

2022 AACC Annual Scientific Meeting & Clinical Lab Expo Session Recordings Listing

Sessions as presented July 24 – 28, 2022 at the McCormick Place Convention Center.

Below are sessions presented at the 2022 AACC Annual Scientific Meeting & Clinical Lab Expo. When possible, sessions are available as part of the 2022 AACC Session Recordings. Specific listing of the videos included in the full 2022 AACC Session Recordings are below.

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PLENARY AND MEETING-THE-EXPERT SESSIONS

11001 Biomedical Informatics Strategies to Enhance Individualized Predictive Models

- Lucila Ohno-Machado, MD, PhD, MBA | University of California San Diego Health

62001 Biomedical Informatics Strategies to Enhance Individualized Predictive Models

Meet-the-Expert Session

- Moderator: Dina Greene, PhD, DABCC | LetsGetChecked
- Speaker: Lucila Ohno-Machado, MD, PhD, MBA | University of California San Diego Health

12001 Multiplexed and Exponentially Improving Technologies

- George Church, PhD | Harvard University/ Harvard Medical School/ Massachusetts Institute of Technology

62002 Multiplexed and Exponentially Improving Technologies

Meet-the-Expert Session

- Moderator: Robert Christenson, PhD, DABCC, FAACC, FACC | University of Maryland School of Medicine
- Speaker: George Church, PhD | Harvard University/ Harvard Medical School/ Massachusetts Institute of Technology

13001 Applications of Human Brain Organoid Technology

- Alysson Muotri, PhD | University of California, San Diego School of Medicine

63001 Applications of Human Brain Organoid Technology

Meet-the-Expert Session

- Moderator: Robert Fitzgerald, PhD, DABCC, NRCC, FAACC | University of California, San Diego
- Speaker: Alysson Muotri, PhD | University of California, San Diego School of Medicine

14001 Building Trust in a Time of Turmoil

- Thomas Lee, MSc, MD | Press Ganey Associates LLC/ Harvard Medical School/Brigham & Women's Hospital

64001 Building Trust in a Time of Turmoil

Meet-the-Expert Session

- Moderator: Robert Christenson, PhD, DABCC, FAACC, FACC | University of Maryland School of Medicine
- Speaker: Thomas Lee, MSc, MD | Press Ganey Associates LLC/ Harvard Medical School/Brigham & Women's Hospital

15001 Guiding Clinical Decisions with Molecular Information provided by Direct Mass Spectrometry Technologies

- Livia Eberlin, PhD | Baylor College of Medicine

65001 Guiding Clinical Decisions with Molecular Information Provided by Direct Mass Spectrometry Technologies

Meet-the-Expert Session

- Moderator: Robert Christenson, PhD, DABCC, FAACC, FACC | University of Maryland School of Medicine
- Speaker: Livia Eberlin, PhD | Baylor College of Medicine

SPECIAL SESSIONS

11002 How Low Is Too Low? Hemoglobin A1c Considerations in Diabetes Management

Sunday Special Session – [PERMISSION PENDING]

Moderator: Daniel Holmes, MD, FRCPC | University of British Columbia/St. Paul's Hospital

Speaker(s):

- Highs and Lows: My Life with A1c's
James Hirsch | Journalist and Author [PERMISSION PENDING]
- Limitations of HbA1c: What Every Provider, Patient, and Payor Needs to Know
Irl Hirsch, MD, MACP | University of Washington [PERMISSION PENDING]

12002 AACC Disruptive Technology Award Competition

DTAC

Moderator: Stephen Master, MD, PhD, FAACC | Children's Hospital of Philadelphia

Speaker(s):

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

32101 Bad, Better, Best: Putting Machine Learning Models to the Test

AACC President Invited Session

Moderator: Stephen Master, MD, PhD, FAACC | Children's Hospital of Philadelphia

Speaker(s):

- Case Discussion
Shannon Haymond, PhD, DABCC, FAACC | Ann & Robert H. Lurie Children's Hospital of Chicago
- Case Discussion
Christopher McCudden, PhD, DABCC, NRCC, FACB | Eastern Ontario Regional Laboratory Association, University of Ottawa, Ottawa Hospital
- Audience Facilitator
T. Scott Isbell, PhD, DABCC, FAACC | Saint Louis University School of Medicine

32446 Population Genomics Health and Precision Medicine

AMOC Chair Invited Session

Moderator: Linnea Baudhuin, PhD, DABMGG, FACMG | Mayo Clinic

Speaker(s):

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

A Fireside Chat with Theranos Whistleblowers Erika Cheung and Tyler Shultz

Special Late-Breaking Session – [PERMISSION PENDING]

Moderator: Stephen Master, MD, PhD, FAACC | Children's Hospital of Philadelphia

Panelists:

- Erika Cheung | Ethics in Entrepreneurship [PERMISSION PENDING]
- Tyler Shultz | Theranos Whistleblower and Entrepreneur [PERMISSION PENDING]

SCIENTIFIC SESSIONS

32102 Cardiometabolic Syndrome: Molecular Mechanisms and Emerging Biomarker Assessment

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

Speaker(s):

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

32103 Emerging Applications of Label-Free Immunoassays in Clinical Diagnostics

Moderator: Y. Ruben Luo, PhD, DABCC | Stanford University

Speaker(s):

- Label-Free Immunoassay: An Emerging Platform in Clinical Immunology and Therapeutic
Biologics Monitoring
Y. Ruben Luo, PhD, DABCC | Stanford University
- Quantitative, Rapid and Real-Time SARS-CoV-2 Antibody Avidity Method Using Label-Free
Technologies
Zhen Zhao, PhD, DABCC, FAACC | Weill Cornell Medicine

32104 Hemoglobin A1c Results in Patients with Hemoglobin Variants: The Cost of Poor Quality Due to Method Selection and How to Avoid It

Moderator: David Koch, PhD, DABCC, FAACC | Emory University/Grady Memorial Hospital

Speaker(s):

- A Clinical Overview of HbA1c, and the Methods Available for Measurement
David Koch, PhD, DABCC, FAACC | Emory University/Grady Memorial Hospital
- Method-Dependent Effects on HbA1c Accuracy for Patients with Variant Hemoglobin Traits
Jeanne Rhea-McManus, PhD, MBA, DABCC, NRCC | Siemens Healthineers
- The Cost of Quality Concept, and the Failure Costs Associated with Choosing the Wrong Method
Lucia Berte, MA, MT (ASCP)SBB, DLM | Laboratories Made Better!

32106 SNP! BAM! NEO! Using Proficiency Testing Data to Unlock Your Molecular Lab's Superpowers: An interactive session with the College of American Pathologists Molecular Oncology Committee

Moderator: Christina Lockwood, PhD, DABCC, DABMGG | University of Washington

Speaker(s):

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

- Top 22 Deficiencies in Molecular Oncology Accreditation Inspections
Nikoletta Sidiropoulos, MD | University of Vermont Medical Center

32107 The Toxicology Tool Kit: An Interactive, Case-Based Approach to Toxicology Investigations

Moderator: Nicholas Heger, PhD, C-ASCP, NRCC | Tufts Medical Center

Speaker(s):

- Unexpected Negatives
Nicholas Heger, PhD, C-ASCP, NRCC | Tufts Medical Center
- Unexpected Positives
Danyel Tacker, PhD, DABCC, FAACC | West Virginia University Hospitals

32108 Transforming Laboratory Medicine Through Mobile Health Technologies

Moderator: James Nichols, PhD, DABCC, FAACC | Vanderbilt University Medical Center

Speaker(s):

- A Future So Bright: Personalizing Laboratory Medicine Through Mobile Health
James Nichols, PhD, DABCC, FAACC | Vanderbilt University Medical Center
- Smart Technologies and Their Impact on the Digital Transformation of the Medical Laboratory
Frank Desiere, PhD, MBA | Roche

32110 Preanalytical Challenges of Blood, Sweat, and Urine Collection in Pediatric Populations

Moderator: Amy Pyle-Eilola, PhD | Nationwide Children's Hospital

Speaker(s):

- Initial Admission Laboratory Testing in Neonates Using Umbilical Cord Blood
Stefani Thomas, PhD, DABCC, NRCC | University of Minnesota
- Impact of Novel Urine Collection Devices and Techniques on Urine Chemistry Results
Amy Pyle-Eilola, PhD | Nationwide Children's Hospital
- Strategies in Improving Sweat Collection Rates
Khushbu Patel, PhD, DABCC, FAACC | Children's Hospital of Philadelphia

32111 New Accurate Plasma Biomarkers in Alzheimer's and Other Neurodegenerative Disease

Moderator: Hans Frykman, MD, PhD, FRCP(c) | University of British Columbia

Speaker(s):

- Development of Blood-Based Biomarkers in the Diagnosis of Alzheimer's Disease
Kaj Blennow, MD, PhD | University of Gothenburg
- The Latest Developments in Blood-Based Alzheimer's Disease Biomarkers
Henrik Zetterberg, MD, PhD | University of Gothenburg
- Early Experiences Using Blood-Based Alzheimer's Biomarkers in Clinical Trials and in the Clinic
Hans Frykman, MD, PhD, FRCP(c) | University of British Columbia

32221 Acid-Base and Blood Gas Interpretations, Treatment Strategies, and Morbidities in Patients with COVID-19 Acute Respiratory Distress Syndrome (ARDS)

Moderator: John Toffaletti, PhD, DABCC | Duke University Medical Center

Speaker(s):

- Mechanisms of Acid-Base and Blood Gas Disorders Applied to Monitoring Respiratory Failure and ARDS
John Toffaletti, PhD, DABCC | Duke University Medical Center

- Pathophysiology, Management, and Treatment of COVID-ARDS: Case Discussions with Utilization of Laboratory Test Results
Lingye (Nina) Chen, MD | Duke University Medical Center

32222 Laboratory Medicine's Role in Creating Equitable Clinical Laboratories: A Global Call to Action

Moderator: Octavia Peck-Palmer, PhD, FAACC | University of Pittsburgh Medical Center

Speaker(s):

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

32224 Lessons Learned: a Post-Gel Era for Paraproteinemia Analysis

Moderator: Xin Yi, PhD, DABCC, FAACC | Houston Methodist Hospital

Speaker(s):

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

32225 Patient-Based Real-Time Quality Control: Moving from Concept to Implementation

Moderator: Tony Badrick, PhD, MBA, FAACC | RCPAQAP

Speaker(s):

- An Introduction to Patient Based Real-Time Quality Control
Tony Badrick, PhD, MBA, FAACC | RCPAQAP
- Validation and Verification of PBRTQC
Mark Cervinski, PhD, DABCC, FAACC | Dartmouth-Hitchcock Medical Center
- Real World PBRTQC Applications: Benefits and Limitations
Mark Sharp, BS | Labcorp

32226 Practical Challenges with Implementation of Diagnostic Algorithms for Infectious Disease

Moderator: Neil Anderson, MD, DABMM | Washington University in St. Louis

Speaker(s):

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

32227 Psychedelics in Medicine: Macroeconomics, Microdoses, and the Laboratory Perception

Moderator: Steven Cotten, PhD, DABCC, NRCC, FAACC | University of North Carolina at Chapel Hill

Speaker(s):

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

32228 Social Media in Laboratory Medicine: How to Build Your Presence and Your Career

Moderator: Carey-Ann Burnham, PhD, ABMM | Pattern Bioscience/Washington University School of Medicine

Speaker(s):

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

32229 Updates on Chronic Kidney Disease Diagnosis: New Race Neutral eGFR, Measured GFR, and Urine Albumin-to-Creatinine Ratio

Moderator: Joe El-Khoury, PhD, DABCC, FAACC | Yale University

Speaker(s):

- Updates on Chronic Kidney Disease Diagnosis: New Race Neutral eGFR and Urine Albumin-to-Creatinine Ratio
Pradip Datta, PhD, DABCC | Siemens Healthcare Diagnostics
- Direct Measured GFR in Daily Clinical Practice
Jesse Seegmiller, PhD, DABCC | University of Minnesota

32230 Valid Vital LDTs: Current State of Regulation Legislation of Laboratory-Developed Tests

Moderator: Eric Konnick, MD | University of Washington

Panelists:

- Eric Konnick, MD | University of Washington
- Karen Kaul, MD, PhD | Evanston Hospital
- David Flannery, MD | Cleveland Clinic
- Dennis Dietzen, PhD, DABCC, FAACC | Washington University School of Medicine
- Jonathan Genzen, MD, PhD | ARUP Laboratories

32441 Albumin Harmonization: Impact on Serum, Urine, and Body Fluid Interpretation

Moderator: Darci Block, PhD, DABCC | Mayo Clinic

Speaker(s):

- Harmonization of Albumin Measurement Procedures Used for Serum and Urine
Lorin Bachmann, PhD, MT (ASCP), DABCC | Virginia Commonwealth University Health System
(Permission withheld by speaker)
- Performance of Assays to Quantify Body Fluid Albumin
Darci Block, PhD, DABCC | Mayo Clinic

32442 Cannabis and Driving: Biomarkers, Performance, and Officer Observations

Moderator: Robert Fitzgerald, PhD, DABCC, NRCC, FAACC | University of California, San Diego

Speaker(s):

- Effects of Cannabis on Driving Performance and User Perception of Safety
Thomas Marcotte, PhD | University of California, San Diego
- Officer Observations Combined with Toxicology Testing to Determine Impairment
Robert Fitzgerald, PhD, DABCC, NRCC, FAACC | University of California, San Diego

32443 Development of Effective Clinical Decision Support Tools for Laboratory Testing

Moderator: Ronald Jackups, MD, PhD | Washington University in St. Louis

Speaker(s):

- Where Do I Begin? Fundamentals of Clinical Decision Support Strategy and Design
Joseph Rudolf, MD | University of Utah and ARUP Laboratories
- Where Did I Go Wrong? Case Studies of Clinical Decision Support Challenges and Solutions
Ronald Jackups, MD, PhD | Washington University in St. Louis

32444 Leadership: Wherever You Go, There You Are

Moderator: Sara Love, PhD, DABCC | Siemens Healthineers (Permission withheld by speaker)

Speaker(s):

- Leadership: Introduction and Practical Outcomes
Sara Love, PhD, DABCC | Siemens Healthineers (Permission withheld by speaker)
- Coaching Tools for Stronger Communication
Joy Glasser, MAT, PCC | Glasser Group Inc.
- Social Engagement: Reading Beyond the Words
Jim Robinson, PhD | Consultant

32445 Optimizing Laboratory Workflows Using Information System Tools: Leveraging Middleware, Health Information, and Laboratory Information Systems to Enhance Patient Care

Moderator: Christina Pierre, PhD, DABCC | Penn Medicine Lancaster General Hospital

Speaker(s):

- Utilizing Empirical and Clinical Data to Design Middleware Rules for Managing Specimens with Preanalytical Issues
Christina Pierre, PhD, DABCC | Penn Medicine Lancaster General Hospital
- Leveraging the EPIC-Embedded Analytics Tool Slicer Dicer for Monitoring Lab Quality Indicators
Steven Cotten, PhD, DABCC, NRCC, FAACC | University of North Carolina at Chapel Hill

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

Moderator: Alan Wu, PhD | University of California, San Francisco

Speaker(s):

- Update on 2021 AACC Annual Scientific Meeting COVID-19 Immunology Sample Bank
Victoria Zhang, MBA, PhD, DABCC, FAACC | University of Rochester Medical Center
- CDC Guidelines for COVID-19 Antibody Testing in Serum
Jefferson Jones, MD, MPH, FAAP | Centers for Disease Control and Prevention

- Novel Serum Antibody Tests for COVID-19
Kara Lynch, PhD, DABCC, FAACC | University of California, San Francisco/Zuckerberg SFGH
Clinical Laboratories

32448 The Clinical Laboratory's Role in Ensuring Sample Quality Prior to Testing

Moderator: Joe El-Khoury, PhD, DABCC, FAACC | Yale University

Speaker(s):

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

32449 Should Race Be Included in the Diagnosis of Kidney Disease? Implications for Diabetes

Moderator: David Sacks, MB ChB, FACP, FRCPath | National Institutes of Health

Speaker(s):

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

32450 AACC Advocacy Special Session: Get the Inside Scoop on What is Happening on Capitol Hill from our Consultants

Moderator: Vince Stine, PhD | AACC

Speaker(s):

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

33101 AACC Guidance on the Use of Point-of-Care Testing in Fertility and Reproduction

Moderator: James Nichols, PhD, DABCC, FAACC | Vanderbilt University Medical Center

Speaker(s):

- Point-of-care Fertility Monitoring and Ovulation Prediction: Test Performance, Clinical Utility, and Emerging Devices
Li-Sheng Chen, PhD, DABCC, FACB |
- To Point-of-Care or Not: Where Should Pregnancy Testing Be Performed?
James Nichols, PhD, DABCC, FAACC | Vanderbilt University Medical Center
- Premature Rupture of Membrane (PROM) Testing: Clinical Utility and Performance
Hoi-Ying Yu, PhD, DABCC, FAACC | Geisinger Health System

33102 Addressing Preanalytical Issues for Blood Collection and Testing Outside Conventional Locations

Moderator: Alan Wu, PhD | University of California, San Francisco

Speaker(s):

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

33103 At the Heart of Sex and Gender

Moderator: Dina Greene, PhD, DABCC | LetsGetChecked

Speaker(s):

- At the Heart of Gender
Dina Greene, PhD, DABCC | LetsGetChecked
- At the Heart of Sex
Amy Saenger, PhD, DABCC, FAACC | Hennepin County Medical Center

33104 Clinical Chemistry Journal: Hot Topics in Molecular Diagnostics

Moderator: Nader Rifai, PhD, DABCC, FAACC | Harvard Medical School/Boston Children's Hospital

Speaker(s):

- Reflection on Major Advancements in Circulating Nucleic Acids Research
Yuk-Ming Lo, MD, PhD | The Chinese University of Hong Kong
- Reflection on Major Advancements in Nucleic Acids Amplification Technologies
Carl Wittwer, MD, PhD | University of Utah

33105 Considerations and Recommendation for Developing Machine Learning Models in Clinical Laboratory Medicine

Moderator: He Yang, MBBS, PhD, DABCC, FAACC | Weill Cornell Medicine

Speaker(s):

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

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

Moderator: David McClintock, MD | Mayo Clinic

Speaker(s):

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

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

33107 Guidelines for the Laboratory Detection of Monoclonal Gammopathies

Moderator: David Keren, MD, MS | University of Michigan

Speaker(s):

- Harmonization Need and Utility
Mohammad Ansari, MD | Louis Stokes Veterans Affairs Medical Center
- Techniques, Measurement, and Follow-up
David Keren, MD, MS | University of Michigan

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

Moderator: Lakshmi Ramanathan, PhD | Memorial Sloan-Kettering Cancer Center

Speaker(s):

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

33109 The Clinical Laboratory Workforce: Essential Before, Critical Now, and a Blueprint for a Stronger Future

Moderator: Bianca Frogner, PhD | University of Washington Center for Health Workforce Studies

Speaker(s):

- Strengthening the Clinical Lab Professional Workforce: The Roles and Concerns of Educators and Employers
Bianca Frogner, PhD | University of Washington Center for Health Workforce Studies
- Recruiting and Retaining a Qualified, Diverse Workforce: Challenges and Facilitators Faced by Clinical Lab Professionals
Edna Garcia, MPH | American Society for Clinical Pathology
- Creating A Blueprint for Action to Strengthen the Workforce of Clinical Laboratory Professionals
Edna Garcia, MPH | American Society for Clinical Pathology

33110 What's Wrong with These Results? Effects of Herbal Supplements on Clinical Laboratory Test Results and Patients

Moderator: Paul Jannetto, PhD, DABCC, MT (ASCP), FAACC | Mayo Clinic

Speaker(s):

- Herbal supplements: The Good, the Bad, and the Ugly using Real Clinical Case Reports.
Paul Jannetto, PhD, DABCC, MT (ASCP), FAACC | Mayo Clinic
- Treatment Failure Due to Drug-Herb Interactions and How Laboratory Results Can Predict Such Interactions
Amitava Dasgupta, PhD, DABCC | University of Kansas Medical Center

33111 Where Lab and Clinicians Converge: An Update on Primary Aldosteronism

Moderator: Daniel Holmes, MD, FRCPC | University of British Columbia/St. Paul's Hospital

Speaker(s):

- Advances in Primary Aldosteronism: A Clinician's Perspectives
Gregory Kline, MD | University of Calgary
- Advances in Primary Aldosteronism: A Laboratorian's Perspectives
Andrew Don-Wauchope, MBBCh, MD, FRCPE, FRCPath | McMaster University
- Primary Aldosteronism: The Patient Journey
Kelly-Anne Dypolt-O'Mahony | Canada Energy Regulator

33221 Addressing the Clinical Laboratory Staffing Crisis: Alternative Recruitment and Development Pathways for Clinical Laboratory Scientists

Moderator: David Shiembob, MBA, C (ASCP) CM | ARUP Laboratories

Speaker(s):

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

33222 Defining the Value of Next Generation Sequencing in Clinical Microbiology

Moderator: Patricia Simner, PhD, ABMM | Johns Hopkins University

Speaker(s):

- Finding Value in NGS Technologies for Clinical Microbiology
David Gaston, MD, PhD | Johns Hopkins Hospital [PERMISSION PENDING]
- Next-Generation Sequencing Approaches to Lower Respiratory Tract Infections
Patricia Simner, PhD, ABMM | Johns Hopkins University

33223 Machine Learning 101: Opening Opportunities for Laboratory Stewardship

Moderator: Maximo Marin, MD | University of Florida

Speaker(s):

- When Laboratory Stewardship is Hard to Enforce, Let the Data Speak for Itself
Allison Chambliss, PhD, DABCC, FAACC | Keck School of Medicine of the University of Southern California
- A Bit (0 or 1) of Information on Developing Decision Trees in the Clinical Laboratory
Maximo Marin, MD | University of Florida
- Test Stewardship in the Digital Age: Leveraging Data Analytics and Artificial Intelligence
Thomas Durant, MD | Yale School of Medicine

33225 Point-of-Care Testing: Meeting Patient Needs in New Ways

Moderator: James Nichols, PhD, DABCC, FAACC | Vanderbilt University Medical Center

Speaker(s):

- A New World for Point-of-Care Testing
James Nichols, PhD, DABCC, FAACC | Vanderbilt University Medical Center

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

33227 Selecting Suitable Indicators to Monitor the Pre- and Post-Analytical Performance of Genomics Assays

Moderator: Andrea Ferreira-Gonzalez, PhD | Virginia Commonwealth University

Speaker(s):

- Development and Implementation of Quality Control Programs for NGS Based Assays
Andrea Ferreira-Gonzalez, PhD | Virginia Commonwealth University
- Using Quality Indicators to Understand Trends and Deviations in Genomic Assays
Helen Fernandes, PhD, ABB, DABCC | Columbia University Irving Medical Center

33228 So You Want to Buy a Mass Spectrometer?

Moderator: Melissa Budelier, PhD, DABCC | TriCore Reference Laboratories

Speaker(s):

- Mass Spectrometry in the Clinical Laboratory: One Size Does Not Fit All
Melissa Budelier, PhD, DABCC | TriCore Reference Laboratories
- Obtaining Stakeholder Buy-in and Selecting the Right Mass Spectrometer for Your Application: From Idea to Installation
Adina Badea, PhD, DABCC | Rhode Island Hospital / Brown University
- From Development to Production: Assuring Quality for LC-MS/MS Clinical Methods
Kara Lynch, PhD, DABCC, FAACC | University of California, San Francisco/Zuckerberg SFGH Clinical Laboratories

33229 The New Normal: “Speed Dating” with Peers to Identify How to Approach Reference Interval Studies in the Clinical Laboratory

Moderator: Jane Dickerson, PhD, DABCC | Seattle Children's Hospital

Speaker(s):

- Ordinary People: Requirements for Reference Range Validation and Verification for Adult Populations
Mark Marzinke, PhD, DABCC, FAACC | Johns Hopkins University
- The Kids Are Alright: Approaches to Pediatric Reference Range Validation and Verification
Jane Dickerson, PhD, DABCC | Seattle Children's Hospital
- Fantastic Fluids and Where to Find Them: The Challenges of Body Fluid Reference Intervals for the Laboratory
Alec Saitman, PhD, DABCC | Providence Regional Laboratories

33230 Unusual Toxicology: Interpreting Complex Cases Involving Urine, Umbilical Cord, Meconium, and Hair Samples

Moderator: Jacqueline Hubbard, PhD, DABCC | QualiTox Laboratories

Speaker(s):

- Urine Trouble: Interpreting Complex Urine Toxicology Cases
Joe El-Khoury, PhD, DABCC, FAACC | Yale University
- In Utero Drug Exposure: The Scoop on Umbilical Cord and Poop (Meconium)
Kamisha Johnson-Davis, PhD, DABCC (CC,TC), FAACC | ARUP Laboratories/University of Utah School of Medicine

- Shaving the Day with Hair Toxicology Testing
Jacqueline Hubbard, PhD, DABCC | QualiTox Laboratories

33231 Xenotransplantation of a Porcine Heart to a Human: A New Era Begins

Moderator: Robert Christenson, PhD, DABCC, FAACC, FACC | University of Maryland School of Medicine

Speaker(s):

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

33232 Laboratory Testing for the Assessment of Preterm Delivery: A Summary of the AACC Academy Guidance Document

Moderator: Robert Nerenz, PhD, DABCC | Dartmouth-Hitchcock Medical Center

Speaker(s):

- The Impact of Preterm Delivery on Maternal and Neonatal Health
Erin Bailey, MD | University of Wisconsin-Madison
- Strengths and Limitations of Fetal Fibronectin
Christopher Farnsworth, PhD, DABCC | Washington University in St. Louis
- Beyond Fetal Fibronectin: In Search of New Predictors of Preterm Birth
Robert Nerenz, PhD, DABCC | Dartmouth-Hitchcock Medical Center

33233 Laboratory and Clinical Medicine Consultative Case Interpretations Involving High Sensitivity Cardiac Troponin Testing

Moderator: Fred Apple, PhD, DABCC | Hennepin Healthcare/Hennepin County Medical Center

Speaker(s):

- Case Presentations and Interpretation from Laboratory Medicine
Fred Apple, PhD, DABCC | Hennepin Healthcare/Hennepin County Medical Center
- Case Presentations and Interpretation from Cardiology
Allan Jaffe, MD | Mayo Clinic
- Case Presentations and Interpretations from Emergency Medicine
Stephen Smith, MD | Hennepin Healthcare

34101 AACC Healthcare Forum: How to Transform Laboratory Medicine with Data Interoperability

Moderator: Robert Benirschke, PhD, DABCC | Northshore University Health System

Speaker(s):

- SHIELD: A Pathway Moving Forward
Hung Luu, MD, PharmD | University of Texas Southwestern Medical Center
- How Can Harmonization of Laboratory Data Improve the Practice of Laboratory Medicine
Daniel Herman, MD, PhD | University of Pennsylvania

34102 An Overview of Traumatic Brain Injury: Clinical and Laboratory Presentation, Diagnosis, and Monitoring

Moderator: Pradip Datta, PhD, DABCC | Siemens Healthcare Diagnostics

Speaker(s):

- Laboratory Diagnostics of Acute TBI
Pradip Datta, PhD, DABCC | Siemens Healthcare Diagnostics

- So You Got Banged in the Head? Now What's Your Doc Gonna Do?
Frank Peacock, MD, FACEP, FACC, FESC | Baylor College of Medicine
- Laboratory Diagnostics and Novel Research in TBI Markers
Alan Wu, PhD | University of California, San Francisco

34103 Becoming an Ally and Advocate: A Panel Discussion for Diversity, Equity, and Inclusion in Laboratory Medicine

Moderator: Zahra Shajani-Yi, PhD, DABCC, FAACC, NRCC | Labcorp

Speaker(s):

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

34104 Challenges to Consider when Bringing in New Mass Spectrometry-Based Testing

Moderator: Jacqueline Hubbard, PhD, DABCC | QualiTox Laboratories

Speaker(s):

- Point/Counterpoint Speaker
Jacqueline Hubbard, PhD, DABCC | QualiTox Laboratories
- Point/Counterpoint Speaker
Adina Badea, PhD, DABCC | Rhode Island Hospital / Brown University
- Point/Counterpoint Speaker
Mark Cervinski, PhD, DABCC, FAACC | Dartmouth-Hitchcock Medical Center

34105 Developing Laboratory Data-Based Processing Including Use of Machine Learning Models Towards Clinical Decision Support

Moderator: Sedef Yenice, PhD, MBA | Gayrettepe Florence Nightingale Hospital

Speaker(s):

- Embracing Data Analytics and Machine Learning Models for Data-Driven Laboratory Operations
Deniz Topcu, MD, PhD | Baskent University
- The Increasing Value of Laboratory Results Within Machine Learning-Assisted Clinical Decision Support Tools
Hikmet Can Cubukcu, MD | Turkish Ministry of Health
- An Overview on Data-Based Processing in the Clinical Laboratory
Sedef Yenice, PhD, MBA | Gayrettepe Florence Nightingale Hospital

34106 Genomic Prescribing: Implementation of Pharmacogenomic (PGx) Testing and Results Delivery Programs Across Major Academic Medical Systems

Moderator: KT Jerry Yeo, PhD, DABCC, FAACC | The University of Chicago

Speaker(s):

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

34107 Implementing New Technology for Detecting Microorganisms Associated with Pneumonia and Bloodstream Infection

Moderator: Carey-Ann Burnham, PhD, ABMM | Pattern Bioscience/Washington University School of Medicine

Speaker(s):

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

34108 JALM Hot Topics: Current Practice and Future Promise of Immunology Laboratory Medicine

Moderator: Vathany Kulasingam, PhD, FCACB | University Health Network/University of Toronto

Speaker(s):

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

34109 Let Me Show You the Data! A Showcase of Clinical Laboratory Dashboards

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

Speaker(s):

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

34110 Oxygenation Challenges: Red Blood, Brown Blood, and Bitter Almonds - The Pathophysiology of Carboxyhemoglobin, Methemoglobin, and Cyanide Poisoning

Moderator: William Winter, MD, DABCC, FAACC | University of Florida

Speaker(s):

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

34111 Testing Strategies for Detecting Pediatric Drug Exposure: A Case Based Discussion

Moderator: Kara Lynch, PhD, DABCC, FAACC | University of California, San Francisco/Zuckerberg SFGH Clinical Laboratories

Speaker(s):

- A Case-Based Discussion of Approaches for the Detection of Drug Exposure in Pediatrics
Kara Lynch, PhD, DABCC, FAACC | University of California, San Francisco/Zuckerberg SFGH Clinical Laboratories
- Moving beyond Immunoassays: A Laboratory's Experience with Direct-to-Mass Spectrometry Drug Testing for Pediatric Patients
Stephen Roper, PhD | Washington University School of Medicine

34221 Cardiovascular Risk Assessment Update: Clinical Utility of Lipids, Lipoproteins, and Genetic Panels

Moderator: Jeff Meeusen, PhD, DABCC | Mayo Clinic

Speaker(s):

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

34222 Chemistry Confessions: Constructive Conflict Resolution with Case Studies

Moderator: William Clarke, PhD, MBA, DABCC, FAACC | Johns Hopkins University School of Medicine

Speaker(s):

- Strategies for Effective Management of Conflict and Difficult Conversations
William Clarke, PhD, MBA, DABCC, FAACC | Johns Hopkins University School of Medicine
- Conflict in Organizational Behavior: Causes, Consequences, and Confessions
Jane Dickerson, PhD, DABCC | Seattle Children's Hospital

34223 Clinical Assay Issues: What Endocrinologists Will Ask You

Moderator: David Sacks, MB ChB, FACP, FRCPath | National Institutes of Health

Speaker(s):

- What Should the Serum Cortisol Cutoffs Be for ACTH Stimulation Tests?
Hershel Raff, PhD, FAAAS, FAPS | Medical College of Wisconsin/Aurora St. Luke's Medical Center

- Anti-Mullerian Hormone to Assess Ovarian Reserve
Richard Legro, MD | Penn State University [PERMISSION PENDING]
- Steroid Mass Spectrometry Panels to Diagnose Adrenocortical Cancer
Irina Bancos, MD | Mayo Clinic

34224 Do Pediatric Reference Intervals Reflect the Development of Healthy Children?

Moderator: Dennis Dietzen, PhD, DABCC, FAACC | Washington University School of Medicine

Speaker(s):

- Current State of Pediatric Reference Intervals
Alicia Lyle, PhD | Centers for Disease Control and Prevention
- Developmental Biochemistry: How do Reference Intervals Capture Normal Child Development.
Dennis Dietzen, PhD, DABCC, FAACC | Washington University School of Medicine

Panelists:

- Hubert Vesper, PhD | Centers for Disease Control and Prevention
- Edward Wong, MD | Quest Diagnostics Inc.
- Alicia Lyle, PhD | Centers for Disease Control and Prevention
- Dennis Dietzen, PhD, DABCC, FAACC | Washington University School of Medicine

34225 Aplicaciones Básicas De Espectrometría De Masa: Ejemplos Prácticos (Presentado En Español)

Moderator: Veronica Luzzi, PhD, DABCC | TriCore Research Institute

Speaker(s):

- Espectrometría de Masa Para El Laboratorio Clínico: Del Fundamento a las Aplicaciones Clínicas
Veronica Luzzi, PhD, DABCC | TriCore Research Institute
- Implementación De Espectrometría De Masas En Un Hospital Pediátrico
Van Leung-Pineda, PhD, DABCC | Children's Healthcare of Atlanta
- Aspectos Prácticos De La Implementación De Espectrometría De Masas En El Laboratorio Clínico
Jessica Colon-Franco, PhD, DABCC | Cleveland Clinic

34226 Neonatal Drug Testing: Pick Your Candidate!

Moderator: Heather Stieglitz, PhD, DABCC | Ohio State University Medical Center

Speaker(s):

- Neonatal Abstinence Syndrome and the Role of Drug Testing: Take it from a Newborn Nursery Provider
Anna Morad, MD, FAAP | Vanderbilt University Medical Center
- The Incumbent: Meconium Testing
Jennifer Colby, PhD, DABCC, FAACC | Labcorp St. Paul (Permission withheld by speaker)
- The Challenger: Cord Testing
Gwendolyn McMillin, PhD, DABCC | ARUP Laboratories/University of Utah School of Medicine

34227 Optimal Testing: AACC's Guide to Lab Test Utilization

Moderator: Yusheng Zhu, PhD, DABCC | Penn State University Hershey Medical Center

Speaker(s):

- Introduction to AACC's Guide to Lab Test Utilization
Yusheng Zhu, PhD, DABCC | Penn State University Hershey Medical Center
- Appropriate Use of Testosterone and Estrogen Testing in Special Populations
Amy Pyle-Eilola, PhD | Nationwide Children's Hospital

- Is IgG Food Allergen Testing Appropriate for Food Allergy Diagnosis?
Fang Wu, PhD, DABCC, FAACC | Saskatoon Health District
- Lab Test Utilization of Vitamins
Lusia Sepiashvili, PhD, DABCC, FCACB | The Hospital for Sick Children
- Appropriate Tests to Assess Thyroid Function
Octavia Peck-Palmer, PhD, FAACC | University of Pittsburgh Medical Center

34228 Take It to the Databank! Establishing, Transferring, and Verifying Reference Intervals Using Modern Indirect Methods

Moderator: Kelly Doyle, PhD, DABCC, FAACC | ARUP Laboratories

Speaker(s):

- Data Filtering and Wrangling: Considerations for Indirect Reference Intervals
Dustin Bunch, PhD, DABCC | Nationwide Children's Hospital
- Overview, Application, and Evaluation of Modern Indirect Reference Interval Methods
Kelly Doyle, PhD, DABCC, FAACC | ARUP Laboratories
- refineR: Discussion and Demonstration of a State-of-the-Art Indirect Method
Christopher Rank, PhD | Roche Diagnostics GmbH

34229 Understanding the Current Expansion of Molecular Point-of-Care Testing in the Clinical Laboratory and at the Point-of-Care

Moderator: Jamie Acero, MHA, CPP | University of Pittsburgh Medical Center

Speaker(s):

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

35101 AACC Academy Scientific Shorts Hot Topics: Answers to the Questions You Were Afraid to Ask

Moderator: Thomas Kampfrath, PhD, DABCC, NRCC, FAACC | Siemens Healthineers

Speaker(s):

- BNP or NT-proBNP: Are These Tests Interchangeable?
Christopher Farnsworth, PhD, DABCC | Washington University in St. Louis
- Should Labs Report a Corrected Sodium?
William Winter, MD, DABCC, FAACC | University of Florida
- What Is Pseudohyperkalemia and What Should Labs Do About It?
Thomas Kampfrath, PhD, DABCC, NRCC, FAACC | Siemens Healthineers

35102 Drug Screening and Confirmatory Testing in Clinical Practice: Practical Interpretive Guidance and Public Health Considerations

Moderator: Hsuan-Chieh Liao, PhD, NRCC, DABCC | University of Washington

Speaker(s):

- Drug Screening in Clinical Practice: A Practical Guide to Tackling a Mess
Alec Saitman, PhD, DABCC | Providence Regional Laboratories
- Drug Confirmatory Assays, Interpretation, and Case Discussions
Hsuan-Chieh Liao, PhD, NRCC, DABCC | University of Washington

35103 Gut Check: Lab Evaluation of Celiac Disease, Inflammatory Bowel Disease, and Irritable Bowel Syndrome

Moderator: Lusya Sepiashvili, PhD, DABCC, FCACB | The Hospital for Sick Children

Speaker(s):

- Laboratory Testing and Clinical Diagnosis of Celiac Disease: What's New and What's Next?
Vijayalakshmi Viji Nandakumar, PhD, DABCC | ARUP Laboratories
- pANCA and ASCA in the Diagnostic Evaluation of IBD: Are They Still Clinically Relevant?
Stacy Kenyon, PhD, DABCC, NRCC | Labcorp
- The Benefits and Limitations of Fecal Calprotectin Results
Lisa Johnson, PhD, DABCC | Seattle Children's Hospital

35104 Leveraging Informatics, Analytics, and Machine Learning to Improve Patient Care: Examples for Everyone

Moderator: Sarah Wheeler, PhD, FAACC | University of Pittsburgh Medical Center

Speaker(s):

- Informatics and Information Technology Tools for Point-of-Care Testing Governance
Edward Leung, PhD, DABCC, FAACC | Children's Hospital Los Angeles
- Lessons Learned in Autoverification in the Core Clinical Laboratory
Darci Block, PhD, DABCC | Mayo Clinic
- Using Basic Machine Learning to Improve and Personalize Laboratory Testing
Sarah Wheeler, PhD, FAACC | University of Pittsburgh Medical Center

35105 Molecular Diagnostic Approaches to Navigating Healthcare Obstacles in Intersex and Transgender Patients

Moderator: Jude Abadie, DABCC, DABMG, FAACC, FACMG | Texas Tech University Health Sciences Center

Speaker(s):

- Social Challenges and Advocacy in Transgender, Intersex, and Non-binary Patients
Julie Papango, MLS(ASCPi)CM | Albany Medical Center/Doctors without borders
- Molecular Mechanisms Resulting Syndromic Conditions That Can Lead to Alternate Gender Assignments
Jude Abadie, DABCC, DABMG, FAACC, FACMG | Texas Tech University Health Sciences Center
- Overcoming Molecular Diagnostic Obstacles in Transgender and Intersex Populations
Jeffrey SoRelle, MD | UT Southwestern Medical Center

35106 Perspectives on Quality Control Challenges in the Clinical Laboratory

Moderator: Andy Quintenz | Bio-Rad

Panelist(s):

- David Grenache, PhD, DABCC, MT (ASCP) | TriCore Reference Laboratories
- Nikola Baumann, PhD, DABCC | Mayo Clinic
- T. Scott Isbell, PhD, DABCC, FAACC | Saint Louis University School of Medicine
- Lorin Bachmann, PhD, MT (ASCP), DABCC | Virginia Commonwealth University Health System

35107 Recommendations for Use of Free Testosterone in Patient Care: A Challenge for the Laboratory

Moderator: Hui Zhou, PhD | Centers for Disease Control and Prevention

Speaker(s):

- Clinical Practice Guidelines for Treating Men with Testosterone Deficiency: A Physician Perspective
Abraham Morgentaler, MD, FACS | Men's Health Boston
- Challenges in Free Testosterone Measurements: A Laboratory Perspective
Ravinder Singh, PhD, DABCC | Mayo Clinic
- Overcoming Challenges in Free Testosterone Measurements to Meet Clinical Needs
Hui Zhou, PhD | Centers for Disease Control and Prevention