WE ARE
CREATORS+
CHALLENGERS
PIONEERS+
PATHFINDERS
DREAMERS+
DISRUPTORS

PROGRAM & POSTER
ABSTRACTS GUIDE

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

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

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

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

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

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

REGISTRATION
General Registration
Location: Exhibit Hall E
Phone: 714-765-2030
Sunday 7:30 a.m. - 6:30 p.m.
Monday - Wednesday 7:00 a.m. - 5:00 p.m.
Thursday 8:00 a.m. - 12:00 p.m.

INFORMATION DESK
Location: Exhibit Hall B Lobby
Staff will be available to answer general questions and assist with event and meeting room locations.

HOUSING
Location: Exhibit Hall E
Representatives from SPARGO, ADLM's official housing agency, will be available to assist with your hotel accommodations.

HEADQUARTERS OFFICE
Location: 303B
Phone: 714-765-2014
Contact the Headquarters Office if you have general questions at the meeting. Also use this number if you have an emergency situation.

Headquarters Office Hours
Saturday 12:00 p.m. - 5:00 p.m.
Sunday 7:30 a.m. - 6:30 p.m.
Monday - Wednesday 7:00 a.m. - 5:00 p.m.
Thursday 8:00 a.m. - 12:00 p.m.

BAG & COAT CHECK
Location: Hall E Lobby
Monday - Wednesday 7:00 a.m. - 6:00 p.m.
Thursday 7:00 a.m. - 1:00 p.m.
Cost per item: coat check $3.50, bag or poster $4.50

LOST & FOUND
Location: 201D
Phone: 714-765-2016
Security will be available to help locate and distribute lost and found items.

FIRST AID
Location: Exhibit Hall B Lobby
Emergency Phone Number: 714-765-8975
Dial emergency phone number from any telephone in the convention center. In hotels, dial 0 from any phone.

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

SPEAKER READY ROOM
Location: 304A
All moderators and speakers need to check in to the Speaker Ready Room at least two hours prior to the session start time. Speakers will be able to check in with ADLM staff, turn in updated presentations, schedule a time to run through their presentation, and pick up per diem checks, if applicable.

Speaker Ready Room Hours
Saturday 12:00 p.m. - 5:00 p.m.
Sunday - Wednesday 7:30 a.m. - 5:00 p.m.
Thursday 7:30 a.m. - 12:00 p.m.

FOLLOW ADLM
@myADLM on Twitter and use #2023AACC to join the conversation
PRESS ROOM  
Location: 213A  
Phone: 714-765-2025

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

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

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

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

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

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

CLINICAL LAB EXPO  
Location: Exhibit Hall A-D

Tuesday - Wednesday  9:30 a.m. - 5:00 p.m.  
Thursday  9:30 a.m. - 12:00 p.m.

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

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

OPENING MIXER
SUNDAY, JULY 23 | 6:45 p.m. - 8:00 p.m.
Join us at the Anaheim Convention Center’s Grand Plaza to celebrate AACC’s evolution into the Association for Diagnostics & Laboratory Medicine (ADLM).

UNI5K New This Year!
MONDAY, JULY 24 | 6:00 a.m. - 7:00 a.m.
Join us for the inaugural 5K walk/run being held to honor the power of laboratory medicine. The event will occur on a path at the Anaheim Convention Center campus and is being hosted in partnership with the UNIVANTS of Healthcare Excellence Program. Registration closes Sunday, July 23 at 5:00 p.m. U.S. Pacific Time. Visit meeting.aacc.org/UNI5K to register.

AUXILIARY EVENTS
VARIOUS DATES AND TIMES
2023 AACC offers a variety of special events where attendees can meet up with colleagues from across the globe. Visit meeting.aacc.org/special_events or the mobile app.

CLINICAL LAB EXPO HAPPY HOUR
TUESDAY, JULY 25 | 4:00 p.m. - 5:00 p.m.
Mix and mingle at the Clinical Lab Expo Happy Hour. One complimentary drink per person.

RECHARGE ON WEDNESDAY
WEDNESDAY, JULY 26 | 2:00 p.m.
Light refreshments are available on the expo floor. Please note these are first come, first served, and will only be available while supplies last.

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

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

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

TO DOWNLOAD:
• Visit meeting.aacc.org/2023app
• Search for the app on the Apple App Store, Google Play or scan the barcode.
## REGISTRATION TYPES & EVENTS

<table>
<thead>
<tr>
<th>EVENTS</th>
<th>IN-PERSON + DIGITAL ACCESS</th>
<th>IN-PERSON ONLY</th>
<th>IN-PERSON + DIGITAL ACCESS</th>
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<tbody>
<tr>
<td>Plenary Sessions</td>
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<td>10000 Series</td>
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<tr>
<td>Scientific Sessions</td>
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<td>30000 Series</td>
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<td>Meet the Experts</td>
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<td>60000 Series</td>
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<td>AACC University</td>
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<tr>
<td>190000 Series</td>
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<td>Roundtable Sessions</td>
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<td>40000 Series morning</td>
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<td>50000 Series afternoon</td>
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<tr>
<td>Poster Hall</td>
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<tr>
<td>Exhibit Hall A-D, July 25 - 26</td>
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<tr>
<td>Special Events</td>
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<tr>
<td>Opening Mixer</td>
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<td>July 23</td>
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<td>Clinical Lab Expo</td>
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<tr>
<td>Exhibit Hall A-D, July 25 - 27</td>
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<tr>
<td>Industry Presentations</td>
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<td>(Hotel + Expo Floor)</td>
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<td>Startup City presented by DxpX US Conference</td>
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<tr>
<td>Exhibit Hall A-D, July 25 - 27</td>
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<tr>
<td>Disruptive Technology Special Session</td>
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<td>Access to Digital Pass Content</td>
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<tr>
<td>July 28 - August 28, 2023</td>
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<td>Access Session Recordings</td>
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<tr>
<td>August 29, 2023 - July 31, 2024</td>
<td>☑ Member</td>
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<tr>
<td></td>
<td>$ Non-member</td>
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</tr>
</tbody>
</table>

- **T**: Ticket required
- **$**: May purchase ticket
- **$:** Not eligible to purchase ticket
- **X**: May NOT attend

**Included with registration type**

- **General Meeting Information 5**
ACTIVITY LOCATIONS

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

HILTON ANAHEIM
• Governance Activities
• Affiliated Organization Meetings
• Industry Workshops

MARRIOTT ANAHEIM
• SYCL Workshop
• Governance Activities
• Affiliated Organization Meetings
• Industry Workshops

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

Southern California is superlative when it comes to shopping, dining, and entertainment, and Anaheim is at the epicenter of it all. visitanaheim.org/aacc
# SHUTTLE SERVICES

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

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

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

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

Hotels Within Walking Distance of Anaheim Convention Center

- Clarion Hotel Anaheim Resort
- Cortona Inn & Suites Anaheim Resort
- Courtyard by Marriott Anaheim Resort Convention Center
- DoubleTree Suites by Hilton Hotel Anaheim Resort/Convention Center
- Hilton Anaheim
- Hyatt Place at Anaheim Resort/Convention Center
- Marriott Anaheim
- Portofino Inn & Suites
- Residence Inn Anaheim Resort/Convention Center
- Sheraton Park at the Anaheim Resort
- Springhill Suites Anaheim Resort/Convention Center
- Westin Anaheim Resort
THANK YOU 2023 SPONSORS  as of June 2, 2023

Abbott
American Screening Corporation
Anbio Biotechnology
ARUP Laboratories
ASKION GmbH
Autonomous Medical Devices Incorporated
Binding Site, Inc.
BioIVT
bioMerieux, Inc.
BioPorto
Bio-Rad Laboratories
Chromsystems GmbH
Co-Diagnostics, Inc. (Co-Dx)
CorDx Inc.
Cytiva
DiaSorin Inc.
Diazyme Laboratories, Inc.
DxPxA Conference
ET Healthcare
Eurotrol, Inc.
Fapon Biotech Inc.
Financière Lully D-Linxens
Fortis Life Sciences
Golden West Biologicals, Inc.
Gore & Associates
Haemonetics Corporation
hc1
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Hologic, Inc.
Indigo BioAutomation
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KB Medical Group Inc
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labcorp
Lumigenex
Medica Corporation
MeMed
MilliporeSigma
New England Biolabs, Inc.
Nova Biomedical Corporation
NTL Biotech
Performance Motion Devices
PLUGS (Patient-centered Laboratory Utilization Guidance Services)
Porex Life Sciences Institute
QuidelOrtho
Randox Laboratories
Rhinomed, Inc
Roche Diagnostics
Sansure Biotech, Inc.
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SCIEX
Seegene, Inc.
Sekisui Diagnostics LLC
Siemens Healthineers
Sight Diagnostics
Sol-Millennium Medical Inc.
SteriPack
Sugentech, Inc.
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TELCOR
THE ECONOMIST INTELLIGENCE UNIT
Thermo Fisher Scientific
Tosoh Bioscience
UTAK
Waters Corporation
Werfen Group
Whitehat Communications
ZeptoMetrix Corporation
The Annual Meeting Organizing Committee (AMOC), comprised of 12 expert volunteers, attends to all the details of making each year's AACC Annual Scientific Meeting & Clinical Lab Expo a must-attend education and networking event. The committee oversees the planning, development, and ultimate delivery of a timely and engaging scientific program that serves the diverse community of laboratory medicine professionals.
ASSOCIATION FOR DIAGNOSTICS & LABORATORY MEDICINE (ADLM)
BOARD OF DIRECTORS

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  Ann & Robert H. Lurie Children’s Hospital of Chicago
  Northwestern University Feinberg School of Medicine
  Chicago, IL

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  University of Pittsburgh Medical Center
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  Perelman School of Medicine at the University of Pennsylvania
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  Rochester, NY

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  Vancouver, BC, Canada

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  Milwaukee, WI

• Christopher McCudden PhD, DABCC, FACB, FCACB
  University of Ottawa
  Eastern Ontario Regional Laboratory Association
  The Ottawa Hospital
  Ottawa, ON, Canada

• Christine Schmotzer, MD
  University Hospitals Health System
  University Hospitals Diagnostic Institute
  Case Western Reserve University
  Cleveland, OH

• Bonny Lewis Van, PhD, FAACC, HCLD(ABB)
  J. Michael Consulting LLC
  Roswell, GA

EX-OFFICIO WITH VOTE, PRESIDENT OF THE AACC ACADEMY
• Yusheng Zhu, PhD, DABCC, FAACC
  Penn State University Hershey Medical Center
  Hershey, PA

EX-OFFICIO WITH VOTE, CHAIR, CLINICAL LAB SCIENTISTS COUNCIL
• Erika Deaton-Mohney, BS, MT(ASCP), CPP
  Bronson Laboratory
  Kalamazoo, MI

EX-OFFICIO
• Mark J. Golden, FASAE, CAE
  CEO, ADLM
  Washington, DC
AACC AWARDS

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

COMMITTEE MEMBERS

Uttam Garg, PhD, DABCC, FAACC, FABFT; Chair
Alison Woodworth, PhD, DABCC
Ann M. Gronowski, PhD
Brett Holmquist, PhD, ASCP, DABCC, FAACC
Susan A. Evans, PhD

AWARD WINNERS

2023 Wallace H. Coulter Lectureship Award
Jeffrey I. Gordon, MD
Washington University School of Medicine
St. Louis, MO

Outstanding Lifetime Achievement Award in Clinical Chemistry and Laboratory Medicine
Robert H. Christenson, PhD, DABCC, FAACC, FACC
University of Maryland School of Medicine
Baltimore, MD

Outstanding Contributions Through Service to the Profession of Clinical Chemistry
Patricia M. Jones, PhD
Children’s Medical Center Dallas
Dallas, TX
AACC AWARDS

Outstanding Contributions to Education in Clinical Chemistry
Gary L. Horowitz, MD
Tufts Medical Center
Boston, MA

Outstanding Scientific Achievements by a Young Investigator
Victoria Higgins, PhD, FCACB
DynaLIFE Medical Labs
Edmonton, AB, Canada

Clinical Laboratory Scientist Achievement Award
Elia M. Mears, MS, MT(ASCP)SM
The Joint Commission
Houma, LA

Past President’s Award
Stephen R. Master, MD, PhD, FAACC
Children’s Hospital of Philadelphia
Perelman School of Medicine at the University of Pennsylvania
Philadelphia, PA
ACADEMY AWARDS

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

COMMITTEE MEMBERS
Gyorgy Abel, MD, PhD, FAACC; Chair
Zhimin (Tim) Cao, PhD, MD, DABCC, FAACC
Uttam Garg, PhD, ABFT, DABCC, NRCC, FAACC
Jay Kalra, PhD, ABFT, DABCC, NRCC, FAACC
Khushbu Patel, PhD, DABCC, FAACC

AWARD WINNERS

AACC Academy Award for Outstanding Contributions to Clinical Chemistry in a Selected Area of Research
Michael Y Tsai, PhD, FAACC, FAHA
Professor, Laboratory Medicine and Pathology, University of Minnesota

AACC Academy Professor Alvin Dubin Award for Outstanding Contributions to the Profession and the Academy
James Ritchie, PhD, DABCC, FAACC
Emeritus Professor, Department of Pathology and Laboratory Medicine, Emory University

AACC Academy George Grannis Award for Excellence in Research and Scientific Publication Award
Nadia Ayala-Lopez, PhD, MLS (ASCP), DABCC, NRCC
Director, Clinical Chemistry, Medical Affairs, Central Laboratory Services, Labcorp
THE ACADEMY

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

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

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

FULL FELLOW
Barnali Das, MD Kornelia Galior, PhD Ruben Luo, PhD
Pradip Datta, PhD Kristin Hauff, PhD Anu Maharjan, PhD
Katherine Dozier, PhD Grace Kroner, PhD Jeannie Stubblefield, PhD

ASSOCIATE FELLOW
Mustafa Barbhuiya, PhD

OTHER AACC AWARDS
Student Research and Academy Distinguished Abstract awards are noted in the poster abstract section of this guide. For a full list of Awards, including SYCL Awards and Division Abstract Awards, please visit meeting.aacc.org/awards.
The 2023 AACC Annual Scientific Meeting & Clinical Lab Expo brings together the global laboratory medicine community and provides the latest education to meet the changing needs of laboratory professionals. Participants have two opportunities to connect with global leaders, learn about cutting edge technology, and stay up to date on best practices and advances in laboratory medicine.

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

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

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

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

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

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

DISCLOSURE POLICY
The faculty, planning committee members, and staff who are in a position to control the content of this activity are required to disclose to AACC and to learners any financial relationship(s) of the individual that have occurred within the last 24 months with any ineligible companies. An ineligible company is one whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. Financial relationships are defined by remuneration in any amount from the ineligible companies in the form of grants; research support; consulting fees; salary; ownership interest (e.g., stocks, stock options, or ownership interest excluding diversified mutual funds); honoraria or other payments for participation in speakers’ bureaus, advisory boards, or boards of directors; or other financial benefits. The intent of this disclosure is not to prevent planners with financial relationships from planning or delivering content, but rather to provide learners with information that allows them to make their own judgments of whether these financial relationships may have influenced the educational activity with regard to exposition or conclusion. AACC has reviewed all disclosures and mitigated all identified conflicts of interest, as applicable.

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

- **David Alter**
  - Consultancy(ies), Advisory Boards, etc.: Siemens-Healthineers
  - Lecture Fees (Honoraria, Speakers Bureau, etc.): MooreHall LLC

- **Christopher Farnsworth**
  - Consultancy(ies), Advisory Boards, etc.: Abbott, Biorad, Cytovale, Siemens, Werfen
  - Lecture Fees (Honoraria, Speakers Bureau, etc.): Abbott, Roche Diagnostics
  - Grant Support: Abbott Laboratories, Beckman Coulter, Cepheid, NOWDiagnostics, Qiagen, Roche Diagnostics, Siemens Healthineers, Sebia, The Binding Site

- **Deborah French**
  - Consultancy(ies) Advisory Boards, etc.: ARK Diagnostics, Sage Medical
  - Expert Witness: Wilson, Sonsini, Goodrich, and Rosati

- **Allan Jaffe**
  - Consultancy(ies), Advisory Boards, etc.: Abbott, Amgen, Astellas, Beckman, ET Healthcare, Novartis, Ortho, Radiometer, RCE Technologies, Roche, Siemens Healthineers, Sphingotec, Spinchip
  - Patents or Royalties: Patent for “Methods for the detection and monitoring of acute myocardial infarction”
  - Stock Ownership: RCE Technologies
• Peter Kavsak  
Consultancy(ies), Advisory Boards, etc.:
Abbott, Beckman Coulter, Quidel, Randox, Roche, Siemens
Lecture Fees (Honoraria, Speakers Bureau, etc.): Beckman Coulter, Roche, Siemens, Thermo Fisher
Grant Support: Abbott, Beckman Coulter, Ortho Clinical Diagnostics, Randox, Roche, Siemens
Patents or Royalties: Patents for methods regarding assessing risk of heart failure, assessing risk of cardiac events, and determining acute kidney injury

• Mark Marzinke  
Consultancy(ies), Advisory Boards, etc.:
Bio-Rad
Grant Support: Merck, Gilead, ViiV/GSK

• Amy Saenger  
Consultancy(ies), Advisory Boards:
Radiometer

• Nicole Tolan  
Consultancy(ies), Advisory Boards, etc.:
CIC Health
Grant Support: Abbott Diabetes Care, Biomerieux

• Zhen Zhao  
Consultancy(ies), Advisory Boards, etc.:
ET Healthcare, Siemens Healthineers
Lecture Fees (Honoraria, Speakers Bureau, etc.): Siemens Healthineers
Grant Support: ET Healthcare, Novartis, Polymedco, Roche Diagnostics, Siemens Healthineers, Waters

The following activity planners reported no financial relationships:
Roger Bertholf, Saswati Das, Andrew Don-Wauchope, Elia Mears, Khushbu Patel, Edmunds Reineks, Clayton Wilburn, Gabrielle Winston-McPherson

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

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

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

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

Drugs and Dosages
When prescribing medications, the physician is advised to check the product information sheet accompanying each drug to verify conditions of use and to identify any changes in drug dosage schedule or contraindications.
POLICY ON UNLABELED/ OFF-LABEL USE
The association has determined that disclosure of unlabeled/off-label or investigational use of commercial product(s) is informative for audiences and therefore requires this information to be disclosed to the learners at the beginning of the presentation. Uses of specific therapeutic agents, devices, and other products discussed in this educational activity may not be the same as those indicated in product labeling approved by the Food and Drug Administration (FDA). The association requires that any discussions of such “off-label” use be based on scientific research that conforms to generally accepted standards of experimental design, data collection, and data analysis. Before recommending or prescribing any therapeutic agent or device, learners should review the complete prescribing information, including indications, contraindications, warnings, precautions, and adverse events.

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

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

ELIGIBILITY TO EARN CONTINUING EDUCATION CREDIT
You must be registered for the Annual Scientific Meeting to be eligible to earn continuing education credit (ACCENT® or AMA PRA Category 1 Credit™) for the following sessions of the AACC Annual Scientific Meeting: AACC University, Plenary, Meet-the-Expert, Scientific Sessions, and Roundtables. CE/CME certificates are provided to registered participants based on completion of the activity, in its entirety, including the activity evaluation.
*Individuals registered as Guest/Spouse or Expo Only are not eligible to earn credit for these sessions.

SYSTEM REQUIREMENTS
To claim continuing education credit, participants must have access to a computer or mobile device with an Internet connection and use an up-to-date version of any major Web browser, such as Microsoft Edge, Firefox, Safari, or Google Chrome. Internet Explorer is no longer supported. In addition, cookies and Javascript must be enabled in the browser’s options.
INSTRUCTIONS TO CLAIM CE/CME AND CERTIFICATE OF ATTENDANCE

1. To claim your credits and/or to obtain your Certificate of Attendance, click the Claim CE/CME tile on the meeting mobile app or go to aacc.org/ASMcredits23.

2. Log in using your last name and AACC Customer Number (or badge number).

3. For CE and CME credits, you will be required to evaluate each session attended; then print (or save) your Verification of Participation or credit certificate.

4. For sessions you attend where your name badge is scanned, sessions will automatically appear in your session list. You may add more sessions and you may delete sessions.

5. Credits may be claimed at any time, i.e., at the end of each session, each day, or after the meeting ends.

6. Credits may be claimed using a computer, laptop, tablet, smartphone, or other electronic device.

7. Credits for the 2023 AACC Annual Scientific Meeting must be claimed by November 1, 2023.

CLAIMING CREDIT FOR ONLINE DIGITAL PASS SELECT SESSIONS
Anaheim All Access registrants will receive access to online Digital Pass Select sessions from July 28 - August 28, 2023. Visit the mobile app or aacc.org/ASMcredits23 and evaluate each session you viewed to update your credits. You may not claim credit for a single session twice.

RELEASE DATE: July 23, 2023
EXPIRATION DATE: November 1, 2023 (date after which this activity is no longer certified for continuing education credit)

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

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

1. OPEN THE RESOURCE CENTER
   Go to aacc.org/handouts OR
   Scan the QR code on your badge

2. LOGIN
   Enter the following to login:
   A. BADGE NUMBER:
      Listed on left side of badge
   B. LAST NAME:
      Exactly as entered when registering
SESSION INFORMATION

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

SESSION LEVEL CONTENT
• **Basic:** Introductory content appropriate for participants who lack previous training or experience in the subject, or whose previous experience or training is minimal.

• **Intermediate:** Requires knowledge of the basic theory applicable to the general subjects as well as some prior training and education in the subject.

• **Advanced:** Specialized content appropriate for those with working knowledge of current theory and practices and who wish to refine their skills or learn the newest principles and techniques.

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

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

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

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

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

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

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

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

SUNDAY, JULY 23
Human postnatal development is typically viewed from the perspective of our “human” organs. As we come to appreciate how our microbial communities are assembled following birth, there is an opportunity to determine how this microbial facet of our developmental biology is related to healthy growth as well as to the risk for and manifestations of disorders that produce abnormal growth. We are testing the hypothesis that perturbations in the normal development of the gut microbiome are causally related to childhood undernutrition, a devastating global health problem whose long-term sequelae, including stunting, neurodevelopmental abnormalities, plus metabolic and immune dysfunction, remain largely refractory to current therapeutic interventions. The journey to preclinical proof-of-concept, and the path forward to clinical proof-of-concept emphasize the opportunities as well as the experimental and analytic challenges encountered when developing microbiome-directed therapeutics.
### AACC UNIVERSITY

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

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<tr>
<td>191001</td>
<td>Visualizing Laboratory Data: The Good, the Bad, and the Ugly</td>
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**Moderator**

- Moving from Data to Figures: Best Practices for Visualizing Laboratory Data
  **Dustin Bunch,** PhD, DABCC, Nationwide Children’s Hospital, Columbus, OH

- Data Visualization Strategies for Laboratorians: The Good, the Bad, and the Ugly
  **Nicholas Spies,** MD, Washington University School of Medicine, Saint Louis, MO

- Capturing Geospatial Data: Tools and Techniques for Visualizing Laboratory Data Beyond the Walls of the Core Laboratory
  **Vahid Azimi,** MD, Washington University School of Medicine, Saint Louis, MO

| 191002  | Next Generation Sequencing for Laboratorians: Understanding the Essentials | 206 | 3.0 | 3.0 | B |

In cooperation with the Molecular Pathology Division

- NGS as a Tool for Precision Medicine: How to Choose the Best Test for Your Patient
  **Christina Lockwood,** PhD, DABCC, DABMGG, University of Washington, Seattle, WA

- NGS Applications for Inherited Testing: Casting an Ever-Widening Net
  **Jillian Buchan,** PhD, DABMG, University of Washington, Seattle, WA

- Practical Considerations for NGS Testing in Oncology
  **Vera Paulson,** MD, PhD, University of Washington, Kirkland, WA

| 191003  | Drug of Abuse Testing: What Lab Staff and Providers Need to Know | 208 | 3.0 | 0 | B |

**Moderator**

- Jennifer Colby,** PhD, DABCC, FAACC, Abbott, Pomona, CA
- Sarah Delaney,** PhD, DABCC, Unity Health Toronto, ON, Canada
- Christine Snozek,** PhD, DABCC, FAACC, Mayo Clinic, Scottsdale, AZ

| 191004  | Using Patient Data-Derived Biological, Analytical, and Preanalytical Variation to Optimize Patient Data QC/QA, RCV Calculations, and Test Ordering | 209 | 3.0 | 3.0 | I |

- Precision: A Precious Quantity of Measurements
  **Anders Kallner,** MD, PhD, Karolinska University Hospital, Stockholm, Sweden

- Opportunistic, Ever-Vigilant QC and QA: Transforming Sequential Patient Results into Total Variation – Preanalytical + Analytical + Biological
  **George Cembrowski,** MD, PhD, University of Alberta/ccQcc, Edmonton, AB, Canada

- Patient-Based Real-Time Quality Control: Increasing Specificity and Specificity
  **Mark Cervinski,** PhD, DABCC, FAACC, Dartmouth-Hitchcock Medical Center, Lebanon, NH

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LEVEL: ⚡ BASIC  🔔 INTERMEDIATE  🔘 ADVANCED
### SESSION 193010

**How to Truly “Excel” at Data Analysis and Visualization: An Introduction to the R Programming Language**

- **Room:** 204BC
- **Credits:** 6.0 / 6.0
- **Level:** B

*In cooperation with the AACC Data Analytics Steering Committee*

- **Introduction to R and RStudio**
  - Amrom Obstfeld, MD, PhD, Children’s Hospital of Philadelphia/University of Pennsylvania, Philadelphia, PA

- **Data Transformation**
  - Robert Benirschke, PhD, MScBMI, DABCC, FAACC, Northshore University Health System, Evanston, IL

- **Data Visualization and Interactive Dashboard Development**
  - Patrick Mathias, MD, PhD, University of Washington School of Medicine, Seattle, WA

**Moderator:**

**Session Description:**

- Introduction to R and RStudio
- Data Transformation
- Data Visualization and Interactive Dashboard Development

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### SESSION 193011

**Solving Problems and Resolving Challenges in Point-of-Care Testing**

- **Room:** 207AB
- **Credits:** 6.0 / 0
- **Level:** I

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

- **Remind Me, What Does ‘100% Competent’ Mean?**
  - Peggy Mann, MS, MT (ASCP), CPP, University of Texas Medical Branch, Galveston, TX

- **It’s 2023: Using Partnerships to Integrate Quality and Compliance into Point-of-Care Testing**
  - Kimberly Skala, BS, MT (ASCP), Werfen, Oak Lawn, IL

- **Staying Connected in an Increasingly Remote World: Tips and Tricks to Help Keep Your Point-of-Care Program Interfaced**
  - Kerstin Halverson, MS, Werfen, Farmington, MN

- **Operational Management Strategies of Point-of-Care Testing: A Mixture of Ambulatory and Hospital Settings**
  - Jeanne Mumford, BS, MLS (ASCP), Johns Hopkins Hospital, Baltimore, MD

**Moderator:**

**Session Description:**

- Remind Me, What Does ‘100% Competent’ Mean?
- It’s 2023: Using Partnerships to Integrate Quality and Compliance into Point-of-Care Testing
- Staying Connected in an Increasingly Remote World: Tips and Tricks to Help Keep Your Point-of-Care Program Interfaced
- Operational Management Strategies of Point-of-Care Testing: A Mixture of Ambulatory and Hospital Settings

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

Download the mobile app at meeting.aacc.org/2023app
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<tr>
<td>193012</td>
<td>Establishment and Implementation of Test Methods into the Clinical Laboratory Using CLSI’s Test Life Phase Model</td>
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Moderator: Paula Ladwig, MS, MLS (ASCP), Mayo Clinic, Rochester, MN

- **Using CLSI Guideline to Ensure a Quality LDT Method: A Real-Life Example**
  - **Moderator**: Paula Ladwig, MS, MLS (ASCP), Mayo Clinic, Rochester, MN
  - **Participants**: J. Rex Astles, PhD, FAACC, Centers for Disease Control and Prevention, Atlanta, GA
  - **FDA QSR Requirements**
    - Christopher Dailey, PhD, Miravista Diagnostics, Brownsburg, IN
  - **An External Reviewer’s Perspective**
    - Zhimin Cao, MD, PhD, DABCC, FAACC, SUNY Upstate Medical University, Syracuse, NY

| 193013  | LC-MS/MS Operations in the Clinical Laboratory | 210CD | 6.0 | 0 | 1 |

Moderator: Russell Grant, PhD, Labcorp, Burlington, NC

- **Participants**: Russell Grant, PhD, Labcorp, Burlington, NC
  - Brian Rappold, BS, Labcorp, Raleigh, NC

Scientific Sessions 27
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<td>192005</td>
<td>Indirect Reference Intervals: A Workshop Regarding Principles, Prerequisites, and Practical Application of Statistical Techniques</td>
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In cooperation with the IFCC Task Force on Global Reference Interval Database

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

- **The Principles of Reference Intervals and Their Determination by Direct and Indirect Techniques**
  Jakob Zierk, PD Dr med, University Hospital Erlangen, Erlangen, Germany

- **Data Prerequisites and Statistical Approaches to Establish and Verify Indirect Reference Intervals**
  Thomas Streichert, Dr med, University Hospital Cologne, Köln, Germany

- **Workshop on Indirect Reference Intervals Techniques Including Data Cleaning and Application of refineR**
  Jakob Zierk, PD Dr med, University Hospital Erlangen, Erlangen, Germany

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<td>192006</td>
<td>Understanding Clinical Coagulation Testing: Basics for the Non-Hematologist</td>
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In cooperation with the Hematology & Coagulation Division

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

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

FOLLOW ADLM @myADLM on Twitter and use #2023AACC to join the conversation
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<td>Moderator: Patrick Kyle, PhD, ABFT, DABCC, FAACC, University of Mississippi Medical Center, Jackson, MS</td>
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<td>Mark Cervinski, PhD, DABCC, FAACC, Dartmouth-Hitchcock Medical Center, Lebanon, NH</td>
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<td>192008</td>
<td>The Laboratory Leader as Strategist: Extending Boundaries for Clinical Laboratory Influence and Impact</td>
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<td>• Influence and The Art of Persuasion</td>
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<td>Sedef Yenice, PhD, MBA, Gayrettepe Florence Nightingale Hospital, Istanbul, Turkey</td>
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<td>Edward Randell, PhD, Eastern Health, St. Johns, NL, Canada</td>
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<td>Matthias Orth, MD, PhD, Vinzenz von Paul Kliniken gGmbH Marien Hospital, D-70199 Stuttgart, Germany</td>
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<td>• Principles of Program Evaluation</td>
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<td>Praveen Sharma, PhD, FAMS, FAACC, All India Institute of Medical Sciences, Jodhpur, India</td>
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<td>Serum Protein Electrophoresis: Best Practices for Everyday Interpretation</td>
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<td>Katherine Turner, PhD, DABCC, Spectrum Health, Grand Rapids, MI</td>
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<td>David Murray, MD, PhD, MBA, MT (ASCP), Mayo Clinic, Rochester, MN</td>
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<td>• Case Presentations Addressing the Best Practices of Protein Electrophoresis</td>
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<td>David Manthei, MD, PhD, University of Michigan, Ann Arbor, MI</td>
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JOIN ADLM

ADLM members get member-exclusive discounts on educational offerings and meetings like 2023 AACC, access to the popular Member Lounge, and other perks. Stop by ADLM Booth #2235 for a special membership offer.

THREE MORE REASONS TO JOIN

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SEE YOU NEXT YEAR IN CHICAGO

Next year’s annual scientific meeting will be held in Chicago, Illinois, July 28 - August 1, 2024. Start planning today!
PLENARY + SCIENTIFIC SESSIONS

MONDAY, JULY 24
There is an urgent need to take what we have learned in our new data-driven era of medicine, and use it to create a new system of precision medicine, delivering the best, safest, cost-effective preventative or therapeutic intervention at the right time, for the right patients. Dr. Butte’s teams at the University of California build and apply tools that convert trillions of points of molecular, clinical, and epidemiological data — measured by researchers and clinicians over the past decade and now commonly termed “big data” — into diagnostics, therapeutics, and new insights into disease. Dr. Butte, a computer scientist and pediatrician, will highlight his center’s recent work on integrating electronic health records data from over 8 million patients across the entire University of California, and how analytics on this “real world data” can lead to new evidence for drug efficacy, new savings from better medication choices, and new methods to teach intelligence — real and artificial — to more precisely practice medicine.
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<td>A Case of Finding Needles in a Haystack: Retrospective Random Error Identification in a Large Laboratory Dataset</td>
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<td>Clarence Chan, MD, PhD, The University of Chicago, Chicago, IL</td>
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<td>Accuracy and Reliability of Vitamin D Measurements: Observations Made by the CDC Clinical Standardization Programs</td>
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<td>Otoe Sugahara, BS, Centers for Disease Control and Prevention, Atlanta, GA</td>
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<td>Clinical Assay Interference: The Common Sources of Uncommon Interferences</td>
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<td>Zahra Shajani-Yi, PhD, DABCC (CC), NRCC-CC, FAACC, Labcorp, San Diego, CA</td>
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<td>Collect It Yourself! Putting Innovations and Advances in Self-Collection Devices into Practice</td>
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<td>Ria Fyffe-Freil, PhD, Mayo Clinic, Rochester, MN</td>
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<td>Cystic Fibrosis: More Than Just Lung Function</td>
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<td>In cooperation with the Pediatric and Maternal-Fetal Division, Anil Kiran Chokkalla, PhD, Baylor College of Medicine, Houston, TX</td>
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<td>Ensuring Quality Measurements of Emerging and Traditional Biomarkers for Cardiovascular Diseases: The CDC Cardiovascular Disease Biomarker Standardization Programs</td>
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<td>Alicia Lyle, PhD, Centers for Disease Control and Prevention, Atlanta, GA</td>
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<td>Evidence-Based Body Fluid Testing</td>
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<td>Hemoglobin Fractionation by Capillary Electrophoresis: A Case-Based Laboratory Analysis of Hemoglobinopathies</td>
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<td>How Blood Tests Are Affected by Transfusion or Apheresis</td>
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<td>Saptarshi Mandal, MD, MS, All India Institute of Medical Sciences, Jodhpur, India</td>
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<td>How Often to Repeat the Test: Importance and Challenges of Minimal Retesting Interval</td>
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<td>Impact of Blood Collection Tube Components on Clinical Assays: The Importance of Validation Studies When Changing Components Due to Supply Chain Disruptions</td>
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<td>Implementation of Alert System for Early Diagnosis of Acute Kidney Injury</td>
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<td>Barnali Das, MD, DNB, PGDHHM, FAACC, Kokilaben Dhirubhai Ambani Hospital &amp; Medical Research Institute, Mumbai, Maharashtra, India</td>
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### ROUNDTABLE SESSIONS

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

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

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

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

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

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<td>62001</td>
<td>Developing Microbiome-Directed Therapeutics for Treating Childhood Undernutrition</td>
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*Moderator* Allan Jaffe, MD, Mayo Clinic, Rochester, MN

Jeffrey Gordon, MD, Washington University School of Medicine, St. Louis, MO

**PRESIDENT’S INVITED SESSION**

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

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<td>32102</td>
<td>Emerging Trends in Laboratory Medicine: Excellence from the Global Community</td>
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In cooperation with the Association for Clinical Biochemistry and Laboratory Medicine, IFCC Working Group on Machine Learning in Laboratory Medicine, and Korean Society of Laboratory Medicine

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

- **Rapid Response Processes for Emerging Infectious Diseases: Importance of Preparedness and Collaboration**
  Heungsup Sung, MD, PhD, University of Ulsan College of Medicine, Seoul, Republic of Korea

- **Appropriate Test Utilization Driving Sustainability**
  Katherine Hayden, FRCPATH, CSci, EuSpLM, BSc, Manchester University NHS Foundation Trust/Association for Clinical Biochemistry and Laboratory Medicine, Manchester, United Kingdom

- **Machine Learning Guidelines for the Global Laboratory Medicine Community**
  Stephen Master, MD, PhD, FAACC, Children’s Hospital of Philadelphia, Philadelphia, PA

FIND SESSION DESCRIPTIONS. STAY UP TO DATE. Download the mobile app at meeting.aacc.org/2023app
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<td>Communication as a Mechanism for Building and Keeping Teams Effective</td>
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<td>• Disengagement, Burnout, and Turnover in Laboratory Medicine</td>
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<td>Sara Love, PhD, DABCC, Siemens Healthineers, Newark, DE</td>
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<td>• Recognizing Yourself While in Communication</td>
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<td>Joy Glasser, MA, Glasser Group Inc., Minneapolis, MN</td>
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<td>• Giving a Gift of Improv for Improv-ing Communication</td>
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<td>Jim Robinson, Consultant, Saint Paul, MN</td>
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<td>The Pathology Informatics Service: A Model for Laboratory Improvement and Education</td>
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<td>• Pathology Informatics Service at Washington University in St. Louis</td>
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<td>Ronald Jackups, MD, PhD, Washington University in St. Louis, Saint Louis, MO</td>
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<td>• Pathology Informatics Service at the University of Washington</td>
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<td>Noah Hoffman, MD, PhD, University of Washington, Seattle, WA</td>
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<td>• Pathology Informatics Service at Houston Methodist Hospital</td>
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<td>Paul Christensen, MD, Houston Methodist Hospital, Houston, TX</td>
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<td>32104</td>
<td>Spanning the Spectrum from Pre- To Post-analytical Effects on Blood Gas Analysis: Updated Guidelines and Challenges in Modern Medicine Among Different Patient Populations</td>
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<td>• New Preanalytical Challenges in Blood Gas Analysis in Modern Medicine and Different Patient Populations</td>
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<td>Felix Leung, PhD, FCACB, Mount Sinai Hospital, Toronto, ON, Canada</td>
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<td>• New Post-analytical Challenges in Blood Gas Analysis in Different Medical Conditions</td>
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<td>J Shirley Li, MD, PhD, DABCC, NRCC, FCACB, The Ohio State University Wexner Medical Center, Columbus, OH</td>
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<td>• Interesting Tidbits and Controversies in Developing the New 3rd Edition of CLSI C46: Blood Gas and pH Analysis and Related Measurements</td>
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<td>John Toffaletti, PhD, DABCC, Duke University Medical Center, Durham, NC</td>
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### SCIENTIFIC SESSIONS

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

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<td>Sepsis: Clinical Updates and Emerging Diagnostic Markers</td>
<td>207AB</td>
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- *The New Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock 2021 in Practice*
  Layla Sankari, MD, University Hospitals Cleveland Medical Center, Cleveland, OH

- *Emerging New Biomarkers for Sepsis: Ready for Implementing?*
  Xiaochun Zhang, MD, PhD, DABCC, DABMLI, HCLD, University Hospitals Cleveland Medical Center, Cleveland, OH

| 32106   | Interpretation of Pediatric Toxicology Results in the Assessment of Child Maltreatment | 208 | 1.5 1.5 | I |

  *In cooperation with the TDM & Toxicology Division*

- *Child Maltreatment Evaluations in the Setting of Positive Toxicology Results*
  Kelsey Merl, NP, MPH, University of California, San Francisco/Benioff Children’s Hospital Oakland, Oakland, CA

- *Pediatric Toxicology: Analytical Approaches and Clinical Cases*
  Kara Lynch, PhD, DABCC, FAACC, University of California, San Francisco, CA

| 32107   | Representation Matters: The Importance of Gender Diversity from the Bench to the Bedside | 209 | 1.5 0 | I |

- *The Chemist's Perspectives*
  Dina Greene, PhD, DABCC, LetsGetChecked, Burien, WA

- *The Trialist’s Perspective*
  Mark Marzinke, PhD, DABCC, FAACC, Johns Hopkins University, Baltimore, MD

- *The Practitioner’s Perspective*
  Zil Goldstein, FNP-BC, AAHIVS, Callen-Lorde, New York, NY

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

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<td>Hyperglycemia in the Hospital: Are Our Tools for Measurement Accurate Enough?</td>
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*In cooperation with the AACC Clinical Societies Collaboration Committee and American Diabetes Association*

- What Should Glucose Targets Be in the Hospital?  
  Mary Korytkowski, MD, University of Pittsburgh, Pittsburgh, PA

- Blood Glucose Meters in the Hospital: Are They Good Enough?  
  David Sacks, MB, ChB, FRCPath, National Institutes of Health, Bethesda, MD

- Continuous Glucose Monitors in the Hospital: Are They Good Enough?  
  Guido Freckmann, MD, Institute for Diabetes Technology GmbH, Ulm, Germany

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

- cfDNA in Prenatal Screening and Diagnosis  
  Christina Lockwood, PhD, DABCC, DABMGG, University of Washington, Seattle, WA

- cfDNA in Tumor Testing  
  Vera Paulson, MD, PhD, University of Washington, Kirkland, WA

STUDENT RESEARCH AWARDS ORAL PRESENTATION COMPETITION

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

The Student Research Awards oral presentation competition includes presentations from four top-scoring students on topics across laboratory medicine.
CHAIR’S INVITED SESSION
Mid-day | 12:30 p.m. - 2:00 p.m.

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

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

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

- How Did Laboratory and Clinical Practice Get to Cardiac Troponin I and T: Is One Assay Superior to the Other?
  Peter Kavsak, PhD, FCACB, FAACC, FCCS, McMaster University, Hamilton, ON, Canada

- High-Sensitivity Troponin for Early Rule-Out of Myocardial Infarction
  Allan Jaffe, MD, Mayo Clinic, Rochester, MN

- Analytical Nuances with High-Sensitivity Troponin Assays: From the 99th Percentile to Macrotroponin
  Kristin Aakre, MD, PhD, Haukeland University Hospital, Bergen Norway

- Updated Recommendations for Utilization of Point-of-Care Cardiac Troponin Assays
  Louise Cullen, MBBS(Hon), FACEM, PhD, Royal Brisbane and Women’s Hospital/ The University of Queensland, Brisbane, Australia

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

SESSION | TITLE | ROOM | CREDITS: ACCENT+/CME | LEVEL
--- | --- | --- | --- | ---
32441 | Project Management in Laboratory Medicine: Principles and Applications in Large and Small Laboratories | 203 | 1.5 | 1.5

Moderator: Brad Karon, MD, PhD, FAACC, Mayo Clinic, Rochester, MN

- Project Management: What Is It, and Why Is It Important in the Laboratory?
  Jo Abel, PMP, Mayo Clinic, Rochester, MN

- Project Management in a Large Laboratory System
  Earle Collum, MD, Labcorp, Phoenix, AZ

- Project Management in Community Hospital Laboratories and Urgent Care Centers
  Kendall Cradic, PhD, OhioHealth Laboratory Services, Powell, OH
## SCIENTIFIC SESSIONS

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

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<tbody>
<tr>
<td>32443</td>
<td>Genomic Testing and the Complexity of Introducing Emerging Technologies in Laboratory Medicine</td>
<td>205</td>
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- **Emerging Technologies: A Definition for Laboratory Medicine and Their Role in Healthcare Worldwide**  
  *Ronda Greaves, PhD, Victorian Clinical Genetics Services, Parkville, VIC, Australia*

- **The Evolving Role of Emerging Genomic Technologies in Laboratory Medicine**  
  *Lianna Kyriakopoulou, PhD, Hospital for Sick Children, Toronto, ON, Canada*

**Moderator**  
*Loralie Langman, PhD, DABCC, Mayo Clinic, Rochester, MN*

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<tbody>
<tr>
<td>32444</td>
<td>Advances in Biomarkers of Transplant Rejection</td>
<td>207AB</td>
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</table>

- **Transplant Rejection: HLA Eplets and Antibody Testing**  
  *Manish Gandhi, MD, Mayo Clinic, Rochester, MN*

- **Donor Derived Cell Free DNA (dd-cfDNA) as a Biomarker in Solid Organ Transplantation**  
  *Stephen Murphy, PhD, Mayo Clinic, Rochester, MN*

**Moderator**  
*Loralie Langman, PhD, DABCC, Mayo Clinic, Rochester, MN*

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<tr>
<td>32445</td>
<td>Bridging Emergency Medicine and Public Health: Clinical Toxicology Laboratory Strategies to Characterize Local Drug Supplies and Drug Use Patterns</td>
<td>208</td>
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</table>

- **Using Qualitative and Ethnographic Research Methods to Assess Shifts in Drug Supplies and Use Patterns**  
  *Alexandra Collins, PhD, Brown University School of Public Health, Providence, RI*

- **Tiered Toxicology Testing to Characterize Local Drug Supply and Overdose Culprits**  
  *Adina Badea, PhD, DABCC, Lifespan Health/Rhode Island Hospital/Brown University, Providence, RI*

- **Toxicology Results Interpretation and Effective Communication for Timely Individual and Community Response**  
  *Rachel Wightman, MD, FACMT, Alpert Medical School of Brown University, Providence, RI*
### SCIENTIFIC SESSIONS

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

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<tr>
<td>32446</td>
<td>An Update on Complement Testing in the Era of Complement Therapeutics</td>
<td>209</td>
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*In cooperation with the Clinical & Diagnostic Immunology Division*

- Advancements and Nuances in Complement Testing in the Clinical Laboratory
  *Ashley Frazer-Abel, PhD, DABMLI, University of Colorado School of Medicine/Exsera BioLabs, Aurora, CO*

- Monitoring of Anti-Complement Therapeutics in Complement-Mediated Renal Diseases
  *Vijayalakshmi (Viji) Nandakumar, PhD, DABCC, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT*

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<td>32447</td>
<td>Cystic Fibrosis: Treatment, Diagnosis, and Laboratory Best Practices</td>
<td>210AB</td>
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*In cooperation with the Pediatric and Maternal-Fetal Division*

- Overview of Cystic Fibrosis Diagnosis and Management
  *Clement Ren, MD, MBA, Children’s Hospital of Philadelphia, Philadelphia, PA*

- Sweating the Small Stuff: Best Practices for Sweat Testing to Diagnose Cystic Fibrosis
  *Edith Zemanick, MD MSCS, University of Colorado and Children's Hospital Colorado, Aurora, CO*

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<td>32448</td>
<td>Artificial Intelligence and Machine Learning in the Clinical Laboratories: Fundamental Concepts, Clinical Use Cases, and Future Considerations</td>
<td>210CD</td>
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*In cooperation with the AACC Data Analytics Steering Committee*

- Foundational Concepts of Analytics, Artificial Intelligence, and Machine Learning
  *Christopher Williams, MD, EE, University of Oklahoma Health Sciences Center, Oklahoma City, OK*

- Artificial Intelligence and Machine Learning Use in the Clinical Laboratories
  *David McClintock, MD, Mayo Clinic, Rochester, MN*

- Future Considerations for Artificial Intelligence and Machine Learning in the Clinical Laboratories: A Focus on Ethics, Regulatory, and Data Governance
  *Thomas Durant, MD, Yale School of Medicine, Wallingford, CT*
### SCIENTIFIC SESSIONS

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

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<tr>
<td>32221</td>
<td>Calculated LDL-Cholesterol: Quo Vadis</td>
<td>202</td>
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**Moderator**

- What is the Best Practice in LDL-Cholesterol? When and How to Calculate
  - Tahir Pillay, MD, PhD, University of Pretoria/National Health Laboratory Service, Pretoria, South Africa

- Risk Assessment in Cardiovascular Disease Using Derived Lipid Profile Parameters
  - Patrick Twomey, MB BCH BAO, FRCPATH, FFPath(RCPI), FRCP, St Vincent’s University Hospital, Dublin, Ireland

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<td>32222</td>
<td>Advances in Courier, Drone, and Automated Laboratory Transport</td>
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**Moderator**

- Mitigating Environmental Factors on Specimens by Standardizing Courier Transport Systems
  - Joe Wiencek, PhD, DABCC, NRCC, FAACC, Vanderbilt University School of Medicine, Nashville, TN

- Drones are Expanding the Horizon of Specimen Transport Systems
  - Timothy Amukele, MD, PhD, ICON Clinical Research, Farmingdale, MD

- Maximizing Efficiency in Processing and Specimen Distribution Through Laboratory Automation
  - Jonathan Genzen, MD, PhD, ARUP Laboratories, Salt Lake City, UT

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<tr>
<td>32223</td>
<td>Interactive Patient Case Presentation: A Discussion Between Laboratory Medicine, Cardiology, and Emergency Medicine Providers Addressing Utilization of High Sensitivity Cardiac Troponin Assays in Clinical Practice</td>
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**Moderator**

- Laboratory Medicine Experience
  - Peter Kavsak, PhD, FCACB, FAACC, FCCS, McMaster University, Hamilton, ON, Canada

- Emergency Medicine Experience
  - Louise Cullen, MBBS(Hon), FACEM, PhD, Royal Brisbane and Women’s Hospital/The University of Queensland, Brisbane, Australia

- Cardiology Experience
  - Allan Jaffe, MD, Mayo Clinic, Rochester, MN
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<tr>
<td>32224</td>
<td>To Immunoassay or To Mass Spec: Lab Stewardship Questions When Bringing Antiepileptic Drug Assays In-House</td>
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<td>• Creating Clinical Value with Low-Volume Immunoassays Testing</td>
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<td>Claire Knezevic, PhD, DABCC, NRCC, Johns Hopkins Medical Institutes, Baltimore, MD</td>
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<td>• Meeting Clinical Needs and Decreasing Sendout Costs with Mass</td>
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<td>Spectrometry Testing</td>
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<td>Alec Saitman, PhD, ASCP, DABCC, Providence Regional Laboratories, Portland, OR</td>
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<td>• Meeting Turnaround-Time Expectations with Flexible Scheduling in Mass</td>
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<td>32225</td>
<td>Assessing Kidney Function by mGFR and eGFR: Current and Future Approaches</td>
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<td>In cooperation with the IFCC Committee on Kidney Diseases</td>
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<td>Moderator: Joe El-Khoury, PhD, DABCC, FAACC, Yale University, West Haven, CT</td>
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<td>• Directly Measuring Patients’ GFR in Routine Clinical Practice</td>
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<td>Jesse Seegmiller, PhD, DABCC, University of Minnesota, Farmington, MN</td>
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<td>• Looking to the Future of Serum Creatinine and eGFR in Assessing Chronic</td>
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<td>Kidney Disease</td>
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<td>John Toffaletti, PhD, DABCC, Duke University Medical Center, Durham, NC</td>
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<td>32226</td>
<td>Person-Centered Care for Opioid Use Disorder: Shifting Roles for Clinical Laboratories and Urine Drug Testing</td>
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<td>Moderator: Danijela Konforte, PhD, FCACB, LifeLabs, Toronto, ON, Canada</td>
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<td>• Clinical Use of Urine Drug Testing in the Context of Patient-Centered Opioid</td>
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<td>Use Disorder Management</td>
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<td>Danijela Konforte, PhD, FCACB, LifeLabs, Toronto, ON, Canada</td>
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<td>• Harm Reduction Services and the Clinical Laboratory: An Important</td>
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<td>Collaboration to Optimize Care</td>
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<td>Sarah Delaney, PhD, DABCC, Unity Health Toronto, Toronto, ON, Canada</td>
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### SCIENTIFIC SESSIONS

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

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<tr>
<td>32227</td>
<td>Leprosy: Diagnostic Challenges in the Endemic Country of Brazil</td>
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**Moderator**

- **Laboratory Tests Used to Support the Clinical Diagnosis of Leprosy**  
  *John Spencer*, PhD, Colorado State University, Fort Collins, CO

- **Active Leprosy Surveillance and Diagnosis Based on Clinical Signs and Symptoms: A 13 Year History of Leprosy in the Brazilian Amazon**  
  *Claudio Salgado*, MD, PhD, Ministry of Health of Brazil and Federal University of Pará, Belém, Pará, Brazil

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<tr>
<td>32228</td>
<td>Stronger Together: Eliminating Racial Healthcare Inequities by Mitigating Systemic Racism</td>
<td>210AB</td>
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**In cooperation with the Health Equity and Access Division**

- **Actions to Transform US Preventive Services Task Force Methods to Mitigate Systemic Racism in Clinical Preventive Services**  
  *Esa Davis*, MD, MPH, FAAFP, University of Pittsburgh Medical Center, Pittsburg, PA

- **A Review of the AACC-NKF Guidance Document on Chronic Kidney Disease Diagnosis: Improving Equity in Chronic Kidney Disease**  
  *Christina Pierre*, PhD, DABCC, Lancaster General Hospital, Lancaster, PA

**Moderator**

- **Centering Laboratory Medicine: Designing Your Organization’s Health Equity Playbook**  
  *Octavia Peck Palmer*, PhD, FAACC, University of Pittsburgh Medical Center, Pittsburgh, PA

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<tr>
<td>32229</td>
<td>Risky Business: Mitigation Strategies for FDA-Modified and LDT Assays Using Alternate Specimen Types</td>
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**In cooperation with the Pediatric and Maternal-Fetal Division**

- **All the Right Moves: Body Fluid Validation Made Accessible**  
  *Steven Cotten*, PhD, DABCC, NRCC, FAACC, University of North Carolina at Chapel Hill, Chapel Hill, NC

**Moderator**

- **War of the Worlds: Inpatient Needs in the Outpatient Setting**  
  *Jane Dickerson*, PhD, DABCC, Seattle Children’s Hospital, Seattle, WA
STUDENT RESEARCH AWARDS COMPETITIONS

MONDAY, JULY 24 | Anaheim Convention Center

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

POSTER COMPETITION
On display 9:30 a.m. - 5:00 p.m.
Judging takes place 2:45 p.m. - 4:00 p.m.
Room: 207CD
Visit over 40 student posters that will be on display showcasing student research for all conference participants and reviewed by in-person judges. Explore the science and network with peers and leaders in the field. Winners of this competition are announced at the ABCC-SYCL Awards and Recognition Reception.

ORAL PRESENTATION COMPETITION
1:30 p.m. - 2:30 p.m.
Room: 206
Hear presentations from the four top-scoring student abstracts from across the field of laboratory medicine. Competitors will present their research to a panel of judges in a brief presentation. The competition is open to conference participants. Winners of this competition are also announced at the ABCC-SYCL Awards and Recognition Reception.
2023 DISRUPTIVE TECHNOLOGY AWARD COMPETITION

Afternoon | 4:30 p.m. - 6:00 p.m.
Location: Ballroom ABC

Sponsored by LabCorp and Siemens Healthineers

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

MASTER OF CEREMONIES
Stephen R. Master, MD, PhD, FAACC, Children’s Hospital of Philadelphia

JUDGES:
Joseph Bernardo, MA
Operating Partner, Linden, LLC

John Blackwood, MS, MBA
Founder, Horizon Dx, LLC

Kelly Y. Chun, PhD
Vice President, R&D, LabCorp

FINALISTS:
Carey-Ann Burnham, PhD
Chief Clinical Officer, Pattern Bioscience

Livia Eberlin, PhD
Chief Scientific Officer, MS Pen Technologies, Inc.

Mounir Koussa, PhD
Co-founder and Vice President of R&D, Vital Biosciences, Inc.
PLENARY+ SCIENTIFIC SESSIONS
TUESDAY, JULY 25
PLENARY SESSION 13001

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

LOCATION: Ballroom ABC
LEVEL: Intermediate
CREDITS: ACCENT*: 1.0, CME: 1.0

Choosing Equity in Healthcare: An Organizational Transformation

Thea L. James, MD, MPH, MBA
Vice President of Mission, Associate Chief Medical Officer, and Co-Executive Director of the Health Equity Accelerator
Associate Professor of Emergency Medicine
Director, Violence Intervention Advocacy Program
Boston Medical Center, Boston, MA

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

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

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

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

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

**7:30 a.m. - 8:30 a.m. (40000 Series) - or - 12:30 p.m. - 1:30 p.m. (50000 Series)**  
**LOCATION:** Ballroom DE  
**CREDITS:** ACCENT®: 1.0, CME: Not eligible

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

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<td>43116</td>
<td>53216</td>
<td>Implementing Point-of-Care Testing in a Freestanding Emergency Department/Urgent Care Setting</td>
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<td>43117</td>
<td>53217</td>
<td>Intraoperative Mass Spectrometry Analysis for Cancer Diagnosis and Surgical Margin Evaluation: Recent Advances and Challenges to Implementation</td>
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<td>43118</td>
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<td>Is the Preanalytical Phase a Challenge or an Opportunity in Laboratory Medicine?</td>
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<td>43119</td>
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<td>Lead Testing: Laboratory and Community Practice-Led Solutions to Increase Access to Testing in High-Risk Communities, Decrease Exposure, and Improve Outcomes</td>
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<td>43120</td>
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<td>Making the Switch: Evaluating New Blood Collection Tubes for Clinical Chemistry Analysis</td>
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<td>Planning for Success! Lessons Learned from Implementing New Clinical Chemistry Analyzers Across a Large Laboratory System</td>
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<td>Red Light, Green Light: Electronic Order Alert Strategies</td>
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<td>43124</td>
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<td>Revising Laboratory Practice to Meet the New American Academy of Pediatrics Guidelines for Management of Hyperbilirubinemia</td>
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<td>43126</td>
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<td>State-Of-Art of Antiphospholipid Antibody Testing: How to Interpret Antibody Results in Combination for the Best Diagnosis and Prognosis of Antiphospholipid Antibody Syndrome?</td>
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<td>43127</td>
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<td>La Importancia de Los Biomarcadores Del Perfil Lipídico Para El Diagnostico Oportuno de Enfermedades Cardiovasculares (presentado en Espanol)</td>
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<td>43128</td>
<td>53228</td>
<td>Thyroid Disease in Pregnancy: How Much do We Know?</td>
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<td>43129</td>
<td>53229</td>
<td>Urine Drug Screening by Gas Chromatography-Mass Spectrometry</td>
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**SCIENTIFIC SESSIONS**

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

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<td>33101</td>
<td>Risk-Based Quality Control: Changing the Way We Do Quality Control</td>
<td>204BC</td>
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</table>
|         | • A Simple Tutorial on Risk-Based Analysis for Quality Control  
Robert Schmidt, MD, PhD, MBA, Labcorp, Burlington, NC |      |     | |
|         | • Precision Quality Control: A Risk-Based Model to Support Quality Control Decisions  
Joseph Rudolf, MD, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT |      |     | |
| 33102   | Decoding Molecular Signatures in Cancer Diagnostics | 205 | 1.5 | 1.5 |
|         | In cooperation with the Molecular Pathology Division  
Moderator  
• Profiling Molecular Signatures That Define Tumorigenesis  
Jude Abadie, PhD, DABCC, DABMGG, FAACC, FACMG, Texas Tech University Health Sciences Center, El Paso, TX |      |     | |
|         | • Mutation Signatures in Hematologic Malignancies and Solid Tumors  
Vera Paulson, MD, PhD, University of Washington, Kirkland, WA |      |     | |
| 33103   | A Roadmap to Successful Data Analytics Projects at your Institution Today and in the Future | 206 | 1.5 | 1.5 |
|         | • The ABCs of Data Analytics in the Laboratory: Tackling Complexity with Confidence  
Thomas Durant, MD, Yale School of Medicine, Wallingford, CT |      |     | |
|         | • Practical Use of Data to Guide Decision Making in the Clinical Laboratory  
David Peaper, MD, PhD, Yale School of Medicine, New Haven, CT |      |     | |
|         | • Taking Laboratory Analytics to the Next Level: Development of Purpose-Built Infrastructure and Resources to Fuel Improved Laboratory Medicine  
Patrick Mathias, MD, PhD, University of Washington School of Medicine, Seattle, WA |      |     | |

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#2023AACC to join the conversation
# Scientific Sessions

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

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<td>The Healthcare Forum: Meeting the 21st Needs of the Laboratory Workforce</td>
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*In cooperation with the AACC Policy & External Affairs Core Committee and AACC Clinical Laboratory Scientists Council*

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

- **The Personnel Crisis and What it Means for Clinical Labs**  
  **David Shiembob, MBA, C (ASCP) CM, ARUP Laboratories, Salt Lake City, UT**

- **Strategies for Addressing the Workforce Shortage**  
  **Frederick Strathmann, PhD, MBA, DABCC (CC, TC), MOBiLion Systems, Warrington, PA**

| 33105 | Heavy Metal and Elemental Toxicity in Humans: Sources of Exposure, Role of Laboratory Medicine, and Case Reports | 207CD | 1.5 | 1.5 | B |

- **Usual and Unusual Sources of Exposure to Toxic Elements: How to Minimize Such Exposure and Treatment Strategies**  
  **Amitava Dasgupta, PhD, DABCC, University of Kansas Medical Center, Lenexa, KS**

- **Elemental Toxicity: Case Reports and the Role of Laboratory Testing**  
  **Paul Jannetto, PhD, DABCC, MT (ASCP), FAACC, Mayo Clinic, Rochester, MN**

| 33106 | A Guide to Interpreting Complex Urine, Umbilical Cord, Meconium, and Hair Toxicology Cases | 208 | 1.5 | 1.5 | I |

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

- **Urine Trouble: Interpreting Complex Urine Toxicology Cases**

- **In Utero Drug Exposure: The Scoop on Umbilical Cord and Poop (Meconium)**  
  **Kamisha Johnson-Davis, PhD, MT (ASCP), DABCC, FAACC, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT**

- **Combing Out the Biases in Hair Toxicology Testing**  
  **Jacqueline Hubbard, PhD, DABCC, C (ASCP), Three Rivers Diagnostics, Oakdale, PA**

| 33107 | Multiple Sclerosis: Beyond Oligoclonal Banding | 209 | 1.5 | 1.5 | B |

*In cooperation with the Clinical & Diagnostic Immunology Division*

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

- **A Clinical Perspective on Multiple Sclerosis: Diagnosis, Prognosis, and Treatment**  
  **W. Oliver Tobin, MBBCh, BAO, PhD, Mayo Clinic, Rochester, MN**

- **Immunoglobulin Kappa Light Chains as an Alternative to Oligoclonal Banding for Diagnosis of Multiple Sclerosis**  
  **Harald Hegen, PD, MD, PhD, Medical University of Innsbruck, Innsbruck, Austria**

- **Monitoring Multiple Sclerosis: The Role of Neurofilaments Light Chain**  
  **Joshua Bornhorst, PhD, DABCC, Mayo Clinic, Rochester, MN**
**SCIENTIFIC SESSIONS**

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

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<td>33108</td>
<td>Reducing Waste, Creating Efficiencies, and Increasing Quality of Patient Care: A Case Study Review of Common Preanalytical Practices and How Small Changes Create a Big Impact</td>
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- **Evaluating “Rainbow” Draws and Extra Tube Collection: Efficient and Convenient, or Wasteful and Unsafe?**
  Christine Snozek, PhD, DABCC, FAACC, Mayo Clinic, Phoenix, AZ

- **How Important is “Clean Catch” in Urine Culture Testing? How One Hospital Avoided Millions with Improved Collection and Decreased Culture Contamination**
  Kacy Peterson, MBA, MLS (ASCP), DLM (ASCP), Avera McKennan Hospital, Sioux Falls, SD

- **The Building Blocks of Blood Culture Collection: Can a <1% Contamination Rate be Met?**
  Jessica DesLauriers, MBA, MLS (ASCP), Avera McKennan Hospital, Harrisburg, SD

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<td>33109</td>
<td>Clinical Assay Issues: What Endocrinologists Will Ask You</td>
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In cooperation with the AACC Clinical Societies Collaboration Committee and Endocrine Society

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

- **Interpreting Challenging Prolactin Results**
  Anthony Heaney, MD, PhD, University of California, Los Angeles, Los Angeles, CA

- **Endocrine Testing in Transgender Individuals**
  Jenna Sarvaideo, DO, Medical College of Wisconsin, Milwaukee, WI

FIND SESSION DESCRIPTIONS. STAY UP TO DATE.
Download the mobile app at meeting.aacc.org/2023app
SCIENTIFIC SESSIONS
Morning | 10:30 a.m. - 12:00 p.m.

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<td>33110</td>
<td>AACC Academy Distinguished Abstracts: Innovative Applications for Today and Emerging Discoveries for Tomorrow</td>
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In cooperation with the AACC Academy

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

- An Equation based on the Standard Lipid Panel for Calculating Low-Density Lipoproteins-Triglycerides
  Anna Wolska, MS, PhD, FAHA, National Heart, Lung, and Blood Institute, Bethesda, MD

- An R Shiny App for Automated Peak Deconvolution, Interpretation, and Quantitation of Monoclonal Proteins Using Capillary Electrophoresis Immunotyping Data
  Steven Cotten, PhD, DABCC, NRCC, FAACC, University of North Carolina at Chapel Hill, Chapel Hill, NC

- Beta-Hydroxybutyrate/Acetoacetate Ratio as Indicator for Mitochondrial Diseases Utilizing a Novel LC-MS/MS Based Ketone Body Panel
  Robin Kemperman, PhD, Children’s Hospital of Philadelphia, Philadelphia, PA

- Accurate and Early Detection of Colorectal Cancer Using a Multilocus DNA Methylation Markers-Based Testing in Peripheral Blood
  Chuanxin Wang, MD, PhD, The Second Hospital of Shandong University, Jinan, Shandong, China

VISIT THE POSTER HALL
Tuesday, July 25 | 1:30 p.m. - 2:30 p.m.

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

See page 78 for more details.
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<td>Clinical Capacity Building in Developing Countries</td>
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<td>Moderator: Steven Cotten, PhD, DABCC, NRCC, FAACC, University of North Carolina at Chapel Hill, Chapel Hill, NC</td>
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<td>• Innovations in Specimen Collection and Transport in Remote Areas</td>
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<td>Catherine Omosule, PhD, Washington University in St. Louis, Saint Louis, MO</td>
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<td>• Building Laboratory Capacity in Developing Countries</td>
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<td>Joan-Miguel Balada-Lласat, PharmD, PhD, DABMM, The Ohio State University Wexner Medical Center, Columbus, OH</td>
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<td>• Working Hand-in-Hand with the Laboratory to Develop Workflows for Patient Management and Infection Control in Developing Countries</td>
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<td>Shu-Hua Wang, MD, MPH, PharmD, The Ohio State University, Columbus, OH</td>
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<td>33222</td>
<td>Making Meaningful Medical Decisions by Incorporating Point-of-Care Testing: Case Based Discussions for Thoughtfully Implementing Point-of-Care Testing in Various Settings</td>
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<td>In cooperation with the Critical and Point-of-Care Testing Division</td>
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<td>Moderator: Jeanne Mumford, BS, MLS (ASCP), Johns Hopkins Hospital, Baltimore, MD</td>
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<td>• Making Point-of-Care Testing Decisions Across Your Healthcare System Using a Clinical Committee</td>
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<td>Jamie Acero, MHA, BS, CPP, University of Pittsburgh Medical Center, Pittsburgh, PA</td>
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<td>• Use Case Scenarios of a Variety of Point-of-Care Tests: Successes and Failures Based on Project Outcomes</td>
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<td>Meaghan Gladstone, University of Pittsburgh Medical Center, Pittsburgh, PA</td>
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<td>• Meaningful Use of Point-of-Care Testing to Meet Clinical Needs in Underserved Populations</td>
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<td>William Clarke, PhD, MBA, DABCC, FAACC, Johns Hopkins University School of Medicine, Baltimore, MD</td>
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<td>33223</td>
<td>External Quality Assessment and Alternative Assessment in Molecular Diagnostics: Findings from an IFCC Survey</td>
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<td>Moderator: Deborah Payne, PhD, MT (ASCP), DABMM, DABCC, FAACC, CPDP Consulting LLC, Lakewood, CO</td>
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<td>• Results from an IFCC C-MD International Survey on EQA</td>
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<td>Parviz Ahmad-Nejad, MD, University of Witten/Herdecke, Wuppertal, Germany</td>
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<td>• Alternate Assessment for Molecular Diagnostics: Pathway to Quality Assurance for LDTs and Rare Analytes</td>
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<td>Aldo Vacaflores, PhD, MLS (ASCP), Plexus Laboratorio, La Paz, Bolivia</td>
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### SCIENTIFIC SESSIONS

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

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<td>Reimagining Laboratory Operations: Harnessing Technology to Do More Work</td>
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<td>• Self-Service with Support: Reporting Needs and Solutions in the Clinical Laboratory&lt;br&gt;Michelle Stoffel, MD, PhD, University of Minnesota/M Health Fairview, W, Roseville, MN</td>
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<td>• Problem Solving with Python: A Case Series&lt;br&gt;Jacob Spector, MD, Boston Children’s Hospital, Boston, MA</td>
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<td>• Automating Workflows: Dream or Reality?&lt;br&gt;Simone Arvisais-Anhalt, MD, University of California, San Francisco, San Francisco, CA</td>
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<td>33225</td>
<td>The Lab and Biomarkers in Cardiometabolic Clinical Trials: What Are Their Roles and What Are the Gains?</td>
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<td>• Biomarkers as Entry Criteria and Surrogate Outcomes for Cardiovascular Clinical Trials&lt;br&gt;David Berg, MD, MPH, Brigham and Women’s Hospital, Boston, MA</td>
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<td>• Can Biomarkers Help Us Understand Novel Drug Mechanisms of Action?&lt;br&gt;Paul Welsh, PhD, MSc, BSc (Hons), University of Glasgow, Glasgow, United Kingdom</td>
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<td>• The Lab as a Hub for Clinical Trials: The HIGH-STEACS and HiSTORIC Experience and Beyond&lt;br&gt;Atul Anand, MD, PhD, University of Edinburgh, Edinburgh, United Kingdom</td>
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<td>33226</td>
<td>Balancing Laboratory Workload and Costs to Patient Care: Method Selection and Testing Algorithm in Monoclonal Gammopathy Management</td>
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<td>In cooperation with the Tumor Markers &amp; Cancer Diagnostics Division</td>
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<td>Jing Cao, PhD, DABCC, FAACC, University of Texas Southwestern Medical Center, Dallas, TX</td>
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<td>• Selective Reflex to Immunofixation with Restricted Testing Frequency for Patient Population with Large Number of Stem Cell Transplants&lt;br&gt;Alagarraju Muthukumar, PhD, MSc, DABCC, University of Texas Southwestern Medical Center, Dallas, TX</td>
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<td>• Automated Workflow with Immunotyping in a Large Academic Health Center Core Lab&lt;br&gt;J Shirley Li, MD, PhD, DABCC, NRCC, FCACB, The Ohio State University Wexner Medical Center, Columbus, OH</td>
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<td>• Order Set Building and Test Utilization in Monitoring Patients with Monoclonal Gammopathy&lt;br&gt;David Grenache, PhD, DABCC, MT (ASCP), TriCore Reference Laboratories, Albuquerque, NM</td>
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<td>Infectious Disease Serology: Are You Still Ordering That Test?</td>
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*In cooperation with the Clinical & Diagnostic Immunology Division*

- **What Does this Mean? Understanding Test Results for Infectious Diseases**
  Patricia Slev, MD, PhD, DABCC, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT

- **Infectious Disease Labs We Order and Then Regret**
  Elitza Theel, PhD, D(ABMM), Mayo Clinic, Rochester, MN

- **Do You Really Need That Infectious Disease Test?**
  Moderator Sarah Wheeler, PhD, FAACC, University of Pittsburgh Medical Center, Pittsburgh, PA

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<td>Optimal Testing: Guide to Lab Test Utilization</td>
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*In cooperation with the ADLM Academy*

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

- **Optimal Lab Testing for Celiac Diseases: Is Antigliadin Antibody Still Indicated?**
  Fang Wu, PhD, DABCC, FCACB, FAACC, Saskatchewan Health Authority/University of Saskatchewan, Saskatoon, SK, Canada

- **Laboratory Test Utilization: Utility of Ferritin Test in Pediatrics for Iron Deficiency**
  Sridevi Devaraj, PhD, DABCC, FRSC, FAACC, Texas Children’s Hospital/Baylor College of Medicine, Houston, TX

---

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1. **Knowledge and Innovation** — access practical, clinically relevant resources you need to transform healthcare and advance your career.

2. **Collaborations and Connections** — rely on your community for learning, idea exchange, mentoring, and building enduring relationships.

3. **Better Patient Health** — be well-prepared and well-connected to develop effective solutions to improve patient health, and flourish professionally and personally.

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myadlm.org/joinASM23
SCIENTIFIC SESSIONS
Afternoon | 2:30 p.m. - 4:00 p.m.

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<td>Compliance vs Care: Providing the Highest Quality Medicine on Unsteady Legal Ground</td>
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Moderator: Dina Greene, PhD, DABCC, LetsGetChecked, Burien, WA
- Rapidly Changing Barriers to Abortion Care and Safe Pregnancy Termination
  Abbey Hardy Fairbanks, MD, University of Iowa Hospitals and Clinics, Iowa City, IA
- Protecting Transgender Youth from Governmental Policy
  Janet Black, MSN, RN, FNP-C, QMed, LLC, Decatur, GA
- Reproductive Rights and Gender Affirming Health Care: Juggling State and Federal Laws and Policy to Engage Providers and Deliver Optimum Patient Care
  Ashley Bogle, Esq, Health New England, Springfield, MA

| 33230 | The Clinical Laboratory’s Role in Ensuring Sample Quality Prior to Testing | 210CD | 1.5 | 1.5 | B |

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

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PLENARY+ SCIENTIFIC SESSIONS

WEDNESDAY, JULY 26
Cardiovascular Disease in Women: Epidemiology, Awareness, Access, and Delivery of Equitable Health Care

Nanette K. Wenger, MD, MACC, MACP, FAHA
Professor of Medicine, Division of Cardiology, Emory University School of Medicine
Consultant, Emory Heart and Vascular Center
Founding Consultant, Emory Women’s Heart Center, Atlanta, GA

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

**7:30 a.m. - 8:30 a.m. (40000 Series) -or- 12:30 p.m. - 1:30 p.m. (50000 Series)**  
**LOCATION:** Ballroom DE  
**CREDITS:** ACCENT®: 1.0, CME: Not eligible

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

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

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

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

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<td>Laboratory Medicine Career Toolkit: What We Were Never Taught</td>
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<td>• Time Management Tools for the Laboratory Professional</td>
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<td>Joe El-Khoury, PhD, DABCC, FAACC, Yale University, West Haven, CT</td>
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<td>• Work-Life Harmony</td>
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<td>Sarah Wheeler, PhD, FAACC, University of Pittsburgh Medical Center, Pittsburgh, PA</td>
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<td>• Building Resiliency</td>
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<td>Sarah Hackenmueller, PhD, DABCC, FAACC, Providence Health &amp; Services Oregon, Portland, OR</td>
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<td>34102</td>
<td>Top-Down Mass Spectrometry: A Next Era in Clinical Mass Spectrometry?</td>
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<td>• Top-Down Mass Spectrometry for Clinical Testing: Sample Preparation and Separation Techniques with Application Cases of β2-Transferrin and Hemoglobin Variants</td>
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<td>Moderator Ruben Luo, PhD, DABCC, Stanford University, Palo Alto, CA</td>
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<td>• Application of Top-Down Mass Spectrometry to M-Proteins: New Findings Based on Proteoforms</td>
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<td>David Murray, MD, PhD, MBA, MT (ASCP), Mayo Clinic, Rochester, MN</td>
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<td>• Top-Down Proteomics for Clinical Diagnosis and Cardiac Precision Medicine</td>
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<td>Ying Ge, PhD, University of Wisconsin, Madison, Madison, WI</td>
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<td>34103</td>
<td>Molecular Respiratory Testing Considerations in a Post-Pandemic Era</td>
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<td>• Available Molecular Respiratory Tests and Diagnostic Stewardship Considerations</td>
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<td>Moderator Brian Mochon, PhD, DABMM, University of Arizona/Banner Health, Phoenix, AZ</td>
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<td>• Classifying the Patient Populations That Benefit the Most from a Molecular Single Plex, 3-5 Multiplex, or a Larger Syndromic Panel for Respiratory Diseases</td>
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<td>Payal Patel, MD, MPH, Intermountain Healthcare, Salt Lake City, UT</td>
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<td>• Data Driven Case Presentations That Support Optimal Respiratory Testing Algorithms</td>
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<td>Matthew Binnicker, PhD, Mayo Clinic, Washington, DC</td>
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### SCIENTIFIC SESSIONS

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

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<td>2023 Data Analytics Competition: Forecasting Future Preanalytical Errors</td>
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*In cooperation with the AACC Data Analytics Steering Committee*

- Help with Hemolysis: An AACC Data Analytics Competition  
  *Mark Zaydman, MD, PhD, Washington University in St. Louis, Saint Louis, MO*

- Blood and Bytes: Reducing Sample Quality Errors in Clinical Laboratories Using Data Science  
  *Eric Olson, MS, Babson Diagnostics, Inc, Austin, TX*

**Moderator**

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<th>34105</th>
<th>High-Sensitivity Troponin: Strategies and Future Opportunities to Improve Patient Care</th>
<th>207AB</th>
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- High Sensitivity Point-of-Care Troponin Assays Are Coming: Expectations and Pitfalls  
  *Kristin Aakre, MD, PhD, Haukeland University Hospital, Bergen, Norway*

- Integration of Cardiac Biomarkers into Artificial Intelligence Tools  
  *Richard Body, MB ChB, MRCSEd, FRCEM, PhD, University of Manchester, Manchester, United Kingdom*

- Could We Improve the Diagnostic Specificity of Troponins Assays?  
  *Steven Meex, PhD, Maastricht University Medical Center, Maastricht, Netherlands*

**Moderator**

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<th>34106</th>
<th>Speed Dating for Analytical Interferences: Is There an App for That?</th>
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- T(r)inder: Meeting and Breaking Up with Enzymatic Interferents  
  *Mark Marzinke, PhD, DABCC, FAACC, Johns Hopkins University, Baltimore, MD*

- (G)Uber: What is That Messing Up My Immunoassay?  
  *Jane Dickerson, PhD, DABCC, Seattle Children’s Hospital, Seattle, WA*

- TikTox: Identify Drug Assay Interferents When the Clock Is Ticking  
  *Alec Saitman, PhD, ASCP, DABCC, Providence Regional Laboratories, Portland, OR*

**VISIT THE POSTER HALL**

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

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

See page 78 for more details.
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<tr>
<td>34107</td>
<td>Leveraging Blood-Based Biomarkers to Enhance the Precision of Traumatic Brain Injury Evaluation and Management</td>
<td>208</td>
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In cooperation with the Clinical Translational Science and Personalized Medicine Divisions

- **A Summary of the Evidence Supporting the Clinical Use of GFAP and UCH-L1**
  Nathan Roberts, MD, PhD, University of Michigan Medical School, Ann Arbor, MI

- **A Pragmatic Validation of the Diagnostic Accuracy of GFAP and UCH-L1 at the University of Michigan**
  Nathan Roberts, MD, PhD, University of Michigan Medical School, Ann Arbor, MI

- **University of Michigan’s Approach to the Clinical Implementation of GFAP and UCH-L1: Lessons Learned**
  Frederick Korley, MD, PhD, University of Michigan, Ann Arbor, MI

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<tr>
<td>34108</td>
<td>Direct-to-Consumer and Direct Access Testing: A Discussion from Clinical, Laboratory, and Informatics Viewpoints</td>
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- **A Clinical Perspective**
  Julie Shaw, PhD, FCACB, Eastern Ontario Regional Laboratory Association, University of Ottawa, Ottawa Hospital, Ottawa, ON, Canada

- **An Informatics Perspective**
  Michelle Stoffel, MD, PhD, University of Minnesota/M Health Fairview, W, Roseville, MN

- **A Laboratory Perspective**
  Matthias Orth, MD, PhD, Vinzenz von Paul Kliniken gGmbH Marien Hospital, D-70199 Stuttgart, Germany

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<tr>
<td>34109</td>
<td>Infectious Diseases Serology Potpourri: Diagnosis of Common Congenital and Not So Common Viral Hepatitis Infections</td>
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- **Is it ToRCH or SCORCH? Update on Congenital Infections and How to Diagnose Them**
  Elitza Theel, PhD, D(ABMM), Mayo Clinic, Rochester, MN

- **Diagnosis and Management for the Not So Common Causes of Viral Hepatitis**
  Patricia Slev, MD, PhD, DABCC, ARUP Laboratories/University of Utah School of Medicine, Salt Lake City, UT
### SCIENTIFIC SESSIONS

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

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<td>34110</td>
<td>Continuous Glucose Monitoring Devices: A Friend or Foe to Clinical Laboratories</td>
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In cooperation with the Critical and Point-of-Care Testing Division and Endocrinology Division

**Moderator** Nam Tran, PhD, MS, HCLD (ABB), CLS, MLS (ASCP) cm, FAACC, University of California, Davis, Davis, CA

- History of Glucose Monitoring: A Review of Continuous Glucose Monitoring Devices
  Catherine Omosule, PhD, Washington University in St. Louis, Saint Louis, MO

- CGM Use in Diabetes: As Part of Automated Insulin Delivery and as a Tool to Manage Anti-hyperglycemic Therapies
  Andrew Ahmann, MD, Oregon Health and Science University, Portland, OR

- Updates from the AACC Taskforce for CGM Device Usage Guidance
  Nichole Korpi-Steiner, PhD, DABCC, FAACC, University of North Carolina, Chapel Hill, NC

| 34111 | Advocacy: How Lab Medicine Experts Improve and Positively Impact Public Health | 202 | 1.5 | 0 | B |

**Moderator** Carmen Wiley, PhD, DABCC, FAACC, Incyte Diagnostics, Spokane Valley, WA

- Did You Say, “VALIDation?”: What VALID Was, Why It Was Harmful, and How It May Impact the Future of Lab Medicine
  Carmen Wiley, PhD, DABCC, FAACC, Incyte Diagnostics, Spokane Valley, WA

- PEACC Tackles VALID: Assessing This Proposed LDT Regulation
  Patricia Jones, PhD, DABCC, FAACC, University of Texas Southwestern Medical Center, Dallas, TX

- Advocacy: The Pen, the Preaching, the Process, All Promoting Best Practice
  Dennis Dietzen, PhD, DABCC, FAACC, Washington University School of Medicine, Saint Louis, MO

- I Must Have Missed That Day in Training: The Impact of Policy and Advocacy in Laboratory Medicine
  Christina Lockwood, PhD, DABCC, DABMGG, University of Washington, Seattle, WA

---

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

Download the mobile app at meeting.aacc.org/2023app
## SCIENTIFIC SESSIONS

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

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<td>34221</td>
<td>Chemistry Confessions: Constructive Conflict Resolution with Case Studies</td>
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<td>• Conflict in Organizational Behavior: Causes, Consequences, and Confessions</td>
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<td>Jane Dickerson, PhD, DABCC, Seattle Children’s Hospital, Seattle, WA</td>
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<td>• Strategies for Effective Management of Conflict and Difficult Conversations</td>
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<td>William Clarke, PhD, MBA, DABCC, FAACC, Johns Hopkins University School of Medicine, Baltimore, MD</td>
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<td>• What Kind of Bird Are You? Navigating Communication Styles and Personality Types to Get Results</td>
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<td>Frederick Strathmann, PhD, MBA, DABCC (CC, TC), MOBILion Systems, Warrington, PA</td>
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<td>34222</td>
<td>Emerging Technologies for the Next-Generation of Point-of-Care Testing</td>
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<td>• Point-of-Care Testing: The Disruption of Traditional Laboratory Practices to Meet Evolving Patient Needs</td>
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<td>James Nichols, PhD, DABCC, FAACC, Vanderbilt University Medical Center, Nashville, TN</td>
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<td></td>
<td>• Implementation of Nucleic-acid Testing (NAT) Devices in Hospital Settings</td>
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<td>Peter Luppa, MD, Klinikum rechts der Isar, Technische Universität München, München, Germany</td>
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<td>• Standardization Process of Continuous Glucose Monitoring: Traceability and Performance</td>
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<td>Guido Freckmann, MD, Institute for Diabetes Technology GmbH, Ulm, Germany, Ulm, Germany</td>
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<td>Difficulties in Reporting Complex Coagulation Results in the Era of New Anticoagulants</td>
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<td>• Practical Tips on Reporting of Coagulation Results: Special Emphasis on Pediatric Cases on Anticoagulants</td>
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<td>Catherine Hayward, MD, PhD, FRCP, McMaster University, Hamilton, ON, Canada</td>
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<td>• Utility of Anticoagulant Monitoring from Old to New Anticoagulants: How and When to Monitor Using New Technology to Detect Anticoagulants</td>
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<td>Geoffrey Wool, MD, PhD, University of Chicago, Chicago, IL</td>
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<td>• Difficulties in Reporting Lupus Anticoagulant Results: DOAC Interferences and How to Interpret Mixing Studies Specially When Patients Are on Anticoagulants</td>
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<td>Morayma Reyes-Gil, MD, PhD, Cleveland Clinic, Cleveland Heights, OH</td>
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SCIENTIFIC SESSIONS
Afternoon | 2:30 p.m. - 5:00 p.m.

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<td>34224</td>
<td>Generalizability of Machine Learning Models in Clinical Laboratory Medicine</td>
<td>206</td>
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In cooperation with the ADLM Data Analytics Steering Committee

- PTHrP Data Challenge and Beyond: Strategies to Evaluate and Improve Machine Learning Model Generalizability
  Moderator He Yang, PhD, DABCC, FAACC, Weill Cornell Medicine, New York, NY
  Vahid Azimi, MD, Washington University School of Medicine, Saint Louis, MO
- Considerations for Building Generalizable Clinical Machine Learning Models
  Fei Wang, PhD, Weill Cornell Medicine, New York, NY

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<td>Clinical Chemistry Journal: Hot Topics in Laboratory Medicine</td>
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Moderator Jason Park, MD, PhD, DABCC, University of Texas Southwestern Medical Center, Dallas, TX

- Role of Glycated Albumin in the Diagnosis and Management of Diabetes Mellitus
  Elizabeth Selvin, PhD, MPH, Johns Hopkins University, Baltimore, MD
- Race and Estimated GFR: Confounding of Social and Biological Variables
  Jeff Meeusen, PhD, DABCC, Mayo Clinic, Rochester, MN
- Using Troponins for Early Rule-Out of Non-ST Elevation Myocardial Infarction and Unstable Angina Pectoris: Is It Possible?
  Kristin Aakre, MD, PhD, Haukeland University Hospital, Bergen, Norway
- Toward Clinical Application of Leukocyte Counts Based on Targeted DNA Methylation Analysis
  Wolfgang Wagner, MD, PhD, RWTH Aachen University Medical School, Aachen, Germany

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<td>34226</td>
<td>New ADA/ACC/HFSA Recommendations to Utilize Cardiac Biomarkers to Identify Risk of Heart Failure in People with Diabetes</td>
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- Optimal Approaches to Heart Failure Prevention Using Cardiac Biomarkers and Clinical Risk Scores: Clinical Scenarios
  Ambarish Pandey, MD, University of Texas Southwestern Medical Center, Dallas, TX
- A Case-Based Approach to Understanding the Impact on the Practice of Medicine and Primary Care Providers
  Jennifer Zreloff, MD, Emory University School of Medicine, Atlanta, GA
- Optimal Biomarker Cutoffs and Operational Impact on Clinical Laboratories
  Moderator Petr Jarolim, MD, PhD, Brigham and Women’s Hospital, Boston, MA
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<tr>
<td>34227</td>
<td>Revisiting Serum Free Light Chain Reference Intervals by Retrospective Data Analytics and Unsupervised Machine Learning</td>
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<td>34228</td>
<td>Academy Clinical Laboratorian and Clinician Conversations: In Vitro Fertilization and Ectopic Pregnancy</td>
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<tr>
<td>34229</td>
<td>Diamonds are Forever: 75 Years of Laboratory Medicine</td>
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**34227**

- **The Serum Free Light Chain Diagnostic Interval in Doubt**  
  David Keren, MD, MS, The University of Michigan, Ann Arbor, MI

- **Using Existing Health Care Data for the Characterization of Serum Free Light Chain Reference Intervals and Decision Limits**  
  Lee Schroeder, MD, PhD, University of Michigan/InheRET, inc., Ann Arbor, MI

- **A Novel Serum Free Light Chain Metric Based on Unsupervised Machine Learning To Reduce Renal Function Interference**  
  Mark Zaydman, MD, PhD, Washington University in St. Louis, Saint Louis, MO

**34228**

- **Advances in IVF and How Clinical Laboratorians Help Us Manage IVF Patients**  
  Joie Guner, MD, MSc, MSCI, Keck School of Medicine of USC, Pasadena, CA

- **Laboratory Tests for IVF: Current Status and Emerging Biomarkers**  
  Yusheng Zhu, PhD, DABCC, Pennsylvania State University Hershey Medical Center, Hershey, PA

- **Integrating Essential Laboratory Testing into the Workup of an Emergent Patient with Suspected Ectopic Pregnancy**  
  Daniel Moore, MD, University of Kentucky, Lexington, KY

- **The Role of the Clinical Laboratorian in the Diagnosis and Monitoring of Ectopic Pregnancy: Communication Is Key**  
  Alison Woodworth, PhD, DABCC, FAACC, University of Kentucky, Cincinnati, OH

**34229**

- **The AACC Annual Scientific Meeting at 75: How We Got Here from There**  
  Robert Rej, PhD, University at Albany State University of New York, Albany, NY

- **Immunoassays Past and Present: From Impossible Manual Tests to 21st Century Automation**  
  Richard Baltaro, MD, PhD, ASCP, FAACC, East Carolina University School of Medicine, Winterville, NC

- **Innovation, Technology, and Regulation: The Advent of the Modern Medical Laboratory**  
  David Alter, MD, MPH, DABCC, FAACC, Emory University, Atlanta, GA
SPECIAL SESSION

2023 LABORATORY FEUD: FACULTY vs FELLOWS

WEDNESDAY, JULY 26
4:00 p.m. - 5:00 p.m. | Poster Hall

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

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

TEAM FACULTY
Team Captain
Raffick Bowen, PhD, MHA, CSLT, DCiChem, DABCC, FCACB, FAACC
Stanford Health Care, Stanford, CA

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

Maximo Marin, MD
University of Florida, Gainesville, FL

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

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

TEAM FELLOWS
Team Captain
Ria Fyffe-Freil, PhD
Mayo Clinic, Rochester, MN

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

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

Daisy Unsihuay, PhD
University of Pennsylvania, Philadelphia, PA

Kwaku Baryeh, PhD
University of Utah, Salt Lake City, UT
PLENARY+ SCIENTIFIC SESSIONS
THURSDAY, JULY 27
PLENARY SESSION 15001

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

LOCATION: Ballroom ABC
LEVEL: Intermediate
CREDITS: ACCENT®: 1.0, CME: 1.0

Advances in Curative Therapies for Sickle Cell Disease

Mark C. Walters, MD
Jordan Family Director, Blood & Marrow Transplant Program, Benioff Children’s Hospital Oakland
Chief, Hematology Division Professor, Pediatrics/ Hematology, University of California, San Francisco
San Francisco, CA

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

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

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<td>35101</td>
<td>A Roadmap to Implementing Alzheimer’s Disease Biomarkers in Your Laboratory</td>
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|         | • Clinical Implementation of CSF Alzheimer’s Disease Biomarkers: The United States Experience  
Alicia Algeciras-Schimnich, PhD, DABCC, Mayo Clinic, Rochester, MN |
|         | • Clinical Implementation of CSF Alzheimer’s Disease Biomarkers: The Canadian Experience  
Mari DeMarco, PhD, DABCC, FAACC, St. Paul’s Hospital, Vancouver, BC, Canada |
|         | • Future Implementation of Blood-Based Biomarkers for Alzheimer’s Disease and Related Disorders  
Melissa Budelier, PhD, DABCC, TriCore Reference Laboratories, Albuquerque, NM |

| 35102   | Choosing Targets for Laboratory Stewardship Programs: Results of a Cross-Institutional Survey and Lessons to Be Learned From Clinical Quality Measure Databases | 205 | 1.5 | 0 | I |
|         | • The Current State and Focus of Laboratory Stewardship Programs: Results of a National Survey  
Grace Kroner, PhD, DABCC, Cleveland Clinic, Cleveland, OH |
|         | • The Landscape of Clinical Quality Measure Databases and Implications for Laboratory Stewardship Programs: A Call to Harmonize and Benchmark Measures  
Lee Schroeder, MD, PhD, University of Michigan/InheRET, inc., Ann Arbor, MI |

| 35103   | The Clinical Laboratory as a Catalyst in Population Health: Amplifying the Transition to Risk-Based Health Care in Integrated Health Systems | 206 | 1.5 | 1.5 | I |
|         | • Why the Clinical Laboratory is a Catalyst for Population Health  
Khosrow Shotorbani, MBA, MT (ASCP), Project Santa Fe Foundation, Salt Lake City, UT |
|         | • A Laboratory Initiated Care Model: Chronic Kidney Disease  
Mark Fung, MD, PhD, University of Vermont Medical Center, Burlington, VT |

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**JOIN THE ASSOCIATION FOR DIAGNOSTICS & LABORATORY MEDICINE (ADLM)**

Join the ADLM community for learning, idea exchange, mentoring, collaboration, and building enduring relationships with lab professionals just like you.  
Stop by ADLM Booth #2235 for a special membership offer.  
myadlm.org/joinASM23
SCIENTIFIC SESSIONS
Morning | 10:30 a.m. - 12:00 p.m.

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<td>Fibrinogen: The Entangled Knot of the Clot</td>
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- Fibrinogen and Hemostasis
  William Winter, MD, DABCC, FAACC, University of Florida, Gainesville, FL

- Measurement of Fibrinogen in Plasma
  Maximo Marin, MD, University of Florida, Gainesville, FL

- Acquired and Inherited Disorders of Fibrinogen
  Neil Harris, MD, FAACC, University of Florida, Gainesville, FL

Moderator

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<td>Pediatric Lipid Screening: The Heart of the Matter</td>
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In cooperation with the Pediatric and Maternal-Fetal Division

- Evolution of Pediatric Lipid Screening Recommendations: The Lab’s Role in Promoting Universal Testing
  Stephen Roper, PhD, DABCC, Washington University School of Medicine, Saint Louis, MO

- Laboratory-Driven Interventions to Improve Lipid Screening and FH Detection in Pediatric Populations
  Zita Hubler, MD, PhD, Washington University School of Medicine, St. Louis, MO
### SCIENTIFIC SESSIONS

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

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<td>35106</td>
<td>Testing the Population Towards Eliminating Inequities in STIs: A Case-Based Toolkit</td>
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- **A Pink Elephant of STIs That is Not Going Anywhere!**
  Vera Tesic, MD, MS, DABMM, University of Chicago, Chicago, IL

- **Point-of-Care Testing for STI Detection: The Answer to All Our Troubles?**
  Nikolina Babic, PhD, DABCC, FAACC, Medical University of South Carolina, Charleston, SC

- **Out in the Real World: HIV and Syphilis**
  Vera Tesic, MD, MS, DABMM, University of Chicago, Chicago, IL

- **Out in the Real World: Chlamydia and Gonorrhea**
  Nikolina Babic, PhD, DABCC, FAACC, Medical University of South Carolina, Charleston, SC

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<td>Biochemical and Molecular Insights into Newborn Screening Disorders Both Old and New</td>
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*In cooperation with the Pediatric and Maternal-Fetal Division*

- **Clinical Testing Tribulations of New Disorders Added to Newborn Screening: Biochemical Genetics Evaluations of Lysosomal and Peroxisomal Disorders**
  Anna Scott, PhD, Seattle Children’s Hospital, Seattle, WA

- **Next Generation Newborn Screening: Increasing Importance and Complexity of Molecular Testing**
  Erika Beckman, MS, CGC, Seattle Children’s Hospital, Seattle, WA

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**FIND SESSION DESCRIPTIONS. STAY UP TO DATE.**
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POSTER ABSTRACTS TITLES

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

**SCIENTIFIC POSTER SESSION SCHEDULE**

**POSTER SESSION TOPICS & SCHEDULED TIMES**

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

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

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

- Animal Clinical Chemistry: B-001 – B-007
- Automation and Analytical Techniques: B-009 – B-047
- Clinical and Diagnostic Immunology: B-048 – B-113
- Data Analytics, Informatics, and Statistics: B-118 – B-159
- Mass Spectrometry and Separation Sciences: B-160 – B-206
- Molecular Diagnostics and Genetics: B-208 – B-275
- Proteomics and Protein Markers: B-276 – B-294
- Therapeutic Drug Monitoring and Toxicology: B-295 – B-342
- Tumor Markers and Cancer Diagnostics: B-343 – B-392
The Academy for Diagnostic & Laboratory Medicine is pleased to announce the winners of the 2023 Distinguished Abstracts Awards. A group of Fellows selected these 22 abstracts for their scientific excellence from a pool of more than 780 abstracts accepted for the AACC Annual Scientific Meeting.

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

**A-031 Linmin Zhu, Tianjin, China**
Global Discovery of Serological Metabolome Uncovers Unique Molecular Signature for Early Onset of Type 2 Diabetes Mellitus: A Retrospective Study in Chinese Population

**A-203 Anna Wolska, PhD, Bethesda, MD**
An Equation Based on the Standard Lipid Panel for Calculating Low-Density Lipoproteins-Triglycerides

**A-208 Tatiana Coverdell, PhD, Bethesda, MD**
An Improved Formula for Predicting Low LDL-C Based on an Enhanced Sampson-NIH Equation

**A-242 Dongsheng Han, MD, Hangzhou, China**
Integrating Respiratory Metagenomics and Metatranscriptomics for Diagnosis of Lung Cancer and Infection in Patients With Pulmonary Diseases

**B-025 Dan Figdore, Rochester, MN**
Evaluation of Bias Between Alzheimer’s Disease Blood-Based Biomarkers Assays and Their Concordance With Amyloid-PET on the Fujirebio Lumipulse and Quanterix Simoa Platforms

**B-075 Matt Sorrells, PhD, San Francisco, CA**
Biophysical Changes of Leukocyte Activation (and NETosis) in the Cellular Host Response to Sepsis

**B-123 Jian Zhong, BA/BS, Beijing, China**
Utilization of Five Data Mining Algorithms Combined With Simplified Preprocessing to Establish Reference Intervals of Thyroid Related Hormones for Nonelderly Adults

**B-134 Raj Gopalan, MD, Tarrytown, NY**
Artificial Intelligence (AI)-Driven Clinical Decision Support: Potential to Predict the Risk for Multiple Sclerosis

**B-144 Seung Yeob Lee, MD, PhD, Jeonju, Republic of Korea**
A Comparative Analysis of Unsupervised Machine Learning Algorithms for Polyploidy Analysis Using Flow Cytometry

**B-145 Steven Cotton, PhD, Chapel Hill, NC**
An R Shiny App for Automated Peak Deconvolution, Interpretation, and Quantitation of Monoclonal Proteins Using Capillary Electrophoresis Immunotyping Data
2023 DISTINGUISHED ABSTRACTS AWARDS

B-169  Robin Kemperman, PhD, Philadelphia, PA
Beta-hydroxybutyrate/Acetoacetate Ratio as Indicator for Mitochondrial Diseases
Utilizing a Novel LC-MS/MS Based Ketone Body Panel

B-180  Gabriella Lakos, PhD, Birmingham, United Kingdom
The EXENT® Solution Provides Evidence for High Prevalence of Multiple M-proteins
in Monoclonal Gammapathies

B-200  Rachel DeHoog, PhD, Houston, TX
Preoperative Classification of Thyroid Nodules by Desorption Electrospray Ionization
Mass Spectrometry Imaging of Fine Needle Aspiration Biopsies

B-225  Jordan Stachelski, BA/BS, San Diego, CA
Assessment of the Genotype Frequency of Thiopurine Methyltransferase (TPMT)
Deficiency in a Large Cohort of Patients With Immune Mediated Inflammatory Disease
and Cancer

B-230  Young-Jin Kim, MD, PhD, Yongin City, Gyeonggi-do, Republic of Korea
Monitoring SARS-CoV-2 Subvariants for Evaluation of the Diagnostic Kit’s Annealing Site
Using Nanopore Sequencing

B-252  Jessica Nayara de Araujo, Natal, Brazil
In Vitro Expression Analysis of Variants in the Upstream Region of Genes Related
to Familial Hypercholesterolemia

B-292  Shebdeep Kaur, BA/BS, Delhi, India
Drug Repurposing Via Host-pathogen Protein-protein Interaction for the Treatment
of COVID-19

B-327  Gemma Campbell, BA/BS, Nashville, TN
Evidence of Missed Novel Psychoactive Substances (NPS) in Unexpected Fentanyl Positives

B-382  Chuanxin Wang, PhD, Jinan, China
Accurate and Early Detection of Colorectal Cancer Using a Multilocus DNA Methylation
Markers-Based Testing in Peripheral Blood Mononuclear Cells

B-383  Zhaodan Xin, Chengdu, China
Exosomal PRPSAP1 in Plasma Predicts Microvascular Invasion in Hepatocellular Carcinoma

B-385  Lutao Du, Jinan, China
Multi-omics to Reveal the Characteristics of the Gut Microbiome and Metabolome
in Patients With Colorectal Cancer Liver Metastasis

B-391  Danielle Zauli, PhD, Vespasiano, Brazil
Is Comprehensive Cancer Panel By Next-generation Sequencing (NGS) More Efficient Than
Cancer-Specific NGS Panel in the Management of Non-small Cell Lung Cancer Patients?
# SCIENTIFIC POSTER SESSIONS

**TUESDAY, JULY 25**

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<td>Secretoneurin in Patients with Acute Coronary Syndrome</td>
<td>D. Stejskal, University hospital and Faculty of medicine Ostrava University, Ostrava, Czech Republic</td>
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<td>A-002</td>
<td>The Prevalence of the High Sensitivity Cardiac Troponin I Outlier and False Positivity Rates on Beckman Coulter Access Dxl</td>
<td>X. Li, J. Bryksin, Emory University, Atlanta, GA, Emory University, Atlanta, GA</td>
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<td>A-003</td>
<td>Point of Care BNP Values Obtained by the Abbott i-STAT Are Not Interchangeable With Laboratory Determined Values Using Beckman DXI 800 Analyzer</td>
<td>K. Zinn, M. Boyd, A. Dasgupta, University of Kansas Health System, Kansas City, KS</td>
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<td>A-007</td>
<td>Cardiomyocyte-monocyte Cross-talk Exploits Cellular Stress Pathways Leading to Myocyte Apoptosis in Dilated Cardiomyopathy of Idiopathic Origin</td>
<td>K. Sikder, D. Talukdar, A. Haldar, R. Dastidar, S. Kumar, Ramakrishna Mission Vivekananda Educational and Research Institute, Kolkata, India, Ramakrishna Mission Seva Pratishthan Hospital and Nirmayan Health Care Pvt. Ltd., Kolkata, India, Vivekananda Institute of Medical Sciences, Kolkata, India</td>
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<td>A-009</td>
<td>Analytical Concordance of High-Sensitivity Cardiac Troponin I and T Assays in Patients From the CONTRAST Trial Presenting to an Emergency Department</td>
<td>L. Gunsolus, K. M. Schulz, Y. Sandoval, S. W. Smith, F. S. Apple, HealthPartners, Bloomington, MN, Hennepin Healthcare Research Institute, Minneapolis, MN, Minneapolis Heart Institute and Abbott Northwestern Hospital, Minneapolis, MN, Hennepin Healthcare/Hennepin County Medical Center &amp; University of Minnesota, Minneapolis, MN</td>
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**A-010** Systemwide Implementation of High Sensitivity Troponin T in a Multi-center Hospital Set Up with Instrument Variability: The Baystate Health Experience  
M. Pandiri1, D. Kotorobay2, S. Ibrahim1, J. Rogers2, A. Paz2, R. Moccio3, G. Ouimet3, D. Fleischmann4, J. Paadam5, R. Baevsky6, A. Lotfi7, R. Quarles8, S. Gemme9, V. Jauhari1, M. A. Barbshire1A. 1Department of Pathology, UMass Chan Medical School-Baystate, Springfield, MA, 2Department of Pathology, Baystate Medical Center, Springfield, MA, 3Division of Laboratory Informatics, Baystate Health, Springfield, MA, 4Division of Clinical Informatics, Baystate Health, Springfield, MA, 5Division of Clinical Informatics, Baystate Health; Department of Medicine, UMass Chan Medical School-Baystate, Springfield, MA, 6Department of Emergency Medicine, UMass Chan Medical School-Baystate, Springfield, MA, 7Division of Cardiology, Department of Medicine, UMass Chan Medical School-Baystate, Springfield, MA, 8Division of Internal Medicine, Department of Medicine, UMass Chan Medical School-Baystate, Springfield, MA, 9Department of Pathology; Healthcare Delivery and Population Sciences, UMass Chan Medical School-Baystate, Springfield, MA

**A-011** High Sensitive Troponin Assays for Differentiating the Patients with Unstable Angina From Stable Angina  
Y. Kim1, H. Cho2, S. Kim2, H. Lee3, H. Kwon4, J. Lee5. 1The Catholic University of Korea, St. Vincent's Hospital, Suwon, Korea, Republic of, 2The Catholic University of Korea, St. Vincent's Hospital, Suwon, Korea, Republic of, 3The Catholic University of Korea, Seoul, Korea, Republic of, 4The Catholic University of Korea, Eunpyeong St. Mary's Hospital, Seoul, Korea, Republic of

**A-012** Novel Method for Determining the Concentration of Total N-Terminal Pro-Hormone BNP (NT-proBNP) in a Sample with Mass Spectrometric Detection  
M. Jaquemar, T. Knüttel, L. Thi Tran, J. Weikum, V. Schmelck, T. Nilsen, A. David. Gentian AS, Moss, Norway

**A-013** Creation of a Commutable Cardiac Troponin I Reference Material Coined 8121 by the National Institute for Science and Technology and the IFCC Workgroup for Cardiac Troponin I Standardization  
R. H. Christenson1, S. Duh2, R. Payne2, S. Clapshaw3, M. S. Lowenthal4. 1University of Maryland School of Medicine, Baltimore, MD, 2Siemens Healthcare, Tarrytown, NY, 3Solomon Park Research Laboratories, Inc., Bunten, WA, 4National Institute of Standards and Technology, Gaithersburg, MD

**A-014** Analytical Outlier Occurrence and False Positivity Rate of the Beckman Coulter Access High-sensitivity Cardiac Troponin I Assay  
J. H. Noguez1, L. Delfin Mendez2, K. Kulp1, X. Zhang1, L. Stempak1. 1University Hospitals of Cleveland, Cleveland, OH, 2Case Western Reserve University School of Medicine, Cleveland, OH

**A-015** Hemoglobin A1c Control is an Independent Predictor of Circulating Troponin Concentrations Using Machine Learning  
H. M. Brown, N. C. Spies, M. A. Zaydman, C. W. Farnsworth. Washington University in St. Louis School of Medicine, St. Louis, MO

**A-016** Clinical Performance Comparison Between the Vitros Immunodiagnostic Products NT-proBNP II and Roche Elecsys proBNP II Assays to Aid in the Diagnosis of Heart Failure  
A. Ott-Vascon1, P. Ajongwen2, S. Alvey1, J. Herman2. 1QuidelOrho, Raritan, NJ, 2QuidelOrho, Rochester, NY
## SCIENTIFIC POSTER SESSIONS
9:30 a.m. - 5:00 p.m.

### CARDIAC MARKERS

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<td>R. F. Paula(^1), C. E. Ferreira(^2), F. V. Paladino(^3), T. C. Lamounier(^1), H. P. Silva(^1), S. R. Gomes(^3), B. B. Caretta(^1), P. R. Ferreira(^3), T. P. Mota(^2), M. B. Melo(^2), F. G. Pitta(^2), A. D. Midrigal(^1), (^1)Siemens Healthineers, São Paulo, Brazil, (^2)Hospital Israelita Albert Einstein, São Paulo, Brazil</td>
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<td>A. Coşkun(^1), C. Abou-Diwan(^2), J. Rhea-McManus(^3), M. Serteser(^1), I. Unsal(^1), M. Locatelli(^3), A. Carobene(^1), Acibadem Mehmet Ali Aydinlar University, Istanbul, Turkey, (^2)Siemens Healthineers, Tarrytown, NY, (^3)IRCCS San Raffaele Scientific Institute, Milan, Italy</td>
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<th>Integrative Analysis of Arrhythogenic Right Ventricular Cardiomyopathy of Potencial Biomarkers Through Bioinformatic Analysis</th>
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<td>A. P. Neta(^1), Y. N. Silbiger(^1), O. C. Marques(^2), T. Hirata(^2), M. Hirata(^2), A. D. Luchessi(^1), (^1)Federal University of Rio Grande do Norte, Natal, Brazil, (^2)University of São Paulo, São Paulo, Brazil</td>
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<th>Evaluation of the Analytical Performance of BNP and NT-proBNP Assays on the Atellica CI 1900 Analyzer</th>
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<td>J. Rhea-McManus, N. Ozgen, H. Leipold. Siemens Healthineers, Tarrytown, NY</td>
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<th>A-021</th>
<th>Comparing the Time Between the 1(^{st}) and 2(^{nd}) Troponin in Male and Female Patients in Singapore and Calgary, Alberta: Evidence of Extended Pre-Preamalytical Time in Females with Low ACS Risk</th>
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<tbody>
<tr>
<td></td>
<td>Y. Qiu(^1), T. Aw(^2), H. Sadrzaadeh(^3), G. Cembrowski(^4), (^1)University of Alberta, Edmonton, AB, Canada, (^2)Changi Hospital, Singapore, Singapore, (^3)University of Calgary, Calgary, AB, Canada, (^4)Cembrowski &amp; Cembrowski Quality Control Consultants, Edmonton, AB, Canada</td>
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<th>A-022</th>
<th>Muscle and Cardiac Marker Levels Impact for SARS-CoV-2 Infection</th>
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<td>G. C. Carvalho, R. P. Carvalho, D. R. Ramadan, S. Tufik. Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil</td>
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<td>H. Zhang(^1), J. Rhea-McManus(^2), G. Caicedo, Montoya(^1), L. Halik(^1), E. Mahmood(^1), S. Askegard(^1), H. Leipold(^1), (^1)Siemens Healthineers, Tarrytown, NY, (^2)Siemens Healthineers, Newark, DE</td>
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SCIENTIFIC POSTER SESSIONS
9:30 a.m. - 5:00 p.m.

ENDOCRINOLOGY & METABOLISM

A-024 Evaluation of the Analytical Performance of Thyroid-stimulating Hormone, Free Triiodothyronine, and Free Thyroxine Assays on the Atellica CI 1900 Analyzer
H. Zhang, M. Quintanilla, M. Guo, J. Rhea-McManus, H. Leipold. Siemens Healthineers, Tarrytown, NY

A-025 Principal Component Analysis as a Clustering Method for the Identification of Populations with Risk of Diabetes Development
G. C. Carvalho, F. S. Siqueira, D. R. Ramadan, S. Tufik. Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil

A-026 Evaluation of Inflammation in Post Menopausal Women with Low Bone Mineral Density
S. Das1, S. Verma2. 1RML Hospital, DELHI, India, 2SMSR, Noida, India

A-027 The Clinical Indications of Low or Non-reportable HbA1c Results
S. Lu, T. Neibauer, E. Saylor, B. Dewasse, M. Straub, Y. Zhu. The Pennsylvania State University, Hershey, PA

A-028 Procalcitonin and Total White Blood Cell Count as Prognostic Markers of Hospital Outcomes in Hyperglycemic Emergencies
A. A. Azeez. University College Hospital, Ibadan, Nigeria

A-029 Modeling the Effect of Step Changes in Glucose on %Glycated Albumin vs. Time
D. F. Stickle1, G. J. DiNatale1, R. Molinaro2. 1Jefferson University Hospital, Philadelphia, PA, 2Siemens Healthcare Diagnostics, Inc., Tarrytown, NY

A-030 Indicators Generated from Salivary Cortisol Measurement to Assess Circadian Rhythm: Comparison of Immunoassay and Liquid Chromatography-Tandem Mass Spectrometry
A. Lee1, S. Jang2, J. Kim3, J. Jang4, I. Kim5, S. Lee6, J. Seok2. 1Seoul Clinical Laboratories, Yong-In, Korea, Republic of, 2Research Institute of Minds AI, Co. Ltd., Seoul, Korea, Republic of, 3Center for Companion Biomarker, Seoul Clinical Laboratories Healthcare Inc., Yong-In, Korea, Republic of

A-031 Global Discovery of Serological Metabolome Uncovers Unique Molecular Signature for Early Onset of Type 2 Diabetes Mellitus: A Retrospective Study in Chinese Population
L. Zhu, Y. Wu. Tianjin TEDA Hospital, Tianjin, China

A-032 Comparative Serum Free Thyroxine Measurements Between Immunoassays and ID-LC/MS/MS Procedure Based on Equilibrium Dialysis

A-033 Development and Validation of a Liquid Chromatography Tandem Mass Spectrometry Bioanalytical Method for Prostaglandin D2 in Serum or Urine
M. Morr, B. Holmquist. Labcorp, Calabasas, CA
SCIENTIFIC POSTER SESSIONS
9:30 a.m. - 5:00 p.m.

ENDOCRINOLOGY & METABOLISM

A-034 Multicenter Comparison of Analytical Interference of Vitamin D Immunoassay and Mass Spectrometry Methods by Endogenous Interferents and Cross-reactivity with 3-epi-25-OH-Vitamin D3
J. Lee¹, J. Seo¹, K. Lee¹, E. Roh¹, Y. Yun², Y. Lee³, S. Cho³, J. Song⁴. ¹Seoul National University Bundang Hospital, Seongnam, Korea, Republic of, ²Konkuk University School of Medicine, Seoul, Korea, Republic of, ³Seoul Metropolitan Government-Seoul National University Boramae Medical Center, Seoul, Korea, Republic of, ⁴Soomchunhyang University Bucheon Hospital, Bucheon, Korea, Republic of, ⁵Green Cross Laboratories (GC Labs), Yongin, Korea, Republic of

A-035 Association between Obesity and Prostate Specific Antigen Level in Diabetes Mellitus Type2
O. C. Ugwunna¹, E. N. Okafor², N. C. Ugwunna³, E. E. Chukwukelu³, U. A. Eze⁴, S. O. Uzoigwe⁵, E. C. Aniogho⁶. ¹College of Medicine, University of Nigeria, Nsukka, Enugu, Nigeria, ²University of Nigeria Enugu Campus, Enugu, Nigeria, ³College of Medicine, University of Nigeria Nsukka, Enugu, Nigeria, ⁴De Montfort University, Leicester, Leicester, United Kingdom, ⁵University of Nigeria Teaching Hospital, Ituku-Ozalla, Nigeria, ⁶City of Hope Beckman Research Center, Duarte, CA

A-036 Hypogonadism in Diabetes
D. S. Sheriff. Reprolabs, Chennai, India

A-037 Diagnostic Accuracy of Copeptin in the Differential Diagnosis of Patients with Diabetes Insipidus: A Systematic Review and Meta-analysis
D. Mu. Peking Union Medical Hospital College, Beijing, China

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

A-040 Night Shift Work Could Induce Oxidatively Generated Damage to DNA: A Pilot Study
Y. Zou, X. Ma, S. Yu, L. Qiu. Peking Union Medical College Hospital, Beijing, China

A-041 Measurement of Plasma 3-Hydroxyisovalerylcarnitine by LC-MS/MS to Predict Marginal Biotin Deficiency in Inflammatory Bowel Disease
B. Patil¹, A. Bock², F. Armbruster³, J. Stein², M. R. Diesner³, A. Askani³. ¹Immundiagnostik AG, Bensheim, Germany, ²Institute of Pharmaceutical Chemistry Goethe University, Frankfurt, Germany, ³Institute of Nutritional Science, Justus-Liebig-Universität, Giessen, Germany

A-042 Comparison of the Second-Generation Parathyroid Hormone Assays: ELSA-PTH and Alinity i Intact PTH
J. Kang¹, J. Park², H. Choi¹, S. Kee¹. ¹Chonnam National University Hospital, Gwangju, Korea, Republic of, ²Chonnam National University Hwasun Hospital, Hwasun, Korea, Republic of
SCIENTIFIC POSTER SESSIONS
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ENDOCRINOLOGY & METABOLISM

A-043 Vitamin D Receptor (VDR) Polymorphism & Endoplasmic Reticulum Stress (ER stress): Is There Any Association Between Them Towards Disease Susceptibility in Patients with Grave’s Disease?
R. Dastidar1, A. K. Haldar2, D. Talukdar3, A. Roy4, K. Sikder5. 1Department of Biochemistry, Ramakrishna Mission Seva Pratishthan, Vivekananda Institute of Medical Sciences, Kolkata, West Bengal, India, 2JIVAN research unit, Department of Biomedical Science and Technology, School of Biological Sciences, Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), Kolkata, West Bengal, India, 3JIVAN research unit, Department of Biomedical Science and Technology, School of Biological Sciences, Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), Kolkata, West Bengal, India, 4Department of Endocrinology, Ramakrishna Mission Seva Pratishthan, Vivekananda Institute of Medical Sciences (VIMS, Kolkata, West Bengal, India

A-044 Using ID-Vit Test Systems to Assess the Effect of Vitamin B Supplementation on Fatigue Symptoms in Professional Athletes
K. Erpenbach1, M. C. Erpenbach2, D. Maier3, H. Seidl4, A. Aksan5, W. Mayer6, S. Mücke7. 1Institut für medizinische Leistungsoptimierung und Trainingssteuerung, Erftstadt, Germany, 2Immundiagnostik AG, Bensheim, Germany, 3Institute of Nutritional Science, Justus Liebig University of Giessen, Giessen, Germany, 4Lab4more GmbH Bavariahaus, München, Germany

A-045 Role of the Laboratory in the Screening of Fatty Liver Disease Associated with Metabolic Dysfunction (MAFLD)
P. Lesmes - García Corrales1, I. Domínguez Pascual2, J. Guerrero Montávez3. 1University Hospital Virgen del Rocío, Seville, Spain, 2University Hospital Virgen del Rocio, Seville, Spain

A-046 Investigating the Role of RNase L in Metabolic Syndrome
A. A. Zame, D. Liu, A. Zhou. Cleveland State University, Cleveland, OH

A-047 Role of the Gut Microbiota in the Efficacy of Dietary Intervention With Flavonoid-Containing Foods in Obesity
S. Alqudah1, B. DeLucia2, L. Osborn3, R. Markley4, V. Bobba5, L. Hamidi Nia6, J. Claesen7. 1Cleveland State University/Cleveland Clinic, Cleveland, OH, 2Cleveland Clinic, Cleveland, OH

A-048 Accurate Measurement of Free Testosterone in Serum Using Equilibrium Dialysis Coupled with ID-UHPLC-MS/MS
H. Zhou1, A. Ribera2, U. Danienko3, H. Vesper4. 1Centers for Disease Control and Prevention, Atlanta, GA, 2Battelle, Atlanta, GA

A-049 Inter-assay Variation of Insulin-like Growth Factor-1 Remains an Issue
A. S. Ptolemy, C. MacDonald, V. Browne, R. W. Peake, M. D. Kellogg. Boston Children’s Hospital, Boston, MA

A-050 Understanding the Complex Relationship Between TSH and Free Thyroxine
D. J. Lee1, N. S. Che Rahim2, T. C. Aw. 1Changi General Hospital, Singapore, Singapore, 2Kuala Lumpur Hospital, Kuala Lumpur, Malaysia

A-051 Reference Intervals for Serum T4 and FT4 Among Pregnant Women Linked to the Mãe Curitibana Program
R. F. Paula1, T. M. Telles2, P. C. Felchner3, K. D. Valdati4, C. R. Zuanazzi5, T. M. Panizza6, T. P. Moraes7, C. O. Junior8, G. A. Carvalho9, G. B. Carlos10. 1Siemens Healthineers, São Paulo, Brazil, 2University Federal from Paraná, Curitiba, Brazil, 3Pontificial Catholic University, Curitiba, Brazil, 4Municipal Laboratory-SMS, Curitiba, Brazil, 5Municipal Laboratory - SMS, Curitiba, Brazil, 6Hospital das Clinicas Complex/Federal University of Paranà, Curitiba, Brazil
SCIENTIFIC POSTER SESSIONS
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ENDOCRINOLOGY & METABOLISM

A-052  The Importance of Thyroid-Stimulating Immunoglobulin (TSI) in the Diagnosis and Follow-up of Marine-Lenhart Syndrome
R. Fontes¹, M. M. Negri², P. Araujo¹, S. Marui², A. Gomes³, Y. Schrank¹, A. Peruoz³, M. F. Pinheiro¹, D. M. Gomes³, G. Campana⁴, E. K. Tourinho⁵, A. Vangelotti⁶, J. T. Pena⁶. ¹Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, Rio de Janeiro, RJ, Brazil, ²Instituto Estadual de Diabetes e Endocrinologia Luiz Caprignole (IEDE), Rio de Janeiro, RJ, Brazil, ³Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, São Paulo, SP, Brazil, ⁴Instituto Estadual de Diabetes e Endocrinologia Luiz Caprignole (IEDE), São Paulo, SP, Brazil, ⁵Universidade Federal do Rio de Janeiro (UFRJ), Rio de Janeiro, RJ, Brazil, ⁶Private Clinic, Rio de Janeiro, RJ, Brazil.

A-053  Poor Clinical Utility of Free and Bioavailable Testosterone is Underscored by Overutilization
C. D. Koch.  Sanford Health, Sioux Falls, SD

A-054  Comparison of a Reformulated Vitamin D Immunoassay, Its Predecessor, and Two Contemporary Formulations
K. A. Geno¹, Y. F. Alvarez¹, M. A. Cervinski¹, J. A. Hubbard¹, R. D. Nerenz², R. J. Singh³. ¹Dartmouth-Hitchcock Medical Center, Lebanon, NH, ²Three Rivers Diagnostics, Pittsburgh, PA, ³Medical College of Wisconsin, Milwaukee, WI, Mayo Clinic, Rochester, MN

A-055  Clinical Performance Evaluation of the ADVIA Centaur AMH Assay
K. Freeman¹, J. Snyder¹, C. Brown¹, R. Singleton¹, R. Christenson², S. Donald³. ¹Dartmouth-Hitchcock Medical Center, Lebanon, NH, ²Siemens Healthineers, Tarrytown, NY, ³University of Maryland, Baltimore, MD

A-056  Data Driven Approach to Ensure Accurate Total Testosterone Results in Consumer Initiated, Home-Collected Capillary Samples
A. R. Naranjo¹, C. Carter¹, J. Chen¹, A. Hamdan¹, M. D. Krasowski², K. O’Connor², D. N. Greene³. ¹LetsGetChecked Laboratories, Monrovia, CA, ²University of Iowa, Iowa City, IA

A-057  Cerebrospinal Fluid Prolactin in Patients with Neurological Disorders
I. A. Hashim, E. Abraham.  UT Southwestern Medical Center, Dallas, TX

A-058  Frequency of Biochemical Assessment of Risk for Heart Failure Among Diabetic Population
J. Joseph¹, J. Neeley², L. A. Hashim³. ¹University of Texas at Dallas, Dallas, TX, ²UT Southwestern Medical Center, Dallas, TX

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

A-060  Thyroid Laboratory Database Assessment Shows That Total Triiodothyronine Significantly Decreases with Age
R. Fontes¹, P. Telles-Dias¹, T. C. Sousa², P. Araujo¹, B. S. Santos¹, A. C. Lopes³, F. S. Lopes⁴, M. F. Pinheiro¹, D. M. Gomes¹, C. O. Sabino¹, A. N. Cury³, M. C. Castelo³, L. L. Cavalcante¹. ¹Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, Rio de Janeiro, RJ, Brazil, ²Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, Recife, PE, Brazil, ³Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, São Paulo, SP, Brazil, ⁴Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, Brasilia, DF, Brazil, ⁵Dasa, Brasil; Instituto de Ensino e Pesquisa Dasa, Brasil, Fortaleza, CE, Brazil

A-061  Performance Evaluation of Improved Versions of Norudia GA Reagents that Reduce Negative Interference During Glycated Albumin Measurements
H. Park, B. Lee, S. Kim.  Samsung Medical Center, Seoul, Korea, Republic of
## GENERAL CLINICAL CHEMISTRY & LABORATORY MEDICINE

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H. Park¹, S. Kim¹, S. Kim², K. Lee³, Y. Lee⁴, S. Chun⁵. ¹Samsung Medical Center, Seoul, Korea, Republic of; ²Asan Medical Center, Seoul, Korea, Republic of; ³Seoul National University Bundang Hospital, Seongnam, Korea, Republic of; ⁴Soochunhyang University Bucheon Hospital, Bucheon, Korea, Republic of

### A-063 Use of the Icteric Index to Identify Patients with Hyperbilirubinemia

D. Núñez Jurado, I. Rodríguez Martín, J. Montenegro Martínez, J. Guerrero Montávez. Virgen del Rocio University Hospital, Seville, Spain

### A-064 Sensitive Urine Immunoassay for Lipoarabinomannan for Non-Invasive Tuberculosis Diagnosis

Y. Meng, T. Shi, P. Chen, B. Ying. West China Hospital of Sichuan University, Chengdu, China

### A-065 Can Medical Education Help Bring Artificial Intelligence Into the Clinical Chemistry Laboratory?

L. Jafri¹, A. Jameel Farooqui¹, J. Grant², R. Gale³, S. Ahmed⁴, H. Majid⁵, A. Habib⁶, U. Omer⁷. ¹Aga Khan University Hospital, Karachi, Pakistan, ²Centre for Medical Education in Context (CenMEDIC), Middlesex, United Kingdom, ³American Open University, Alexandria, VA, ⁴Putnam PHMR, Newcastle, United Kingdom

### A-066 Exploring the Potential of Serum Periostin as a Predictive Biomarker for Early-onset Idiopathic Pulmonary Fibrosis: A Follow-up Study

M. Liu, Z. Cheng, H. Li, H. Huang, B. Sun. Department of Allergy and Clinical Immunology, Department of Laboratory, National Center for Respiratory Medicine, National Clinical Research Center for Respiratory Disease, The First Affiliated Hospital of Guangzhou Medical University, Guangzhou, China, Guangzhou, China

### A-067 To Reduce Sweat Rejection Rate, Using Six Sigma Methodology

S. Azeem. The Aga Khan University hospital, Karachi, Pakistan

### A-069 Atellica® Ci 1900 Sample Carryover Performance Evaluation

T. Pham, K. Kolewe, M. Ho, S. Lewisch, J. Snyder. Siemens Healthcare Diagnostics Inc., Newark, DE

### A-070 A Fully Automated HbA1c Assay on the DxC 500 AU Clinical Chemistry Analyser

C. Stokes¹, S. Frost², L. Frost³, N. Mcinerney¹, S. O’Dwyer¹. ¹Beckman Coulter Ireland, Clare, Ireland, ²Beckman Coulter, Clare, Ireland

### A-071 Comparison of eGFR Calculated by the MDRD, the 2021 CKD-EPI Creatinine and the 2021 CKD-EPI Creatinine-cystatin C Equations in Taiwanese

C. Lai, H. Lee, H. Ho. Taipei Veterans General Hospital, Taipei, Taiwan

### A-072 An All-Purpose Particle Enhanced Immunoturbidimetric Assay for the Comparable, Instrument-Independent Monitoring of Procalcitonin in the Management of Sepsis

M. Grimmler. DiaSys Diagnostic Systems GmbH, Holzheim, Germany

### A-073 Specimen Storage and Onboard Stability of Serum Ionized Calcium Using the Nova Prime ES Comp Plus Analyzer

J. J. Hunsaker¹, S. L. La’ulu¹, K. Doyle². ¹ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, ²University of Utah Health, Department of Pathology, Salt Lake City, UT
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A-075 Development and Validation of Image-based Cell Counter Microscanner 3 for CD34-positive Hematopoietic Stem Cell Enumeration
C. Lee1, I. Park2, S. Yoon3, C. Lim4, J. Kwon1. 1Department of Laboratory Medicine, Korea University Guro Hospital, Seoul, Korea, Republic of; 2College of Medicine, Korea University, Seoul, Korea, Republic of

A-076 Abbott Alinity ci System Automated Sample Interference Indices for Immunoassays
M. Berman1, M. Anderson2. 1Abbott Labs, North Chicago, IL, 2Abbott Labs, North Chicago, IL

A-078 Accuracy Based Sigma Metrics of Alinity c System as Benchmarked Against Roche c701
L. Cheng1, Q. Guan1, H. Li1, J. Miao2, P. Sun1, C. Chen1. 1Department of Clinical Laboratory, Tongji Hospital, Tongji Medical College of HUST, Wuhan, China; 2China R&D Center, Core Diagnostics, Abbott Laboratories, Shanghai, China, 3Medical & Scientific Research, Core Diagnostics, Abbott Laboratories, Singapore, Singapore

A-079 Analytical Assessment of Abbott’s SigmaSTRONG Assays on the Alinity c and ARCHITECT c Systems
S. Cox1, T. James1, K. Allott1, R. Evankai1, G. H. Potter1, G. Allen1, I. Lapic2, A. Bogic2, D. Rogic2. 1Oxford University Hospitals, Oxford, United Kingdom, 2KBC Zagreb, Zagreb, Croatia

A-080 Overcoming Challenges of Equilibrium Dialysis-Based Free Thyroxine Measurements

A-081 Usefulness of the Ischemia or Exercise Intolerance Test in the Clinical Laboratory as a Screening for the Diagnosis of Myopathies
C. Macias-Blanco, L. Valentin-Aragón, S. Castañeda-Nieto, I. Espejo-Portero, M. Barcos-Martinez, F. Rodriguez-Cantalejo. Hospital Reina Sofia, Córdoba, Spain

A-082 Measuring Peroxynitrite as an Early Biomarker for Cystic Fibrosis Using Organoselenide-Modified Glassy Carbon Electrode
M. Ibrahim1, H. Kalil2, M. Bayachou1. 1Cleveland state university, Cleveland, OH, 2Cleveland State University, Cleveland, OH

A-085 Analytical Performance of BÜHLMANN sCAL® turbo, a New, Reliable and Precise High-Throughput Assay to Assess the Inflammatory Status of Patients

A-086 Vitamin D and its Variation in a Pandemic Context: Pre-pandemic - Intra-pandemic - Post-pandemic Analysis in the Province of Buenos Aires - Argentina
P. N. Canala, M. D. Canala, M. Spiccia, G. Ghioni. Labint, Moron, Argentina

A-087 Relationship Among Different Inflammatory Markers in Patients with COVID-19 Infections
R. Yadav, P. Chopra, T. Sehgal, S. K. Datta, A. Ningombam, A. Ahirwar. AIIMS New Delhi, New Delhi, India
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<td>D. Su, H. Wu, Q. Zhao. Maternity &amp; Child Center of Qinhuangdao, 秦皇岛市, China</td>
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<td>A-089</td>
<td>Incorporation of CKD-EPI (2021) Creatinine-cystatin C Combined e-GFR Equation in Clinical Practice is the Need of the Hour for Early Detection of Renal Damage in CKD Patients: A Cross Sectional Study in Eastern India</td>
<td>R. Dastidar¹, K. Sikder², B. Das³. ¹Department of Biochemistry, Ramakrishna Mission Seva Pratishthan, Vivekananda institute of Medical Sciences, Kolkata, India, ²JIVAN research unit, Department of Biomedical Science and Technology, School of Biological Sciences, Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), Kolkata, West Bengal, India, ³Department of Biochemistry, Immunology &amp; Toxicology, Kokilaben Dhirubhai Ambani Hospital &amp; Medical Research Institute, Mumbai, India</td>
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<td>Impact of Changing Total Calcium Methodology on Observed Hypercalcemia Prevalence at an Academic Health System</td>
<td>C. K. LaValley, K. Dagang, J. J. Lado Abeal, P. Fu Teng, N. Tran. UC Davis Health, Sacramento, CA</td>
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<td>Assessing the Reliability of Creatinine-Estimated Glomerular Filtration Rate in Living Kidney Donor Candidates: Does it Measure up to the Measured Rate?</td>
<td>S. Lahorewala, X. Yi, R. Bertholf. Houston Methodist Hospital, Houston, TX</td>
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<td>Trends in Laboratory Communications Utilized in the Implementation of the Race-Free CKD-EPI 2021 Estimated Glomerular Filtration Rate (eGFR) Equation</td>
<td>S. Luby. University of North Carolina-School of Medicine, Chapel Hill, NC</td>
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<td>Clinical Performance of Biomarkers for Traumatic Brain Injury</td>
<td>K. B. Grasso¹, J. L. Yen¹, A. Rutkowski¹, R. S. Ostro¹, D. R. Johnston¹, A. C. Buss², S. A. Datwyler¹, J. Marino¹, R. H. Christenson³, Y. Zhu⁴, C. deFilippi⁵, K. L. Caudle⁶. ¹Abbott Laboratories, Lake Forest, IL, ²Abbott Laboratories, Abbott Park, IL, ³University of Maryland-Baltimore, Baltimore, MD, ⁴Penn State Milton S Hershey Medical Center, Hershey, PA, ⁵Inova Health System, Falls Church, VA, ⁶US Army Medical Materiel Development Activity, Fort Detrick, MD</td>
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<td>A-094</td>
<td>Performance Evaluation of GFAP and UCH-L1 Biomarkers for Traumatic Brain Injury in the Alinity i TBI Test (in development)</td>
<td>S. A. Datwyler¹, R. Chandran¹, J. A. Marino¹, D. R. West¹, H. N. Syed¹, Z. Al Sahouri¹, J. C. Badianow¹, K. L. Caudle², B. McQuiston¹. ¹Abbott Laboratories, Abbott Park, IL, ²US Army Medical Materiel Development Activity, Fort Detrick, MD</td>
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<td>A-097</td>
<td>Stability Study of 21 Common Plasma Biochemistries in Unspun Whole Blood</td>
<td>M. Ospina Romero¹, T. Robakowski², A. Nelson³, K. Grant³, Z. Jin¹, K. Galier¹. ¹UW Madison, Madison, WI, ²UWHealth, Madison, WI</td>
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**A-098** Preliminary Tests of Cell Viability, Proteins and mRNA After Freezing PBMC for the Study of Chronic and Acute Lymphoproliferative Leukemias  
M. C. Feres¹, L. V. Soares², S. d. Roz³, O. F. Souza⁴, P. Vicari⁴, C. C. Cabral³, D. R. Ramadan³, S. Tufik², A. F. Popi⁴. ¹Associação Fundo de Incentivo - Afip, Sao Paulo, Brazil, ²Universidade Federal de Sao Paulo - Unifesp, Sao Paulo, Brazil, ³Associação Fundo de Incentivo - Afip, Sao Paulo, Brazil, ⁴Universidade Federal de Sao Paulo - Unifesp, Sao Paulo, Brazil, British Indian Ocean Territory

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H. Chae, H. Jang, K. Cha, E. Oh. Seoul St. Mary’s Hospital, Seoul, Korea, Republic of

**A-101** Assessing Glycemic Control in Potential Blood Donor at the Blood Bank of the University College Hospital, Ibadan, Nigeria  
T. D. Ogunleye. University College Hospital, Ibadan, Nigeria

**A-102** Development and Validation of Turbidimetric Retinol Binding Protein (RBP) Assay  
M. Jaquemar, A. Safdari, T. Nilsen, T. Knüttel, A. Havelka. Gentian AS, Moss, Norway

**A-103** Stability Study of the Biogenic Amines 5-hydroxyindoleacetic Acid (5-HIAA), Vanillylmandelic Acid (VMA), and Homovanillic Acid (HVA) in Acidified Versus Non-acidiﬁed Human Urine Samples  
L. F. Junior, B. F. Paulo, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil

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G. Ogbonna¹, P. Ajongwen², S. Alvey². ¹QuidelOrtho, Rochester, NY, ²QuidelOrtho, Raritan, NJ

**A-105** Analytical Performance Evaluation of Four General Chemistry Assays on the Atellica CI 1900 Analyzer Used to Assess Kidney Function  

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E. T. Larvey. J. H. Nichols. Vanderbilt University Medical Center, Nashville, TN

**A-107** Estimating Glomerular Filtration Rate by the Serum Creatinine and Cystatin C-plus-Creatinine Equations: Concordance and Effect on GFR Categorization  
R. C. Faught, M. R. McGill, H. Hagrass. UAMS, Little Rock, AR

**A-108** Validation of Plasma Oxalate Measurement on the Roche cobas c501  
S. Zilka, G. M. Kroner. Cleveland Clinic, Cleveland, OH

**A-109** Application of Lean Manufacturing in Electrophoresis Test Processing in Order to Reduce Lead Time  
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C. Robinson, A. Sinopoli, D. Blagovcanin, J. Rhea McManus, J. Cheek. Siemens Healthineers, Tarrytown, NY

A-111  There is More to Diluting Icterus Interference than Meets the Eye
M. A. Lasho, N. A. Baumann, D. R. Block. Mayo Clinic, Rochester, MN

A-112  A Consensus Reference Range for Ionized Magnesium
D. Begos. Nova Biomedical, Waltham, MA

A-114  Mas™ Omni-Core™ Controls, Ready-to-Use Tube Format

A-115  Effects of BMPR1B and MYH9 Variants on Diabetic Nephropathy
E. Ndour¹, K. Mnika², F. Gueye Tall², M. Djite³, V. Nembaware⁴, H. Sagna Bassene¹, S. Mara¹, R. Dione¹, J. P. Diop⁴, N. K. Barry¹, P. M. Kandji¹, A. Sarr⁴, R. Ndiaye Diallo⁵, N. Ndour Mbaye⁶, P. Gueye⁶, A. Cisse⁶, A. Wonkam⁶, P. Lopez Sall.¹ ¹Department of Pharmaceutical Biochemistry, Faculty of Medicine, Pharmacy and Dentistry, Cheikh Anta Diop University, Dakar, Senegal, ²Division of Human Genetics, National Health Laboratory Service, and School of Pathology, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa, ³Division of Human Genetics, Department of Pathology, Faculty of Health Sciences, University of Cape Town, Cape Town, South Africa, ⁴Department of Human Genetics, Faculty of Medicine, Pharmacy and Dentistry, Cheikh Anta Diop University, Dakar, Senegal, ⁵Department of Internal Medicine, Faculty of Medicine, Pharmacy and Dentistry, Cheikh Anta Diop University, Dakar, Senegal, ⁶McKusick-Nathans Institute and Department of Genetic Medicine, Johns Hopkins University School of Medicine, Baltimore, MD

A-116  Evaluation of Lp(a) Ultra Assay for the Immunoturbidimetric Quantitative Determination of Lipoprotein (a) in Human Serum and Plasma with Siemens Healthineers Atellica CH 930 Analyzer
A. Cugini, L. De Angelis, R. Lucini, S. Brambilla. Sentinel CH. SpA, Milano, Italy

A-117  Performance Evaluation of Five Sentinel Diagnostics’ Assays on Beckman Coulter DxC 500 AU Clinical Chemistry Analyzer
A. Cugini¹, D. O’Meara², F. Di Gennaro¹, N. Di Rocco³, C. Assalini¹, R. Lucini¹, S. Brambilla¹. ¹Sentinel CH. SpA, Milano, Italy, ²Beckman Coulter Ireland Inc., Maryfort, O’Callaghansmills, Co. Clare, Ireland

A-118  Evaluation of Mindray Cystatin C Assay
Y. Bao¹, J. Hu¹, M. Jiang¹, J. Wang¹, J. Dai². ¹Mindray Bio-Medical Electronics Co., Ltd., shenzhen, China, ²Mindray IVD Innovation Center Minnesota, Oakdale, MN

A-119  Performance Evaluation of a New Enzymatic Creatinine Assay on Mindray Clinical Chemistry BS-2800M Analyzer with Excellent Accuracy
X. Zheng¹, H. Wang¹, M. Wu¹, Z. Liu¹, J. Wang¹, M. Jiang¹, J. Dai². ¹Shenzhen Mindray Bio-medical Electronics CO., LTD., Shenzhen, China, ²Mindray IVD Innovation Center Minnesota, Oakdale, MN

A-120  Performance Evaluation of Three Sentinel Diagnostics’ Assays on Roche cobas c 303 Analytical Unit
M. De Lorenzis, F. Di Gennaro, M. Valdambrini, L. De Angelis, R. Lucini, S. Brambilla. Sentinel CH. SpA, Milano, Italy
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M. De Lorenzis, F. Di Gennaro, L. De Angelis, R. Lucini, S. Brambilla. Sentinel CH. SpA, Milano, Italy

A-122 Fluid Type (STILL) Matters: An Analysis of Quality Control Material Suitability for Measuring Eleven Body Fluid Analytes in the Clinical Laboratory
R. C. Fyffe-Freil, N. A. Baumann, D. R. Block. Mayo Clinic, Rochester, MN

A-123 Increased Rate of Recurrent Hemolysis is Associated with COVID-19 Infection and Propofol Administration in the Intensive Care Unit (ICU)
R. Fyffe-Freil, A. Wockenfus, E. A. Hain, M. A. Nicklas, N. A. Baumann, B. M. Katzman. Mayo Clinic, Rochester, MN

A-124 Evaluation of the Analytical Performance of 10 General Chemistry Assays on the Atellica® CI 1900 Analyzer

A-125 Analytical Performance of Chemistry Assays Comprising the Basic Metabolic Panel on the Atellica® CI 1900 Analyzer

A-126 Evaluation of NMR-based GFR Estimation in Dosing of High-dose Methotrexate
A. N. Schwäble Santamaría1, S. Einhell2, A. N. Robertson1, M. Grassi1, T. Pukrop2, E. Schiffer1. 1Numares AG, Regensburg, Germany, 2Universitätsklinikum Regensburg, Regensburg, Germany

A-127 Bias and Precision of a NMR-based GFR Estimating Equation in Kidney Transplant Recipients
A. N. Schwäble Santamaria1, J. Meeuwen1, J. Lieske2, R. J. Scott1, A. N. Robertson1, M. Grassi1, E. Schiffer1. 1Numares AG, Regensburg, Germany, 2Mayo Clinic, Rochester, MN

A-128 Analytical Performance Evaluation of Assays Used for Iron Studies on the Atellica® CI 1900 Analyzer

A-129 Analytical Performance Evaluation of Vitamin D, Intact Parathyroid Hormone, and Inorganic Phosphorus on the Atellica® CI 1900 Analyzer

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<td>A. Haynes1, J. MacKenzie1. ‘MercyOne, Des Moines, IA, ‘Advanced Instruments, LLC, Norwood, MA</td>
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<td>A. Yamazaki1, Y. Nuki2, T. Kameda2, R. Saito3, Y. Koda4, N. Ichimura4, S. Tohda4, R. Ohkawa1. 1Analytical Laboratory Chemistry, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, 2Department of Infection Control and Prevention, Tokyo Medical and Dental University (TMDU) Hospital, Tokyo, Japan, 3Department of Molecular Microbiology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, 4Clinical Laboratory, Tokyo Medical and Dental University (TMDU) Hospital, Tokyo, Japan</td>
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<td>H. Lee1, F. Wang1, H. Ho3. 1Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital, Taipei, Taiwan, 2Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital, Taipei, Taiwan; Department of Biotechnology and Laboratory Science in Medicine, National Yang Ming Chiao Tung University, Taipei, Taiwan</td>
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<td>F. Wang1, H. Lee1, Y. Chen1, H. Ho3. 1Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital, Taipei, Taiwan; Department of Biotechnology and Laboratory Science in Medicine, National Yang Ming Chiao Tung University, Taipei, Taiwan</td>
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<td>Evaluation of the Novel Blood Coagulation Analyzer S400CF Comparison on Basic Performance and Turnaround Time with the CP 3000</td>
<td>Y. Abe1, K. Uchida2, S. Munekata2, Y. Kanoh3. 1Kitasato University Hospital, Sagamihara-shi, Kanagawa, Japan, 2Kitasato University Hospital Clinical Laboratory Department, kkNagawa-ken, Japan, 3Kitasato University School of Medicine Clinical Laboratory Diagnosis, kkNagawa-ken, Japan</td>
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<td>A. Walton. The University of Kansas Health System, Kansas City, KS</td>
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A-143  Imaging Flow Cytometry: A Novel Method Using ADVIA 2120i System Reagents and Microscopic Image Analysis  
M. Azhar1, I. Chakraborty1, A. Joshi2, F. Stelling3. 1Center for Innovation in Diagnostics (CID), Siemens Healthineers, Bangalore, India, 2Siemens Technology and Services Pvt. Ltd, Bangalore, India, 3Siemens Healthcare Diagnostics Inc., Tarrytown, NY

R. Seliger1, M. Kraus2, T. Engel3. 1Center for Innovation in Diagnostics, Siemens Healthcare GmbH, Erlangen, Germany, 2Technology Excellence, Siemens Healthcare GmbH, Erlangen, Germany, 3Siemens AG, Munich, Germany

A-145  Development of a Novel Algorithm Using Red Blood Cell Indices for Screening of Alpha Globin Gene Deletions  
X. Zhang1, J. Oliveira1, B. Parikh2. 1Mayo Clinic, Rochester, MN, 2Washington University School of Medicine, St. Louis, MO

A-146  A Review of RDW-CV and RDW-SD Measurements in Patients with Iron Deficiency Anemia in an Acute Care Hospital in Singapore  
Z. Chen, F. Ilagan, P. Heng, V. Prasad. Khoo Teck Puat Hospital, Singapore, Singapore

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A-148  Thromboelastography Utilization in a Community Hospital Setting  
J. L. Allen, M. Christian, A. Zuretti, M. H. Bluth. Maimonides Medical Center, Brooklyn, NY

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S. Ibrahim1, M. Pandiri1, J. Bailey1, E. Housman2, V. Johari3, M. A. Barbhuiya4. 1Department of Pathology, UMass Chan Medical School-Baystate, Springfield, MA, 2Department of Pharmacy Services, Baystate Health, Springfield, MA, 3Department of Pathology, UMass Chan Medical School-Baystate, Springfield, MA, 4Department of Pathology; Healthcare Delivery and Population Sciences, UMass Chan Medical School-Baystate, Springfield, MA

A-150  ABO Subgroup Incompatibility Leading to Red Cell Engraftment Failure and Fatal Outcome: A Rare But Preventable Complication in Related Allogeneic hSCT  
F. M. Conti1, A. Valveson2, R. Pereira2, F. Nascimento2, M. Hori3, M. C. Mello4, M. C. Castelo5, A. C. Lopes6. 1Dasa, Rio de Janeiro, Brazil, 2Hemocentro São Lucas, Rio de Janeiro, Brazil, 3Américas Oncologia, Rio de Janeiro, Brazil, 4Dasa, São Paulo, Brazil, 5Dasa, Fortaleza, Brazil, 6Dasa, Florianópolis, Brazil

A-151  Evaluation of Monocyte Distribution Width as an Early Marker for Diagnosis of Sepsis  
J. Park1, J. Kang1, Y. Choi1, H. Choi2, M. Shin3. 1Chonnam National University Hwasun Hospital, Hwasun, Korea, Republic of, 2Chonnam National University Hospital, Gwangju, Korea, Republic of

P. Toulon1, A. Sudria1, I. Harzallah2. 1Pasteur University Hospital, Nice, France, 2Emile Müller Regional Hospital, Mulhouse, France
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9:30 a.m. - 5:00 p.m.

HEMATOLOGY & COAGULATION

A-155 Unlocking the Complete Blood Count: Derivation of a Single-panel Laboratory Test that Includes Monocyte Distribution Width to Create a Universal Sepsis Screening Tool
J. S. Hinson1, N. Sarani2, A. Smith3, A. Debraine4, O. S. Badaki-Makun1, A. Malinovska1, S. Levin5. 1Johns Hopkins University School of Medicine, Baltimore, MD, 2Kansas University Medical Center, Kansas City, MO, 3Beckman Coulter, Brea, CA

A-156 White Blood Cell Measurands, Flagging and Scatter Plot Patterns in Chronic Lymphocytic Leukemia
S. Silva1, Y. Li2, Y. Chen1, M. Ismail1, S. Musolino1, I. Talarico1, D. Cosseddu3, B. Montaruli3, A. Insana4, C. Rongey5. 1Abbott Diagnostic Division, Santa Clara, CA, 2Abbott Laboratories, Lake Forest, IL, 3Azienda Ospedaliera Ordine Mauriziano di Torino, Torino, Italy

A-157 Evaluation of Cellular Stability in Bone Marrow for Flow Cytometry Analysis
A. Correa Wengerkievicz Lopes1, I. Sousa2, C. Muniz Ribeiro Franzon1, J. Valim Franzon1. 1Laboratório Médico Santa Luzia DASA, Florianópolis, Brazil, 2Laboratório Médico Santa Luzia DASA, Florianópolis, Brazil

A. Correa Wengerkievicz Lopes1, A. Siqueira Castanhel2, C. Muniz Ribeiro Franzon1, J. Valim Franzon1. 1Laboratório Médico Santa Luzia DASA, Florianópolis, Brazil, 2Laboratório Médico Santa Luzia DASA, Florianópolis, Brazil

A-159 Role of TCRB1 Antibody in the Evaluation Panel of T Lymphoproliferative Diseases
A. Correa Wengerkievicz Lopes1, C. Muniz Ribeiro Franzon1. 1Laboratório Médico Santa Luzia DASA, Florianópolis, Brazil, 2Laboratório Médico Santa Luzia DASA, Florianópolis, Brazil

A-160 Factor VIII Chromogenic Low Activity Sample Analysis in a Low Calibration Curve Model
R. F. de Paula1, G. R. Ramos2, M. Yanquen2, C. Borella3, C. M. Perez4. 1Siemens Healthineers, São Paulo, Brazil, 2Hemostasia and Hematology H&H Lab, Bogotá, Colombia, 3Siemens Healthineers.com, São Paulo, Brazil, 4Siemens Healthineers, Bogotá, Colombia

A-161 Analytical Performance of Reagents for Determination of Activated Partial Thromboplastin Time: A Sigma Metric Perspective
R. F. de Paula1, L. Cicarelli2, R. Fock2, C. Borella1, I. Rodrigues1, C. M. Perez4. 1Siemens Healthineers, São Paulo, Brazil, 2Clin. Lab. Div. of the University Hosp. of the Un. of S. Paulo (DLC-HU-USP), São Paulo, Brazil, 3Siemens Healthineers.com, São Paulo, Brazil, 4Siemens Healthineers.com, Bogotá, Colombia

A-162 Standardization of Lupus Anticoagulant Study: 8 Recommendations for Antiphospholipid Syndrome Diagnosis — Vision from Latin America Experts
R. F. de Paula1, G. R. Ramos2, D. D. Ribeiro2, C. Borella1, J. Aldonate3, S. Auvíña3, C. M. Perez4. 1Siemens Healthineers, São Paulo, Brazil, 2Hemostasia and Hematology H&H Lab, Bogotá, Colombia, 3Hemostasis Outpatient Clinic of The Hematology/Oncology/Functional Unit of Hospital das Clinicas UFMG, Minas Gerais, Brazil, 4Clinical Laboratory Redsalud SpA, Santiago, Chile,
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<th>A-163</th>
<th>Abnormal HbA1c Results Lead to an Unexpected Chronic Myeloid Leukemia Diagnosis</th>
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<td>N. J. Mathewson, L. N. Pearson, K. Doyle. University of Utah / ARUP Laboratories, Salt Lake City, UT</td>
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<th>A-164</th>
<th>Key Performance Indicators (KPIs) Can Be Polluted By Add-on Tests</th>
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<tr>
<td>T. Ellison¹, D. Fraser¹, P. Cane¹, D. James², ¹Synnovis, London, United Kingdom, ²Synlab, London, United Kingdom</td>
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<th>A-165</th>
<th>Test Harmonisation as a Key Enabler of Pathology Transformation</th>
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<tr>
<td>T. Ellison¹, P. Cane¹, C. MacFarlane¹, D. James², ¹Synnovis, London, United Kingdom, ²Synlab, London, United Kingdom</td>
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<th>A-166</th>
<th>Severity of Harm Category Designation Survey Results</th>
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<td>L. Peltier¹, S. Van Aelst², B. Peeters², J. Raimbourg³, J. Yundt-Pacheco⁴, ¹Hôpital Pontchaillou, Rennes, France, ²Heilig Hart ziekenhuis, Lier, Belgium, ³Bio-Rad Laboratories, Marnes-la-Coquette, France, ⁴Bio-Rad Laboratories, Irvine, CA</td>
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<th>Repeatedly Positive Serum and Urine Beta-HCG Results in Non-Pregnant Patients — Application of Clinical Decision Support</th>
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<td>M. R. Janosi-Irimie¹, D. Nikolic², T. Bocker Edmonston², ¹Cooper University Health Care, Camden, NJ, ²Cooper University HealthCare, Camden, NJ</td>
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<th>A-169</th>
<th>Addressing Opportunities and Misconceptions of ASCP BOC International Credentials in the Philippines</th>
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<td>J. B. Baker¹, A. Spiczka², C. Gebhart³, ¹American Society for Clinical Pathology, Chicago, IL, ²American Society for Clinical Pathology, Board of Certification, Chicago, IL, ³LifeLink Transplantation Immunology Lab, Tampa, FL</td>
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<td>A. Mehreen¹, K. Isidan¹, D. B. Patel¹, K. Jones², M. Laugesen², H. Lee³. ¹NorthShore University Health System, Evanston, IL, ²ACL Laboratories, Rosemont, IL</td>
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<th>A-173</th>
<th>Comparison of Four Different Quality Control Strategies for Multiple Instruments in a Clinical Laboratory</th>
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<td>H. Kang, J. Jang, H. Jang, J. Rim, J. Lim. Yonsei University, Seoul, Korea, Republic of</td>
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<th>More Timely Patient Care Amidst Healthcare Staffing Shortages, Reducing Blood Specimen Tube Barcode Errors for Continuous Flow in an Automated Laboratory System</th>
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<td>J. R. Copeland, J. Guerriero, B. C. Cook. Henry Ford Health, Detroit, MI</td>
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<th>Objective Indexes for Comparing Platelet Usage Among Peer Hospitals During the COVID-19 Pandemic</th>
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<td>Y. Tu¹, Y. Hsueh², Y. Cheng¹, T. Lin², T. Chiueh², ¹Department of Laboratory Medicine, New Taipei Municipal Tu Cheng Hospital (Built and Operated by Chang Gung Medical Foundation), New Taipei City, Taiwan, ²Department of Laboratory Medicine, Lin-Kou Chang Gung Memorial Hospital, Taoyuan, Taiwan</td>
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<td>A-176</td>
<td>Barriers and Enablers to Laboratory Stewardship Across a 16 Hospital Regional System</td>
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<td>C. R. McCudden1, J. Brehaut2, N. McCleary2. 1University of Ottawa, Ottawa, ON, Canada, 2Ottawa Hospital Research Institute, Ottawa, ON, Canada</td>
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<th>A-177</th>
<th>Validation of Fluoride Tubes for Insulin Measurements</th>
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<td>S. Delgado Macías1, I. Dominguez Pascual2, S. Perez Pujalte2, M. Conde Sánchez2, J. Guerrero Montavez2. 1Hospital Universitario Virgen del Rocio, seville, Spain, 2Vigen del Rocio University Hospital, Sevilla, Spain</td>
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<th>Reduced Hemolysis with a Novel Capillary Collection System as Compared with Conventional Capillary Collection Devices</th>
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<td>M. Parikh, J. Berube. BD, Franklin Lakes, NJ</td>
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<th>A-179</th>
<th>Implementation of an Electronic Competency Evaluation System for Point of Care Testing</th>
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<td>N. Sanchez1, V. Coughlin1, A. Okulewicz1, C. Urena1, M. Mauriello1, D. Chen2. 1NYU Langone Health, New York, NY, 2Dept. of Pathology; NYU School of Medicine, New York, NY</td>
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<th>A-180</th>
<th>A Retrospective Review of Syphilis Serology Interpretation Accuracy</th>
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<td>M. Forsythe1, H. K. Lee2, R. C. Benirschke2. 1University of Chicago, Chicago, IL, 2NorthShore University HealthSystem, Evanston, IL</td>
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<th>A-181</th>
<th>Comparison of POCT Accreditation Between TJC and CAP: Which Way to Go?</th>
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<td>J. Lee1, J. Palmer1, S. Stoeger1, A. Quinn1, M. Rudolph1, K. Brohmer2, D. Yang3, K. Galior2. 1UWHealth, Madison, WI, 2UW Madison, Madison, WI</td>
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<th>The Journey From Conceptualizing, Designing, and Implementing Our Integrated Smart Core Lab at Kokilaben Dhirubhai Ambani Hospital (KDAH) &amp; Medical Research Institute, Mumbai, India</th>
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<td>V. Vadera1, S. Singhai2, A. Manjure3, B. Das2. 1Kokilaben Dhirubhai Ambani Hospital (KDAH) &amp; Medical Research Institute, Mumbai, India, 2Kokilaben Dhirubhai Ambani Hospital (KDAH) &amp; Medical Research Institute, MUMBAI, India, 3Roche Diagnostics India Ltd, Mumbai, India</td>
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<th>Improving Turnaround Time of Critical Value Reporting by Reducing Redundant Workflow</th>
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<td>F. Chuang. Chiayi Chang Gung Memorial Hospital, Puzi City, Chiayi County, Taiwan</td>
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<th>Racing Against the Clock: Process Improvement Project to Reduce Cardiac Troponin Turnaround Time Through Autoverification of Results</th>
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<th>Enabling Laboratories to do More with Less: Assessment of Workflow Efficiencies Through Instrument Consolidation in an Immunology Lab</th>
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<td></td>
<td>J. Murphy1, C. Miller1, E. Yu2. 1Thermo Fisher Scientific, Portage, MI, 2Geisinger Medical Center, Danville, PA</td>
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LABORATORY MANAGEMENT & PATIENT SAFETY

A-187  The Effect of Ambient Temperature on Potassium During Hot Months: The Seasonal Pseudohypokalemia Delima!

A-188  Managing a Fully-automated Paperless Laboratory During a Cyber-attack
S. K. Datta1, P. Chopra1, T. Sehgal2, R. Yadav2. 1All India Institute Of Medical Sciences, New Delhi, New Delhi, India, 2All India Institute of Medical Sciences, New Delhi, India

A-189  Volume Matters: Continuous Improvement to Reduce Blood Collection Volumes and Collection Tube Utilization

A-190  The Effect of Lipemia on the Laboratory Assessment of Blood Gases

A-191  The Importance of a Medical Consulting Center as a Strategy for Customer Relationship Management Regarding Unexpected Test Results
A. C. Bispo1, P. Araujo1, P. Telles-Dias1, D. S. Rodrigues1, J. D. Souza1, L. S. Santos1, L. H. Hasselmann1, Y. Schrank1, L. D. Spina1, M. F. Pinheiro1, A. C. Lopes1, S. Argolo1, D. M. Gomes1, A. F. Perozo1, R. Fontes1. 1Dasa, Rio de Janeiro, Brazil, Rio de Janeiro, RJ, Brazil, 1Dasa, Brazil, São Paulo, SP, Brazil

A-192  Cause and Departmental Origin of Errors — An Investigation of Questionable Patient Test Results
A. L. Brady, M. Hayden, M. B. Elkins, M. R. Nasr, A. Reyes, Z. T. Cao. SUNY Upstate Medical University, Syracuse, NY

A-193  Effects of Delayed Centrifugation and Delayed Testing on the Stability of Comprehensive Metabolic Profile Analytes
C. W. Chan, A. Gant Kanegusuku, K. J. Yeo. The University of Chicago, Chicago, IL

A-194  Intravenous Fluid Contamination of Basic Metabolic Panels is Underrecognized By Manual Workflows
N. C. Spies, C. W. Farnsworth, M. A. Zaydman. Washington University in St. Louis School of Medicine, Saint Louis, MO

A-195  The Application of Six Sigma Metrics to Assess Quality Control of Syphilis Tests in a Clinical Laboratory
A. H. Utiyama, R. T. Pereira, T. Rodrigues, A. C. Bandeira, D. R. Ramadan, S. Tufik. AFIP Medicina Diagnóstica, São Paulo, Brazil

A-196  Trend Analysis in Proficiency Testing — Does it Work?
A. C. Bandeira, J. M. Banzato, A. H. Utiyama, V. F. Coutinho, D. R. Ramadan, S. Tufik. AFIP Medicina Diagnóstica, São Paulo, Brazil
LIPIDS, LIPOPROTEINS & CARDIOVASCULAR RISK FACTORS

A-198  Acute Effects of a Single Moderate-Intensity Exercise on Omega-3 and Omega-6 Metabolic Pathway Using Whole Blood Lipidomics
N. Sakane1, A. Suganuma1, S. Sakane1, M. Fujibayashi2. 1Kyoto Medical Center, Kyoto, Japan, 2Setsunan University, Osaka, Japan

A-200  Lipid Distributions in the Global Diagnostics Network — A Cross-Sectional Analysis of 462 Million Lipid Results from 17 Countries Across 5 Continents
S. Martin1, J. Niles1, H. Kaufman1, Z. Awan1, O. Elgaddar1, R. Choi1, S. Ahn1, R. Verma1, M. Nagarajan1, A. Don-Wauchope1, M. Castelo2, C. Hirose2, D. James11, D. Truman11, M. Todorovska11, A. Momirovska11, H. Pivovarnikov11, M. Rákociová11, P. Louzao Gudín11, R. Viviana11, J. Batu11, N. El Banna11, H. Kapoor1. 1Johns Hopkins University, Baltimore, MD, 2Quest Diagnostics, Secaucus, NJ, 3King Abdulaziz University - Al Borg Diagnostics, Jeddah, Saudi Arabia, 4Alexandria University, Alexandria, Egypt, 5GC Labs - Sungkyunkwan University School of Medicine, Seoul, Korea, 6Dasa, Fortaleza/Ceará, Brazil, 7SYNLAB, Ankara, Turkey, 8SYNLAB, Freiburg Medical Laboratory, Dubai, United Arab Emirates

A-201  Deriving Information From the Lipid Panel as Spherical Coordinates
J. Cole1, M. L. Sampson1, A. T. Remaley1. 1NIH Clinical Center, Bethesda, MD, 2NIH National Heart, Lung, and Blood Institute, Bethesda, MD

A-202  Establishing of Lipid-apolipoprotein Connectivity Map in Hyperglycemia
A. A. Ivanova, B. A. Parks, J. Rees, Z. Kuklenyik, J. R. Barr. CDC, Atlanta, GA

A-203  An Equation Based on the Standard Lipid Panel for Calculating Low-Density Lipoproteins-Triglycerides
A. Wolska1, M. Sampson1, J. W. Meeusen2, L. J. Donato2, A. S. Jaffe2, A. T. Remaley1. 1National Institutes of Health, Bethesda, MD, 2Mayo Clinic, Rochester, MN

A-204  Associations Between Apolipoprotein B/A1 Ratio, Lipoprotein(a) and the Risk of Metabolic-associated Fatty Liver Diseases in a Korean Population
K. Park1, Y. Park2, H. Park3, E. Yoon1, Y. Kim1. 1Samsung Changwon Hospital, Sungkyunkwan University School of Medicine, Changwon, Korea, Republic of, 2Chungnam National University Hospital, Daejeon, Korea, Republic of, 3Seoul Clinical Laboratories, Seoul, Korea, Republic of, 4Inje University Busan Paik Hospital, Inje University College of Medicine, Busan, Korea, Republic of

A-205  Optimized Time Interval for the Measurement of Plasma Lipids for Assessing Cardiovascular Disease Risk
M. Sampson, J. Cole, A. T. Remaley. NIH, Bethesda, MD

A-206  Association of Lipids and Glucose with High-sensitivity CRP (hs-CRP) in a Community-based Adult Population
H. Li, N. White Al-Habeeb, P. Catomeris. Dynacare, Brampton, ON, Canada

A-207  Analytical Validation of Helena SPIFE Touch to Determine ApoB-Containing Lipoproteins Lp(a)-P, LDL-P and VLDL-P
R. J. Scott1, L. Donato2, A. Jaffe2, J. Meeusen2, V. Vasile1. 1Mayo Clinic, Rochester, MN, 2Mayo Clinic, Rochester, MN
### LIPIDS, LIPOPROTEINS & CARDIOVASCULAR RISK FACTORS

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

A-218  Analytical Performance Evaluation of Lipid Panel Assays on the Atellica CI 1900 Analyzer
Siemens Healthineers, Tarrytown, NY

A-219  A Multiplexed Targeted Assay for Gangliosides Using Liquid Chromatography-Tandem Mass Spectrometry

A-220  Comparative Study on the Detection Values of Different Lp(a) Reagents in Chinese Population
Q. Yang. Center of Laboratory Medicine, National Center for Cardiovascular Diseases & Fuwai Hospital, Beijing, China

A-221  Evaluation of Apolipoprotein B Equivalent Low-density Lipoprotein Cholesterol Measurements

A-222  Comparative Analysis of Clinical and Laboratory Parameters of Brazilian Patients with Severe Hypertriglyceridemia
C. L. Costa1, M. C. Castelo2, V. R. Veras1, L. T. Ramos1, V. O. Fernandes1, R. S. Lima1,
M. P. Vasconcelos1, G. P. Lima1, J. S. Araujo1, A. D. Montenegro1, L. L. Queiroz1, C. M. Ponte4,
A. C. Flor1, I. d. Melo1, A. C. Lopes2, R. M. Montenegro Junior1. 1UFC, Fortaleza, Brazil,
2DASA, Fortaleza, Brazil, 3DASA, Florianopolis, Brazil

A-223  Lipoprotein (a) Profile in Patients with Diabetes and Coronary Artery Disease
M. C. Castelo1, V. O. Fernandes2, J. L. Lima Verde1, M. S. Ballalai2, A. D. Montenegro2,
R. M. Montenegro Júnior2, A. C. Lopes3. 1Diagnósticos da América S.A (DASA), Universidade Federal do Ceará, Hospital de Messejana Dr. Carlos Alberto Studart Gomes, Fortaleza, Brazil,
2Universidade Federal do Ceará, Fortaleza, Brazil, 3Diagnósticos da América S.A (DASA), Fortaleza, Brazil

A-224  Comparative Analysis of Clinical and Laboratory Parameters of Different Subtypes of Familial Partial Lipodystrophy
V. R. Veras1, M. C. Castelo2, C. L. Costa1, L. T. Vasconcelos1, V. O. Fernandes1, R. S. Lima1,
M. P. Vasconcelos1, G. P. Lima1, J. S. Araujo1, A. D. Montenegro1, C. M. Ponte1, L. L. Queiroz1,
I. d. Melo1, A. C. Flor1, A. C. Lopes4, R. M. Montenegro Junior1. 1UFC, Fortaleza, Brazil,
2DASA, Fortaleza, Brazil, 3UFC, Florianopolis, Brazil, 4DASA, Florianopolis, Brazil

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### SCIENTIFIC POSTER SESSIONS

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

#### MICROBIOLOGY & INFECTIOUS DISEASE

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<td>Virgen del Rocio University Hospital, Seville, Spain</td>
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<td>S. Lima¹, G. Barra¹, J. A. Poloni¹, J. Barroso¹, R. Lopes¹, M. Mendes¹, R. Montenegro¹, D. Jerônimo¹, F. Brazão², I. Biasoli², V. Biasoli²</td>
<td>&quot;Controlab, Rio de Janeiro, Brazil, &quot;Sabin Medicina Diagnóstica, Brasilia, Brazil, &quot;Divisão de Laboratório Central do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil, &quot;Laboratório Ruth Brazão, Belém, Brazil</td>
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<th>Performance Evaluation of the LabGenius C-CT/NG-BMX Assay for Detection of Chlamydia Trachomatis and Neisseria Gonorrhoeae</th>
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<td>Y. Lim, O. Kweon, M. Lee</td>
<td>Chung-Ang University, Seoul, Korea, Republic of</td>
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<th>Immune Biomarkers Associated with COVID-19 Disease Severity in an Urban, Hospitalized Population</th>
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<td>A. B. Chambliss¹, M. Aljehani², B. Tran², X. Chen², E. Elton², C. Garri², N. Ungi², N. Matasci², M. E. Gross²</td>
<td>&quot;University of Southern California, Los Angeles, CA, &quot;Lawrence J. Ellison Institute for Transformative Medicine, Los Angeles, CA</td>
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<th>Prediction of Severe COVID-19 Based on Routine Biomarker Assessment</th>
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<td>H. Kapoor¹, C. Bi¹, A. E. Salm¹, J. Szymanski², Y. D. Goldstein², L. R. Wolgast², G. Rosenblatt², A. S. Fox², M. H. Kroll¹</td>
<td>&quot;Quest Diagnostics, Secaucus, NJ, &quot;Montefiore Medical Center, Bronx, NY</td>
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<td>S. Bajer-Borstyn, G. Zurawska</td>
<td>Scope Fluidics SA, Warsaw, Poland</td>
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<th>Self-collected Vaginal Swabs for High-Risk HPV Testing in the US: Validation of Pre-Analytical Variables</th>
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<td>M. Qi¹, A. J. Duque¹, T. S. Loney¹, A. Naranjo¹, M. Rummel¹, M. Schapiro², K. J. Suh-Burgmann¹, D. N. Greene¹</td>
<td>&quot;LetsGetChecked Laboratories, Monrovia, CA, &quot;The Permanente Medical Group, Kaiser Permanente Regional Reference Laboratory, Berkeley, CA, &quot;The Permanente Medical Group, Department of Research, Oakland, CA</td>
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<td>H. Wang, N. Krishnaswami, D. Crandall, R. Hu</td>
<td>Thermo Fisher Scientific, Fremont, CA</td>
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<td>J. Lyu</td>
<td>Guangdong Provincial People’s Hospital (Guangdong Academy of Medical Sciences), Guangzhou, China</td>
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<td>A. Zuretti¹, M. Christian³, S. Motov³, M. Kogan³</td>
<td>&quot;suny Downstate, Brooklyn, NY &quot;Maimonides Medical Center, Brooklyn, NY</td>
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MICROBIOLOGY & INFECTIOUS DISEASE

A-240 Rapid and Reliable Identification of Microorganisms from Early Growth of Positive Blood Cultures Using MALDI-TOF Mass Spectrometry
B. L. Roemmich, M. L. Yarbrough, K. K. Alvarado. Washington University in St. Louis, Saint Louis, MO

A-241 The Antimicrobial Activity of Small Molecules from a Symbiotic Cyanobacterium Cyanocohniella sp. Isolated from the Coralloid Root of Cycas Plant
R. Gopal1, S. R2, S. Panuganti1, G. Cherian2. 1Saveetha Dental College and Hospital, SIMATS, Chennai, India, 2Saveetha Medical College and Hospital, Chennai, India

A-242 Integrating Respiratory Metagenomics and Metatranscriptomics for Diagnosis of Lung Cancer and Infection in Patients With Pulmonary Diseases
D. Han1, F. Yu2, Y. Chen1. 1The First Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China, 2Zhejiang University School of Medicine, Hangzhou, China

A-243 Fungal Bloodstream Infections Caused By Two Rare Yeasts and Their Molecular Biological Characteristics
R. Li, J. Chen, S. Yu, P. Jia, X. Xie, Y. Liu. Peking Union Medical College Hospital, Beijing, China

A-244 Performance Comparison of the Alinity i Hepatitis C Core Antigen Assay in Routine Laboratory Testing vs HCV RNA Testing
I. L. Gunsolus1, J. Prostko2, S. Pearce2, B. Degaga1, S. Eckstead1, S. Thapa1, C. Radman1, R. Taylor2, J. Grieshaber2, K. Richard2, A. Hoffman2, A. Pekalska1. 1HealthPartners, Bloomington, MN, 2Abbott Diagnostics, Abbott Park, IL

A-245 Reagent Lot Variation — When Should I be Concerned?
G. Vincini, W. Dimech. NRL, Melbourne, Australia

A-246 Desialylation Profiles of Monocytes and Macrophages Upon LPS Stimulation
M. A. Aljohani, X. A. Sun, Y. A. Zhao. Cleveland State University, Cleveland, OH

A-247 Jnk/c-jun Pathway Activation is Essential for hbx-induced il-35 Elevation to Promote Persistent hbv Infection
X. Li. The First Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China

A-248 Evaluation of NextGene™ MTB/NTM Detection Kit for Detection of Mycobacterium Tuberculosis Complex and Nontuberculous Mycobacteria in Sputum and Culture Specimens
J. Ahn1, D. Kim1, W. Lee2. 1Gachon University Gil Medical Center, Incheon, Korea, Republic of, 2Kyung Hee University Hospital at Gangdong, Seoul, Korea, Republic of
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A-249  Theranostic Algorithm: Sensitivity and Specificity of a Composite Index Test For Guiding Treatment in Severe COVID-19
N. V. De Vos1, M. Bruyneel2, C. Duterme1, A. Roman2, H. Dahma3, S. Alard1, S. Andre6, D. Barglazan1, A. Chirumberro1, F. Cotton1. 1Department of Clinical Chemistry, Laboratoire Hospitalier Universitaire Bruxelles – Universitair Laboratorium Brussel (LHUB-ULB), Université Libre de Bruxelles, Brussels, Belgium, 2Department of Pulmonology, CHU Saint-Pierre, Brussels, Belgium, 3Department of Intensive Care Medicine, CHU Saint-Pierre, Brussels, Belgium and Université Libre de Bruxelles, Brussels, Belgium, 4Department of Microbiology, Laboratoire Hospitalier Universitaire Bruxelles – Universitair Laboratorium Brussel (LHUB-ULB), Université Libre de Bruxelles, Brussels, Belgium, 5Department of Radiology, CHU Saint-Pierre, Brussels, Belgium and Université Libre de Bruxelles, Brussels, Belgium, 6Department of Pulmonology, CHU Brugmann, Brussels, Belgium and Université Libre de Bruxelles, Brussels, Belgium

A-250  Rapid Molecular Identification of Herpes Simplex, Varicella-Zoster, and Enteroviruses From Cerebrospinal Fluid
J. Bialas1, L. Joki2, M. Hermanowski1, K. Brea-Sellheim1, H. Leibhan1, M. Jacobs3, M. Lång4, J. Vainio2, J. Martelin2. 1Labor Berlin - Charité Vivantes Services GmbH, Berlin, Germany, 2Uniogen, Turku, Finland, 3Klinikum der Stadt Ludwigshafen am Rhein GmbH, Ludwigshafen, Germany, 4Department of Clinical Microbiology, Finlab Laboratories, Tampere, Finland

A-251  Comparison of Antimicrobial Susceptibility Profiles of Enterobacteriaceae spp. Isolates from Retail Meat Products Imported from USA and Brazil or Domestically Produced on Caribbean Islands of St. Kitts and Grenada
T. Luthra, K. Varghese, A. Martens, O. Fakayode, J. Harrington. St. George’s University, St. George’s, Grenada

M. Faron1, N. Ledeboer2, B. Van Der Pol3, T. Davis4, E. Lockamy6, S. Paradis5, J. Andrews5. 1the Medical College of Wisconsin, Milwaukee, WI, 2The Medical College of Wisconsin, Milwaukee, WI, 3University of Alabama, Birmingham, AL, 4Sidney and Lois Eskenazi Hospital, Indianapolis, IN, 5Becton, Dickinson and Company, Sparks, MD

A-253  Overcoming Pre-Analytical and Analytical Challenges Associated with Home Collected STI Specimens
B. Hockman1, M. Qi1, H. Rotblatt2, L. Borenstein3, S. Rajagopalan3, D. N. Greene1. 1LetsGetChecked, Monrovia, CA, 2Los Angeles County Department of Public Health Division of HIV and STI Programs, Los Angeles, CA, 3Los Angeles County Department of Public Health Laboratory Division of Serology, Virology, & Molecular Diagnostics, Los Angeles, CA, 4LetsGetChecked Laboratories, Monrovia, CA

A-255  Prevalence of Salmonella spp. and Comparison of Isolate Antimicrobial Susceptibility Profiles from Chicken Meat Products and of Isolates from Caribbean and North American Origins
A. A. Martens1, O. Fakayode1, K. Varghese1, T. Luthra2, J. Harrington2. 1Saint George University, True Blue, Grenada, 2St. George’s University, True Blue, Grenada

A-256  Clinical Performance of Presepsin for Sepsis in the Emergency Department Patients in a Tertiary Hospital in Korea
E. Ji, S. Lee. Pusan National University Yangsan Hospital, Yangsan, Korea, Republic of...
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A-257 Association Between Matrix Metalloproteinase-3 and its Post-Transcriptional Regulator miR-17-5p in the Pathogenesis of Tuberculous Meningitis Patients
A. Aggarwal, S. R. Sharma, M. Modi, K. Sharma, I. Verma, N. Singla, M. Konar, M. Kaur, K. Sharma. 1Post Graduate Institute of Medical Education and research, Chandigarh, India, 2Post graduate institute of medical education and research, Chandigarh, India, 3Post Graduate Institute of Medical Education and Research, Chandigarh, India

A-259 Detecting Human RNase P Gene Prevents False-Negative of SARS-CoV-2
F. Chuang. Chiayi Chang Gung Memorial Hospital, Puzi City, Chiayi County, Taiwan

A-261 Isolation of Extended-Spectrum Beta Lactam Resistant Klebsiella Pneumoniae from Poultry and Pork Products, Originating from St. Kitts and Grenada or Imported from USA
K. Varghese, A. Martens, T. Luthra, O. Fakayode, J. Harrington. 1St George’s University, St. George - True Blue, Grenada, 2St. George’s University, St. George - True Blue, Grenada

A-262 Analytical and Clinical Validation of a Multiplex RT-PCR based Mpox Assay
P. Upadhyay, J. Reddy, V. Singh. 1HealthTrackRX, Denton, TX, 2HealthtrackRX, Denton, TX

A-263 Prevalence and Antimicrobial Susceptibility Profiles of Escherichia Coli Isolated from Retail Meat Products Imported from USA and Domestically Produced on Caribbean Islands of St. Kitts and Grenada
O. O. Fakayode, A. Martens, K. Varghese, T. Luthra, J. Harrington. St. George’s University School Of Medicine, St. George’s, Grenada

A-264 Comparison of the ZEUS Scientific Lyme Assays to the DiaSorin Liaison Lyme Assays Using a Modified Two-Tiered Testing Algorithm for Lyme Disease
M. E. Walsh, D. J. Sietsma, I. W. Martin, L. A. Brunelle. DHMC, Lebanon, NH

A-265 Disparities Among SARS-CoV-2 Antibody Positivity in Healthcare Workers
K. E. Mullins, R. Christenson. University of Maryland School of Medicine, Baltimore, MD

A-266 Evaluation of an Antibody Index Assay for Assessment of Intrathecal Anti-Treponema pallidum IgG Synthesis for the Diagnosis of Neurosyphilis
D. Granger, E. S. Theel. Mayo Clinic, Rochester, MN

A-267 Evaluation of the Quidel Sofia 2 Rapid Lyme Test in a Modified Two-tier Testing Protocol
K. Lewandrowski, J. Branda, S. Turbett, E. Lee-lewandrowski. MGH, Boston, MA

A-268 Evaluation of a Real-Time Multiplex PCR Assay for Simultaneous Detection of Chlamydia Trachomatis, Neisseria Gonorrhoeae, and Trichomonas Vaginalis in Urine Specimens

A-269 Post-pandemic Opportunities for Commercial Laboratories in Infectious Disease Diagnostics and Public Health
D. Nall, X. Thacker, B. Sengsouk, M. Hardison, C. Clark. Aegis Sciences Corporation, Nashville, TN
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**A-271** Verification of a Multiplexed STI Pathogen Microarray Test with Saliva Collected with SDNA-100 Kit  
1Alimetrix, Huntsville, AL, 2Spectrum Solutions, Inc., Draper, UT, 3Spectrum Solutions, LLC., Draper, UT, 4Microarray, Inc., Huntsville, AL

**A-272** Challenges in Designing an Antibiotic Gene Resistance Panel for Clinical Use  
L. Dedhia. Accureference Medical Lab, Linden, NJ

**A-273** Multicenter Assessment of the Accuracy of MIC Results for Piperacillin/Tazobactam with MicroScan Dried Gram-negative MIC Panels Using CLSI Breakpoints  
1Beckman Coulter Microbiology, West Sacramento, CA, CA, 2UCLA David Geffen School of Medicine, Los Angeles, CA, 3Loyola University & Medical Center, Maywood, IL, 4Clinical Microbiology Institute, Wilsonville, OR

**A-274** Validation of Cefepime-Thanoboractam MIC Antimicrobial Susceptibility Test or MicroScan Dried Gram-Negative MIC Panels from a Multicenter Assessment of Enterobacteriales and Pseudomonas Aeruginosa  
1UCLA David Geffen School of Medicine, Los Angeles, CA, 2Loyola University & Medical Center, Maywood, IL, 3Indiana University School of Medicine, Indianapolis, IN, 4Beckman Coulter Microbiology, West Sacramento, CA

**A-275** Clinical Evaluation of SMARTCHEK® SARS-CoV-2 Detection Kit and SMARTCHEK® SARS-CoV-2 Fast Detection Kit for Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in Nasopharyngeal Swabs  
1Gachon University College of Medicine, Incheon, Korea, Republic of, 2School of Medicine, Kyung Hee University, Seoul, Korea, Republic of, 3Korea University College of Medicine, Seoul, Korea, Republic of, 4Ajou University School of Medicine, Suwon, Korea, Republic of

**A-276** Clinical Performance Evaluation of SMARTCHEK® SARS-CoV-2 Detection Kit and SMARTCHEK® SARS-CoV-2 Fast Detection Kit for Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in Saliva  
S. Park, J. Yoo, S. Cho. Ajou University School of Medicine, Suwon, Korea, Republic of

**A-277** Health Economic Impact of Use of GCAL Calprotectin Immunoassay for Early Detection of Infection in Intensive Care Patients  
M. Jaquemar, A. Larsson, A. Havelka.  
1Gentian AS, Moss, Norway, 2Department of Medical Sciences, Clinical Chemistry, Akademiska University Hospital, Uppsala, Sweden

**A-278** Development and Validation of Platform Independent, Turbidimetric Sars-CoV-2 Total Antibody Assay  
1Gentian AS, Moss, Norway, 2Department of Medical Microbiology, Faculty of Medicine, UiT Norwegian Arctic University, Tromsø, Norway
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**MICROBIOLOGY & INFECTIOUS DISEASE**

A-279  Comparison of Direct Identification and Short Incubation Time Methods of MALDI-TOF MS from Positive Blood Vials
S. Kuo1, L. Pan1, H. You1. 1Chiayi Chang Gung Memorial Hospital, Chiayi, Taiwan, 2Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan

A-280  Impact of 2022 CLSI Revised Piperacillin/Tazobactam Clinical Breakpoints on Enterobacteriales Isolates Identified at a Tertiary Medical Center in Southern Taiwan
S. Kuo.  Chiayi Chang Gung Memorial Hospital, Chiayi, Taiwan

A-281  Analysis of Concurrent HBV Surface Antigen and HBV DNA Test Results
G. W. Pratt, L. V. Rao.  Quest Diagnostics, Marlborough, MA

A-282  Coinfection Rates of SARS-CoV-2, Influenza, and Respiratory Syncytial Virus
G. W. Pratt, M. Platt, C. Wong, L. V. Rao.  Quest Diagnostics, Marlborough, MA

A-285  Performance Evaluation of Liaison® QuantiFERON®-TB Gold Plus Assay and its Use in Long-Term Care Facilities

A-286  Performance Evaluation of Molecular Clostridium Difficile Assay Using BD MaxTM System

A-287  Evaluation of Urinalysis Reflex to Culture in Long-Term Care Facilities: Is it Worth it?

A-288  Molecular Detection of Mycobacterium Tuberculosis in Pulmonary and Extra-pulmonary Samples — Data from a Brazilian Clinical Laboratory
J. M. Nurmberger, G. C. de Carvalho, B. B. Perez, M. N. Santos, D. R. Ramadan, S. Tufik.  Associação Fundo de Incentivo a Pesquisa (Afip - Medicina Diagnostica), São Paulo, Brazil

A-289  Emergence of Unusual Non-fermentative Gram-negative Bacilli Associated to COVID-19 Period at Brazilian Hospitals

A-290  Evaluation of a Commercial Turbidity Monitoring System Followed By Mass Spectrometry to Rapid Identification of Microorganisms from Urine Samples

J. Sánchez-Sánchez1, M. Litwin2, A. Jańśka2, A. Kuzan3, &. Madej4, K. Zmijewska5, &. Fulawka5. 1Vitassay Healthcare SLU, Huesca, Spain, 2Molecular Pathology Centre Cellegen, Wroclaw, Poland, 3Molecular Pathology Centre Cellegen and Department of Biochemistry and Immunochemistry, Wroclaw Medical University, Wroclaw, Poland, 4Molecular Pathology Centre Cellegen and Collegium Medicum, Jan Kochanowski University, Wroclaw and Kielce, Poland
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<td>Assessment of the Detection of Gastrointestinal Viruses Using Two Commercial Real-Time PCR Assays</td>
<td>J. Sánchez-Sánchez, C. Fuentes, A. Arrebola, M. Costafreda, A. Bosch, R. M. Pintó, S. Guix. Vitassay Healthcare SLU, Huesca, Spain, Enteric Virus Laboratory, Department of Genetics, Microbiology and Statistics, Faculty of Biology, University of Barcelona / Research Institute of Nutrition and Food Safety, University of Barcelona (INSA-UB), Barcelona/Santa Coloma de Gramenet, Spain</td>
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<td>A-294</td>
<td>Duplicate Testing of Samples Suspected of SARS-CoV-2 Infection Could Prevent Misdiagnosis of Covid-19</td>
<td>J. Sánchez-Sánchez, G. Thapa, A. Mylona, R. Vuono. Vitassay Healthcare SLU, Huesca, Spain, Medway School of Pharmacy, University of Kent, Kent, United Kingdom, Kent and Medway Medical School, Canterbury Christ Church University and University of Kent, Kent, United Kingdom</td>
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<td>Validation of Two New Real Time PCR Assays for the Detection and Differentiation of Plasmodium</td>
<td>P. Cistero, E. Franco-Marín, B. Dehesa-García, B. García-Manrique, H. Alonso, G. Matambisso, H. Mbeve, N. Ndimande, A. Mayor. Instituto Salud Global (ISGlobal), Barcelona, Spain, CerTest Biotec, San Mateo de Gállego, Spain, Departamento de Microbiología, Paediatrics, Radiology, and Public Health, Faculty of Medicine, University of Zaragoza, Zaragoza, Spain, Centro de Investigación en Salud de Maní (CISM), Maputo, Mozambique</td>
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<td>Validation of a Real Time PCR Kit for the Detection and Differentiation of MRSA, MSSA and MRCoNS in Respiratory Clinical Samples</td>
<td>E. Franco-Marín, B. Dehesa-García, C. Escolar, B. García-Manrique, R. Cebollada, M. Monforte-Cirac, M. Millán-Lou, H. Alonso, C. Aspíroz-Sánchez. CerTest Biotec, San Mateo de Gállego, Spain, Sección de Microbiología, Hospital Royo Villanueva, Zaragoza, Spain</td>
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<td>A-298</td>
<td>Performance Analysis of Three Mpox Real Time PCR Kits With Lesion Swab Clinical Samples</td>
<td>M. Peris, E. Franco-Marín, B. Dehesa-García, B. García-Manrique, H. Alonso. Instituto de Investigaciones Sanitarias de Aragón (IISA), Zaragoza, Spain, CerTest Biotec, San Mateo de Gállego, Spain</td>
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<td>A-299</td>
<td>Clinical Performance Validation of 7 qPCR Kits for the Specific Diagnosis of 5 Enteric Viruses in Clinical Stool Samples</td>
<td>M. Costafreda, A. Bosch, R. M. Pintó, B. Dehesa-García, B. García-Manrique, H. Alonso, S. Guix. Grupo de Virus Entéricos, Departamento de Genética, Microbiología y Estadística, Facultad de Biología, Universidad de Barcelona, Barcelona, Spain, CerTest Biotec, San Mateo de Gállego, Spain</td>
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MICROBIOLOGY & INFECTIOUS DISEASE

A-300 Evaluation of Different Storage Conditions of Nasopharyngeal Swabs for the Detection of Influenza A, Influenza B and RSV
M. Martínez-Santolaria1, C. Sota-Diez2, B. García-Manrique2, E. Machetti-Mareca2. 1Facultad de Ciencias, Universidad de Zaragoza, Zaragoza, Spain, 2CerTest Biotec, San Mateo de Gállego, Spain

A-301 Analytical and Clinical Performance of the Molecular Method for Monkeypox Virus Detection
J. D. Silva, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil

A-302 Agreement Assessment Between Molecular and Rapid Tests in Respiratory Viruses Detection

A-303 Validation of a Quantitative and Qualitative Molecular Test for the Detection of Epstein-Barr Virus by Real-time qPCR
C. P. Mendonça, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil

A-304 A RT-PCR Assay for Detection and Quantification of Hepatitis D Virus (HDV)
J. D. Silva, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil

A-305 Evaluation of the Analytical Performance of Rapid Tests to Detect Arboviruses Antibodies Intended for Point-of-care Screening

A-306 Standardization of Automated Methodology for Qualitative Molecular Detection of HIV-1 in Dried Blood Spots (DBS)
C. P. Mendonça, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil

J. D. Silva1, A. B. de Lima1, L. B. Alvim1, F. S. Malta1, C. P. Mendonça1, P. L. Fonseca1, R. P. de Souza1, R. S. de Aguiar1, D. A. Zauli2. 1Instituto Hermes Pardini, Vespasiano, Brazil, 2Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

A-308 The Molecular Diagnosis of Varicella Zoster Virus (VZV): A Validation of a Real-Time PCR (qPCR) Assay for the Qualitative Detection
C. P. Mendonça, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil

A-309 Challenging Diagnostic of Neurosyphilis: Use of CXCL13 Concentration in Cerebrospinal Fluid
R. d. Carvalho1, I. d. Rangel1, N. B. Bacaroy2, M. M. Soane3, V. Herbst3, F. d. Ferry1. 1Hospital Universitário Gaffré e Guinle, Rio de Janeiro, Brazil, 2EUROIMMUN Brazil, São Caetano do Sul, Brazil, 3EUROIMMUN AG, Lubeck, Germany
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PEDIATRIC & MATERNAL FETAL MEDICINE

A-310 Infections Associated With Infertility and Success of In Vitro Fertilization
N. B. Bacarov1, A. V. Nunes2, R. Dias3, C. Resende3, L. Garcia1, C. Barbosa4, M. Soane1, D. Christofolini2. 1EUROIMMUN Brazil, São Caetano do Sul, Brazil, 2Centro Universitário Faculdade de Medicina do ABC (FMABC), Santo André, Brazil, 3Centro Universitário Faculdade de Medicina do ABC (FMABC), São Paulo, Brazil

A-312 Segregation in Two Families of the PCDH19 Gene Deletion Associated With Infantile Epileptic Encephalopathy of X-Linked Inheritance and Expression in Female Carriers
M. Bellido Diaz1, T. De Haro Romero1, T. Gonzalez1, T. De Haro2. 1Hospital Universitario Virgen De Las Nieves, Granada, Spain, 2Hospital Universitario Clínico San Cecilio, Granada, Spain

A-314 Comparison of Calibrated Calculated Osmolality to Measured Osmolality by Different Equations: A Study Using Pediatric Specimens
U. C. Garg1, A. Wiebold1, M. Knoll1, R. McDonough1, D. F. Stickle1, A. M. Ferguson1. 1Children’s Mercy Hospital, Kansas City, MO, 2Jefferson University Hospital, Philadelphia, PA

A-315 Pregnant Women Showed Lower Incidence Rates of False-positive Treponemal Antibody Screening Results When Compared with Nonpregnant Women and Men at an Appalachian Academic Medical Center
J. Yang, D. Tacker. West Virginia University, Morgantown, WV

A-316 Suboptimal Compliance to Postpartum Glucose Monitoring in a High-risk Pregnancy Population — A Single Center Study
L. Olayinka, K. Fox, K. M. Aagaard, S. Devaraj. Baylor College of Medicine/Texas Childrens Hospital, Houston, TX

A-317 Effects of Elevated Serum Homocysteine Levels During Pregnancy on Neural Development and its Molecular Mechanism
X. Liu, J. Mai. West China Second University Hospital, Chengdu, China

A-318 Pseudo-hypertriglyceridemia in a 2-year-old Male with Global Developmental Delay, Myopathy and Adrenal Hypoplasia
X. R. Fu1, C. P. Williamson, K. P. Bosfield. University of Tennessee Health Science Center, Memphis, TN

A-319 Clinical Utility of Procalcitonin and C-reactive Protein in the Management of Neonatal Sepsis in a Resources Limited Setting
A. K. Jimoh1, O. Bolaji1, M. Ghazali1, A. Adelekan1, A. Adeleke1, T. Oyekale2, L. Olubunmi2, W. Ajetunmobi3, 1Department of Chemical Pathology, Afe Babalola University, Ado-Ekiti, Ado-Ekiti, Nigeria, 2Department of Pediatrics, Afe Babalola University, Ado-Ekiti, Ado-Ekiti, Nigeria, 3Department of Chemical Pathology, Federal Teaching Hospital, Ido-Ekiti, Ido-Ekiti, Nigeria

A-320 Validation of a Multi-Analyte Immunoassay for Distinguishing Bacterial Versus Viral Infections in a Pediatric Cohort
A. Chokkalla1, E. Tam2, R. Liang3, A. Cruz1, S. Devaraj1. 1Baylor College of Medicine/Texas Children’s Hospital, Houston, TX, 2Texas Children’s Hospital, Houston, TX
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A-323 Pre-analytic Interference in PT and PTT Measurement Using Mechanical vs. Optical Clot Detection
D. A. Maciak1, D. J. Dietzen2. 1St. Louis Children’s Hospital, St. Louis, MO, 2Washington University School of Medicine, St. Louis, MO

A-324 Incorporating the Screening for Congenital Cytomegalovirus Into a Newborn Genetic Testing Performed on Saliva Swab: An Intersection Between Human Genetics and Infectious Diseases

A-325 Oral Signs of Metabolic Bone Disease in Pakistani Children with Transfusion-Dependent Thalassemia (TDT)
A. Jameel Farooqui, S. Raza Kazmi, L. Jafri, B. Moiz, A. Habib Khan. Aga Khan University Hospital, Karachi, Pakistan

A-326 Argininosuccinic Acid — Is it Routinely Detectable in the Urine of Healthy Individuals?
K. M. Karger1, G. Ogilvie2, M. Y. Tsai1. 1University of Minnesota, Minneapolis, MN, 2MHealth Fairview, Minneapolis, MN

A-327 Pre-analytical and Analytical Modifications to Improve the Quality of Pediatric Lead Tests
J. Nassif, J. Liebreich, K. Granger. Association of Public Health Laboratories, Silver Spring, MD

A-328 Urine Toxicology Screening: Tetrahydrocannabinol Positivity Patterns at an U.S. Urban Tertiary Care Children’s Hospital
D. M. Unshuay Vila1, I. Poventud-Fuentes1, K. Osterhoudt2, K. Patel1. 1University of Pennsylvania, Philadelphia, PA, 2Children’s Hospital of Philadelphia, Philadelphia, PA

A-329 Preliminary Clinical Method Comparison of a Near-Patient Platform for Low Blood Volume Testing of aFXa in Pediatric Patients on Heparin Therapy
A. Aljudi1, W. Lam1, R. Sista2, V. Pamula2, B. Rogers2. 1Children's Healthcare of Atlanta, Atlanta, GA, 2Baebies, Inc, Durham, NC

R. J. Wilson1, L. M. Johnson2, M. Bhandari2, J. A. Dickerson2. 1University of Washington, Seattle, WA, 2Seattle Children’s Hospital, Seattle, WA

A-331 Prenatal Maternal First Trimester Screening and Establishing the Multiple of Medians of Double Marker Tests in Tertiary Care Hospital in India
B. Das1, P. M. Pal1, N. S. Mehtalia1, V. Joshi1, M. P. Gade1, N. Pawar2. 1Kokilaben Dhirubhai Ambani Hospital and Medical Research Institute, Mumbai, India, 2Kokilaben Dhirubhai Ambani Hospital & Medical Research Institute, Mumbai, India
### A-332  Sweat Rate Does Not Influence Sweat Chloride Concentration
C. Omosule, S. Roper. 1Washington University School of Medicine, St. Louis, MO, 2Washington University School of Medicine, St. Louis, MO

### A-333  Unusually Low Glycated Albumin Results Suggest Unexpected Interference in Study Samples from Pregnant Women
J. Powers Carson, A. Shin, K. Kabytaev. 1Washington University in Saint Louis, Saint Louis, MO, 2University of Missouri, Columbia, MO

### A-334  Investigation on Use of NHANES Data to Develop Continuous Pediatric Reference Intervals — Pilot Study with Hemoglobin

### A-335  Pediatric Cortisol Reference Intervals (RI): Impact of Age-Specific RI on the Rate of Abnormal “Low” Cortisol Results
B. D. Andress, D. R. Block, N. A. Baumann. Mayo Clinic, Rochester, MN

### A-336  Comparison Between the Immune Profile of Pregnant and Postpartum Women With and Without COVID-19 by Flow Cytometry
M. L. Machado, A. T. de Souza, S. E. Silva, A. L. Fonseca, J. D. Camargo, A. J. Vale, E. P. Azevedo, G. H. Oliveira, A. D. Luchessi, G. B. Junior, V. N. Silbiger, R. N. Cobucci. 1Post-Graduate Program in Sciences Applied to Women's Health, Maternidade Escola Januário Cicco (MEJC/EBSERH), Federal University of Rio Grande do Norte, Natal, Brazil, 2Department of Pharmacy, Health Sciences Center, Federal University of Rio Grande do Norte, Natal, Brazil, 3Biosciences Center, Federal University of Rio Grande do Norte, Natal, Brazil, 4Department of Medicine, Health Sciences Center, Federal University of Rio Grande do Norte, Natal, Brazil, 5Maternidade Escola Januário Cicco (MEJC/EBSERH), Federal University of Rio Grande do Norte, Natal, Brazil, 6Biomolecular Science, Federal University of Rio Grande do Norte, Natal, Brazil, 7Biotechnology Graduate Program, Potiguar University, Natal, Brazil, 8Flow Cytometry Laboratory, Hemocentro do Rio Grande do Norte Dalton Cunha (Hemonorte), Natal, Brazil, 9Department of Clinical and Toxological Analyses, Federal University of Rio Grande do Norte, Natal, Brazil, 10Laboratory of Immunology, Department of Clinical and Toxicological Analysis, Center for Health Sciences, Universidade Federal do Rio Grande do Norte, Natal, Brazil

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B. B. Perez, M. V. dos Santos Jr, H. R. Oliveira Jr, D. R. Ramadan, S. Tufik, M. C. Feres. 1Associação Fundo de Incentivo a Pesquisa - Aflip, Sao Paulo, Brazil, 2Associação Fundo de Incentivo - Aflip, Sao Paulo, Brazil

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R. F. Paula, P. C. Felchner, T. M. Telles, C. O. Júnior, K. D. Valdati, T. M. Panizza, T. P. Moraes, G. B. Carlos. 1Siemens Healthineers, São Paulo, Brazil, 2Pontifical Catholic University -PR, Curitiba, Brazil, 3Federal University of Paraná -UFPR, Curitiba, Brazil, 4Complexo Hospital das Clinicas Complex / Federal University of Paraná, Curitiba, Brazil, 5Municipal Laboratory - SMS, Curitiba, Brazil

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T. S. Xavier Dias, V. G. da Silva, M. C. Santos, V. P. Batistutti, P. S. Osorio, D. Moratori, J. E. Levi. DASA, Barueri, Brazil
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H. A. Nelson1, I. DeBiase1, K. Balogun2, C. M. McDonald3, F. Asfour4, T. Yuzyuk5. 1University of Utah / ARUP Laboratories, Salt Lake City, UT, 2Montefiore Medical Center, Bronx, NY, 3Primary Children’s Hospital, Salt Lake City, UT, 4University of Utah, Salt Lake City, UT

A-341  Development and Validation of an ICP-MS Method to Quantify Lead in Dried Blood Spots
R. A. Muldrow, C. Torres, K. Kaiwusaier, S. Matir, D. N. Greene. LetsGetChecked, Monrovia, CA

A-342  Spotting Avoidable Care Gaps in Women’s Health — A United States Real-World Data Evaluation of Antiphospholipid Syndrome Diagnosis
D. Novak1, A. Tice1, J. Murphy2, V. Joy2. 1Geisinger Medical Laboratory, Danville, PA, 2Thermo Fisher Scientific, Portage, MI

A-343  Provider Performed Microscopy Program Makeover: One Institution’s Experience
A. M. Glomb, S. Guzman, N. R. Wadhwani, B. Suh-Lailam. Ann & Robert H. Lurie Children’s Hospital of Chicago, Chicago, IL

A-344  Don’t Get Rejected: Reduce Specimen Rejection in Phlebotomy
A. M. Glomb, B. Suh-Lailam. Ann & Robert H. Lurie Children’s Hospital of Chicago, Chicago, IL

A-345  Cat’s Cry Syndrome or Lejeune Syndrome
P. Lesmes - García Corrales1, A. García Serrano1, J. Guerrero Montávez2. 1University Hospital Virgen del Rocío, Seville, Spain, 2University Hospital Virgen del Rocio, Seville, Spain

A-346  Late Infantile Neuronal Ceroidlipofuscinosis or Disease of Jansky Bielschowsky, Rare Cause of Childhood Progressive Epilepsy
P. Lesmes - García Corrales1, H. Macher1, J. Guerrero Montávez2. 1University Hospital Virgen del Rocío, Seville, Spain, 2University Hospital Virgen del Rocio, Seville, Spain

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<td>Gyeongsang National University College of Medicine, Changwon, Korea, Republic of; Department of Nursing Science, Kyungsung University, Busan, Korea, Republic of</td>
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<td>X. Li</td>
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<td>Sentara Virginia Beach General Hospital, Virginia Beach, VA, Sentara Healthcare, Norfolk, VA</td>
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<td>Graduate Course of Health and Social Services, Saitama Prefectural University, Koshigaya, Japan</td>
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<td>Graduate Course of Health and Social Services, Saitama Prefectural University, Koshigaya, Japan</td>
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<td>Thomas Jefferson University Hospital, Philadelphia, PA, Thomas Jefferson University, Philadelphia, PA</td>
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T. Nakahara\(^1\), M. Matsuda\(^2\), S. Uesugi\(^3\), K. Murakami\(^1\), K. Kobayashi\(^2\), H. Kataoka\(^1\), E. Harata\(^4\), K. Tohyama\(^1\). \(^1\)Kawasaki University of Medical Welfare, Okayama, Japan, \(^2\)NOF Corporation, Tokyo, Japan, \(^3\)Kawasaki Medical School Hospital, Okayama, Japan

A-365 Carbohydrate-binding Module Proteins to Functionalize Paper for Lateral Flow Applications
L. Walker\(^1\), G. Yang\(^1\), O. Drabwell\(^2\), C. Buerki\(^1\), R. Porter\(^2\), R. Greene\(^1\). \(^1\)Gemina Laboratories, Burnaby, BC, Canada, \(^2\)RAPiD, Sharnbrook, United Kingdom

A-367 Development of a Novel Handheld Platform for Real-Time Fluorescence-Based Nucleic Acid Detection
Y. Hong, Q. Song, Y. Gao, Y. Liu, W. Wen. The Hong Kong University of Science and Technology, Hong Kong, Hong Kong

A-368 Aspergillus Galactomannan Lateral Flow Assay with Digital Reader for the Diagnosis of Invasive Aspergillosis
J. Peng, J. Yan, J. Du, Y. Wang, H. Wang, Y. Su, Z. Zhou. Tianjin Enterprise Key Laboratory for Precision Diagnosis Technology of invasive Fungal Diseases, Tianjin, China

A-369 Evaluation of a Point-of-Care Whole Blood Creatinine Assay and eGFR Concordance Using the CKD-EPI 2021 Equation
Y. Elonda\(^1\), K. Zwaan\(^1\), C. Xu\(^2\). \(^1\)Atalmedial, Amsterdam, Netherlands, \(^2\)Werfen, Bedford, MA

A-370 High Rates of Potassium, Chloride and Hemoglobin Discordances in Split Samples Drawn Within 1 Minute and Analyzed on Point of Care GEM 5000 and Central Laboratory Roche Cobas 8000 and Sysmex Analyzers
G. Cembrowski\(^1\), Q. Xu\(^2\), H. Sadrozad\(^1\). \(^1\)University of Alberta, Edmonton, AB, Canada, \(^2\)Family Practice, Vancouver, AB, Canada, \(^3\)Alberta Precision Laboratories, Calgary, AB, Canada

A-371 Comparative Evaluation of POCT Based Lysophosphatidylcholine Measurement
J. Rim, H. Choi, H. Jang, J. Jang, H. Kang, J. Lim. Yonsei University College of Medicine, Seoul, Korea, Republic of

A-372 Increased Sensitivity in Detection of SARS-CoV-2 Antigen Using RADI COVID-19 Ag Rapid Test
S. Kee\(^1\), J. Choi\(^1\), J. Jeon\(^1\), M. Heo\(^1\), J. Park\(^4\), H. Choi\(^1\). \(^1\)Chonnam National University Hospital, Gwangju, Korea, Republic of, \(^2\)Chonnam National University Research Institute of Medical Science, BMSGR, Chonnam National University Medical School, Hwasun, Korea, Republic of, \(^3\)Seegene Medical Foundation Gwangju & Honam Laboratory Center, Gwangju, Korea, Republic of, \(^4\)Chonnam National University Hwasun Hospital, Hwasun, Korea, Republic of
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T. Schumann¹, B. Karon¹, C. O’Connor², L. Jennifer³, J. Blanco¹, L. Hartman¹, A. Kramer⁴, J. Uy⁴, N. Myhre¹, D. Gayle¹, K. Hartung¹, H. David⁵, P. Santrach¹, R. McBane¹. ¹Mayo Clinic, Rochester, MN, ²Mayo Clinic, Eau Claire, WI, ³Mayo Clinic, Scottsdale, AZ, ⁴Mayo Clinic, Jacksonville, FL

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A-375 Evaluation of the CLIA-Waived Afinion HbA1c Point-of-Care Test
E. Villasin, I. Metushi. Department of Pathology and Laboratory Medicine. University of California Los Angeles, Los Angeles, CA

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R. Peytavi, J. Hambalek, E. Alvarado, Y. Parocua, A. Abeje, F. Foltz, B. Pollack, P. Halle, M. Petruullo, K. Allen, H. Kido, R. Martin. AMDI, Santa Ana, CA

A-377 The Selection and Implementation of POC Illicit Drug Toxicology Testing in Hamad Medical Corporation - Doha, Qatar
E. Al Kuwari¹, D. Al-Wali¹, J. S. Habib², Z. Kabir¹, A. Abdelfadel¹, E. Torato¹, A. Delli¹. ¹Hamad Medical Corporation, Doha, Qatar, ²Hamad Medical Corporation, Doha, Qatar

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A-379 Frequency of Reassignment of Blood Gas Sample Source at a Large Tertiary Care Hospital
R. Kim, M. Altura, K. Gantt, I. A. Hashim. UT Southwestern Medical Center, Dallas, TX

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A-381 Laboratory-based Reflexive Algorithm for Identification of Falciparum and Non- Falciparum-Species and its Clinical Utility in the Diagnosis of Malaria in Southern Ghana
K. A. Sarpong¹, L. Bansah¹, E. Armah¹, D. Perkins². ¹University of Ghana, Legon, Ghana, ²University of New Mexico, Albuquerque, NM
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T. Nguyen1, M. Ortega1, E. Vu1, Y. Kulahci2, F. Zor1, V. S. Gorantla1, A. C. Daza Aguilar1, E. Tantisattamo1, U. Reddy1, C. Rhee1, K. Kalantar-Zadeh1, J. Gerber3, R. Ganguli1. 1Intelligent Optical Systems, Inc., Torrance, CA, 2Wake Forest for Regenerative Medicine, Winston-Salem, NC, 3University of California, Irvine, Irvine, CA, 4Harbor-UCLA Medical Center, Torrance, CA

A-384 Laboratory Evaluation of the SeptiCyte Rapid Host Response Assay In Differentiating Infection-Positive Versus Infection-Negative Systemic Inflammation Patients Suspected of Sepsis
L. Sankari1, H. Dolin2, R. Hejal1, H. Mohammad2, A. Windau2, C. Greig2, D. Savadekar1, C. Weisenberger1, K. Remy1, F. Jacono1, X. S. Zhang1. 1University Hospitals Cleveland Medical Center, Case Western Reserve University, Cleveland, OH, 2University Hospitals Cleveland Medical Center, Cleveland, OH

A-385 A Point-of-Care Test to Assess Vaccine Response and Recent Infection by Quantitative Measurement of Neutralizing Antibody, Anti-Nucleocapsid, and Anti-spike Levels
A. Perebikovsky1, J. Y. Lim1, H. Munoz2, A. Fiore2, A. Srinivasan1, D. Okrongly1, Y. Liu1, H. Janwari1, G. Murray2, B. Martinez1, B. Le2, K. Rashidi3, H. Kido1, A. C. Roberts1, H. Lu1, B. Pollack1, E. Shamloo1, B. D. Miller1, D. Wright2, R. E. Davis1. 1Autonomous Medical Devices Inc, Santa Ana, CA, 2Autonomous Medical Devices Inc, Menlo Park, CA

A-386 Performance Assessment of Point of Care Testing for Blood Glucose: A 5 year Review of EQA Data
M. A. Thomas1, G. Davies2, N. Blount1. 1Cardiff and Vale University Health Board, Cardiff, United Kingdom, 2Weqas, Cardiff, United Kingdom

A-387 Evaluation of the Analytical and Clinical Performance of Epoc Point of Care Equipment Compared to Standard Blood Gas in Patients With Nephropathy
R. F. Paula1, P. F. Távora1, M. M. Gomes1, J. d. Neto3, T. C. Leonel1, L. I. Santos1, A. D. Midrigal1. 1Siemens Healthineers, São Paulo, Brazil, 2i9med laboratory – Diagnostic Medicine, Belo Horizonte, MG, Brazil, 3Nephrocynics, Belo Horizonte, MG, Brazil

A-388 Evaluation of Performance of the nBili Assay on the RAPIDPoint® 500e Analyzer Compared to the Total Bilirubin Assay for the Dimension Exl200 and Atellica Ch Analyzers in Neonates Blood Samples
R. F. Paula1, T. C. Lamo1, M. S. Lage2, A. D. Midrigal1. 1Siemens Healthineers, São Paulo, Brazil, 2Marcio Cunha Hospital, São Francisco, Ipatinga, MG, Brazil

A-389 Implementation of a Solicited Laboratory Workflow Improves Quality Indicators for Point of Care Blood Gas Testing by Respiratory Therapists
E. Ballard, H. Stieglitz. The Ohio State University Wexner Medical Center, Columbus, OH

A-390 Implementation of the New GEM Hemochron 100 Point-of-Care Coagulation System for Heparin Monitoring During Cardiopulmonary Bypass Procedures
A. Sheffield1, G. Oldendorp3, M. Jordan1, D. Mast1, M. Losos1, I. Siddiqui1, H. Stieglitz1. 1The Ohio State University Wexner Medical Center, Columbus, OH, 3The Ohio State University Wexner Medical Center, Columbus, OH
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D. Kim, J. Lee, J. Park, N. Kim, S. Lee, Y. Cho. Jeonbuk National University Medical School and Hospital, Jeonju, Korea, Republic of

B-010  Comparison of Manual Urine Dipstick and Microscopy With Automated UC-3500 and UF-4000 Sysmex UN Series Urinalysis; A Comparative Experimental Research Approach at an Urban Referral Hospital in Ghana

B-011  Analytical Validation of a New Vasactive Intestinal Peptide Radioimmunoassay
S. Ashrafzadeh-Kian, J. Bornhorst, A. Algeciras-Schimnich. Mayo Clinic, Rochester, MN

B-012  Validation of a Urine Ammonium Assay on Roche cobas c502 Chemistry Analyzer
I. Song1, K. H. Tong2, M. I. Fournier2. 1David Geffen School of Medicine, University of California Los Angeles, Los Angeles, CA, 2Ronald Reagan Hospital, UCLA Healthsystem, Los Angeles, CA

B-013  Association Between Laboratory Parameters Analysis and Clinical Severity in Patients With Coronavirus Disease (Covid 19) at Hospital Universitario Fundación Santa Fe
O. Martinez Nieto1, H. A. Gonzalez2, C. E. Saavedra Andrade2, D. M. Bertel Rodriguez2, P. A. Rodriguez Urrego2, J. P. Vargas Gallo2. 1Fundacion Santa Fe de Bogota, Bogota, Colombia, 2Fundacion Santa Fe de Bogota, Bogota, Colombia

B-014  Impact of Centrifugation Time Reduction in Laboratory Automation System
P. Choosongsang. PSU, Hat Yai, Thailand

B-015  Magnesium Fractionation Using Ultrafiltration System
H. Badr1, O. Anthony O2. 1UTMB, Galveston, TX, 2Department of Pathology, University of Texas Medical Branch, Galveston, TX

B-016  Automated Next Generation Sequencing Fluidic-Based Device for Sample to Library Preparation: A Flexible Solution for Rapid Decentralized Sequencing for Infectious Disease Diagnostics

B-017  The Effect of Temperature on the Performance of Streptavidin-coated Paramagnetic Particles in Immunoassay Applications
B. Wu1, L. Li1, D. Wang1, Y. Xiong1, W. Lu1. 1Shenzhen Mindray Bio-Medical Electronics Co., Ltd., Shenzhen, China, ‘Mindray IVD Innovation Center Minnesota, Oakdale, MN

B-018  Compact All in One, Fully Automated Molecular Diagnostic System “ExiStation™” FA 96” in 100 Minutes
K. Lee1, D. Im2, H. Chae3, Y. Cho4, J. Kim5, E. Kwon6, H. Kim7, D. Jang7, S. Park2, S. Koo2, S. Kim2, S. Eom2, H. Lee4, S. Park2, H. Park2, H. Park2. 1Bioneer corp., Daejeon, Korea, Republic of, 2Bioneer corp, Daejeon, Korea, Republic of
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D. Mu, Peking Union Medical Hospital College, Beijing, China

B-020  Fully Automated and Scalable cfDNA Extraction Solution from Up to 10 mL Samples

B-021  Analytical Performance of Thyroid Function Test on DxI800 System
J. Jang, H. Kang, H. Jang, J. Rim, J. Lim. Yonsei University College of Medicine, Seoul, Korea, Republic of

B-022  Technical Evaluation of Urine Chemistry Testing on the Beckman DxC700AU Chemistry Analyzer
C. Gea, F. Wong, M. Lim, B. Quek, J. Wong, C. Yeo. Department of Clinical Pathology, Singapore General Hospital, Singapore, Singapore

B-023  Optimizing Measurement of Homocysteine in an Emergency Care Pathway
G. Grzych, D. Marchand, D. Clarence, G. Emeline, R. Schult, E. Van Nieuwenhuysen, F. Zerimech. CHU Lille, Lille, France

B-024  An Evaluation of the Analytical Performance of the New Beckman Coulter DxC 500 AU Clinical Chemistry System
D. O’Meara1, S. O’Donnell1, K. Lynch1, F. Laura2, M. O. Meade2. 1Beckman Coulter Ireland, O’Callaghans Mills, Ireland, 2Beckman Coulter Ireland, O’Callaghan’s Mills, Ireland

B-025  Evaluation of Bias Between Alzheimer’s Disease Blood-Based Biomarkers Assays and Their Concordance With Amyloid-PET on the Fujirebio Lumipulse and Quanterix Simoa Platforms
D. Figdore, J. Bornhorst, C. Jack, R. Petersen, A. Algeciras-Schimnich. Mayo Clinic, Rochester, MN

B-026  Evaluation of Colorimetric and Electrolyte Test Assays on the Fuji Dri-Chem NX7001 Clinical Chemistry Analyzer
P. Theologou1, R. Wichert1, F. Zacchini1, R. Moennikes1, H. Wahl2. 1Medizinisches Labor Wahl, Luedenscheid, Germany, 2Institute of Laboratory Medicine and Pathobiocchemistry, Molecular Diagnostics Philipps University, Marburg, Germany

B-027  Adaptation of Neonatal Dried Blood Spot Assays for Use on Automated Microplate Instruments
G. Van Slooten. Awareness Technology, Palm City, FL

B-028  Clinical Performance of a Fully-automated Fecal Calprotectin Chemiluminescence Immunoassay (CLIA)
J. A. Petzke, B. McDermott, C. Thienes, K. Veenstra, C. Wisherd. ALPCO, Salem, NH

B-029  Validation of an Automated Analyzer for Urine Microscopic Examination
L. Majoy1, H. Riedy1, M. Chappel1, M. O. Nakashima2. 1Cleveland Clinic, Cleveland, OH, 2Cleveland Clinic, Cleveland Heights, OH
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AUTOMATION & ANALYTICAL TECHNIQUES

B-030  Automated Chemiluminescent Immunoassay for Serum Apoptosis-Associated Speck-Like Protein Containing a Caspase-Recruitment Domain as a Novel Biomarker for Stroke and a Pilot Study
L. Wang¹, X. Luan¹, Y. Shi¹, B. Xu², J. Guo², R. Fan², Y. Li³, G. Li¹, Y. Ding¹, W. Jiang¹, J. Sun¹, X. Duan², G. Zhang¹. ¹Beijing Tiantan Hospital, Capital Medical University, Beijing, China, ²Beijing North Institute of Biotechnology Co., Beijing, China

B-031  Digital Elisatotal 25hydroxyvitamin D
S. Chae¹, J. Chung¹, H. Huh¹, S. Moon¹, Y. Seo¹. ¹Dongguk University Ilsan Hospital, Goyang, Korea, Republic of, ²Small Machines Co., Ltd, Seoul, Korea, Republic of

B-032  Total Lab Automation Validation/Verification Protocol: First Step of Process Excellence Journey in Smart Core Lab in Kokilaben Dhirubhai Ambani Hospital & Medical Research Institute, Mumbai, India
B. Das, L. Bhat, R. Patil, V. Tawde, S. Kamath, P. Pal. Kokilaben Dhirubhai Ambani Hospital & Medical Research Institute, Mumbai, India

B-033  Impact of Red Blood Cell Sediment on HbA1c Measurement
T. Nanthakhan. King Chulalongkorn Memorial hospital, Bangkok, Thailand

B-034  Evaluation of the Analytical Performance of Sebia CAPI 3 HbA1c Assay
E. T. Laryea, M. Bates, S. Fan. Vanderbilt University Medical Center, Nashville, TN

B-035  Maintaining the Analytical Performance of Calcium and Phosphorus In 24-Hour Urine Without Addition of 6n hcl in the Pre-Analytical Process
D. G. Canali¹, G. Zampieri², C. M. Motta², D. C. Oliveira², C. Rosin², S. V. Argolo³, W. Satsuma³. ¹Diagnóstico da America, São Jose, Brazil, ²Diagnóstico da America, São Paulo, Brazil, ³Diagnóstico da America, Rio de Janeiro, Brazil

B-036  Multi-biomarker Approach to Latent Tuberculosis Diagnosis Using Microring Resonator Sensors
K. Meserve¹, C. Chapman¹, P. Escalante², R. C. Bailey¹. ¹University of Michigan, Ann Arbor, MI, ²Mayo Clinic, Rochester, MN

B-037  Comparison of Performance between Siemens Clinitek + Status Analyzer to ARKRAY AUTION MAX AX-4030 for Suspected Urinary Tract Infections
M. Ali¹, L. Yang², K. Forbushte³, D. Rohr³. ¹TheMetroHealth System/ Case Western Reserve University School of Medicine, Cleveland, OH, ²TheMetrohealth System/ Case Western Reserve University School of Medicine, Cleveland, OH, ³TheMetroHealth System, Cleveland, OH

B-038  Applying Robotic Process Automation Technology to Automate the Release of Pathology Results and Reduce Costs, Time and Labor in a Clinical Laboratory

B-039  Method Performance Evaluation of the Siemens Atellica Cystatin C Assay on the CH930 Instrument
R. Maynard, N. Korpi-Steiner, S. Cotten. UNC, Chapel Hill, NC
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AUTOMATION & ANALYTICAL TECHNIQUES

B-040 Performance Evaluation of Five Reproductive Endocrinology Assays on the Atellica CI 1900 Analyzer

B-041 Evaluation of a Nuclear Magnetic Resonance Spectroscopy-Based Method for Estimating Glomerular Filtration Rate Using Creatinine, Cystatin C, Myo-Inositol, and Valine
L. Branson, D. Southard, B. Hadder, W. Katrangi, R. Alturkmani. Labtech Diagnostics, San Antonio, TX

B-042 Evaluation of the Analytical Performance of Three Prostate-specific Antigen Immunoassays on the Atellica CI 1900 Analyzer

B-043 Thermal Evaluation and Field Study of Labcorp TrueTherm™ Packaging System for Protecting Sub-Milliliter Blood Samples
U. Schaff1, G. Iacovetti1, B. Collier2, S. Setzer1, M. Peevler1, J. Ragar1, W. Brandon2, M. Chappell2, R. P. Grant2, G. J. Sommer1. 1Labcorp, Pleasanton, CA, 2Labcorp, Burlington, NC

B-044 Analytical Validation of an Serum Glycerol Measured By Nuclear Magnetic Resonance Spectroscopy NMR
Q. Wang, R. Scott, J. Meeusen, L. Donato. Mayo Clinic, Rochester, MN

B-045 A Descriptive Study of the Clinical Impacts on COVID-19 Survivors Using Telemonitoring (The TeleCOVID Study)
J. S. Chow. South Western Sydney Local Health District, Liverpool, Australia

B-046 Curious Thing, an Artificial Intelligence (AI) Based Conversational Agents in COVID-19 Patient Management
J. S. Chow. South Western Sydney Local Health District, Liverpool, Australia

B-047 Performance Evaluation of Enzymatic HbA1c Assay on Newly Launched Mindray BS-600M Chemistry Analyzer
M. Li1, W. Xie1, Y. Zeng1, A. Xu1, L. Ji1, J. Dai2. 1Peking University Shenzhen Hospital, Shenzhen, China, 2Mindray IVD Innovation Center Minnesota, Oakdale, MN

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SCIENTIFIC POSTER SESSIONS
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CLINICAL & DIAGNOSTIC IMMUNOLOGY

B-048 Performance Evaluation of the New Anti-Streptolysin-O Assay on Mindray BS-2800M System
W. Chen1, S. Liu1, M. Jiang1, J. Wang1, J. Dai2. 1Shenzhen Mindray Bio-Medical Electronics Co., Ltd, Shenzhen, China, 2Mindray IVD Innovation Center Minnesota, Oakdale, MN

B-049 Diagnostic Performance of Bronchoalveolar Lavage Fluid CD4/CD8 Ratio: Granulomatous Lung Diseases
I. Rodriguez Martin, S. Perez Pujalte, S. Delgado Macias, J. Guerrero Montávez. Virgen Del Rocío, Sevilla, Spain

B-050 A Versatile Immunoassay Platform for Fast Multiplex Detection of Protein Biomarkers Based on a Novel Magnetic Particle System
Y. Cho1, D. Moon1, K. Han1, H. Choi1, J. Kim1, Y. Ro2, B. Oh3, S. Song4, Y. Jung5. 1R&D Center, EzDiaTech Inc., Anyang-si, Gyeonggi-do, Korea, Republic of, 2Department of Emergency Medicine, Seoul National University Hospital, Seoul, Korea, Republic of, 3Department of Rehabilitation Medicine, Seoul National University Hospital, Seoul, Korea, Republic of, 4Department of Laboratory Medicine, Seoul National University Hospital, Seoul, Korea, Republic of

B-051 Deubiquitinase OTUD5 Promotes Hepatitis B Virus Replication by Removing K48-linked Ubiquitination of HBV core/precore and Up-regulating HNF4α Expressions through Inhibiting the ERK1/2 /Mitogen-activated Protein Kinase Pathway
B. Lou, G. Ma, Y. Chen. The First Affiliated Hospital, Zhejiang University, Hangzhou, China

B-052 Establishment of New Antibodies and ELISA System to Detect the Potato Alkaloids α-solanine and α-chaconine
K. Okada1, K. Matsuo2. 1Kyoto Tachibana University, Kyoto, Japan, 2Kyoto Tachibana University Graduate School of Health Sciences, Kyoto, Japan

B-054 Potential of Autotaxin in the Early Diagnosis of Sinusoidal Obstruction Syndrome After Allogeneic Hematopoietic Cell Transplantation
K. Takemura1, M. Nakamae2, H. Okamura2, K. Sakatoku2, K. Idō2, Y. Makuuchi2, M. Kuno2, T. Takakuwa1, A. Hirose1, M. Nishimoto1, Y. Nakashima2, H. Kohi2, K. Igarashi2, H. Kubota1, M. Hino2, H. Nakamae2. 1Osaka Metropolitan University Hospital, Osaka, Japan, 2Osaka Metropolitan University Graduate School of Medicine, Osaka, Japan, 3TOSOH Corporation, Kanagawa, Japan

B-055 Comparison of Sensitivity Between Tissue Anti-Transglutaminase and Anti-Endomysium IgA and IgG in Serological Screening for Celiac Disease in a Large Clinical Laboratory in Brazil
J. F. de Souza1, D. do Sacramento Santos1, F. A. Pinto1, A. F. Justino Feo1, V. Vidotto Frade de Oliveira1, G. Zampieri1, M. H. Costa Gurgel Castelo2, A. Correa Wengerekivicz Lopes1. 1DASA, Sao Paulo, Brazil, 2DASA, Fortaleza, Brazil, 3DASA, Florianopolis, Brazil

B-056 Performance Characteristics of a New, Fully Automated Planar Microarray Immunoassay for the Detection of IgG Auto-antibodies Against Centromere Protein B (CENP-B)
C. Daubrosse1, P. Ghilliani-Dalbin1, V. Mercier1, R. Pasion Galvan2, D. Bijlsma2, E. Lukasik2, V. Botti2, G. Gomez2, E. Moreau2, M. Hausmann2, C. C. Ginocchio2, M. Miyara1. 1Sorbonne Université, Inserm, Centre d’Immunologie et des Maladies Infectieuses (CIMI-Paris), Assistance Publique Hôpitaux de Paris (AP-HP), Hôpital Pitié-Salpêtrière, Paris, France, 2Quotient Suisse SA, Eysins, Switzerland
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CLINICAL & DIAGNOSTIC IMMUNOLOGY

S. Rezaei¹, X. Yang¹, I. Xi², D. Zhao³, J. Han⁴, K. Zhu⁵, Z. Li⁵, C. Lee¹. ¹AdvantBio, Irvine, CA, ²Autobio Diagnostics Co, Zhengzhou, China

B-059 Allergen-specific IgE Measurement for Peanut Ara h 2*
T. Chuang¹, N. Ready², M. Rowlands², J. Chamberlain², D. Hammer¹, M. Sommer¹, D. Hovanec-burns¹. ¹Siemens Healthcare Diagnostics Inc., Tarrytown, NY, ²Siemens Healthcare Diagnostics Products Ltd, Llanberis, United Kingdom

B-060 Measurement of Infliximab Clearance Using a Bayesian Forecasting Tool and Impact of Albumin and Immunization Status During Maintenance Treatment of Inflammatory Bowel Disease

B-061 Atypical Late Presentation in Cryopyrin Associated Periodic Syndrome
P. Lesmes - García Corrales¹, A. Jurado Orozco², J. Guerrero Montávez². ¹University Hospital Virgen del Rocio, Seville, Spain, ²University Hospital Virgen del Rocio, Seville, Spain

B-062 A Self-Imposed Gray Area? Analysis of Anti-Tissue Transglutaminase and Anti-Endomyosal Antibody Discordance in a Celiac Disease Screening Serology Testing Algorithm
S. Ezra¹, D. Orton¹, J. L. Gifford¹. ¹Alberta Precision Laboratories and Department of Pathology and Laboratory Medicine, University of Calgary, Calgary, AB, Canada, ²DynaLIFE Medical Labs and Department of Pathology and Laboratory Medicine, University of Calgary, Calgary, AB, Canada

B-063 Towards Improving mRNA Vaccine Effectiveness in Immunosuppressed Adults: Elucidating the Mechanisms and Evaluating Potential Improvement Strategies
M. Narasimhan, K. Kim, L. Mahimainathan, R. Zhang, S. Malladi, A. Muthukumar. UT Southwestern Medical Center, Dallas, TX

B-064 Analytical and Diagnostic Performances of Anti-Integrin Antibody System in Inflammatory Bowel Disease
M. Schwalbe, O. McLachlan, A. Everts-van der Wind, T. Dervieux. Prometheus Laboratories, San Diego, CA

B-066 Evaluation on Effectiveness of Colloidal Gold Immunochromatography Assay for Rapid Detection of Carbapenemase-producing Enterobacteriaceae
G. Yang, J. Yan, Z. Zhang, W. Yao, Y. Wang, H. Wang, Y. Su, Z. Zhou. Tianjin Enterprise Key Laboratory for Precision Diagnosis Technology of Invasive Fungal Diseases, Tianjin, China

B-067 Performance Assessment of a Newly Developed Lateral Flow Assay for the Quantification of Faecal Pancreatic Elastase
J. Afonso, M. Schneider, D. Guschin, C. Gerhold, B. Ricken. BÜHLMANN Laboratories AG, Schönenbuch, Switzerland

B-068 Reference Intervals for Serum Free Light Chains when Ruling out Monoclonal Gammopathies in Subjects with Normal or Minimally Variant Electrophoretic Findings
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B-069  Performance Evaluation of a Ma2 Autoantibodies ELISA
A. Gorsh, T. Kryzer, A. McKeon, J. R. Mills, S. Pittock. Mayo Clinic, Rochester, MN

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

B-071  Comparison of Humoral and Cellular Immune Responses Between ChAd-BNT Heterologous Vaccination and BNT-BNT Homologous Vaccination Following the Third BNT Dose: A Prospective Cohort Study
H. Kang1, W. Sim2, J. Jung3, J. Lee4, G. Ko1, H. Park1, K. Cha4, J. Choi4, K. Park5, E. Oh1. 1Catholic University of Korea, Seoul, Korea, Republic of, 2Department of Internal Medicine, The Armed Forces Capital Hospital, Seongnam, Korea, Republic of, 3Seoul St. Mary's hospital, Seoul, Korea, Republic of, 4Armed Forces Medical Command, Seongnam, Korea, Republic of, 5Medical Corps, ROK Army, Seongnam, Korea, Republic of

B-072  Analysis of Anti-SARS-Cov-2 S1-RBD and N IgG in Saliva and Serum
K. Shin1, H. Lee2, S. Yu3, S. Lee3, W. Kim2. 1Pusan National University Hospital, Pusan, Korea, Republic of, 2Pusan National University Yangsan Hospital, Yangsan, Korea, Republic of, 3Haemundae Paik Hospital, Inje University College of Medicine, Busan, Korea, Republic of

B-073  The Clinical Utility of Reporting AC-2 Pattern With Anti-DFS70 Antibody
H. Choi1, C. Jeon2, S. Jeon1, S. Kee1. 1Chonnam National University Hospital, Gwangju, Korea, Republic of, 2Chonnam National University Research Institute of Medical Science, BMSGP, Chonnam National University Medical School, Hwasun, Korea, Republic of

B-074  Sars-cov-2 Neutralizing Antibodies Measurement in Vaccinated and Infected Volunteers
J. Gong1, Y. Zhang2, Y. Wang3. 1Beijing Strong biotechnologies, Inc, Huairou Dist, Beijing, China, 2Beijing Strong Biotechnologies, Inc, Beijing, China, 3Beijing Strong Biotechnologies, Inc, Beijing, China

B-075  Biophysical Changes of Leukocyte Activation (and NETosis) in the Cellular Host Response to Sepsis
M. Sorrells1, Y. Seo1, M. Magnien2, R. Sheybani1, A. M. Shah3, H. T. Tse4, M. R. Looney5, H. O’Neal3. 1Cytovale LLC, San Francisco, CA, 2University of California San Francisco, San Francisco, CA, 3LSU Health Sciences Center / Our Lady of the Lake Regional Medical Center, Baton Rouge, LA

B-076  Comparison of Three Methods for the Detection of Antibodies Against Muscle-Specific Kinase
K. Luong1, B. K. Lozier1, C. L. Novis1, T. L. Smith2, L. K. Peterson3. 1ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, 2Department of Neurology University of Utah School of Medicine, Salt Lake City, UT, 3Department of Pathology University of Utah School of Medicine, Salt Lake City, UT

B-077  Comparison of SARS-CoV-2 Antibody Profile and Omicron-Specific Neutralizing Activity Before and After mRNA Booster Vaccines: Bivalent vs. Original Formulation
A. Windau1, C. Meyers1, X. Yang1, R. Pontoni1, C. Schmotzer3, J. Noguez2, F. Dong3, X. S. Zhang2. 1University Hospitals Cleveland Medical Center, Cleveland, OH, 2University Hospitals Cleveland Medical Center, Case Western Reserve University, Cleveland, OH, 3Northeast Ohio Medical University College of Medicine, Rootstown, OH
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<td>Prevalence of Autoimmune Factors in Patients With Seizures of Unknown Etiology in Western China</td>
<td>S. Guo1, Z. Meng1, M. Wang1, B. Ying1. 1West China Hospital, Sichuan University, Chengdu, China, 2West China Hospital, Sichuan University, Chengdu, China</td>
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<td>B-079</td>
<td>Identifying Heterogeneity of Systemic Connective Tissue Diseases by Applying Joint Dimension Reduction and Cluster Analysis to Immunomarkers</td>
<td>J. Yu1, Y. Tseng2, W. Lin1, Y. Wang1, T. Lin1, C. Chang1, H. Wang1. 1Department of Laboratory Medicine, Chang Gung Memorial Hospital, Taoyuan City, Taiwan, 2Department of Computer Science, National Yang Ming Chiao Tung University, Hsinchu City, Taiwan, 3Syu Kang Sport Clinic, Taipei City, Taiwan, 4Department of Medicine, Harvard Medical School, Boston, MA</td>
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<td>Evaluation in Fundamental Performance of a Newly Developed Rapid Antigen Test Kit for Hepatitis B Core-related Antigen (HBcAg)</td>
<td>N. Yamamoto, S. Suzuki, K. Yamakawa, S. Kojima, A. Kaneko, S. Yagi, K. Aoyagi. Fujirebio Inc., Hachi-jo-shi, Tokyo, Japan</td>
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<td>B-082</td>
<td>Diagnostic and Clinical Characteristics of Neuroimmune Markers in a Tertiary Care Hospital</td>
<td>B. Das, M. Mandani, M. Bhatt, J. Mani, A. Aggarwal, T. Raut. Kokilaben Dhirubhai Ambani Hospital and Medical Research Institute, Mumbai, India</td>
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<td>Covid 19 Vaccines, Their Effectiveness, Side Effects and Complications in Vaccinated Patients</td>
<td>G. Elahi. Dr EssaLaboratory &amp; Diagnostic Centre, karachi, Pakistan</td>
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<td>B-085</td>
<td>Sars-cov-2 nt-chip: A Multiplex Eia Platform for Detect Humoral Response and Neutralizing Antibodies Against Sars-cov-2</td>
<td>J. R. Siqueira1, M. L. Moreira1, E. M. Carvalho1, F. Moruzzi2, D. D. Luche2, M. Kintrup3. 1Fiocruz, Rio de Janeiro, Brazil, 2NL Diagnóstica, São Paulo, Brazil, 3University of São Paulo, São Paulo, Brazil, 4Viramed, Munich, Germany</td>
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<td>B-087</td>
<td>The Antifouling Properties of BSA on Magnetic Beads are Affected by BSA Grade, Bead Type, and pH</td>
<td>C. N. Kunkler, C. D. Warner. Proliant Health and Biologicals, Ankeny, IA</td>
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<td>Associação Fundo de Incentivo a Pesquisa, São Paulo, Brazil</td>
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<td>Evaluation of Clinical Serology Assays Through the Development of Linearity Materials for aHBs IgG, Rubella IgG, and Toxoplasma IgG</td>
<td>D. Avery, J. Herod, J. Pawlak.</td>
<td>1LGC Clinical Diagnostics, Cumberland Foreside, ME, 2LGC Clinical Diagnostics, Cumberland Foreside, ME</td>
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<td>Evaluation of the Association of Non-criteria Antiphospholipid Antibodies with the Presence of Lupus Anticoagulant</td>
<td>A. Saadalla, V. Nandakumar.</td>
<td>ARUP laboratories, University of Utah, Salt Lake City, UT</td>
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<td>1EUROIMMUN Brazil, São Caetano do Sul, Brazil, 2Centro Universitário Faculdade de Medicina do ABC (FMABC), Santo André, Brazil</td>
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<td>T. Borunda Duque, V. Joy.</td>
<td>1Rhodes Group, Albuquerque, NM, 2Thermo Fisher Scientific, Portage, PA</td>
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<td>Storage Stability of HbA1c in Whole Blood Tubes at Room Temperature on the Abbott Alinity c Clinical Chemistry System</td>
<td>M. Berman, X. Wang, P. Cheng, V. Kulasingam.</td>
<td>1Abbott Labs, North Chicago, IL, 2University Health Network, Toronto, ON, Canada</td>
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B-098 Analytical Performance Evaluation of Sigma Strong Clinical Chemistry Assays on the Alinity c System
M. Berman¹, V. Bhartia², X. Wang³, P. Cheng⁴, V. Kulasingam⁵. ¹Abbott Labs, North Chicago, IL, ²Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Canada, Toronto, ON, Canada, ³Division of Clinical Biochemistry, University Health Network, Toronto, Canada, Toronto, ON, Canada, ⁴Division of Clinical Biochemistry, University Health Network, Toronto, Canada, North Chicago, IL

B-099 Development and Improvement of Novel MAS™ Infectious Controls for Serology Diagnostic Tests

B-100 Hbsag Performance Improvement of Novel MAS™ Infectious Controls for Serology Diagnostic Tests
D. Crandall, N. Krishnaswami, R. Hu. Thermo Fisher Scientific, Fremont, CA

B-101 Aquaporin 4 and Neuromyelitis Optica Spectrum Disorders
T. Gonzalez Cejudo, T. de Haro Romero, L. Papay Ramirez, M. Lopez Velez, T. de Haro Muñoz. Hospital Universitario Clínico San Cecilio, Granada, Spain

B-102 Screening Food Allergies in our Health Primary Care Area
T. De Haro Romero, C. Aldana, T. González Cejudo, T. de Haro Muñoz. Hospital Universitario Clínico San Cecilio, Granada, Spain

B-103 A Single Centre Experience of Anti-carbamylated Protein Antibody Testing in the Routine Evaluation of Rheumatoid Arthritis
C. L. Novis¹, H. A. Nelson¹, D. L. Lebiedz-Odrobina², V. L. Nandakumar². ¹ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, ²Department of Pathology, University of Utah School of Medicine, Salt Lake City, UT

B-104 Comparison of the Performance Characteristics of the Third Generation Anti-Cyclic Citrullinated Peptide CCP3.1 IgG/IgA and CCP3 IgG Assays
C. L. Novis¹, V. Nandakumar². ¹ARUP Laboratories - University of Utah, Salt Lake City, UT, ²Department of Pathology, University of Utah School of Medicine, Salt Lake City, UT

B-105 Proposal of Use of Serological And Molecular Markers for Hepatitis C Virus Infection
D. Rodríguez Cano, L. Valentín Aragón, S. Castañeda Nieto, F. Rodríguez Cantalejo. Reina Sofia University Hospital, Córdoba, Spain

B-106 Proposal of Use of Serological and Molecular Markers for Hepatitis C Virus Infection: Economical Evaluation
D. Rodríguez Cano, L. Valentín Aragón, S. Castañeda Nieto, F. Rodríguez Cantalejo. Reina Sofia University Hospital, Córdoba, Spain

B-107 Serodiagnosis of Anti-Glomerular Basement Membrane Disease Using a Newly Developed Chemiluminescence Immunoassay
M. Sabalza¹, Y. Bestmann², L. Hartwig³, A. Kühni³, C. Dähnhrich², W. Schlumberger². ¹EUROIMMUN US, Mountain Lakes, NJ, ²Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG., Lübeck, Germany
SCIENTIFIC POSTER SESSIONS
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CLINICAL & DIAGNOSTIC IMMUNOLOGY

B-108 T-cell-Mediated Immunity Against SARS-CoV-2 in Health Care Workers: Head-to-Head Comparison of Two Interferon-Gamma Release Assays and Associations Between Cellular and Humoral Immunity
M. Sabalza¹, J. Martinek², H. Tomášková³, A. Lochmanová³, H. Zelená³, J. Motlochová³, K. Dieckmann³, E. Grage-Griebenow⁴, S. Saschenbrecker⁴, D. Zapf⁴, V. Herbst⁵, E. Ježová⁵, J. Janošek⁶. ¹EUROIMMUN US, Mountain Lakes, NJ, ²Public Health Institute Ostrava, Ostrava, Czech Republic, ³Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG, Lübeck, Germany, ⁴Center for Health Research, Faculty of Medicine, University of Ostrava, Ostrava, Czech Republic

B-109 Outcome of a Large Multicenter Prospective Clinical Study Aimed at Validating a Newly Developed VlsE1/pepC10 IgG/IgM Chemiluminescent Immunoassay (CLIA) in Conjunction with a New Automated Analyzer

B-110 Validation of Digital and Automated anti-dsDNA IFA Interpretations Using the diFine Automated Fluorescent Microscope System

B-111 Parallel Detection of Antibodies Against CDR2L and CDR2 Increases the Diagnostic Specificity in Serological Diagnostics of Paraneoplastic Cerebellar Degeneration
I. Venkataraman¹, A. Ott², M. Scharf², R. Miske², D. Jäger², J. Honnorat², L. Komorowski², T. Scheper³, W. Meyer³. ¹EUROIMMUN US, Mountain Lakes, NJ, ²Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG., Lübeck, Germany, ³French Reference Center for Paraneoplastic Neurological Syndrome, Hospices Civils de Lyon, Institut NeuroMyoGene INSERM U1217/CNRS UMR 5310, Université de Lyon - Université Claude Bernard Lyon 1, F-69372, Lyon, France

B-112 Routine Application of PR3- and MPO-ANCA Chemiluminescence Immunoassays Demonstrates Enhanced Detection Rates
I. Venkataraman¹, J. van Beers¹, J. Damoiseaux², C. Dähnrich³, A. Kühnl³, W. Schlumberger³. ¹EUROIMMUN US, Mountain Lakes, NJ, ²Central Diagnostic Laboratory, Maastricht University Medical Center, Maastricht, Netherlands, ³Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG, Lübeck, Germany

B-113 Diagnostic Value of Autoantibodies Against D-3-Phosphoglycerate Dehydrogenase (PGDH) Among Patients With Liver Diseases
I. Venkataraman¹, X. Feng², Y. Liu², I. Karl³, A. Ott³, T. Scheper³, W. Meyer³, H. Yan³. ¹EUROIMMUN US, Mountain Lakes, NJ, ²Central Laboratory for Infection & Immunity, Beijing YouAn Hospital, Capital Medical University, Beijing, China, ³Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG, Lübeck, Germany, ²Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG, Lübeck, Germany
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D. G. Canali¹, A. C. Lopes², L. M. Vieira³, B. d. Santos⁴, C. d. Sabino⁵, C. M. Dias⁶, G. Zampieri⁷. ¹Diagnóstico da America, São Jose, Brazil, ²Diagnóstico da America, São José, Brazil, ³Diagnóstico da America, Belo Horizonte, Brazil, ⁴Diagnóstico da America, São Paulo, Brazil

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Z. C. Brooks. AWEsome Numbers Inc, Worthington, ON, Canada

B-156 Impact of Seven Incremental Scenarios of QC Strategies
Z. C. Brooks. AWEsome Numbers Inc, Worthington, ON, Canada

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Z. Brooks. AWEsome Numbers Inc, Worthington, ON, Canada

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L. R. Sanches, P. Cruz, A. Leme, M. Batista, C. Ferreira. Hospital Albert Einstein, São Paulo, Brazil

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C. Omosule, C. Blair, E. Herries, C. Farnsworth, D. Dietzen, J. Gaut. Washington University in St. Louis, St. Louis, MO

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M. Khair, D. J. Anderson. Cleveland State University, Cleveland, OH

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R. J. DeHoog, A. Al-Fartosi, N. Zarin-Khameh, R. Huang, L. S. Eberlin, J. Suliburk. Baylor College of Medicine, Houston, TX

A. S. Ptolemy, K. Young, C. MacDonald, R. Garrett, M. Kellogg, R. W. Peake. Boston Children’s Hospital, Boston, MA

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S. Connolly, W. Grothoff, R. Little, K. Kabytaev. University of Missouri, Columbia, MO

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C. Torres, R. Muldrow, D. N. Greene. LetsGetChecked, Monrovia, CA

B-204 Determination of Lyso-GB3 in Dried Blood Spots: A Useful Biomarker for Fabry Disease
B. F. Paulo, E. M. Novo, D. A. Zauli, A. P. Serra. Instituto Hermes Pardini, Vespasiano, Brazil

B-205 A Simple Method for Opioids, Synthetic Opioids and PCP Detection in Hair Samples by LC-MS/MS
B. F. Paulo, L. F. Junior, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil

B-206 The Determination of Vanillylmandelic Acid (VMA), Homovanillic Acid (HVA) and 5-Hydroxyindolacetic Acid (5-HIAA) by LC-Ms/MS Assay in Urine Samples for Diagnosis of Neuroendocrines Tumor
L. F. Junior, B. F. Paulo, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil
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B-210  Spectrum of Germline Mutation with Characteristic MLH1 Hotspots and High Concordance with MMR Deficiency Phenotype in Lynch Syndrome Patients in Taiwan
P.Y. Chang1, S. C. Chang1, M. C. Wang1, C. C. Chen2, J. M. Chiang1. 1Chang Gung Memorial Hospital, Taoyuan, Taiwan, 2Chang Gung University, Taoyuan, Taiwan

B-211  A Crowd-sourcing Approach to Maintain the Journal Article Database About Copy Number Variation
J. Choi1, S. Do2, D. Kim1. 1Hanyang University, Seoul, Korea, Republic of, 2Mass General Hospital and Harvard University, Boston, MA

B-212  Application of Annexin A5-Coated Beads for Collection of Extracellular Vesicles and Their Content RNA as Liquid Biopsy for Lung Cancer
W. Mei-Chia1, G. Guan-Yu2, W. Chih-Liang3, C. Pi-Yueh4, C. Chiu-Chian5. 1Department of Medical Laboratory, Chang Gung Memorial Hospital, Taoyuang, Taiwan, 2Chang-Gung University, Taoyuang, Taiwan, 3Division of Pulmonary Oncology and Interventional Bronchoscopy, Department of Thoracic Medicine, Chang Gung Memorial Hospital, Taoyung, Taiwan, 4Department of Medical Laboratory, Chang Gung Memorial Hospital, Taoyung, Taiwan, 5Department of Medical Biotechnology and Laboratory Science, Taoyung, Taiwan

B-213  Colorimetric LAMP as an Effective Tool for Rapid Molecular Diagnostics
N. A. Tanner, Z. Li, J. Bruce, R. A. Moncion, C. V. Cunningham, B. W. Langhorst, C. K. Carlow. New England Biolabs, Ipswich, MA

B-214  Serial Changes of Donor-derived Cell-free DNA in Pancreas Transplant Recipients
H. Lee1, K. Shin2, B. Choi1, M. Lee3, k. shin4. 1Pusan National University Yangsan Hospital, Yangsan, Korea, Republic of, 2Pusan National University Hospital busan, Korea, Republic of

B-215  Use of Whole Exome Sequencing and T Cell Receptor β Repertoires Analysis for Identifying Potential Genetic Variants in Rheumatoid Arthritis
J. Cho1, H. Lee2, S. Ahn3, J. Song4, J. Kim1, J. Lee1. 1Department of Laboratory Medicine, Yonsei University Wonju College of Medicine, Wonju, Korea, Republic of, 2Division of Rheumatology, Department of Internal Medicine, Yonsei University Wonju College of Medicine, Wonju, Korea, Republic of, 3Department of Laboratory Medicine, Gangneung Dongin Hospital, Gangneung, Korea, Republic of, 4GC Genome, GC labs, Yongin, Korea, Republic of

B-216  Development of a Point-of-Care Multiplexed Room Temperature Stable Environmental Toxin Test
S. Aithal, S. Gupta, K. Duong, A. Kumar, N. Ho, S. Guo, Y. Ando, R. Liu, J. Warden, D. H. Ho. Hememics Biotechnologies Inc, Gaithersburg, MD

B-217  The Study of Association of FokI Polymorphism of Vitamin D Receptor (VDR) Gene, Vitamin D and Parathyroid Hormone Levels in Stage 4-5 Chronic Kidney Disease Patients: A Cross-sectional Study
R. Yadav1, S. Naagar2, S. K. Datta3, A. K. Ahirwar4, S. Mahajan1, P. Chopra2, S. Arulselvi2. 1AIIMS New Delhi, India, New Delhi, India, 2AIIMS New Delhi, New Delhi, India

B-218  Role of Delta Tocotrienol and Resveratrol Supplementation In Regulation of Micro RNAs in Patients with Metabolic Syndrome: A Randomized Controlled Trial
D. A. Khan1, S. Fatima2. 1National University of medical Sciences, Rawalpindi, Pakistan, 2NUMS, Rawalpindi, Pakistan
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**B-220** Development of Reference Materials for Detection of Monkeypox
*C. Huang*, R. Raman, E. Morreale, N. Truong, B. Anekella. LGC Clinical Diagnostics, Gaithersburg, MD

**B-221** Quantitation of DNA in Antibody-based and RNA-based Drugs by Quantitative Polymerase Chain Reaction (qPCR)

**B-222** Validation of a qPCR Method for Qualitative Detection of Monkeypox Virus

**B-223** Validation of a Non-invasive DNA NGS Assay for Detecting Somatic Mutations in Normal Appearing Sun Exposed Skin

**B-224** Comparison of an Unlabeled Probe High Resolution Melting Analysis (HRMA) Assay for Factor V Leiden 1691 G>A Mutation to a TaqMan Hydrolysis Assay
*H. H. Han*, S. Lewis, A. Hoang, K. Badri. Tarleton State University, Fort Worth, TX

**B-225** Assessment of the Genotype Frequency of Thiopurine Methyltransferase (TPMT) Deficiency in a Large Cohort of Patients With Immune Mediated Inflammatory Disease and Cancer
*J. Stachelski*, D. Pham, P. Hughes, O. McLachlan, T. Dervieux. Prometheus Laboratories, San Diego, CA

**B-226** Clinical Evaluation of ElsiQ™ STI-12 Detection Kit 3/4 for Detection of Human Sexual Transmitted Infection Pathogens in Human Vaginal Swab and/or Urine Specimens
*J. Ahn*, D. Kim*, W. Lee*, S. Yoon*, S. Cho*. 1Gachon University Gil Medical Center, Incheon, Korea, Republic of, 2Kyung Hee University Hospital at Gangdong, Seoul, Korea, Republic of, 3Korea University College of Medicine, Seoul, Korea, Republic of, 4Ajou University Hospital, Suwon, Korea, Republic of

**B-227** Metabolic Reprogramming of Cancer Stem Cells and a Novel Eight-Gene Metabolism-related Risk Signature in Clear Cell Renal Carcinoma
*L. Pang*, H. Li. Peking University First Hospital, Beijing, China

**B-228** Partition-free Digital Polymerase Chain Reaction: A Novel Approach to Enable Rapid Turnaround Time With Digital Accuracy

**B-229** Benchmarking of Bioinformatics and Molecular Tools for Copy Number Variants Calling From Human Genome: A Detailed Look On Single Exons

**B-230** Monitoring SARS-CoV-2 Subvariants for Evaluation of the Diagnostic Kit’s Annealing Site Using Nanopore Sequencing
*Y. Kim*, T. Noh*, S. Lee*, Y. Kim*, D. Prakash*, K. Lee*. 1Seoul Clinical Laboratory (SCL), Yongin City, Gyeonggi-do, KOREA, Korea, Republic of, 2HANARO Medical Foundation, Seoul, Korea, Republic of
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<td>University (UNESP), Rio Claro, Brazil, Laboratory of Biotechnology, School of Applied Sciences,</td>
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J. Walker¹, P. Venter², B. Faurholm², R. Wadsworth², J. Pavlica¹, C. Marshall¹, C. Ross¹.
¹Watchmaker Genomics, Boulder, CO, ²Watchmaker Genomics, Cape Town, South Africa

B-256 Genotype Distribution of the Hepatitis C Virus: 10 Years Data of a Clinical Laboratory in Brazil
Associação Fundo de Incentivo a Pesquisa (Afip - Medicina Diagnóstica), São Paulo, Brazil

B-257 Rapid Implementation of Monkeypox Detection in a Brazilian Diagnostic Laboratory
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R. Correa¹, G. Gill¹, T. Sena¹, M. Soares¹, M. Santos¹, R. Jácomo¹, L. Velasco¹, L. Nery¹,
R. Andrade². ¹Sabin Diagnóstico e Saúde, Brasília, Brazil, ²Universidade Católica de Brasília, Brasília, Brazil

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M. Bae, S. SHIN. Korea University, Seoul, Korea, Republic of

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M. Bae, S. SHIN. Korea University, Seoul, Korea, Republic of

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J. d. Silva, J. S. Rios, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil

B-263 Molecular Assay Evaluation to SMA and SCID Diagnosis in Newborn Dried Blood Spots (DBS)
J. d. Silva, C. M. da Silva, D. A. Zauli, A. P. Serra. Instituto Hermes Pardini, Vespasiano, Brazil

B-264 Identification of Potential Biomarkers Related to Major Depressive Disorder Using a Meta-analysis Approach
A. H. de Carvalho¹, A. B. de Lima¹, H. D. Dias², D. A. Zauli¹. ¹Instituto Hermes Pardini, Vespasiano, Brazil, ²Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

B-265 Prevalence of 844ins68 Polymorphism in the Cystathionine β-synthase Gene in Brazilian Individuals

B-266 Analytical Performance Comparison of Two Genotyping Assays for HIV-1 Drug Resistance Using Sanger Sequencing
F. L. Marinho, J. d. Silva, L. B. Alvim, D. A. Zauli. Instituto Hermes Pardini, Vespasiano, Brazil

B-267 Validation of a New Molecular Test to Quantify Plasma Cytomegalovirus Load
CerTest Biotec, San Mateo de Gállego, Spain
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B-269  Plasmodium Detection: Sera, Blood, Do They All Work?
E. Franco-Marín1, G. Ulloa2, B. Dehesa-García1, M. Santolalla3, A. Lescano1, B. García-Manrique1, P. Mayor1, A. Mayor1, H. Alonso3. 1CerTest Biotec, San Mateo de Gállego, Spain, 2Universidade Federal Rural do Amazonas, Belém, Brazil, 3Emerging, Emerging Diseases, and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Lima, Peru, 4Department of Health and Animal Anatomy, Autonomous University of Barcelona, Barcelona, Spain, 5Instituto Salud Global (ISGlobal), Barcelona, Spain, 6Department of Microbiology, Paediatrics, Radiology, and Public Health, Faculty of Medicine, University of Zaragoza, Zaragoza, Spain

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M. Martínez-Santolaria1, C. Sota-Diez2, B. Gaston-Galvez1, B. García-Manrique2, E. Machetti-Mareca1, C. Gil-Rodriguez2. 1Facultad de Ciencias, Universidad de Zaragoza, Zaragoza, Spain, 2CerTest Biotec, San Mateo de Gállego, Spain

B-272  Interference Assays: How Different Substances can Affect the Detection of Respiratory Viruses Using a Quick Molecular Solution
M. Martínez-Santolaria1, B. García-Manrique2, E. Machetti-Mareca1, C. Gil-Rodriguez2. 1Facultad de Ciencias, Universidad de Zaragoza, Zaragoza, Spain, 2CerTest Biotec, San Mateo de Gállego, Spain

B-273  Lymphogranuloma Venereum: Validation of a Real-Time PCR Kit for its Rapid Diagnosis
M. Peris1, A. Milagro2, N. F. Martinez3, O. Algara2, D. Martínez-Mateos2, B. Dehesa-García3, B. García-Manrique1, A. Rezusta1. 1Instituto de Investigación Sanitaria de Aragón, Zaragoza, Spain, 2Hospital Universitario Miguel Servet, Zaragoza, Spain, 3CerTest Biotec, San Mateo de Gállego, Spain

B-274  One-step Detection of Candida Albicans, Trichomonas Vaginalis and Gardnerella Vaginalis
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B-275  Retrospective Study for Mpox Detection: Validation of a Real Time PCR Kit for its Fast Diagnosis
M. Peris1, A. Milagro2, B. Fortuño2, D. Martínez-Mateos3, B. Gilaberte2, B. Dehesa-García2, B. García-Manrique1, L. Laborda3, M. Latorre-Millán4, C. Aspíroz-Sancho1. 1Instituto de Investigaciones Sanitarias de Aragón (IISA), Zaragoza, Spain, 2Hospital Universitario Miguel Servet, Zaragoza, Spain, 3CerTest Biotec, San Mateo de Gállego, Spain, 4Hospital Royo Villanova, Zaragoza, Spain
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M. M. Jensen¹, H. Maeker², T. Nguyen³, D. Vu⁴, D. Vigerust⁴, R. Gupta⁴. ¹Spectrum Solutions, Inc., Draper, UT, ²Stanford University, Stanford, CA, ³Stanford University, Palo Alto, CA, ⁴Spectrum Solutions, LLC., Draper, UT

B-277  Analytical Validation of Whole Blood Suitability for MeMed BV, a Host-Protein Test for Differentiating Between Bacterial and Viral Infection
M. Hainrichson¹, E. Simon¹, R. Kalfon¹, N. Senderovich¹, N. Shamir¹, Y. Kaminer-Israeli¹, R. Navon¹, S. Halabi², A. Klein-Kremer³, E. Eden¹. ¹MeMed, Haifa, Israel, ²Carmel Medical Center, Haifa, Israel, ³Hillel Yaffe Medical Center, Hadera, Israel

B-278  Pilot Clinical Study of the CarePoint Assay
J. S. Briggs¹, A. H. Brooks-Starks¹, T. J. Elenberger¹, R. Brenneman¹, K. R. Scarpato², S. S. Chang³, J. C. Bassett³, J. Linehan⁴. ¹PhageTech, Inc, Irvine, CA, ²Vanderbilt University Medical Center, Nashville, TN, ³Hoag Hospital, Newport Beach, CA, ⁴St. John’s Cancer Institute, Santa Monica, CA

B-279  Metabolomics in Practice, A Guide for Chemical Pathology Community
H. Majid¹, A. Ijaz², S. Imran³, S. Rehman¹, L. Jafri¹, S. Ahmed¹, A. Zubairi⁴, I. Siddiqui¹, A. Habib¹. ¹Aga Khan University, Karachi, Pakistan, ²Mohiuddin Medical College, Azad-Jammu-Kashmir, Pakistan, ³OMI Hospital, Karachi, Pakistan, ⁴Indus Hospital and health Network, Karachi, Pakistan

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B-281  Analytical Validation of the Mindray High Sensitivity Cardiac Troponin I Assay
B. Fabre-Estremera¹, K. M. Schulz², A. Ladd², A. Buño Soto¹, F. S. Apple¹. ¹La Paz University Hospital, Madrid, Spain, ²Hennepin Healthcare Research Institute, Minneapolis, MN, ³Hennepin Healthcare/HCMC, Minneapolis, MN

B-282  C Reactive Protein as a Discriminative Marker in Emergency Surgery
P. Lesmes - García Corrales¹, A. García Serrano¹, J. Guerrero Montávez¹. ¹University Hospital Virgen del Rocio, Seville, Spain, ²University Hospital Virgen del Rocio, Seville, Spain

B-283  The Epigenetic Landscape Regulation by Long Non-Coding RNAs Promotes Chemoresistance
R. A. Chiong Zevallos, E. Reis. Instituto de Química - Universidade de São Paulo, São Paulo, Brazil

B-284  Evaluating the Range of Serum Neurofilament Light Chain at Different Ages in Chinese
S. Guo¹, Z. Meng², M. Tang², Y. Ren², B. Ying². ¹West China Hospital, Sichuan University, Chengdu, China, ²West China Hospital, Sichuan University, Chengdu, China
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Y. Liu. the First Affiliated Hospital, Zhejiang University School of Medicine., Hangzhou, China

B-288 The Beginning of the End: AGO2 Protein Identified and Validated as a Novel Biomarker for Multi-Cancer Diagnosis through Bioinformatics Analysis and Immunoassay
A. Hashmi¹, G. Hutvagner², S. Sidhu³. ¹University of Technology/NSW Health Pathology, Sydney, Australia, ²University of Technology Sydney, Sydney, Australia, ³Kollings Research Institute, Sydney, Australia

B-289 Acute Kidney Injury Urinary Biomarker, Neutrophil Gelatinase-associated Lipocalin (NGAL) Analytical Performance Evaluation on Roche cobas c502 Chemistry Platform
V. Samara¹, V. Buggs², L. Song³. ¹University of Chicago, Chicago, IL, ²University of California Los Angeles, Los Angeles, CA

B-290 Development of a LC/MS/MS method for the Quantitation of Infliximab in Serum
B. Zhong, J. V. Abonamah, D. Payto, A. McShane. Department of Laboratory Medicine, Cleveland Clinic Foundation, Cleveland, OH

B-291 Proximity Labeling at Sites of Protein-Protein Interactions Using a Switchable DNA Catalyst

B-292 Drug Repurposing via Host-pathogen Protein-protein Interaction for the Treatment of COVID-19
S. Kaur¹, G. Singh². ¹SGTB Khalsa college, university of delhi, DELHI, India, ²SGTB Khalsa College, University of Delhi, Delhi, India

B-293 Non-renal Sources of Erythropoietin: Complications for Interpreting Erythropoietin Assays
R. Alshamali¹, J. P. Marrow², M. J. Platt³, K. R. Bruntn, J. A. Simpson¹. ¹University of Guelph, Guelph, ON, Canada, ²Dalhousie University, Saint John, NB, Canada

B-294 Delineating the Diversity of Recombinant Monoclonal Antibodies Isolated from Alpaca Polyclonal Mixture
D. Narang¹, T. Le Bihan², T. N. De Villavicencio Diaz³, B. Ma³. ¹Rapid Novor Inc, Kitchener, ON, Canada, ²Rapid Novor Inc., Kitchener, ON, Canada

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B-295 Analysis of Patient Health Questionnaire-9 Based Depression Prevalence, According to a Discordance Between Quantitative Urinary Cotinine Level and Self-Report on Second-Hand Smoke Exposure in Adults
H. Lee, D. Park. Wonkwang University, Iksan-si, Korea, Republic of

B-296 Assessment of the Effect of HIV Protease Inhibitors Used in Antiretroviral Therapy in Cameroon on the Activity of Carbohydrate-Lipid Metabolism Enzymes in HIV-Infected Patients With Lipodystrophy
M. G. Ndoe1, C. Fokunang2. 1Institut of Medical Research and Medicinal Plants Studies, Yaounde, Cameroon, 2Faculty of Medicine and Biomedical Sciences, Yaounde, Cameroon

B-297 Effortless and Streamlined Workflow for Absolute Quantitation of Therapeutic Monoclonal Antibodies Using Promise Proteomics mAbXmise Kits and TSQ Altis Plus Mass Spectrometer
Y. Song1, D. Lebert2, J. Guillaubez2, S. Samra1, E. Goucher1, B. Hart1. 1Thermo Fisher Scientific, San Jose, CA, 2Promise Proteomics, Grenoble, France

B-298 Retrospective Analysis of Fentanyl Positivity at a Large Academic Center Reveals Trends in Illicit Fentanyl Use
M. Berry1, L. Cohen2, D. Manthei1, C. Gherasim1. 1Michigan Medicine, Ann Arbor, MI, 2College of Pharmacy, University of Michigan, Ann Arbor, MI

B-299 Liquid Chromatography-mass Spectrometry Measurement of Drugs of Abuse and Alcohol Biomarker Phosphatidylethanol (Peth 16:0/18:1) Using Volumetric Dried Blood Spot Device
G. Göksu Gürsu, M. E. Maviş, H. Yılmaz. SEM Laboratuar Cihazlari, Istanbul, Turkey

B-300 Importance of Clinical Chemistry and Metabolism Parameters for the Management of Patient With Chronic Nitrous Oxide Intoxication
G. Grzych1, E. Gernez1, D. Marchand1, S. Deheul1, F. Zenmeh1, V. Masso1, A. Bennis2, R. Diesnis3, M. Joncquel1, I. Kim1, J. Niguet3, J. Guichard1, M. Girou1, C. Tard1. 1Chu Lille, Lille, France, 2CH Roubaix, Roubaix, France, 3GHICL, Lille, France

B-301 In-vivo Continuous Therapeutic Drug Monitoring With Electrochemical Aptamer-Based Sensors
V. Goncales1, A. A. Chamazketi1, M. Harrison1, K. Leung1, J. Gerson1, R. H. Batchelor1, A. Farnkopf1, A. Hodges1, K. Plaxco2. 1Nutromics, Melbourne, Australia, 2University of California Santa Barbara, Santa Barbara, CA

B-302 Increased False-Positives vs Increased Interference Flags: Using the AU 5800 to Compare Two Ethyl Glucuronide Assays
A. N. Jackson1, S. P. Wyness1, S. La‘ulu1, J. W. Rudolf2, K. L. Johnson-Davis2. 1ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, 2University of Utah Health, Department of Pathology, Salt Lake City, UT

B-303 Comparison of Tacrolimus Concentrations Obtained by the Newly Approved Alinity i Tacrolimus Assay with a Reference Liquid-Chromatography Combined with Tandem Mass Spectrometry Assay
K. Woodard, T. Kisler, A. Dasgupta. University of Kansas Health System, Kansas City, KS
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B-304 Performance of Alternative Proficiency Testing Program for Bayesian Forecasting Tool of Infliximab Exposure in Clinical Pharmacokinetic Laboratory
S. Caonguyen, O. McLachlan, D. Pham, P. Hughes, T. Dervieux. Prometheus Laboratories, San Diego, CA

B-305 A Novel Dilute-n-Shoot Method for Quantitating Isotonitazene and Desmetonitazene in Human Urine by LC/MS
P. J. Simms. Silver State Diagnostics, Las Vegas, NV

B-306 Performance Evaluation of an Automated Assay for Measurement of Tacrolimus* on the ADVIA Centaur XP System
T. Chuang\textsuperscript{1}, R. Swan\textsuperscript{2}, O. Sankiewicz\textsuperscript{2}, N. Casson\textsuperscript{2}, S. Baxter\textsuperscript{2}. \textsuperscript{1}Siemens Healthcare Diagnostics Inc., Tarrytown, NY, \textsuperscript{2}Randox Laboratories Limited, Antrim, United Kingdom

B-307 Direct Quantitation of 77 Therapeutic and Clinical Toxicology Drugs in Dried Blood Spots Using the Fully Automated Transcend DSX-1 System
J. Guo, C. Patterson, R. Gibson, K. van Natta, S. Samra. Thermo Fisher Scientific, San Jose, CA

B-308 Focal Adhesion Kinase Activation is Involved in Tension Development During Contractile Stimulation of Mouse Detrusor Smooth Muscle to Modulate Bladder Dysfunction-Related Lower Urinary Tract Symptoms
S. Maher\textsuperscript{1}, H. Kali\textsuperscript{2}, M. Bayachou\textsuperscript{2}, G. Liu\textsuperscript{3}. \textsuperscript{1}Cleveland Clinic, Cleveland, OH, \textsuperscript{2}Cleveland State University, Cleveland, OH, \textsuperscript{3}Case Western Reserve University, Cleveland, OH

B-309 Development and Validation of a LC-MS/MS Method for Highly Concentrated Tacrolimus and Cyclosporine Specimens Prepared from Clinical Pharmaceutical Products to Assess Adsorption by Feeding Tubes
Y. Xiao, E. Leung. Children's Hospital Los Angeles, Los Angeles, CA,

B-310 High Through-put Online Solid Phase Extraction of Immunosuppressive Drugs from Whole Blood on Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) in a Tertiary Hospital Laboratory
J. Wong, C. J. Gea, G. J. Goh, C. P. Yeo. Singapore General Hospital, Department of Clinical Pathology, Singapore, Singapore

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A. Reinhart. NMS Labs, Horsham, PA

B-313 Aberrant Lithium Results After hdl Assay on Roche cobas c503 Instrument
A. Aravamudhan, C. Mills, D. Li, P. Muluhngwi. University of Minnesota Medical Center Fairview, Minneapolis, MN

B-314 Evaluation of Everolimus QMS Immunoassay on Roche cobas c502 and Indiko Plus Analyzers
V. Buggs, L. Song, I. Metushi. Department of Pathology and Laboratory Medicine. University of California Los Angeles, Los Angeles, CA

B-315 Investigation Into Extraction Procedure Substitution in the Abbott Architect i2000 Tacrolimus, Sirolimus, and Cyclosporine Assays
A. Chandras, D. R. Mendu, D. C. Kirchhoff. The Mount Sinai Hospital, New York, NY
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#### B-316 Retrospective Data Analysis Reveals Unusual Metabolism Pattern of Ethanol in Pediatrics as Compared to Adult and Geriatric Populations
K. Baryeh¹, R. Zhou², L. M. Zuromski³, G. A. McMillin⁴, M. D. Krasowski⁵, K. L. Johnson-Davis⁶. ¹University of Utah Health, Salt Lake City, UT, ²University of Iowa, Iowa City, IA, ³ARUP Laboratories, Salt Lake City, UT

#### B-317 Poor Standardization of Specimen Validity Tests Leads to Significant Variation of Urine Adulteration Positivity Rates
E. M. Fatica¹, L. R. Ksiazek², C. D. Koch². ¹University of Cincinnati, Cincinnati, OH, ²Sanford Health, Sioux Falls, SD

#### B-318 Development of Non-competitive Immunoassay System for Cyclosporine A Using Alpaca Naïve Library-derived VHH
S. Fukuya¹, M. Tanaka¹, Y. Hotta¹, Y. Kitamori¹, N. Kiyose¹, N. Miyazaki¹, N. Ise¹, K. Aoyagi¹. ¹Fujirebio Inc., Tokyo, Japan, ²ARK Resource Co., Ltd., Kumamoto, Japan

#### B-319 Drugs of Abuse: Correlation of Immunoassay Absorbance with Concentration by LC-MS/MS and False Negative Rates on the Roche Analyzer
L. Militello, P. P. Gqamana, V. Zhang. University of Rochester, Rochester, NY

#### B-320 Development of Two-Step Sandwich CLEIA Kit for Tacrolimus with Automated Sample-Pretreatment Process, LUMIPULSE® iTACT® Tacrolimus
A. Yamaguchi, S. Funakoshi, C. Iwashita, K. Baba, S. Sekiya, Y. Hirano, Y. Hotta, N. Ise, K. Moriyama, K. Umeda, A. Kaneko, K. Aoyagi. FUJIREBIO Inc., Hachioji City, Tokyo, Japan

#### B-321 Development of Chemiluminescent Enzyme Immunoassay (CLEIA) for Detecting Methotrexate in Blood
E. Inagaki¹, K. Baba¹, y. Imai², A. Kaneko², K. Aoyagi². ¹FUJIREBIO Inc., Hachioji, Tokyo, Japan, ²Fujirebio Inc., Hachioji, Tokyo, Japan

#### B-322 Assessment of MassTrak™ Immunosuppressant Calibrator and Control Sets: Confidence in your Calibrators
G. Hammond, S. Balloch, L. Calton. Waters Corporation, Wilmslow, United Kingdom

#### B-323 Urinary Thebaine Improves Opioid Interpretation in Pain Management
N. Pourfarrokh¹, N. Nguyen¹. ¹Baylor Scott and White Temple, Temple, TX, ²Baylor Scott & White Health, Temple, TX

#### B-324 Comparison of Two Urine Fentanyl Assays on the Abbott Alinity c Analyzer
E. T. Laryea, S. Manning, J. H. Nichols. Vanderbilt University Medical Center, Nashville, TN

#### B-325 Retrospective Study Comparing Immunoassay Screen and Mass Spectrometry Confirmation Results in an Opioid Dependant Population
M. J. Bennett, J. Luong, D. W. Kinniburgh. Alberta Centre for Toxicology, University of Calgary, Calgary, AB, Canada

#### B-326 Home Collected Oral Fluid Specimens Are a Viable Option for Telemedicine Based Toxicology Testing
J. P. Canner, F. H. Moonschi. Gravity Diagnostics LLC, Covington, KY
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G. Campbell1, J. Schrecker, A. Holt, M. Hardison, R. Heltsley. Aegis Sciences Corporation, Nashville, TN

B-328  Analytical Performance of a Screening Test for Lead Using Dried Blood Spots and ICP-MS
C. M. Orahoske1, W. Cieslak1, D. M. Payto2, E. Chegwidden1, J. Colón-Franco1. 1Cleveland State University, Cleveland, OH, 2Cleveland Clinic Foundation, Cleveland, OH

B-329  Comparison Between Trough and AUC Monitoring of MPA in Patients with and without Organ Transplantation — Influence of the Co-administered Immunosuppressant
D. Svinarov. Alexander Hospital, Faculty of Medicine, Medical University of Sofia, Sofia, Bulgaria

B-330  Homogeneous Enzyme Immunoassay for Hydrocodone
K. Chung, M. Pham, T. Houts, R. O'Malley. ARK Diagnostics, Fremont, CA

B-331  Homogeneous Enzyme Immunoassay for the Quantitative Determination of Methotrexate
J. Nguyen-Choi1, S. Mun, D. Wolfson, B. Moon, T. Houts, R. O'Malley. ARK Diagnostics, Fremont, CA

B-332  Evaluation of the Analytical Performance of Seven Therapeutic Drug Monitoring Assays on the Atellica® CI 1900 Analyzer

B-333  Getting in Line With the Guidelines: A New Screening Cutoff Validated for THC
S. P. Wyness1, A. N. Jackson1, J. W. Rudolf1, J. M. Boyd1, K. L. Johnson-Davis2. 1ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, 2Department of Pathology, University of Utah, Salt Lake City, UT

B-334  How to Prevent the Next Wave in Overdose Crisis? Detect Designer Benzodiazepines Using CEDIA and DRI Assays

B-335  Rapid Quantitative Clozapine Measurements at the Point-of-Care Using Capillary Blood
R. H. Christenson1, M. R. Hilaire2, S. J. Salamone2, D. L. Kelly1. 1University of Maryland School of Medicine, Baltimore, MD, 2Saladax Biomedical, Inc., Bethlehem, PA

B-336  Comparison of the L1 Fentanyl Enzyme Immunoassay with ARII and SEFRIA Fentanyl Assays on Beckman AU Analyzer
S. Manar1, B. George1, R. Huang2. 1Harris Health Ben Taub Hospital, Houston, TX, 2Baylor College of Medicine, Harris Health Ben Taub Hospital, Houston, TX
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<td>University of Louisville, Louisville, KY</td>
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<td>S. Balloch, L. Calton, G. Hammond</td>
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<td>¹University of California Los Angeles, Los Angeles, CA, ²University of California San Diego, San Diego, CA</td>
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<td>K. Lam, I. Metushi, L. Song. University of California Los Angeles, Los Angeles, CA</td>
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<td>X. Lou(^1), M. Ma(^2), S. Ma(^3), Y. Wu(^1), C. Xuan(^1), Z. Wang(^1), H. Gao(^1). (^1)Chinese Academy of Medical Sciences, Beijing, China, (^2)University of California, Berkeley, Berkeley, CA</td>
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<td>J. A. Erickson(^1), K. Doyle(^2). (^1)ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT, (^2)University of Utah School of Medicine, Department of Pathology, Salt Lake City, UT</td>
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<td>Hnrnpa2b1 Mediated Mir92a-92a Uregulation and Section Acts a Promising Non-invasive Diagnostic Biomarker in Colorectal Cancer</td>
<td>Y. Li, W. Cui. Cancer Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China</td>
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<td>A Novel Liquid Biopsy Technology Translating Personalized Gene Expression to Drug Efficacy</td>
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B-363 Solid Lipid Nanoparticles Mediated CBLC siRNA Delivery as a Platform to Monitor and Probe Biological Functions
K. R. Master, M. Bayachou. Cleveland State University, Cleveland, OH

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U. M. Alghamdi. Cleveland State University, Cleveland, OH

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B-366 Thyroglobulin Reflex to Manage Thyroglobulin Autoantibody Interference in an Academic Medical Center: A Comparison of Two Immunoassays and an LC-MS/MS Assay in the Presence of Thyroglobulin Autoantibodies
M. Dee, N. Boyert, D. Payto, J. Colon-Franco. Cleveland Clinic Foundation, Cleveland, OH

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K. Jagarlamudi1, Y. Damico1, P. Pellegrini1, M. Torstensson1, Z. Xia2, L. Xue2. 1AroCell AB, Stockholm, Sweden, 2ZECEN Biotech CO., Ltd, Jiangsu, China

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B-370 Clinical Utility of microRNA Quantitative Analysis Using Double Quencher Probes and Methylation Analysis By Methylation Sensitive Restriction Enzyme Polymerase Chain Reaction for Bladder Cancer
A. Naruse1, A. Kikuchi1, K. Takagi2. 1Daiyukai Research Institute for Medical Science, Ichinomiya, Japan, 2Daiyukai Daiichi Hospital, Ichinomiya, Japan

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C. Chen, C. Chen, T. Wu, B. Chen, P. Peng, S. Chen. Industrial Technology Research Institute, Hsinchu, Taiwan
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C. B. Swartchick, J. Chan. University of Illinois at Urbana Champaign, Urbana, IL

B-374  Early Prediction of Recurrent Non-Muscle Invasive Bladder Cancer Using ATR-FTIR in Urine Samples  
H. Kalil¹, S. Maher³, A. Mohamed³, A. El-Tobgy⁴, M. Bayachou⁴, A. El-Falouji⁴. ¹Cleveland State University, Cleveland, OH, ²Cleveland Clinic, Cleveland, OH, ³Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, ⁴Suez Canal University, Ismailia, Egypt

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L. Manley, S. Lopez, L. Kothandaramaswamy, H. Saunders, A. Cheng. Thermo Fisher Scientific, Austin, TX

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M. Quintanilla, A. Baldys, K. Thakur, G. Arrode-Bruses, J. Rhea-McManus, H. Leipold. Siemens Healthineers, Tarrytown, NY

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M. H. Griffiths¹, V. Kulasingam¹, P. L. Cheng¹, X. Y. Wang², R. J. Schneider³. ¹Diazyme Laboratories, Poway, CA, ²Division of Clinical Biochemistry, University Health Network, Toronto, ON, Canada, ³Abbott Laboratories, Abbott Park, IL

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C. Wang, J. Li, T. Wang. The Second Hospital of Shandong University, Jinan, China

B-382  Accurate and Early Detection of Colorectal Cancer Using a Multilocus DNA Methylation Markers-based Testing in Peripheral Blood Mononuclear Cells  
C. Wang¹, P. Li², Y. Xie². ¹The Second Hospital of Shandong University, Jinan, China, ²The Second Hospital of Shandong University, Jinan, China

B-383  Exosomal PRPSAP1 in Plasma Predicts Microvascular Invasion in Hepatocellular Carcinoma  
Z. Xin, J. Zhou, H. Chen, M. Song, L. Jiao, B. Ying. West China Hospital of Sichuan University, Chengdu, China
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<td>Validation of One-step In-house RT-qPCR Method for Detecting MLL::AF4 Fusion</td>
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<td>Next-generation Sequencing Panel to Detect Homologous Recombination Deficiency (HRD) Biomarkers in Brazilian Ovarian Cancer Samples</td>
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