvold[1], J. Graff-Radford[1], G. S. Day[2], A. Algeciras-Schimnich[1], J. R. Mills[1]. *[1]Mayo Clinic, Rochester, MN, [2]Mayo Clinic, Jacksonville, FL*

**B-092 Analytical Performance Comparing the Siemens Whole Blood Point-of-Care Atellica VTLi High-Sensitivity Cardiac Troponin I and the Central Laboratory Atellica High-Sensitivity Cardiac Troponin I Assay Concentrations**

K. Xiong-Hang, K. Schulz, A. K. Saenger, F. S. Apple. *Hennepin County Medical Center/Hennepin Healthcare, Minneapolis, MN*

**B-093 Evaluation of Point-of-Care Whole Blood Creatinine Assays and eGFR Concordance against the Abbott Alinity**

R. Gadisseur[1], N. Brabander[1], G. Musso[1], C. Xu[2]. *[1]CHU Liege, Liège, Belgium, [2]Werfen, Bedford, MA*

# SCIENTIFIC POSTER SESSIONS

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## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-094 Automating Sample Extraction for Mass Spectrometry Analysis of Tetrahydrocannabinol Metabolite In Urine**

B. B. Smith[1], B. Pulsipher[1], C. Bankhead[1], S. Young Cook[1], Y. K. Yang[2]. *[1]ARUP Laboratories, Salt Lake City, UT, [2]University of Utah, Salt Lake City, UT*

**B-095 A Dilute-and-Shoot Method for the Determination of THC-COOH and THC-COOH-Glucuronide in Serum by LC-MS/MS**

J. Ye, M. J. Bennett, D. Y. Huang, X. Zhang, A. MacDonald, D. W. Kinniburgh. *University of Calgary, Calgary, AB, Canada*

**B-096 The Determination of Tacrolimus, Sirolimus, and Everolimus in Whole Blood Samples by a sub-1 Minute LC-MS/MS Method**

B. F. Paulo, V. G. Milagres, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

**B-097 Comparison Between an Automated Hematology Analyzer and the Manual Microscope Method for the Analysis Of Leukocyte Populations In Serous Biological Fluids**

J. Guillen Reyes, C. Amor Llamas, M. Molina Fernandez-Posse, G. Bonmati Torres, A. Lopez Delgado, M. Martínez-Novillo Gonzalez. *Hospital Clinico San Carlos, Madrid, Spain*

**B-098 Prognostic Utility of Serum D-Dimer Levels in Chronic Urticaria**

S. Jaswal, M. Bhalla, J. Kaur, S. Gupta. *Government Medical College & Hospital, Chandigarh, India*

**B-099 Comparison Between Flow Cytometry <and> Automated Hematology Analyzer <for> Absolute Lymphocyte Count**

I. C. Dias[1], C. B. Maluf[2], S. G. Xavier[2], P. G. Vidigal[2]. *[1]Graduate Program in Pathology, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, [2]Graduate Program in Pathology, Universidade Federal de Minas Gerais and Department of Laboratory Medicine, School of Medicine, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil*

**B-100 CSF Free Kappa Light Chain for the Diagnosis of Demyelinating Disorders: Experience from a Tertiary Care Center** — POSTER

M. Abid, S. Ahmed, R. Kausar, S. Khan, S. Muneer, I. Siddiqui. *Aga Khan University, Karachi, Pakistan*

**B-101 Evaluation of Immunological Response in Healthcare Professionals Against COVID-19 in Belem PA** — POSTER

M. A. Brazao[1], F. V. Brazao[2], P. B. Cohen[1], G. B. Brazao[3], I. R. Gonçalves[3]. *[1]Lab Ruth Brazao, Belem, Brazil, [2]SBPC/ML, Belem, Brazil, [3]CESUPA, Belem, Brazil*

**B-102 New Detection Technology Based on Fiber Optic Nanogold-Linked Immunosorbent Assay for Rapid Glial Fibrillary Acidic Protein (GFAP) Determination in Stroke Patients** — POSTER

T. Chang[1], Y. Chang[2], C. Wang[3], S. Tang[4], L. Chau[1]. *[1]Center for Nano Bio-Detection, National Chung Cheng University,, Chiayi City, Taiwan, [2]Department of Chemistry and Biochemistry, National Chung Cheng University, Chiayi City, Taiwan, [3]Instant NanoBiosensors Co. Ltd., Taipei City, Taiwan, [4]The Clinical Center for Neuroscience and Behavior, National Taiwan University Hospital, Taipei City, Taiwan*

# SCIENTIFIC POSTER SESSIONS

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## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-104 The Decrease in TSI During The First 6 Months of Treatment for Graves' Disease May Predict Disease Remission?**

POSTER

R. FONTES[1], M. M. Negri[2], D. V. Gomes[3], S. Marui[4], Y. Schrank[3], M. C. Pinheiro[3], A. F. Perozo[3], L. D. Spina[3], P. M. Araujo[3], G. A. Campana[3]. *[1]DASA, RIO DE JANEIRO,RJ, Brazil, [2]Instituto Estadual de Diabetes e Endocrinologia Luiz Capriglione (IEDE), Rio de Janeiro, Brazil, [3]Diagnosticos da America SA (DASA), Rio de Janeiro, Brazil, [4]Diagnosticos da America SA (DASA), São Paulo, Brazil*

**B-105 Thromboelastographic Profile of Covid-19 Patients with Severe Bilateral Pneumonia**

POSTER

J. Montenegro Martínez, D. Nuñez Jurado, I. Rodriguez Martín, J. Guerrero Montávez. *Virgen del Rocío University Hospital, Seville, Spain*

**B-106 Measurement of Glucose-6-Phosphate Dehydrogenase (G6PD) In Packed Red Blood Cells for Patients With Elevated White Blood Cell Counts**

POSTER

J. J. Hunsaker[1], S. L. La'ulu[1], T. M. Snow[1], V. Pandya[2], K. Doyle[2]. *[1]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, [2]University of Utah Health, Department of Pathology, Salt Lake City, UT*

**B-107 Evaluation of the Chemical Composition and Biological Activities of *Chrysophyllum Albidum* Seed Oil for Sustainable Cosmeceutical Applications**

POSTER

O. Atolani[1], R. B. Ibrahim[2], E. T. AREH[1], S. O. Oguntoye[1], M. F. Zubair[1], O. S. Adeyemi[3], O. A. Owolodun[1], S. O. Ibrahim[1], M. T. Islam[4], G. A. Olatunji[1], L. Kambizi[5]. *[1]University of Ilorin, Ilorin, Nigeria, [2]University of Calgary, Calgary, AB, Canada, [3]Landmark University, Omu-Aran, Nigeria, [4]Bangabandhu Sheikh Mujibur Rahman Science and Technology University, GOPALGANJ, Bangladesh, [5]Cape Peninsula University of Technology, Cape Town, South Africa*

**B-108 Modulating Aberrant Phagocytosis in Parkinson's Disease (PD) Using Human PD Macrophages and LRRK2 G2019S PD Models**

POSTER

R. B. Ibrahim[1], D. Qu[2], A. Joselin[1], D. Park[1]. *[1]University of Calgary, Calgary, AB, Canada, [2]University of Ottawa, Ottawa, ON, Canada*

**B-109 Performance Evaluation of Anautomatic Chemiluminescence Immune Platform for SARS-CoV-2 Neutralizing Antibody After Vaccination in the Real World**

POSTER

M. Li, R. Jiang, X. Zhang, X. Dou. *Shenzhen Luohu People's Hospital, Shenzhen, China*

**B-110 A Facile Strategy for Ultracentrifugation-free Enrichment and Quantification of Exosomes**

POSTER

Y. Luo, X. Yu, X. Chen, R. Niu. *Chongqing University, Chongqing, China*

**B-111 DNAzyme Encapsulated Nano-vesicle for Non-Destructive Detection of Exosomal miRNA**

AACC ACADEMY

POSTER

Y. Luo, Z. Sun, X. Chen, J. Jiang. *Chongqing University, Chongqing, China*

**B-112 Single Blind, Prospective, Multicenter Comparison of TSH-Receptor Antibody Immunoassays**

POSTER

M. A. Lupo[1], R. D. Nerenz[2], B. Hatun[3], G. J. Kahaly[3]. *[1]Thyroid & Endocrine Center of Florida, Sarasota, FL, [2]Dartmouth-Hitchcock Medical Center, Lebanon, NH, [3]Johannes Gutenberg University Medical Center, Mainz, Germany*

# SCIENTIFIC POSTER SESSIONS

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## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-113 First Multiparametric Point-of-Care Test for Gluten Related Disorders**
T. Matthias[1], A. Shymanets[2], P. Wusterhausen[1], J. Orth[2]. *[1]AESKU.KIPP Institute, Wendelsheim, Germany, [2]AESKU.GROUP GmbH, Wendelsheim, Germany*
POSTER

**B-114 Development of Internal Standard for Lipoprotein Subclass Analysis Using Dual Detection Gel-Permeation HPLC System**
M. Ogino[1], T. Kameda[1], Y. Mutsuda[1], H. Tanaka[2], J. Takahashi[2], M. Okazaki[1], M. Ai[1], R. Ohkawa[1]. *[1]Tokyo Medical and Dental University, Bunkyo-ku, Japan, [2]Immuno-Biological Laboratories Co., Ltd., Fujioka, Japan*
POSTER

**B-115 Development and Validation of Novel Automatable Assay for Cholesterol Efflux Capacity**
R. Ohkawa[1], Y. Mutsuda[1], Y. Horiuchi[2], T. Kameda[1], M. Tozuka[3]. *[1]Department of Analytical Laboratory Chemistry, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, [2]Department of Clinical Laboratory Technology, Juntendo University, Chiba, Japan, [3]Life Science Research Center, Nagano Children's Hospital, Nagano, Japan*
POSTER

**B-116 Does the Eurachem/CITAC Uncertainty of Qualitative Results Guide Comply with ISO Standards?**
M. Pradella. *Italian Society of Clinical Pathology and Laboratory Medicine, SIPMeL, Castelfranco Veneto (TV), Italy*
POSTER

**B-117 Evaluation of the Sysmex XN-1000 Hematological Analyzer for Cell Counting in Cerebrospinal Fluids**
R. Rubio-Sánchez[1], M. Giménez Blanco[1], M. Esteban de Celis[1], M. Zarate[1], M. Viloria Peñas[1], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen de Valme, Sevilla, Spain, [2]Hospital Universitario Virgen del Rocío, Sevilla, Spain*
POSTER

**B-118 Development of A Highly Sensitive Influenza Test Kit for Fully Automated Analyzer LUMIPULSE G1200 Based on Chemiluminescent Enzyme Immunoassay**
M. Imaizumi, H. Sagi, T. Ohshima, Y. Kitamura, A. Kaneko, S. Yagi, K. Aoyagi. *FUJIREBIO INC., Tokyo, Japan*
POSTER

**B-119 SARS-CoV-2 IgG Analyte in Dried Blood Spot (DBS) Samples Stability for a Commercial Fluoroimmunoassay Test Under Cold Storage and Ultra-Freezing Conditions—A Long-Term Analysis**
J. R. Siqueira, J. M. Silva, B. B. Marques, M. L. Moreira, E. M. Carvalho. *FIOCRUZ, Rio de Janeiro, Brazil*
POSTER

**B-120 Improved Method for Quantification of apoA-I/apoA-II Heterodimer in hHgh-density Lipoprotein**
C. Sun, T. Kameda, A. Ikenaga, R. Ohkawa. *Tokyo Medical and Dental University, Bunkyo-ku, Japan*
POSTER

**B-121 Biomarker for Acute Kidney Injury: Performance Assessment of a Point-of-Care Platform for Proenkephalin Penkid Testing**
K. Szczesna. *SphingoTec GmbH, Hennigsdorf/Berlin, Germany*
POSTER

# SCIENTIFIC POSTER SESSIONS

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## ANALYTICAL TECHNIQUES AND APPLICATIONS

**B-122 Verification of Performance of Assure COVID19 IgG/IgM Rapid Test Device**
P. Sidhu[1], J. Pho[2], H. Ali[3], C. Tomalty[2], U. Uddayasankar[3]. *[1]LifeLabs, Surrey, BC, Canada, [2]LifeLabs, Burnaby, BC, Canada, [3]LifeLabs, Toronto, ON, Canada*
POSTER

**B-123 CA19.9 Spurious Increase in an Oncological Patient: The Eternal Foe**
L. Valiña Amado, A. Regis Perello, J. Terrasa Pons. *Hospital Universitari Son Espases, Palma, Spain*
POSTER

**B-124 Investigation of Very Low-Density Lipoprotein-Triglyceride Hydrolysis Assessment**
T. Yamada, T. Kameda, R. Ohkawa. *Tokyo Medical and Dental University, Bunkyo-ku, Japan*
POSTER

**B-125 Side-by-side Comparison of Two Automated Computer-Assisted Antinuclear Antibody Indirect Immunofluorescence Assay Systems**
J. Meyers[1], S. Terry[1], C. Schmotzer[2], J. Noguez[2], X. S. Zhang[2]. *[1]University Hospitals Cleveland Medical Center, Cleveland, OH, [2]University Hospitals Cleveland Medical Center, Case Western Reserve University, Cleveland, OH*
POSTER

**B-126 Fluorescent Microsphere Intensity Reference Assigned With ERF Values for Quantitative Clinical Flow Cytometry**
Y. Zhang[1], A. W. York[1], P. DeRose[2], E. Welch[1], L. Wang[2]. *[1]Thermo Fisher Scientific, Eugene, OR, [2]National Institute of Standards and Technology, Gaithersburg, MD*
POSTER

## DATA ANALYTICS AND INFORMATICS

**B-127 Enhancing refineR - Improving Performance of Reference Interval Estimation for Skewed Distributions**
T. Ammer[1], A. Schützenmeister[2], H. U. Prokosch[3], M. Rauh[4], J. Zierk[5], C. M. Rank[2]. *[1]Friedrich-Alexander-Universität Erlangen-Nürnberg, Chair of Medical Informatics, Erlangen, Germany; Roche Diagnostics GmbH, Penzberg, Germany, [2]Roche Diagnostics GmbH, Penzberg, Germany, [3]Friedrich-Alexander-Universität Erlangen-Nürnberg, Chair of Medical Informatics, Erlangen, Germany, [4]Universitätsklinikum Erlangen, Department of Pediatrics and Adolescent Medicine, Erlangen, Germany, [5]Universitätsklinikum Erlangen, Department of Pediatrics and Adolescent Medicine, Erlangen, Germany; Universitätsklinkum Erlangen, Center of Medical Information and Communication Technology, Erlangen, Germany*

**B-128 Automation of isolate Whole Genome Sequencing (WGS) to Empower Detection and Surveillance of Healthcare-associated Infections (HAI)**
M. Balamotis, O. Valencia, T. Cheung, H. Kang, R. Kim, A. Lim, K. Hsieh, P. Thwar, R. Khaksar. *Clear Labs, San Carlos, CA*

**B-129 Turnaround Time (TAT) and Presentation of Results in Real Time (Power BI) for the Municipality of Goiania, Brazil in the Fight Against the SARS-CoV-2 Pandemic**
F. F. Moral[1], M. F. Barbosa[1], G. S. Pereira[1], E. F. Barbosa[1], H. S. Pereira[1], L. B. Santos[1], T. P. Moral[1], O. S. Dias Neto[1], A. P. Amancio[1], R. R. Coelho[1], A. M. Lima[1], L. A. Carvalho[1], F. Guadagnino[1], A. P. Barbosa[2]. *[1]Laboratorio Saude, Goiania-Goias, Brazil, [2]Instituto de Patologia Tropical e Saude Publica-UFG, Goiania-Goias, Brazil*

# SCIENTIFIC POSTER SESSIONS

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## DATA ANALYTICS AND INFORMATICS

**B-130 Assessment of a Combined Biomarker-EMR Data Machine Learning Model for Sepsis-3** AACC ACADEMY

A. Bhargava, C. Lopez-Espina, S. Manafirasi, S. Khan, L. Schmalz, A. Nihal, J. Ellman, I. Taneja, B. Reddy, Jr.. *Prenosis, Chicago, IL*

**B-131 Demonstrating Siemens and Roche Near-equivalence of Big Data-derived RCVs of Common Clinical Chemistry Analytes**

G. Cembrowski[1], M. Cervinski[2], Y. Qiu[1], J. Qiu[1], C. McCudden[3]. *[1]University of Alberta, Edmonton, AB, Canada, [2]Geisel School of Medicine at Dartmouth,, Hanover, NH, [3]University of Ottawa, Ottawa, ON, Canada*

**B-132 Assessment of LDL C Calculation Using the Newly Adopted NIH LDL C Equation in Pediatric Population**

K. Chan[1], J. Dickerson[2]. *[1]University of Washington, Seattle, WA, [2]Seattle Children's Hospital, Seattle, WA*

**B-133 Implementation of Alert System for Early Diagnosis of Acute Kidney Injury: Paving the Way for National Public Health Advisory in India**

U. Parekh, B. Das. *Kokilaben Dhirubhai Ambani Hospital & Medical Research Institute, Mumbai, India*

**B-134 The Use of Outlier Relative Marker MoM Ratios (RMMRs) for the Identification of Analytical and Demographic errors in Maternal Serum Screening Risk Calculations**

T. L. Flieth[1], J. A. Bornhorst[1], E. Fatica[2], K. Ness[1], A. Algeciras-Schimnich[1], L. Singh[3]. *[1]Mayo Clinic, Rochester, MN, [2]University of Cincinnati, Cincinnati, OH, [3]St. Mary's College of California, Moraga, CA*

**B-135 Reliability Monitoring. A Practical Example with Elecsys® TroponinT Assay Linearity and Calibration Performed with Two cobas® e-601 for Four Years**

V. M. GENTA, R. Mao, J. T. Francia. *Sentara Virginia Beach General Hospital, Virginia Beach, VA*

**B-136 A Clinical Decision System Using Deep Learning for Accurate and Timely Sepsis Diagnosis Based on Electronic Health Records of Patients in the ICU**

A. Gupta[1], C. Dietrich[2], L. Vallines[2]. *[1]Siemens Healthcare Private Limited, Bangalore, India, [2]Siemens Healthcare GmbH, Erlangen, Germany*

**B-137 A Novel Laboratory-Based IT-Driven Clinical Pathway to Improve Detection of Familial Hypercholesterolemia: the Intelligent Lipid (iLipid) Concept**

L. Hughes[1], C. Ford[1], E. George[2], R. Gama[1]. *[1]Black Country Pathology Services, Wolverhampton, United Kingdom, [2]University Hospitals Birmingham NHS Foundation Trust, Birmingham, United Kingdom*

**B-138 Does Test Method and Antigen Source Impact Anti-Tissue Transglutaminase IgA Assay Performance in Children With Suspected Celiac Disease? A Review of Diagnostic Test Accuracy Studies**

V. Joy[1], M. E. Orme[2], A. Voreck[3], R. Aksouh[4]. *[1]Thermo Fisher Scientific, Portage, MI, [2]ICERA Consulting Ltd, Swindon, United Kingdom, [3]Thermo Fisher Scientific, Phadia GmbH, Freiburg, Germany, [4]Thermo Fisher Scientific, Villebon-sur-Yvette, France*

# SCIENTIFIC POSTER SESSIONS

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## DATA ANALYTICS AND INFORMATICS

**B-139 Understanding the Rheumatoid Arthritis Patient Journey Through the Lens of Real World Data**

V. E. Joy[1], R. Ali[2], T. Borunda Duque[2]. *[1]Thermo Fisher Scientific, Lansdale, PA, [2]Rhodes Group, Albuquerque, NM*

**B-140 An Open Source Software Tool Supports Next Generation Sequencing Performance, Quality Control, and Data Sharing**

B. Lewis Van. *J Michael Consulting, Roswell, GA*

**B-141 Finding Clinical Utility in COVID-19 Serology Testing—A Retrospective Analysis**

J. A. Maggiore, A. T. Harrington, S. E. Kahn. *Loyola University Medical Center, Maywood, IL*

**B-142 Big data Reference Change Value (RCV) Analysis of Calgary and Singapore Serial Patient cTnT Demonstrates Population and Diurnal Variation Dependencies**

Y. Qiu[1], T. C. Aw[2], H. Sadrzadeh[3], A. Tsui[4], G. Cembrowski[5]. *[1]Faculty of Medicine, University of Alberta, Edmonton, AB, Canada, [2]Changi Hospital, Singapore, Singapore, [3]University of Calgary, Calgary, AB, Canada, [4]University of Alberta Hospital, Edmonton, AB, Canada, [5]University of Alberta, Edmonton, AB, Canada*

**B-143 Implementation of a Business Intelligence Dashboard for Monitoring COVID-19 in a Large-scale Laboratory**

A. C. Bandeira, S. P. Biagini, S. Andrade, S. F. Santiago, M. C. de Martino, B. Kasahara, M. V. Vieira, D. R. Ramadan, S. Tufik. *Associação Fundo de Incentivo à Pesquisa, São Paulo, Brazil*

**B-144 Implementing Auto-Verification Algorithms in a Core Clinical Chemistry Section of a Private Reference Lab in India**

D. R. Sanghavi, K. Pimpalgaonkar, S. Bhatia. *SRL Diagnostics, Mumbai, India*

**B-145 Cross-sectional Viral Load Distributions for Early Detection of COVID-19 Transmission Peaks on Campus and in the Community**

M. Sharmin[1], I. Mujawar[1], M. Manivannan[1], R. Martinez[1], H. Wang[1], D. Woo[1], L. Chan[2], E. Sanchez[2], T. Proctor[1], O. Sorel[1], J. Auclair[2], M. Gandhi[1]. *[1]Thermo Fisher Scientific, South San Francisco, CA, [2]Northeastern University, Boston, MA*

**B-146 Reassessment and Revision of Anion Gap Reference Interval at Our Institution: A Study Prompted By Results From Two Recent JALM papers**

A. S. Hrizat, D. F. Stickle. *Jefferson University Hospital, Philadelphia, PA*

**B-147 Time-of-day (TOD) Variation in Interpatient Average Calcium (Ca) Results: Potential Application to Patient-Based Quality Control (PBQC)**

M. Ghafoor, D. F. Stickle. *Jefferson University Hospital, Philadelphia, PA*

**B-148 The Evaluation of Artificial Intelligence Assisted Flow Data Analysis for Diagnosing Immunologic Disorders and Monitoring Immune Status**

T. S. Yeager[1], S. Wang[1], A. Wang[2], G. Fan[1]. *[1]OHSU, Portland, OR, [2]DeepCyto, West Lynn, OR*

**B-149 Respiratory Virus Interactive Panel: Coexistence in Brazil**

F. S. Malta, D. A. Zauli. *Pardini Group, Vespasiano, Brazil*

# SCIENTIFIC POSTER SESSIONS

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## DATA ANALYTICS AND INFORMATICS

**B-150 Detection of Renal Insufficiency with and without Cystatin-C in a Population of Life Insurance Applicants**

S. Rigatti[1], L. R. Johnson[2], R. Stout[2]. *[1]Rigatti Risk Analytics, GLASTONBURY, CT, [2]Clinical Reference Laboratories, Inc., Lenexa, KS*Online-only Display

**B-151 Parathyroid Hormone Reference Interval Adjusted for Age and Gender Using Two Immunometric Assays**

POSTER

R. FONTES[1], M. C. Castelo[2], L. L. Cavalcanti[2], J. S. Filleti[3], C. K. Hirose[3], F. S. Lopes[4], T. C. Veloso[4], M. M. Pinheiro[5], P. M. Araujo[5], Y. Schrank[5], A. F. Perozo[5], D. V. Gomes[5], G. S. de Paiva[3]. *[1]DASA, RIO DE JANEIRO,RJ, Brazil, [2]Diagnosticos da America SA (DASA), Fortaleza, CE, Brazil, [3]Diagnosticos da America SA (DASA), São Paulo, SP, Brazil, [4]Diagnosticos da America SA (DASA), Brasilia, DF, Brazil, [5]Diagnosticos da America SA (DASA), Rio de Janeiro, RJ, Brazil*

**B-152 Free or Total Testosterone? Assessment of Androgens Status in Reproductive Age Females**

POSTER

M. M. Kushnir[1], K. Doyle[2]. *[1]ARUP Laboratories, Salt Lake City, UT, [2]Department of Pathology, University of Utah, Salt Lake City, UT*

**B-153 Comparison of Vitamin D Classification Between Abbott Architect or BioPlex 2200 and Liquid Chromatography Tandem Mass Spectrometry**

POSTER

N. Lashmanova[1], M. Vega[2], M. Tesfazghi[2]. *[1]Rush Univercity Medical Center, Oak Park, IL, [2]Rush University Medical Center, Chicago, IL*

**B-154 Deriving TSH and Thyroid Hormone Reference Intervals By Big Analysis**

POSTER

C. W. Lewis[1], J. L. Gifford[1], J. E. Raizman[2], A. A. Venner[1]. *[1]University of Calgary, Calgary, AB, Canada, [2]University of Alberta, Edmonton, AB, Canada*

**B-155 Easiness of Uncertainty Estimation and use for Quantitative and Qualitative Results According to ISO**

POSTER

M. Pradella. *Italian Society of Clinical Pathology and Laboratory Medicine, SIPMeL, Castelfranco Veneto (TV), Italy*

**B-156 Reference Interval for Fasting Insulin and HOMA-IR Indices in Healthy Adults of Rio de Janeiro**

POSTER

Y. Schrank[1], R. Fontes[2], P. Araújo[2], A. F. Perozo[2], M. F. Pinheiro[2], D. M. Gomes[2]. *[1]DASA - SA, Rio de Janeiro, Brazil, [2]DASA, Rio de Janeiro, Brazil*Online-only Display

**B-157 Development and Verification of Age-Specific Reference Intervals for Serum Methylmalonic Acid Using Population based data Analysis**

POSTER

R. Sharma[1], D. Salazar[1], L. T. Xu[1], E. C. Wong[2], C. Bi[3], M. H. Kroll[3], P. Tanpaiboon[1]. *[1]Quest Diagnostics, San Juan Capistrano, CA, [2]Quest Diagnostics, Chantilly, VA, [3]Quest Diagnostics, Secaucus, NJ*Online-only Display

**B-158 Lipemia Interference in Biochemical Tests of the Latin American Laboratory Bigdata**

POSTER

T. C. Sousa[1], B. S. Santos[2], J. S. Filleti[2], L. L. Cavalcante[3], E. F. Paixão[4], T. P. Rabelo[4], C. M. Ponte[5], M. M. Souza[4], M. G. Castelo[3]. *[1]dasa, Fortaleza, Brazil, [2]DASA, São Paulo, Brazil, [3]DASA, Fortaleza, Brazil, [4]DASA, Recife, Brazil, [5]UFC/DASA, FORTALEZA, Brazil*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## HEMATOLOGY/COAGULATION

**B-159 Time Interval From Hemoglobin Result to Red Blood Cell Transfusion Initiation as a Metric for Patient Impact During a Prolonged Blood Shortage**

B. Bahar[1], M. Delaney[1], E. Gehrie[2]. *[1]Children's National Hospital, Washington, DC, [2]American Red Cross, Washington, DC*

**B-160 Pediatric Reference Interval Establishment for 79 Hematology Parameters on the Mindray BC6800 Plus System in the CALIPER Cohort of Healthy Children and Adolescents**

M. Bohn, S. Wilson, K. Adeli. *The Hospital for Sick Children, Toronto, ON, Canada*

**B-161 Post-Partum HELLP Triggers Complement-Mediated Thrombopathic Microangiopathy**

L. N. Brice, D. Millian. *University of Texas Medical Branch, Galveston, TX*

**B-162 Quality Utilization in Laboratory Testing: Quality Improvement in Disseminated Intravascular Coagulation**

L. N. Brice[1], J. Enderle[2], V. Freeman[2], E. Salazar[2], J. Coviello[1], A. Holmes[1], D. Lynch[1]. *[1]Brooke Army Medical Center, Ft. Sam Houston, TX, [2]University of Texas Medical Branch, Galveston, TX*

**B-163 Coagulation Factor VIII Enhances Degradation of Von Willebrand Factor *il Vivo***

W. Cao[1], N. Yada[1], A. Trask[1], A. Bignotti[1], L. Zheng[1], L. A. George[2], R. M. Camire[2], L. Zheng[1]. *[1]Department of Pathology and Laboratory Medicine, University of Kansas Medical Center, Kansas City, KS, [2]Division of Hematology, Children's Hospital of Philadelphia, Philadelphia, PA*

**B-164 Oxidative Stress Parameters are Related with the Progresssion of Myelodysplastic Syndrome Patients and 5-Azacitidine Treatment**

P. Montes Ramos, T. de Haro Romero, T. Gonzalez Cejudo, M. López Velez, D. Acuña Castroviejo, T. de Haro Muñoz. *Hospital Universitario Clínico San Cecilio, Granada, Spain*

**B-165 Use of Viscoelastic Techniques to Monitor Fibrinolysis in a Patient With Venous Thromboembolism**

S. Delgado Macías[1], M. Morales Santana[2], I. Rodriguez Martin[2], D. Nuñez Jurado[2], J. Guerrero Montavez[2]. *[1]Virgen del Rocio Universitary Hospital, Sevilla, Spain, [2]Vigen del Rocío Universitary Hospital, Sevilla, Spain*

**B-166 Cyclosporine monitoring outcomes in Allogeneic Hematopoietic Stem Cell Transplant Recipients**

S. Dildar, Z. Shariff, T. Sultan Shamsi. *National Institute Of Blood Disease a nd bone Marrow Transplanatation,karachi,pakistan., Karachi, Pakistan*

**B-167 Precision of HemoSonics Quantra® QStat® Cartridge to Determine Coagulation Function and Fibrinolytic Status of Samples Assessed at 3 Locations within a Medical Center**

E. Handel[1], W. Smith[2], C. Wang[2], J. Toffaletti[1]. *[1]Duke University Medical Center, Durham, NC, [2]HemoSonics, LLC, Durham, NC*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## HEMATOLOGY/COAGULATION

**B-168 Validation of Blood Gases and Co-Oximetry Parameters Using the ABL™ 80 Flex Co-Ox Analyzer**
S. Karki, L. Blankenship. *Charles River Laboratory, Ashland, OH*

**B-169 An Algorithm to Predict COVID-19 Positivity Using Hematology Data from the ADVIA 2120i Hematology System**
K. Gupta[1], N. Mitra[1], V. Jones[2], G. Gibbs[3], F. Stelling[4], F. Chaves[4]. *[1]Siemens Healthcare Pvt Ltd, Bengaluru, India, [2]Siemens Healthcare Diagnostics Manufacturing Limited, Dublin, Ireland, [3]Siemens Healthcare Limited, London, United Kingdom, [4]Siemens Healthcare Diagnostics Inc., Tarrytown, NY*

**B-170 Significance of 5-19% Circulating Plasma Cells**
M. Nakashima. *Cleveland Clinic, Cleveland, OH*

**B-171 Evaluation of Hemoglobin Variants on the Abbott Alinity c HbA1c Assay**
J. H. Nichols[1], M. Berman[2], A. Carrillo[2], S. Manning[1]. *[1]Vanderbilt University Medical Center, Nashville, TN, [2]Abbott Laboratories, Abbott Park, IL*

**B-172 Multifunctional Platform for Viscoelastic aPTT and Fluorometric FXa Whole Blood Testing in Near-Patient Settings for Pediatric Patients on Heparin Therapy**
M. Basmajian[1], A. Ullal[1], L. Nichols[1], M. Moser[1], C. Graham[1], S. Adhikari[1], R. Sista[1], S. Emani[2], S. Emani[2], V. Pamula[1]. *[1]Baebies, Inc., Durham, NC, [2]Boston Children's Hospital, Boston, MA*

**B-173 Reticulocyte Hemoglobin Equivalent for Diagnosis of Iron Deficiency and Iron Deficiency Anemia in a Pediatric Population**
I. Poventud-Fuentes, M. Dowlin, T. H. Chong, S. Devaraj, C. V. Curry. *Baylor College of Medicine/Texas Children's Hospital, Houston, TX*

**B-174 Discrepancy of Immature Granulocyte (IG) Counts in Transplant Patients By Automated White Blood Cell (WBC) Differential Analysis of Sysmex XN-10 Analyzer**
V. Samara, N. Ku. *UCLA, Los Angeles, CA*

**B-175 Creating a Drive-Through Emergent Need INR Testing Site**
T. L. Schumann, L. A. Hartman, B. S. Karon, P. J. Santrach. *Mayo Clinic, Rochester, MN*

**B-176 First Pass Efficiency of Alinity hq Compared to Sysmex XN-10**
S. Silva[1], M. Ismail[1], F. Feng[2], T. Hoshino[1], A. Jonas[1]. *[1]Abbott Diagnostic Division, Santa Clara, CA, [2]Abbott Laboratories, Lake Forest, IL*

**B-177 Morphological Flagging of Alinity hq Compared with Siemens Advia 2120 in a Tertiary Care Pediatric Hospital**
S. Silva[1], M. Ismail[1], F. Feng[2], F. Saura[3], L. Tomao[3], M. D'Agostini[3], O. Porzio[3]. *[1]Abbott Diagnostic Division, Santa Clara, CA, [2]Abbott Laboratories, Lake Forest, CA, [3]IRCCS Bambino Gesù Children's Hospital, Rome, Italy*

**B-178 Adherence to Clinical Practice Guideline for Platelet Factor 4-Heparin (PF4) Complex IgG Antibody Testing in Patients Suspected of Heparin Induced Thrombocytopenia**
J. Solarewicz, H. Doozandeh, A. Braun, M. Pool, M. Tesfazghi. *Rush University Medical Center, Chicago, IL*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## HEMATOLOGY/COAGULATION

**B-179 Improving the Interpretation of Viscoelastic Test Results in the Critical Care Setting**
D. A. Winegar, C. Gillespie, M. Sanchez-Illan. *HemoSonics LLC, Durham, NC*

**B-180 Detecting Sickle Cells with High Specificity by Routine Automated Hematology Analysis**
D. Zelmanovic. *Labthruput, New City, NY*Online-only Display

**B-181 A Comparative Evaluation of Performance of Sysmex XN 3000 & Horiba Yumizen H2500 Automated Complete Blood Count Analyzers**
R. K. Bhola[1], C. Fudaly[2], S. Rastogi[3]. *[1]IMS & SUM Hospital, Bhubaneswar,, India, [2]HORIBA MEDICAL, Montpellier France, France, [3]HORIBA MEDICAL, Montpellier, France*
POSTER

**B-182 Blood Count Reference Values by Mindray's BC 6.200 Hematology Analyzer**
M. C. Gurgel Castelo[1], E. C. Vilar[2], A. D. Dominici[3], R. G. Oliveira[3], S. D. Rodrigues Araujo[3], V. F. Castro Neves[3], J. De Siqueira[3], D. S. Leite[3], G. A. Campana[4]. *[1]Dasa, Fortaleza, Brazil, [2]Dasa, Recife, Brazil, [3]Dasa, Maranhão, Brazil, [4]Dasa, São Paulo, Brazil*
POSTER

**B-183 Micro-mechanical PT/INR Testing Using Smartphones**
K. Michaelsen, J. Chan, J. Estergreen, D. Sabath, S. Gollakota. *University of Washington, Seattle, WA*
AACC ACADEMY
POSTER

**B-184 Application of Thromboelastography in Cardiovascular Surgery: A Retrospective Study**
I. Rodriguez Martin. *Universidad De Sevilla, Sevilla, Spain*
POSTER

**B-185 Thromboelastometry in COVID-19: Hyper- or Hipocoagulability?**
I. Rodriguez Martin[1], D. Núñez Jurado[2], J. Guerrero Montávez[2]. *[1]Hospital Universitario Virgen del Rocío, SEVILLA, Spain, [2]Hospital Universitario Virgen del Rocío, Sevilla, Spain*
POSTER

**B-186 Study of the Frequency of Antieritrocitary Antibodies in Maternal-Fetal Studies**
R. Rubio-Sánchez[1], E. Lepe-Balsalobre[2], M. Zarate[1], M. Esteban de Celis[1], M. Viloria Peñas[1], J. Guerrero Montávez[3]. *[1]Hospital Universitario Virgen de Valme, Sevilla, Spain, [2]Hospital de Riotinto, Huelva, Spain, [3]Hospital Universitario Virgen del Rocío, Sevilla, Spain*
POSTER

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# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## MICROBIOLOGY AND INFECTIOUS DISEASES

**B-187 Novel Quantitative Serology Platform for the Detection of COVID19 Neutralizing Antibodies**

S. D. Bergmann, B. L. Escort-Argueta, P. T. Gieser, V. L. Korman, K. Matson, D. J. Naso, E. J. Nelson, A. Romero, M. R. Strong, J. Soldo. *Veravas, Oakdale, MN*

**B-188 Novel Salivary Sample Test for Covid-19 Neutralizing Antibodies**

S. D. Bergmann, B. L. Escort-Argueta, P. T. Gieser, V. L. Korman, K. Matson, D. J. Naso, E. J. Nelson, A. Romero, M. R. Strong, J. Soldo. *Veravas, Oakdale, MN*

**B-189 Cystatine C and Creatinine as Biomarkers for AKI in COVID-19 Patients**

R. P. Braz[1], S. S. Tozoni[2], M. C. de Deus[2], A. C. Gadotti[2], A. S. Florido[2], G. A. Bohnen[2], J. B. Alegre[2], E. S. Dias[2], M. R. Pereira[2], R. B. Stocco[2], A. N. Amaral[2], T. P. de Moraes[2], H. P. Silva[1], B. C. Ozaki[1]. *[1]Siemens Healthineers, São Paulo, Brazil, [2]Pontifícia Universidade Católica do Paraná, Curitiba, Brazil*

**B-190 Immunogenicity Evaluation with IgG Anti-SARS-CoV-2 Assay After Two COVID-19 Vaccine Doses and Booster in a Group of Brazilian Health Professionals**

R. P. Braz[1], C. C. Strunz[2], S. Vendramini[2], H. P. Silva[1], B. C. Ozaki[1]. *[1]Siemens Healthineers, São Paulo, Brazil, [2]Instituto do Coração HCFMUSP, São Paulo, Brazil*

**B-191 Multidisciplinary Approach for the Diagnosis and the Management of Hepatic Amoebiasis Due to *Entamoeba Histolytica***

M. M. Coulibaly[1], B. Maiga[2], B. Traoré[1], S. Sanogo[1], A. Dolo[3]. *[1]Hospital Sominé DOLO of Mopti, Mopti, Mali, [2]University of Technique and Technological Science of Bamako, faculty of medicine, Bamako, Mali, [3]University of Technique and Technological Science of Bamako, faculty of pharmacy, Bamako, Mali, Bamako, Mali*

**B-192 Feasibility Assessment of a New Automated VlsE1/pepC10 IgG/IgM Chemiluminescent Immunoassay for Detecting Borrelia-Specific Antibodies from North American and European Serum Donors**

K. Cichonski[1], D. Accardi[1], H. J. Beaart[2], J. W. Hovius[2], J. Torres[1], R. Cruver[1], M. Kopnitsky[1], D. Zweitzig[1]. *[1]ZEUS Scientific, Branchburg, NJ, [2]Amsterdam University Medical Centers, Amsterdam, Netherlands*

**B-193 Importance of Cotesting for HPV in Cervical Cancer Risk Assessment: Tests Sensitivity Comparison of hrHPV vs High-grade Cytology—Chilean Outlook**

S. Cuellar[1], P. Salgado[1], J. Aldunate[1], C. Fernández[2], M. Solari[2]. *[1]Laboratorio Redsalud, Santiago, Chile, [2]Departamento Ginecología y Obstetricia, Redsalud, Santiago, Chile*

**B-194 Evaluation of Commercial Assays for the Assessment of SARS-CoV-2 Antibody Response in Hemodialysis Patients**

A. Di Meo[1], L. Ma[2], K. Yau[3], J. Estrada-Codecido[3], T. Sukovic[3], K. Abe[4], K. Colwill[4], A. Gingras[4], D. Chadwick[2], R. Kozak[2], M. Hladunewich[3], P. Yip[2]. *[1]Department of Laboratory Medicine & Pathobiology, University of Toronto, Toronto, ON, Canada, [2]Department of Laboratory Medicine and Molecular Diagnostics, Sunnybrook Health Sciences Centre, Toronto, ON, Canada, [3]Division of Nephrology, Department of Medicine, Sunnybrook Health Sciences Centre, Toronto, ON, Canada, [4]Lunenfeld-Tanenbaum Research Institute at Mount Sinai Hospital, Sinai Health System, Toronto, ON, Canada*

**B-195 Correlation of the Rapid, Point-of-Care LumiraDx SARS-CoV-2 Antibody Test to Other SARS-CoV-2 Antibody Tests and to Viral Neutralization**

B. DuChateau[1], D. Mendu[2], A. Firpo-Betancourt[2], F. Krammer[2], S. Simotas[2], M. Boal[2], C. Cordon-Cardo[2]. *[1]LumiraDx, Waltham, MA, [2]Ichan School of Medicine at Mt. Sinai Medical Center, New York City, NY*

# SCIENTIFIC POSTER SESSIONS

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## MICROBIOLOGY AND INFECTIOUS DISEASES

**B-196 Comparative Study of Vega200 Antigen Platform to RT-PCR for Saliva Covid-19 Samples**

A. Kaur[1], D. Mukhopadhyay[1], A. Madan[1], S. Satyanarayana[1], S. Mehta[1], S. Dwarakanath[2], V. Murugan[1]. *[1]Kaya17, Inc., Livermore, CA, [2]Kaya17, Livermore, CA*

**B-197 Vaccination Against Covid 19 Leads to an Efficient Immune Response Lasting at Least Up To Three Months After The Third Dose**

P. Naaber[1], L. Tserel[2], K. Kangro[3], E. Sepp[2], V. Jürjenson[1], J. Kärner[2], L. Haljasmägi[2], U. Haljasorg[2], M. Kuusk[3], J. M. Gerhold[3], A. Planken[3], M. Ustav[3], K. Kisand[2], P. Peterson[2]. *[1]SYNLAB Estonia, Tallinn, Estonia, [2]University of Tartu, Tartu, Estonia, [3]Icosagen Cell Factory, Ossu kula, Estonia*

**B-198 Elevated Rates of Syphilis RPR Biological False-Positivity Correlate to Increasing SARS-CoV-2 Antibody Prevalence**

L. Gillim[1], Z. Shajani-Yi[2], P. Ranjitkar[3], M. Sharp[1], A. Grover[4]. *[1]Labcorp, Elon, NC, [2]Labcorp, San Diego, CA, [3]Labcorp, Seattle, WA, [4]Labcorp, Burlington, NC*

**B-199 Development of a Prototype SARS-CoV-2 Antigen ARCHITECT Automated Immunoassay**

P. M. Hemken, E. Israeli, R. Taylor, R. Piktel, F. Bogdan, M. Rodgers, B. Tu, Z. Lin, A. Kar, J. Hartnett, D. Hawksworth, B. Tieman, C. Strobel, J. Moore, J. Corby, C. Marohnic, R. Ziemann, S. Muerhoff. *Abbott Laboratories, Abbott Park, IL*

**B-200 Performance Evaluation of the ADVIA Centaur EBV-VCA IgM, EBV-VCA IgG and EBV-EBNA IgG Assays** POSTER

B. Ballester, M. Costa, C. Gran, C. Gutierrez-Mate, S. Hernanz, M. López, D. Mane-Padros, E. Sanz. *Werfen OEM, Barcelona, Spain*

**B-201 Evaluation in Fundamental Performance of a Newly Developed Combo Rapid Antigen Test Kit for SARS-CoV-2 and for Influenza A/B Virus** POSTER

R. Hirose, K. Yamakawa, H. Kimura, Y. Murakami, A. Hasegawa, S. Kojima, S. Yagi, K. Aoyagi. *Fujirebio Inc., Hachioji-shi, Tokyo, Japan*

**B-202 SARS-CoV-2 Neutralizing Antibody Test to Identify Vaccinated Patients**

C. Hua, P. Nguyen, J. Hua, M. Nguyen, B. Le, J. Lanuzo, A. Chan, C. Bui, K. Bach, D. Sabio, D. Bui, E. Samaniego, D. Bach. *Bach Diagnostics, Irvine, CA*

**B-203 Host-Protein Score (Integrating TRAIL, IP-10, CRP) Distinguishes Between Viral and Viral-Bacterial Co-infection in Adult Patients Testing Positive for Viral Detection**

T. Jacob[1], C. A. Arias[2], K. C. Carroll[3], R. Gordon Jr.[4], S. Halabi[5], S. M. Motov[6], M. Paul[7], O. M. Peck Palmer[8], R. Rothman[3], P. Shaked Mishan[5], S. Shiber[9], H. E. Wang[10], A. Weissman[8]. *[1]Maimonides Medical Center, Clinical and Translational Research Labs, Brooklyn, NY, [2]Houston Methodist Hospital, Houston, TX, [3]The Johns Hopkins University School of Medicine, Baltimore, MD, [4]University of Texas Health Science Center at Houston (UTHealth), Houston, TX, [5]Carmel Medical Center, Haifa, Israel, [6]Maimonides Medical Center, Emergency Medicine, Brooklyn, NY, [7]Rambam Health Care Campus, Haifa, Israel, [8]University of Pittsburgh Medical Center, Pittsburgh, PA, [9]Rabin Medical Center, Petah Tikva, Israel, [10]The Ohio State University, Columbus, OH*

**B-204 Evaluation of a New, Near-Patient Testing (NPT) IL-6 Assay on Symphony Immunoanalyzer**

K. Jaleta, N. Patel, M. Narasimhan, A. Muthukumar. *UT Southwestern Medical Center, Dallas, TX*

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## MICROBIOLOGY AND INFECTIOUS DISEASES

**B-205 18-Month Trends of SARS-CoV-2 Anti-Spike IgG Antibodies Among Healthcare Workers**

M. C. Dodge[1], L. Ye[2], E. R. Duffy[3], M. Cole[3], D. Daghfal[2], Y. Kataria[1]. *[1]Boston Medical Center, Boston, MA, [2]Abbott Core Diagnostics, Lake Forest, IL, [3]Boston University School of Medicine, Boston, MA*

**B-206 SARS-CoV-2 Direct Antigen Rapid Test Performance**

M. Cole, E. R. Duffy, E. M. Schechter-Perkins, K. Jamieson, E. Cleveland, N. Server, Y. Kataria. *Boston Medical Center, Boston, MA*

**B-207 Comparison of COVID-19 Positivity Rate Between Long-Term Care Facilities and Outpatients During Omicron Variant Surge: Long-Term Care Facility is the Place to be!**

R. Khoury, P. Gudaitis, P. Patel, A. Gandhi, D. Gudaitis. *Aculabs, Inc, East Brunswick, NJ*

**B-208 Overcoming Reagent Shortage for SAR-CoV-2 Testing for Patients Residing in Long-Term Care Facilities: Performance Evaluation of Allplex™ 2019-nCoV Assay Using Pooling Procedure**

R. Khoury, P. Gudaitis, P. Patel, A. Gandhi, D. Gudaitis. *Aculabs, Inc, East Brunswick, NJ*

**B-209 Prevalence of SARS-CoV-2 IgG in Patients Residing in Long-Term Care Facilities: A One Year Follow-up!**

R. Khoury, P. Gudaitis, A. Gandhi, D. Gudaitis. *Aculabs, Inc, East Brunswick, NJ*

**B-210 Validation of the STANDARD M10 SARS-CoV-2 RNA Assay**

H. Kim. *Hallym Univ. Medical Center, Anyang, Korea, Republic of*

**B-211 Biomarkers in ICU-septic Patients to Predict Bacteremia**

S. Kim[1], W. Choi[2], S. Jo[3]. *[1]Gyeongsang National University Changwon Hospital, Changwon, Korea, Republic of, [2]Kyungsung University, Busan, Korea, Republic of, [3]Daewoo General Hospital, Geoje, Korea, Republic of*

**B-212 Antibody Response of SARS-CoV-2 mRNA Booster Vaccination in Solid Tumor Cancer Patients**

K. Kohno[1], R. C. Benirschke[2], H. K. Lee[1], A. Sereika[1], M. Britto[1], J. D. Khandekar[1]. *[1]NorthShore University HealthSystem, Evanston, IL, [2]Northshore University Health System, Evanston, IL*

**B-213 Evaluation of the New ARCHITECT Toxo IgG and Alinity i Toxo IgG Assays for the US Market**

W. Krack[1], S. Bernhardt[1], T. Hoffmann[1], J. Herzog[1], M. Oer[1], A. Hussaini[2], M. Kosevich[2]. *[1]Abbott GmbH, Wiesbaden, Germany, [2]Abbott Diagnostics, Abbott Park, IL*

**B-214 Rapid Detection and Identification of Bacteria Directly from Blood by Fourier-Transform Infrared Spectroscopy**

B. Djiguemde, C. Shah, P. Barrows, G. Knoer, N. Acharya, D. Yacubovich, D. Purushottaman, R. Krishnamurthy. *3i Diagnostics, Inc., Germantown, MD*

**B-215 Rapid Detection and Identification of Intact SARS-CoV-2 Directly From Saliva by Fourier-Transform Infrared Spectroscopy**

P. Barrows[1], O. White[2], N. Acharya[1], D. Purushottaman[1], R. Krishnamurthy[1]. *[1]3i Diagnostics, Inc., Germantown, MD, [2]Accenture Federal Services, Washington, DC*

# SCIENTIFIC POSTER SESSIONS

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## MICROBIOLOGY AND INFECTIOUS DISEASES

**B-216 Performance Evaluation of AdvanBio ABcare® SARS-CoV-2 Ag Test for Rapid Point-of-Care Testing**

C. Lee[1], I. Xi[1], H. Xu[1], Q. Fu[2], G. Fu[2]. *[1]AdvanBio, Irvine, CA, [2]Autobio Diagnostics, Zhengzhou, China*

**B-217 Evaluation of a Novel Ultra-Sensitive Immunosensor for SARS CoV-2 Diagnosis**

J. Lin[1], N. Lee[2], H. Pang[2], Y. Hsu[2], H. Yang[2]. *[1]Institute of Epidemiology and Preventive Medicine, National Taiwan University, Taipei, Taiwan, [2]Institute of Medical Science and Technology, National Sun Yat-sen University, Kaohsiung, Taiwan*

**B-218 Community-based SARS-CoV-2 Testing Using Saliva or Nasopharyngeal Swabs to Compare Efficacy of Weekly COVID-19 Screening to Wastewater SARS-CoV-2 Signals**

Z. Lu[1], A. E. Brunton[2], M. Mohebnasab[1], A. Deloney[3], K. J. Williamson[4], B. A. Layton[4], S. Mansell[4], A. Brawley-Chesworth[5], P. Abrams[5], K. A. Wilcox[1], F. A. Franklin[6], S. K. McWeeney[7], D. N. Streblow[8], G. Fan[1], D. E. Hansel[1]. *[1]Department of Pathology & Laboratory Medicine, Oregon Health & Science University, Portland, OR, [2]Oregon Health & Science University – Portland State University, School of Public Health, Program in Epidemiology, Portland, OR, [3]Self Enhancement, Inc, Portland, OR, [4]Department of Research and Innovation, Clean Water Service, Hillsboro, OR, [5]City of Portland Bureau of Environmental Services, Portland, OR, [6]Oregon Health & Science University – Portland State University, School of Public Health, Epidemiology Division, Portland, OR, [7]Division of Bioinformatics and Computational Biology, Department of Medical Informatics and Clinical Epidemiology, Oregon Health and Science University, Portland, OR, [8]Vaccine & Gene Therapy Institute, Oregon Health & Science University, Beaverton, OR*

**B-219 Occurrence of *Urbanorum Spp.* in the Parasitology Sector in Medical Laboratory from Blumeunau - SC, Brazil**

S. H. Maffezzolli[1], J. P. Pretel[1], L. Welter[1], R. M. Branco[1], V. A. Lopes[2], B. O. Barreto[3], C. Araujo[3], L. F. Abdalla[3]. *[1]Sabin Medicina Disgnóstica, Blumenau, Brazil, [2]Sabin Medicina Diagnóstica, Salvador, Brazil, [3]Sabin Medicina Disgnóstica, Brasília, Brazil*

**B-220 Performance of the Multiplex TaqPath™ COVID-19, FluA, FluB Combo Kit for SARS-CoV-2 Screening**

R. Malampy[1], G. DeOliveira[1], A. Klinger[1], C. Le[1], K. Li[1], N. Poisson[1], H. Roux[1], T. Proctor[2], O. Sorel[3], J. D. Feenstra[3], M. Gandhi[3], J. Auclair[1]. *[1]Northeastern University, Boston, MA, [2]Thermo Fisher Scientific, South San Francisco, CO, [3]Thermo Fisher Scientific, South San Francisco, CA*

**B-221 Multi-center Performance Evaluation of the HSV-1 IgG and HSV-2 IgG Assays* on the ARCHITECT *i*2000SR System**

T. Bori, A. Martinez, S. Blanch, J. Blanco, J. A. Ortega, L. Quintanilla, C. Rubies, Z. Seres. *Werfen OEM, Lliçà d'Amunt, Spain*

**B-222 A Novel, Easy to Use, Non-invasive Alternative to Nasopharyngeal Swabs that Provides Equivalent or Better Sensitivity for Nasopharyngeal Specimen Collection**

M. Mogri[1], J. Hicks[2], G. Hoyt[2], M. Carrillo[3], M. Davis[4], D. Vu[1], R. Henson[1], R. J. Ivanhoe[1], J. Miller[5]. *[1]CyranoDx, Tustin, CA, [2]Rocky Mountain Labs, Englewood, CO, [3]Premier Valley Medical Group, Bakersfield, CA, [4]East Arkansas Family Health Centers, West Memphis, AR, [5]Microbiology Technical Services, LLC, Dunwoody, GA*

**B-223 Prevalence of Antibodies to SARS-CoV-2 in Maryland Patients Following the Emergence of the Omicron Variant**

K. E. Mullins, N. Höti. *University of Maryland School of Medicine, Baltimore, MD*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## MICROBIOLOGY AND INFECTIOUS DISEASES

**B-224 A Rapid Cellular Host Response Test May Aid ED Decision Making for Sepsis Care**

H. R. O'Neal[1], R. Sheybani[2], T. S. Caffery[1], H. T. Tse[2], A. M. Shah[2], C. B. Thomas[1]. *[1]Louisiana State University Health Sciences Center, Baton Rouge, LA, [2]CytoVale, Inc., San Francisco, CA*

**B-225 Humoral Immunity Assessment After Vaccination Using Six Serologic Assays as SARS-CoV-2 Surrogate for Plaque Reduction Neutralization Test**

E. Oh[1], H. Lee[2], A. Choi[1], J. Jung[1], J. Lee[3]. *[1]Seoul St. Mary's Hospital, Seoul, Korea, Republic of, [2]Konkuk University, Seoul, Korea, Republic of, [3]The Catholic University of Korea, Seoul, Korea, Republic of*

**B-226 Identification and Validation of Flagellar Attachment Zone 1 Protein as a Potential Biomarker for Human African Trypanosomiasis**

C. Orahoske, B. Su. *Cleveland State University, Cleveland, OH*

**B-227 Longitudinal Post Immunisation Serology of Covid 19 Using the Abbott Alinity SARS-CoV-2 IgG II Quantitative Test**

I. Piec[1], L. Cook[2], W. Fraser[1], M. Berman[3], E. English[1], W. G. John[2]. *[1]University of East Anglia, Norwich, United Kingdom, [2]Norfolk and Norwich University Hospital, Norwich, United Kingdom, [3]Abbott Labs, Abbott Park, IL*

**B-228 Bacterial Identification and Antimicrobial Susceptibility Testing Directly From Positive Blood Culture Vials Using Two Commercial Platforms**

J. Monteiro, F. M. Inoue, A. T. Lobo, M. Pastori, D. Ramadan, S. Tufik. *Associação Fundo de Incentivo a Pesquisa - AFIP Medicina Diagnóstica, São Paulo / SP, Brazil*

**B-229 Epidemiological Surveillance of New Delhi Metallo-Beta-lactamase-Producing *Enterobacterales* at Brazilian Hospitals in Pre and Covid-19 Period**

J. Monteiro, F. M. Inoue, A. T. Lobo, V. Silva, D. Ramadan, S. Tufik. *Associação Fundo de Incentivo a Pesquisa - AFIP Medicina Diagnóstica, São Paulo / SP, Brazil*

**B-230 Analysis of the Humoral Immune Response of Health Professionals After SARS-CoV-2 Virus Vaccines**

G. Costa de Carvalho, J. Terzi Maricato, G. Moreno Rodrigues de Souza, R. Almeida Nunes, F. Maria Correa Cristaldi, D. Ribeiro Ramadan, S. Tufik. *Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil*

**B-231 The Respiratory Syncytial Virus and Sars-cov-2 Diagnostic Pattern in Children from São Paulo, Brazil**

G. Costa de Carvalho, J. Nogueira Martins Rodrigues, D. Ribeiro Ramadan, S. Tufik. *Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil*

**B-232 The Susceptibility of the HIV Seropositive Population Living with HBV in São Paulo, Brazil**

G. Costa de Carvalho, J. Terzi Maricato, J. Nogueira Martins Rodrigues, D. Ribeiro Ramadan, S. Tufik. *Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil*

**B-233 Novel Herpes Simplex Virus, Varicella Zoster Virus, and *Treponema pallidium* Swab Formulation for Use with Genital Lesion Molecular Detection Assays as a Prospective Quality Control**

S. Rivers, P. Zhelev, A. Alagic, M. Luscher, K. Hughes, T. Gerbaba, R. Mikhael, J. Auluck, S. Niyamuddin, P. Casselli. *Microbix Biosystems Inc, Mississauga, ON, Canada*

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## MICROBIOLOGY AND INFECTIOUS DISEASES

**B-234 Nationwide Surveillance Network Design and Operation for Emerging Resistant *Neisseria Gonorrhoeae* in Korea**

K. Roh[1], Y. Cho[1], Y. Suh[2], H. Lee[2], K. Lee[3]. *[1]National Health Insurance Service Ilsan Hospital, Goyang, Korea, Republic of, [2]Yonsei University College of Medicine, Seoul, Korea, Republic of, [3]SCL Academy, Yongin, Korea, Republic of*

**B-235 Relationship of Time Interval from *"Fully Vaccinated"* and "*Breakthrough*" SARS-CoV-2 Infections: Observational Study in a Highly Vaccinated Population**

E. Sanchez[1], N. Halat[1], N. Pinkhover[1], T. Proctor[2], O. Sorel[2], M. Gandhi[2], J. Auclair[1]. *[1]Northeastern University, Boston, MA, [2]Thermo Fisher Scientific, South San Francisco, CA*

**B-236 SARS-CoV-2 Seroprevalence in Rhode Island Pregnancies in Early 2020**

E. J. Hardy[1], G. E. Palomaki[1], R. Schneider[2], D. Daghfal[2], J. J. Sung[1], G. Messerlian[1]. *[1]Women & Infants Hospital of Rhode Island, Providence, RI, [2]Abbott, Abbott Park, IL*

**B-238 Vitamin A and vitamin E in SARS-CoV-2 Infection: An Overview**

M. Carvalho, J. Araújo, K. S. Ribeiro, V. N. Silbiger. *Universidade Federal do Rio Grande do Norte, Natal, Brazil*

**B-239 MeMed BV Distinguishes Between Viral and Bacterial Infection in Sepsis Patients**

E. Simon[1], C. A. Arias[2], R. G. Bachur[3], S. Esposito[4], S. Halabi[5], S. L. Kaplan[6], A. Klein[7], S. M. Motov[8], R. Rothman[9], L. M. Ryan[10], S. Shiber[11], T. Tenenbaum[12], A. Weissman[13]. *[1]MeMed Diagnostics, Tirat Carmel, Israel, [2]Houston Methodist Hospital, Houston, TX, [3]Boston Children's Hospital, Boston, MA, [4]Pediatric Clinic, Pietro Barilla Children's Hospital, Department of Medicine and Surgery, University of Parma, Parma, Italy, [5]Carmel Medical Center, Haifa, Israel, [6]Texas Children's Hospital, Feigin Center, Houston, TX, [7]Hillel Yaffe Medical Center, Hadera, Israel, [8]Maimonides Medical Center, Emergency Medicine, Brooklyn, NY, [9]The Johns Hopkins University School of Medicine, Baltimore, MD, [10]Johns Hopkins University, Baltimore, MD, [11]Rabin Medical Center, Petah Tikva, Israel, [12]Sana Klinikum Lichtenberg, Berlin, Germany, [13]University of Pittsburgh Medical Center, Pittsburgh, PA*

**B-240 Simultaneous Detection of Respiratory Infectious Diseases using Immunoprecipitation and Liquid Chromatography-Tandem Mass Spectrometry**

Y. E. Song, R. J. Gibson, K. M. Hassell, S. N. Samra. *Thermo Fisher Scientific, San Jose, CA*

**B-241 Direct RT-LAMP Test for the Detection of SARS-CoV-2**

M. Tokarski, M. Malodobra-Mazur, A. Cierzniak. *Genomtec, Wroclaw, Poland*

**B-242 Quantitative Multiplex SARS-CoV-2 IgG Antibody Test for Measuring Natural and Vaccine-Induced Immune Response**

N. Venkateswaran, W. M. Nelson, K. S. Venkateswaran. *Tetracore, Inc., Rockville, MD*

**B-243 Evaluation of a Prediction Algorithm Value in Predicting Positive Urine Culture in Pediatrics: A Retrospective Cohort Study at Nationwide Children's Hospital**

AACC ACADEMY

J. Wang[1], D. R. Bunch[2], J. Watson[2], A. L. Pyle-Eilola[2]. *[1]Nationwide Children's Hospital, Columbus, OH, [2]Nationwide Children's Hospital, The Ohio State University, Columbus, OH*

# SCIENTIFIC POSTER SESSIONS

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## MICROBIOLOGY AND INFECTIOUS DISEASES

**B-244 Performance of ADVIA Centaur SARS-COV-2 Antigen Testing Compared to Nucleic Acid Testing Across Patients with Multiple Variants in an Urban Medical Center**

O. Peck Palmer, J. H. Hasskamp, H. La, P. P. Patwardhan, V. Baloda, Y. Jung, S. Wheeler. *University of Pittsburgh, Pittsburgh, PA*

**B-245 Implementation of the Cue COVID-19 Test in Stat Lab and Point-of-Care Settings**

D. B. Wildeman, B. R. Kelley, A. M. Wockenfus, N. K. Myhre, B. S. Karon, L. J. Donato. *Mayo Clinic, Rochester, MN*

**B-246 Research to Establish a Model for Measuring and Refining Lot to Lot Variability Specifications for a Rapid SARS-CoV-2 RNA Test**

A. M. Wockenfus[1], B. R. Kelley[1], L. J. Donato[1], C. C. Ignacio[2], S. Raut[3], H. Arai[3], N. Tran[3], C. Larkin[3], B. S. Karon[1]. *[1]Mayo Clinic, Rochester, MN, [2]UC San Diego, La Jolla, CA, [3]Fluxergy, Irvine, CA*

**B-247 Novel Human Cell Depletion Method Enables Rapid Pathogen Identification by Next Generation Sequencing**

M. Wu[1], Y. Chen[2], H. Yen[2], K. Chao[1], B. Pu[1], H. Hung[1]. *[1]Micronbrane Medical, Taoyuan, Taiwan, [2]Taipei Veterans General Hospital, Taipei, Taiwan*

**B-248 A Simplified, Flexible, and Sensitive Saliva-based PCR Test for Accessible SARS-CoV-2 Testing**

A. L. Wyllie. *Yale School of Public Health, New Haven, CT*

**B-249 Spread Dynamics of SARS-CoV-2 Circulating Variants in Brazil**

J. d. Silva[1], G. C. Veríssimo[2], E. G. Gimenez[2], V. M. Fabri[2], A. B. de Lima[1], D. A. Zauli[1]. *[1]Pardini Group, Vespasiano, Brazil, [2]Universidade Federal de Minas Gerais, Belo Horizonte, Brazil*

**B-250 The Molecular Detection of Cytomegalovirus by real-time PCR: A Comparison of Two Commercial Assays**

C. P. Mendonça[1], D. A. Zauli[2]. *[1]Grupo Pardini, Vespasiano, Brazil, [2]Pardini Group, Vespasiano, Brazil*

**B-251 Utility of a Direct Sample Real Time PCR for the Follow up of SARS-CoV-2 Infection with Different Respiratory Samples**

R. de Luis, S. Gamen, O. García, M. Sánchez, A. Marcuello. *OPERON, Cuarte de Huerva (Zaragoza), Spain*

**B-252 Implementation of a "Test and Treat" Model for *Chlamydia Trachomatis* and *Neisseria Gonorrhea* Infection at Planned Parenthood Keystone**

L. Kemp[1], K. Hiner[2], K. Glanz[3], G. Richman[3], D. Pearce[1], A. Dixon[1]. *[1]binx health, Trowbridge, United Kingdom, [2]Planned Parenthood Keystone, Harrisburg, PA, [3]binx health, Cambridge, MA*

# SCIENTIFIC POSTER SESSIONS

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## MICROBIOLOGY AND INFECTIOUS DISEASES

**B-253 Comparative Evaluation of HP DETECT™, a Stool Antigen ELISA Test for *Helicobacter pylori***

N. Sukserm, B. Massucco, S. Sweidan, T. Kwon, E. I. Laderman. *Biomerica, Irvine, CA*

**B-254 Rapid Identification of *Aspergillus*-Specific IgG Antibody Via a Fluorescence Immunochromatography Assay**

J. Peng, J. Yan, Y. Zhang, W. Yao, Y. Wang, H. Wang. *Dynamiker Sub-Center of Beijing Key Laboratory for Mechanisms Research and Precision Diagnosis of Invasive Fungal Disease, Tianjin, China*

**B-255 Detection of *mecA*-mediated Methicillin Resistance and Evaluation of Antimicrobial Susceptibility Characteristics of *Staphylococcus Saprophyticus* Isolates From Geographically Diverse Locations**

R. Potter[1], J. Marino[2], C. Muenks[3], M. F. Lammers[3], M. Wallace[1], T. Dingle[4], J. Dien Bard[5], R. Humphries[6], L. Westblade[2], C. Burnham[3]. *[1]Washington University School of Medicine in St. Louis, Saint Louis, MO, [2]Weil Cornell Medicine, New York, NY, [3]Washington University School of Medicine in St. Louis, St. Louis, MO, [4]University of Calgary, Calgary, AB, Canada, [5]Childrens Hospital Los Angeles, Los Angeles, CA, [6]Vanderbilt University, Vanderbilt University, TN*

**B-256 Reactivity of LUMIPULSE G SARS-CoV-2 Ag Reagent to Mutant Virus** — POSTER

R. Baba, T. Nishii, M. Imaizumi, A. Fujimoto, Y. Ohtakaki, N. Tanaka, Y. Hirabuki, S. Kojima, A. Kaneko, S. Yagi, K. Aoyagi. *FUJIREBIO INC., Tokyo, Japan, Japan*

**B-257 SARS-CoV-2 Antigen Test: A View on Effectiveness of Diagnostic Tests in Covid-19 Pandemic and its Agreement With RT-PCR** — POSTER

S. P. Bandeira[1], J. E. Levi[2], L. C. Pierroti[2], J. U. Brito[3], A. Chebabo[4], D. C. Thielmann[4], S. L. Hinrichsen[5], A. C. Lopes[6], C. M. Dias[2], M. C. Castelo[1], L. L. Cavalcante[1], T. S. Sousa[5], J. S. Filleti[2], B. S. Santos[2], C. K. Hirose[2], G. A. Campana[2]. *[1]Dasa, Fortaleza, Brazil, [2]Dasa, São Paulo, Brazil, [3]Dasa, DF, Brazil, [4]Dasa, Rio de Janeiro, Brazil, [5]Dasa, Recife, Brazil, [6]Dasa, Florianópolis, Brazil*

**B-258 *Candida* Isolates From Blood Cultures: A Review of 2019 and 2020 Data From a Huge Laboratory in Northeastern Brazil** — POSTER

M. C. Castelo[1], É. F. Paixão[2], S. L. Hinrichsen[2], T. S. Sousa[2], M. R. Santos[2], T. P. Rabelo[2], D. P. Aguiar[2], L. L. Cavalcante[1], S. P. Bandeira[1], G. A. Campana[3]. *[1]Dasa, Fortaleza, Brazil, [2]Dasa, Recife, Brazil, [3]Dasa, São Paulo, Brazil*

**B-259 Resistance Profile of Bacteria to Antibiotics in City Laboratories** — POSTER

H. CHEMSI[1], A. HAITAM[2], Y. SEKHSOKH[1]. *[1]FMPR, Rabat, Morocco, [2]Private laboratory, Casablanca, Morocco*

**B-260 CLSI Oxacillin in Combination with Cefoxitin Screen Breakpoints for MicroScan Dried Gram Positive MIC Panels from a Multicenter Assessment of Gram Positive Bacteria** — POSTER

S. Riedel[1], O. B. Garner[2], A. Harrington[3], S. DesJarlais[3], R. K. Brookman[4], A. M. Chipman[5], C. J. Hastey[5], Z. C. Lockett[5], J. Y. Chau[5]. *[1]Beth Israel Deaconess Medical Center, Boston, MA, [2]UCLA Medical Center, Los Angeles, CA, [3]Loyola University & Medical Center, Maywood, IL, [4]Beckman Coulter, Inc., West Sacramento, CA, [5]Beckman Coulter, Inc., West Sacramento, CA, CA*

# SCIENTIFIC POSTER SESSIONS

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## MICROBIOLOGY AND INFECTIOUS DISEASES

**B-261 Updated CLSI Meropenem Breakpoints for MicroScan Dried Gram Negative MIC Panels from a Multicenter Assessment of *Acinetobacter* species**

POSTER

A. Harrington[1], P. C. Schreckenberger[1], M. P. Weinstein[2], C. J. Hastey[3], A. M. Chipman[3], Z. C. Lockett[3], R. K. Brookman[4], J. Y. Chau[3]. *[1]Loyola University & Medical Center, Maywood, IL, [2]Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ, [3]Beckman Coulter, Inc., West Sacramento, CA, CA, [4]Beckman Coulter, Inc., West Sacramento, CA*

**B-262 Updated FDA/CLSI Ceftazidime Breakpoints from a Multicenter Assessment for *Enterobacterales, Acinetobacter* spp. and *Pseudomonas aeruginosa* Using MicroScan Dried Gram Negative MIC Panels**

POSTER

O. B. Garner[1], A. Harrington[2], M. P. Weinstein[3], M. Traczewski[4], S. DesJarlais[2], D. Beasley[4], A. M. Chipman[5], C. J. Hastey[5], R. K. Brookman[6], Z. C. Lockett[5], J. Y. Chau[5]. *[1]UCLA Medical Center, Los Angeles, CA, [2]Loyola University & Medical Center, Maywood, IL, [3]Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ, [4]Clinical Microbiology Institute, Wilsonville, OR, [5]Beckman Coulter, Inc., West Sacramento, CA, CA, [6]Beckman Coulter, Inc., West Sacramento, CA*

**B-263 Humoral Immune Response to Two Doses of Covishield Followed by One Dose of Pfizer Vaccine**

POSTER

B. Dayanath[1], U. D. Senarathne[2]. *[1]Colombo North Teaching Hospital, Ragama, Sri Lanka, [2]University of Sri Jayewardenepura, Nugegoda, Sri Lanka*

**B-264 Chronic Antral Gastritis With Cytomegalovirus-Associated Foveolar Hyperplasia**

POSTER

D. Núñez Jurado, J. Montenegro Martínez, I. Rodríguez Martín, J. Guerrero Montávez. *Virgen del Rocío University Hospital, Seville, Spain*

**B-265 Peruvian Hospital and Urban Antibiotic Resistance found in Local Wastewater**

POSTER

N. Pablo-Ramirez[1], V. Roa-Linares[1], C. Martinez-Jaramillo[1], L. Jaramillo-Valverde[1], S. Alvites-Arrieta[1], M. Ubillus[1], D. Palma-Lozano[1], S. Davison[2], A. Gomez[2], H. Guio[1]. *[1]Universidad De Huanuco, Huanuco, Peru, [2]University of Minnesota, MINNESOTA, MN*

**B-266 A Novel Rapid Test for *Aspergillus* Galactomannan**

POSTER

J. Guo, W. Wu. *Department of Laboratory Medicine, Shanghai East Hospital, Tongji University School of Medicine, Shanghai, China*

**B-267 Early Antibody Responses to Pfizer vs Sinovac SARS-CoV-2 Vaccines**

POSTER

C. S. Lau, Y. L. Liang, S. K. Phua, T. C. Aw. *Changi General Hospital, Singapore, Singapore*

**B-268 UTI in a Selected Outpatient Population of Sicily**

POSTER

I. Messina[1], L. Paravizzini[2], N. Severino[2], D. Zito[2], M. Monari[3]. *[1]Humanitas Istituto Clinico Catanese ( Hicc), Catania, Italy, [2]Humanitas Istituto Clinico Catanese ( HICC), Catania, Italy, [3]Clinical and research Center IRCCS, Ozzano, Italy*

# SCIENTIFIC POSTER SESSIONS

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## PREANALYTICAL AND POSTANALYTICAL

**B-269 Reducing Consumable Plastic Malonic Acid Interference in an LC-MS/MS Method to Quantify Serum Methylmalonic Acid**

K. Bishop, C. Zipperle, D. Chu, N. Ayala-Lopez. *Labcorp Drug Development, Indianapolis, IN*

**B-270 Impact of Recentrifugation of Blood Collection Tubes on Chemistry and Immunochemistry Analytes After 24 and 72 Hours of Refrigerated Storage on the Roche cobas 8000 Platform**

R. A. Bowen[1], V. Esguerra[2], P. Cheng[2], M. Walker[2], T. Nguyen[1]. *[1]Stanford University, Stanford, CA, [2]Stanford Health Care, Stanford, CA*

**B-271 Impact of Centrifuge Deployment at an Outpatient Phlebotomy Site on Blood Glucose Levels**

A. Braun, N. Lashmanova, M. T. Tesfazghi. *Rush University Medical Center, Chicago, IL*

**B-272 Evaluation of Tests for the Diagnosis and Follow-up of von Willebrand's Disease After Freezing Samples**

R. P. Braz[1], D. R. Silva[2], L. C. Resende[3], V. E. Oliveira[3], N. D. Santos[3], A. N. Prezotti[3], M. P. Orletti[3], A. R. Neto[3], D. M. Rocha[3], J. S. Duarte[3], S. S. Marcondes[3], C. R. Borella[1], H. P. Silva[1], B. C. Ozaki[1]. *[1]Siemens Healthineers, São Paulo, Brazil, [2]Centro Estadual de Hemoterapia e Hematologia Marcos Daniel Santos (HEMOES), Espírito Santo, Brazil, [3]Centro Estadual de Hemoterapia e Hematologia Marcos Daniel Santos (HEMOES), Espírito Santo, Brazil*

**B-273 Detecting Pre-Analytical Error in the Laboratory: An Experimental Approach to Derive Delta Checks for Sample Contamination**

I. Choucair, M. A. Vera, E. S. Lee, J. M. El-Khoury, T. J. Durant. *Yale School of Medicine, New Haven, CT*

**B-274 Insulated Courier Lockbox Insert Protects Specimens from High Temperatures**

J. H. Contois, R. Nguyen, A. L. Albert. *Sun Diagnostics. LLC, New Gloucester, ME*

**B-275 Verification of Sodium-Heparin Plasma Collection Tubes for Roche cobas® pro Analyzers**

J. A. Erickson[1], S. L. La'ulu[1], S. P. Wyness[1], T. R. Allison[1], J. A. Straseski[2], J. W. Rudolf[2]. *[1]ARUP Institute for Clinical and Experimental Pathology, ARUP Laboratories, Salt Lake City, UT, [2]University of Utah School of Medicine, Department of Pathology, Salt Lake City, UT*

**B-276 Establishing New Hemolysis Index for Neonatal Plasma Glucose Values Measured Using VITROS® XT 3400**

R. C. Faught, H. Hagrass. *UAMS, Little Rock, AR*

**B-277 Evaluation of Serum Separator Collection Tubes for Serum Drugs Level Assays**

K. Y. Garza[1], J. Carter[2], A. Mercer[2], P. Jarrar[2], J. Martin[2], S. Daughtry[2], A. Mahomes[2], C. Knezevic[1]. *[1]Johns Hopkins University School of Medicine, Baltimore, MD, [2]Johns Hopkins Hospital, Baltimore, MD*

**B-278 Serum Calprotectin Shows Superior Diagnostic Performance in Rheumatoid Arthritis compared to Calprotectin Derived from Plasma**

D. Guschin, A. Ohmann, M. Takacs, M. Schneider, R. Cotti, C. Niederberger, C. B. Gerhold. *BÜHLMANN Laboratories AG, Schönenbuch, Switzerland*

# SCIENTIFIC POSTER SESSIONS

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## PREANALYTICAL AND POSTANALYTICAL

**B-279 Comparison of BD Vacationer Barricor Plasma with the Serum ST Blood Collection Tubes for Selected Routine Chemistry and Immunoassay Testing on Abbott Alinity ci-series**
A. M. Gusti. *King Fahd Armed Forces Hospital, Jeddah, Saudi Arabia*

**B-280 Specimen Contamination Rates With Residual Immunosuppressive Drugs Drawn From Central Venous Catheters**
S. Johns, J. Burlison, A. R. Molinelli. *St. Jude Children's Research Hospital, Memphis, TN*

**B-281 Improving Medical Students' Psychological Well-Being through Forgiveness Learning Program**
C. Lee, A. M. Mason. *Liberty University College of Osteopathic Medicine, Lynchburg, VA*

**B-282 Evaluating the Feasibility of Using Preserved Urine for Testing Urine Chemistry Analytes to Reduce Pre-Analytical Variability**
S. Narla[1], T. Bose[1], N. Ayala-Lopez[1], J. Emerson[1], T. Williamson[1], V. Labrador[2]. *[1]Labcorp Drug Development, Indianapolis, IN, [2]Labcorp Drug Development, Geneva, Switzerland*

**B-283 Retrospective Measurement of the Effect of Diurnal Variation in Specimens Drawn Weekly, Either Within 2 Hr Of Previous Week's Draw Time or Outside of the 2 Hr Period**
J. Qiu[1], G. Cembrowski[1], C. McCudden[2]. *[1]University of Alberta, Edmonton, AB, Canada, [2]University of Ottawa, Ottawa, ON, Canada*

**B-284 Evaluation of the Stability of Fecal Immunochemical Test Samples at Ambient and Refrigerated Temperatures**
M. S. Reid[1], H. A. Paul[1], A. Mostoufi[2], J. L. Robinson[1], S. M. Sadrzadeh[1]. *[1]Alberta Precision Laboratories, Calgary, AB, Canada, [2]Department of Pathology and Laboratory Medicine, University of Calgary, Calgary, AB, Canada*

**B-285 Variables That Influence Bovine Serum Albumin Color and Their Importance to Diagnostic Applications**
A. E. Rose, A. L. Okerlund, C. D. Warner. *Proliant Health and Biologicals, Ankeny, IA*

**B-286 Assessment of Pre-Analytical Processing on Measurement of Calprotectin in Fecal Specimens**
S. L. Sales, A. E. Tebo, M. R. Snyder. *Mayo Clinic, Rochester, MN*

**B-287 Improving Saliva Purity Using Super•SAL2TM Saliva Collection Kits for Testosterone Detection**
D. Beltran-Cardona, L. Weden, P. D. Slowey. *Oasis Diagnostics Corp., Vancouver, WA*

**B-288 Applying Modified Task Centered Strategies to Rapid Antigen Self-Testing Instructions**
L. B. Springer. *Brio Systems, Bellevue, OH*

**B-289 Optimizing Digital Health Application Frameworks to Support At-Home Testing**
L. B. Springer. *Brio Systems, Bellevue, OH*

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## PREANALYTICAL AND POSTANALYTICAL

**B-290 Differentiating Turbid Versus Truly Lipemic Samples With Elevated Lipemia Indices**

R. Wei, W. Légaré, A. J. McShane. *Cleveland Clinic, Cleveland, OH*

**B-291 Insignificant Differences in Hemolysis related parameters in Four-Way-Split Sample-Transfer from 22G-Needle-Syringe to Serum Tubes, Assayed for Potassium, LDH, AST, ALT & Free Hemoglobin**

POSTER

A. Hazra[1], S. Mandal[2], M. Marlecha[3]. *[1]All India Institute of Medical Sciences (AIIMS) Kalyani, Kolkata WB India, India, [2]All India Institute of Medical Sciences (AIIMS) Johdpur, Jodhpur, Rajasthan, India, [3]Government Medical College (GMC) Pali, Pali, Rajasthan, India*

**B-292 Evaluating the Sample Transportation Time from Phlebotomy Center to Core Laboratory—Real World Evaluation of a Medical Center in Taiwan**

POSTER

W. Jen[1], C. Lai[1], F. Wang[1], H. Ho[2]. *[1]Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital, Taipei, Taiwan, [2]Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital. Department of Biotechnology and Laboratory Science in Medicine, National Yang-Ming Chiao Tung University, Taipei, Taiwan*

**B-293 Falsely Elevated Urine Total Protein Leads to the Diagnosis of a Rare Metabolic Disorder**

POSTER

C. W. Lewis, E. Qirjazi, J. L. Gifford. *University of Calgary, Calgary, AB, Canada*

**B-294 Effects of Physiochemical Properties on Instilment of Medications Using Dropper Bottles**

POSTER

E. Niederkofler. *Thermo Fisher Scientific, Santa Clara, CA*

**B-295 "Specimen" is the Standard term for Collection, "Sample" is the Standard Term for Statistics and Measurement**

POSTER

M. Pradella. *Italian Society of Clinical Pathology and Laboratory Medicine, SIPMeL, Castelfranco Veneto (TV), Italy*

**B-296 Audit on Lipaemic Specimens From Paediatric Hospital in Sri Lanka**

POSTER

U. D. Senarathne[1], E. Jasinge[2]. *[1]University of Sri Jayewardenepura, Nugegoda, Sri Lanka, [2]Lady Ridgeway Hospital for Children, Colombo, Sri Lanka*

**B-297 Evaluation of the Automated pH Assay on the Roche cobas pro c503 for Urine Specimen Integrity Assessment**

POSTER

S. Wyness[1], S. L. La'ulu[1], T. R. Allison[1], A. N. Jackson[1], J. W. Rudolf[2]. *[1]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, [2]Department of Pathology, University of Utah, Salt Lake City, UT*

**B-298 Performance of the DiaSorin QSET Plus Device: Designed with Input from Laboratory Technologists**

POSTER

S. P. Wyness[1], J. Bird[2], T. Norgyal[2], R. A. Jensen[2], H. Hall[2], L. M. Johnson[3]. *[1]ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, [2]ARUP Laboratories, Salt Lake City, UT, [3]Department of Pathology, University of Utah, Salt Lake City, UT*

# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## PRECISION MEDICINE

**B-299 Performance Evaluation of the DxC700AU in HbA1c Measurement**
Y. CHOI, H. Kang, J. Rim, S. Lee, J. Lim. *Yonsei University College of Medicine, Seoul, Korea, Republic of*

**B-300 Analytical Validation of $GFR_{NMR}$: A Blood-Based Multiple Biomarker Assay for Accurate Estimation of Glomerular Filtration Rate**
M. Fuhrmann[1], J. W. Meeusen[2], M. Fernandes[3]. *[1]numares AG, Regensburg, Germany, [2]Mayo Clinic, Department of Laboratory Medicine and Pathology, Rochester, MN, [3]Boston Heart Diagnostics, Framingham, MA*

**B-301 Increased CA125 Concentrations in Heart Failure With Reduced Ejection Fraction: Association With Cardiac Biomarkers and Mortality**
D. GRUSON[1], S. Ahn[2], A. Pouleur[2], M. Rousseau[2]. *[1]Cliniques Universitaires St Luc, Bruxelles, Belgium, [2]Cliniques Universitaires Saint Luc, Bruxelles, Belgium*

**B-302 Targeted Metabolomic Analysis Suggests That Tacrolimus Alters Pipecolic Acid and Sarcosine Metabolisms**
G. Grzych, J. Labasque, M. Bout. *Chu Lille, Lille, France*

**B-303 Urine Based PSA Assay—A Surrogate Marker for Invasive Prostate Cancer**
N. Hoti[1], T. Shing Lih[2], K. Mullins[3], L. Sokoll[2], H. Zhang[2]. *[1]University of Maryland Medical Center (UMMC), Baltimore, MD, [2]Johns Hopkins School of Medicine, Baltimore, MD, [3]University of Maryland Medical Center (UMMC), Baltimore, MD*


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# SCIENTIFIC POSTER SESSIONS

**ALL DAY | 9:30 a.m. - 5:00 p.m.**

## PRECISION MEDICINE

**B-304 Multisite Imprecision for the Abbott, Beckman, Roche and Siemens High-Sensitivity Cardiac Troponin Assays at the Female 99TH-Percenitle: A Prospective Analytical Sub-Study From the CODE-MI Trial**

K. Nouri[1], M. Lafrenierea[1], L. Clark[1], J. Buse[2], K. Balogun[2], V. Skihar[2], M. Cheung[3], B. Hoffman[3], J. Taher[3], D. R. Beriault[3], Y. Huang[4], A. Tsui[5], J. E. Raizman[6], D. Blank[7], S. Eintracht[7], R. Djiana[1], C. T. Mark[8], A. W. Lyon[9], M. X. Chen[10], A. Fung[10], J. Simons[11], A. Mattman[10], L. Thorlacius[12], R. A. Booth[13], C. McCudden[13], V. Bhayana[14], J. Lavoie[15], J. Shea[16], A. Lou[17], V. Kulasingam[18], J. St-Cyr[19], C. Roy[20], P. Malinowski[20], N. L. Mills[21], K. H. Humphries[22], P. Kavsak[1]. *[1]Department of Pathology and Molecular Medicine, McMaster University, Hamilton, ON, Canada, [2]Department of Pathology and Laboratory Medicine, University of Saskatchewan, Regina, SK, Canada, [3]Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, ON, Canada, [4]Department of Pathology and Molecular Medicine, Queen's University, Kingston, ON, Canada, [5]Department of Laboratory Medicine and Pathology, University of Alberta, Alberta Precision Laboratories, Edmonton, ON, Canada, [6]Department of Laboratory Medicine and Pathology, University of Alberta, Alberta Precision Laboratories, Edmonton, AB, Canada, [7]Department of Medical Biochemistry, McGill University, Montréal, QC, Canada, [8]Department of Laboratory Medicine, Hamilton Health Sciences, Hamilton, ON, Canada, [9]Saskatchewan Health Authority, Saskatoon, SK, Canada, [10]Department of Pathology and Laboratory Medicine, The University of British Columbia, Vancouver, BC, Canada, [11]Department of Pathology and Laboratory Medicine, The University of British Columbia, Vancouver, ON, Canada, [12]Department of Pathology, Department of Biochemistry and Medical Genetics, University of Manitoba, Winnipeg, MB, Canada, [13]Department of Pathology and Laboratory Medicine, University of Ottawa, Ottawa, ON, Canada, [14]Department of Pathology and Laboratory Medicine, University of Western Ontario, London, ON, Canada, [15]Montréal Heart Institute Research Centre, Montréal, QC, Canada, [16]Department of Laboratory Medicine, Saint John Regional Hospital, Saint John, NB, Canada, [17]Department of Pathology, Dalhousie University, Halifax, NS, Canada, [18]Laboratory Medicine Program, University Health Network, Toronto, ON, Canada, [19]Division of Biochemistry, MUHC OPTILAB cluster, Montréal, QC, Canada, [20]Clinical Research Laboratory and Biobank, Hamilton Health Sciences, Hamilton, ON, Canada, [21]British Heart Foundation Centre for Cardiovascular Science and Usher Institute, University of Edinburgh, Edinburgh, United Kingdom, [22]Centre for Improved Cardiovascular Health (ICVHealth) at Centre for Health Evaluation and Outcome Sciences (CHEOS), Vancouver, British Columbia, Canada; Division of Cardiology, University of British Columbia, Vancouver, BC, Canada*

**B-305 Combined Study of Tumor Tissue Genotype and Serum Tumor Circulating DNA Provided Additional Diagnostic and Prognostic Value in Pediatric Rhabdomyosarcoma**

A. Rubio[1], M. Pérez-Baena[2], J. L. García de Veas Silva[3], G. L. Ramírez-Villar[3], C. Márquez-Vega[3], J. M. Guerrero[4], J. L. Rubio-Prieto[3], H. C. Macher[4]. *[1]IBiS/University of Seville, Sevilla, Spain, [2]University of Seville, Seville, Spain, [3]Virgen del Rocío University Hospital, Seville, Spain, [4]IBiS/Virgen del Rocío University Hospital, Seville, Spain*

**B-306 An Automated Estimated Atherosclerotic Cardiovascular Disease Risk Score**

A. Wolska[1], M. Sampson[2], M. Amar[1], M. Ueda[3], R. Dunbar[3], D. Soffer[3], A. T. Remaley[1]. *[1]Lipoprotein Metabolism Laboratory, Translational Vascular Medicine Branch, National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, MD, [2]Department of Laboratory Medicine, Clinical Center, National Institutes of Health, Bethesda, MD, [3]Perelman School of Medicine, Department of Internal Medicine, University of Pennsylvania, Philadelphia, PA, USA, Philadelphia, PA*

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