



Better health through  
laboratory medicine.

## 2021 AACC Annual Scientific Meeting & Clinical Lab Expo Session Recordings Listing

Sessions as presented September 26 – 30, 2021 at the Georgia World Congress Center

Below are sessions presented at the 2021 AACC Annual Scientific Meeting & Clinical Lab Expo. When possible, sessions are available as part of the 2021 AACC Session Recordings. Specific listing of the videos included in the full 2021 AACC Session Recordings are below.

To purchase 2021 AACC Session Recordings, visit [aacc.org](https://aacc.org). 2021 AACC Session Recordings will be available starting **November 2, 2021** and accessible through September 30, 2022.

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### PLENARY AND MEETING-THE-EXPERT SESSIONS

#### 11001 Artificial Intelligence in the Clinic: Strengths, Weaknesses, and Opportunities

- Regina Barzilay, PhD | Massachusetts Institute of Technology (Wallace H. Coulter Lectureship Award Winner)

#### 62001 Artificial Intelligence in the Clinic: Strengths, Weaknesses, and Opportunities

Meet the Expert Session

- Moderator: Dennis Dietzen, PhD, DABCC, FAACC | Washington University School of Medicine
- Speaker: Regina Barzilay, PhD | Massachusetts Institute of Technology

#### 12001 COVID-19: Vaccines and the Tango of Viral Evolution and Host Immune Responses

- Margaret Liu, MD, DSchc, MDhc, FISV | Pax Therapeutics

#### 62002 COVID-19: Vaccines and the Tango of Viral Evolution and Host Immune Responses

Meet the Expert Session

- Moderator: Patricia Jones, PhD, DABCC, FAACC | University of Texas Southwestern
- Speaker: Margaret Liu, MD, DSchc, MDhc, FISV | Pax Therapeutics

#### 13001 The Remarkable Journey from Bench to Bedside: Changing Lives of Individuals with Cystic Fibrosis

- Bonnie Ramsey, MD | Seattle Children's
- Caley Mauch | Cystic Fibrosis Foundation Public Speaker

#### 63001 The Remarkable Journey from Bench to Bedside: Changing Lives of Individuals with Cystic Fibrosis

Meet the Expert Session

- Moderator: Dennis Dietzen, PhD, DABCC, FAACC | Washington University School of Medicine
- Speakers:
  - Caley Mauch | Cystic Fibrosis Foundation Public Speaker
  - Bonnie Ramsey, MD | Seattle Children's

**14001 Curating and Documenting Research During Chaos: Lessons from COVID-19 and Beyond**

- Holden Thorp, PhD | American Association for the Advancement of Science

**64001 Curating and Documenting Research During Chaos: Lessons from COVID-19 and Beyond**

Meet the Expert Session

- Moderator: Dennis Dietzen, PhD, DABCC, FAACC | Washington University School of Medicine
- Speaker: Holden Thorp, PhD | American Association for the Advancement of Science

**15001 Clinical Translation of Engineered Microsystems: From COVID-19 to Hematology and Hemostasis**

- Wilbur Lam, MD, PhD | Emory University/Georgia Institute of Technology

**65001 Clinical Translation of Engineered Microsystems: From COVID-19 to Hematology and Hemostasis**

Meet the Expert Session

**Recording not available due to technical difficulties.**

- Moderator: Dennis Dietzen, PhD, DABCC, FAACC | Washington University School of Medicine
- Speaker: Wilbur Lam, MD, PhD | Emory University/Georgia Institute of Technology

## **SPECIAL SESSIONS**

### **11002 The Role of Journalism in the Analysis and Dissemination of Pandemic-Related Data Through the Lens of the COVID Tracking Project**

#### **Sunday Special Session**

**Moderator:** Dina Greene, PhD, DABCC | Kaiser Washington

**Speaker:**

- Alexis Madrigal | The Atlantic

### **12002 AACC Disruptive Technology Award Competition**

**Moderator:** Khushbu Patel, PhD, DABCC, FAACC | Children's Hospital of Philadelphia

### **32104 New Technologies and Innovations to Improve the Clinical Laboratory (AMOC Chair Invited Session)**

#### **AMOC Chair Invited Session**

**Moderator:** Nathalie Lepage, PhD, FCCMG, FCACB | Newborn Screening Ontario/Children's Hospital of Eastern Ontario/University of Ottawa

**Speaker(s):**

- Innovation from 3D Printing and Its Current and Future Impact in Healthcare and the Clinical Laboratories  
Danielle L.V. Maracaja, MD | Wake Forest School of Medicine
- Innovation to Improve Patient Care in Laboratory Medicine with the Use of Drones for Specimen Transportation  
Timothy Amukele, PhD, MD | ICON Clinical Research

### **32444 Measurably Better Healthcare: Elite Winners from the UNIVANTS of Healthcare Excellence Awards Share Their Collaborative, Practice-Based Efforts that Transformed Healthcare Delivery**

#### **Immediate Past President Invited Session**

**Moderator:** David Grenache, PhD, DABCC, MT(ASCP), FAACC | Tricore Reference Laboratories

**Speaker(s):**

- Early Diagnosis and Improved Management of Patients with Diabetes through Strategic and Automated Test Algorithms via Primary Care  
Maria Salinas, PhD | Hospital Universitario de San Juan
- Kidney Check: The Next Generation of Surveillance for Hypertension, Diabetes and Chronic Kidney Disease  
Paul Komenda, MD, MHA | University of Manitoba
- Reducing Patient Risk and Enhancing Care through the Development and Implementation of a New Chest Pain Pathway, Expedited by and for the COVID-19 Era  
Martin Than, MD | Christchurch Hospital

**35107 Bringing Laboratory Testing Closer to the Patient: The Good, the Bad and the Ugly (CSCC President Invited Session)**

**CSCC President Invited Session**

**Moderator:** Edward Dunn, PhD, FCACB | Dynacare

**Speaker(s):**

- From Glucose to COVID-19 Testing: Can We Build Unified POCT Programs for Patients in Alberta?  
Allison Venner, PhD, FCACB | Alberta Precision Laboratories
- Point-of-Care Testing as a Tool for Equitable Access to Quality Healthcare: The Case of Kidney Screening in Remote Communities  
AbdulRazaq Sokoro, PhD, FAACC | Shared Health Inc.

## SCIENTIFIC SESSIONS

### **32101 Activation and Inhibition of the Coagulation Cascade: What's New in Diagnostics and Therapeutics?**

Scientific Session (1.5-hour)

**Moderator:** Rita Selby, MD, MSc, FRCP(c) | University Health Network/Sunnybrook Health Sciences Centre, University of Toronto

**Speaker(s):**

- “TEG Talk“: Expanding Clinical Roles for Viscoelastic Testing (TEG and ROTEM)  
Rita Selby, MD, MSc, FRCP(c) | University Health Network/Sunnybrook Health Sciences Centre, University of Toronto
- The New Era of Direct Oral Anticoagulants: Updates from the Clinic and the Coagulation Lab  
Jameel Abdulrehman, MD, FRCPC | University of Toronto

### **32103 Biomarkers of Ethanol Consumption: Clinical Utility and Ethical Considerations for Testing**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- Ethical Considerations in Clinical Laboratory Testing for Ethanol Consumption  
Melissa Budelier, PhD, DABCC | TriCore Reference Laboratories
- Updates on Biomarkers of Ethanol Consumption  
Stephen Roper, PhD, DABCC | Washington University School of Medicine

### **32105 Recommendations for Natriuretic Peptides in Heart Failure: Analytics and Clinical Consideration**

Scientific Session (1.5-hour)

**Moderator:** Peter Kavsak, PhD | Juravinski Hospital and Cancer Centre

**Speaker(s):**

- Appropriate Use and Analytical Performance of Natriuretic Peptides Assays  
Peter Kavsak, PhD | Juravinski Hospital and Cancer Centre
- Clinical Aspects of Natriuretic Peptides with a Focus on Heart Failure  
Allan Jaffe, MD | Mayo Clinic

### **32106 Conventional and Modern Approaches To Assessing Pediatric Growth Hormone Deficiency**

Scientific Session (1.5-hour)

**Moderator:** Amy Pyle-Eilola, PhD | Nationwide Children's Hospital/The Ohio State University Wexner Medical Center

**Speaker(s):**

- Analytical Considerations in Assessing Growth Hormone  
Amy Pyle-Eilola, PhD | Nationwide Children's Hospital/The Ohio State University Wexner Medical Center
- New Approaches to Measuring Growth Hormone and IGF1  
Dustin Bunch, PhD, DABCC | Nationwide Children's Hospital
- Pediatric Growth Hormone Deficiency: A Clinician's Perspective  
Rohan Henry, MS, MD | Nationwide Children's Hospital

**32107 Guidelines for Laboratory Analysis in the Diagnosis and Management of Diabetes Mellitus: 2021 Revision**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- Autoimmune Markers  
Ake Lernmark, MD | University of Washington
- Continuous Glucose Monitoring: State of the Art in 2021  
M. Sue Kirkman, MD | University of North Carolina
- Highlights of Updated Laboratory Medicine Guidelines for Diabetes  
David Sacks, MB ChB, FACP, FRCPath | National Institutes of Health

**32109 The Promises and Challenges of Cannabinoids and the Impact on Laboratory Medicine**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- The Promises and Challenges of Cannabinoids and the Impact on Laboratory Medicine  
Marilyn Huestis, AB, MS, PhD, Honoris causa | Institute of Emerging Health Professions

**32221 Case Studies in the Use of Emerging Technologies in Pediatric Laboratory Medicine**

Scientific Session (1.5-hour)

**Moderator:** Joely Straseski, PhD, MT(ASCP), DABCC, FAACC | University of Utah/ARUP Laboratories

**Speaker(s):**

- Identification of Congenital or Acquired Pseudohypoaldosteronism Using Mass Spectrometry  
Daniel Holmes, MD | University of British Columbia
- Optimizing Workflows for Low-Volume, Clinically Urgent Testing: Automated Reports for Serum HVA/VMA Orders  
Jane Dickerson, PhD, DABCC | Seattle Children's Hospital
- The Use of Untargeted Metabolomics for the Investigation of Inborn Errors of Metabolism  
Roy Peake, PhD, DABCC | Boston Children's Hospital

**32222 Current Use of Thyroid Function Tests and Work to Improve Their Comparability and Reliability**

Scientific Session (1.5-hour)

**Moderator:** Uliana Danilenko, PhD | Centers for Disease Control and Prevention

**Speaker(s):**

- Clinical Practice Guidelines for Treating Patients with Thyroid Diseases: A Lab Perspective  
Gregory Brent, MD | University of California-David Geffen School of Medicine at UCLA
- Implementation of National and International Standardization of Thyroid Function Test  
Hubert Vesper, PhD | Centers for Disease Control and Prevention
- Preanalytical and Analytical Challenges of Thyroid Function Biomarkers Testing  
Alicia Algeciras-Schimnich, PhD, DABCC | Mayo Clinic

### **32223 Drug Checking: Using Mass Spectrometry and Novel Rapid Mobile Devices to Reduce Opioid Overdoses**

Scientific Session (1.5-hour)

**Moderator:** Daniel Beriault, PhD, FCACB | St Michael's Hospital

**Speaker(s):**

- Drug Checking: Novel Portable Device to Help Reduce Opioid Overdoses  
Daniel Beriault, PhD, FCACB | St Michael's Hospital
- Drug Checking: Using Mass Spectrometry to Reduce Opioid Overdoses  
Cristiana Stefan Bodea, PhD, DABCC, FAACC | Centre for Addiction and Mental Health, Clinical Laboratory
- The Overdose Crisis and Harm Reduction Strategies  
Karen McDonald, MPPAL | St. Michael's Hospital

### **32224 Strategies for Enhancement of Laboratory Medicine in Africa**

Scientific Session (1.5-hour)

**Moderator:** Anthony Okorodudu, PhD, MBA, SC(ASCP), DABCC, NRCC, FAACC | The University of Texas Medical Branch

**Speaker(s):**

- Designing Training Methods for Laboratory Medicine in Developing Countries  
Jeannette Guarner, MD | Emory University
- Laboratory Medicine in Cameroon: A Proposal to Improve Training and Competency Assessments (**Permission withheld by speaker**)  
Anne Tebo, PhD, ABMLI | Mayo Clinic
- Nigerian Proficiency Training Initiative: A Preliminary Report  
Anthony Okorodudu, PhD, MBA, SC(ASCP), DABCC, NRCC, FAACC | The University of Texas Medical Branch

### **32225 What's New in Acute Kidney Injury? Biomarker, Artificial Intelligence, Onco-Nephrology and Cases**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- Emerging Sources of Hospitalized Acute Kidney Injury  
Anitha Vijayan, MD | Washington University School of Medicine
- Identifying Acute Kidney Injury Risk through Biomarkers and Artificial Intelligence  
Jay Koynier, MD | University of Chicago Medicine
- Laboratory Perspective of Acute Kidney Injury Biomarkers  
KT Jerry Yeo, PhD, DABCC, FAACC | The University of Chicago

**32227 Understanding Adaptive Immune Response to SARS-CoV-2: Applications in Clinical Practice, Public Health, and Vaccine Studies**

Scientific Session (1.5-hour)

**Moderator:** Danijela Konforte, PhD, FCACB | Lifelabs

**Speaker(s):**

- “Stop the Spread Ottawa”: A 10-month Longitudinal Analysis of Antibody Neutralization Efficiency and Cellular Immunity in SARS-CoV-2 Individuals  
Ronald Booth, PhD, FCACB, FAACC | The Ottawa Hospital
- Overview of Adaptive Immune Response to SARS-CoV-2: Kinetics, Associations with Disease Severity, Roles in Protective Immunity  
Danijela Konforte, PhD, FCACB | Lifelabs
- SARS-CoV-2 Serology/Antibody, Antigen, and Functional Assays: Review of Guidance Documents for Clinical Practice, Public Health, and Clinical Laboratories  
Dana Bailey, PhD | Dynacare

**32228 Women in Laboratory Medicine: A Panel Discussion on Diversity and Inclusion**

Scientific Session (1.5-hour)

**Moderators:**

- Zahra Shajani-Yi, PhD, DABCC, FAACC, NRCC-CC | LabCorp San Diego
- Nadia Ayala-Lopez, PhD, MLS(ASCP), DABCC, NRCC | LabCorp Drug Development

**Panelists:**

- M. Laura Parnas, PhD, DABCC | Roche Diagnostics Corporation
- Octavia Peck Palmer, PhD, FAACC | University of Pittsburgh Medical Center
- Lakshmi Ramanathan, PhD | Memorial Sloan-Kettering Cancer Center

**32230 Advances in Tuberculosis Screening and Testing**

Scientific Session (1.5-hour)

**Moderator:** L.V. Rao, PhD, FAACC | Quest Diagnostics, North Region/University of Massachusetts Medical School

**Speaker(s):**

- Challenges in Clinical Diagnosis and Treatment of Active and Latent Tuberculosis  
Charles Horsburgh, MD | Boston University School of Public Health
- Laboratory Diagnosis of Latent Tuberculosis Infection and Its Clinical Utility  
L.V. Rao, PhD, FAACC | Quest Diagnostics, North Region/University of Massachusetts Medical School

**32441 Clinical Problems in Oxygenation, Hemoglobin, and Dyshemoglobinemias**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- Causes and Pathophysiology of Hypoxemia including SARS-CoV-2 Pneumonia, Carboxyhemoglobinemia, and Methemoglobinemia  
William Winter, MD, DABCC, FAACC | University of Florida
- Dyshemoglobinemias and Polycythemia  
Neil Harris, MBCh, MD, FAACC | University of Florida



**32442 Connective Tissue Diseases, Lupus, and dsDNA Testing: Updates in Diagnosis and Testing**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- Case Studies in Connective Tissue Diseases  
Danyel Tacker, PhD, DABCC, FAACC | West Virginia University
- Making the Case for Standardization of ANA Sub-Serology Testing ☐ Multicenter dsDNA Correlation Study of Five Methods  
Sarah Wheeler, PhD | University of Pittsburgh Medical Center
- The Pivotal Role of Laboratory Testing in Diagnosing Systemic Lupus Erythematosus  
Rajeevan Selvaratnam, PhD, DABCC, NRCC, FAACC | University Health Network/Toronto General Hospital

**32443 Innovative Approaches to the Design, Building, and Renovating of a Clinical Laboratory**

Scientific Session (1.5-hour)

**Moderator:** Jennifer Baccon, PhD, MD, MHCM | Akron Children's Hospital

**Speaker(s):**

- Eliminating Wastes in Lab Design and Encouraging Divergent Thinking Through Lean Principles  
Andrew Rearick, MLS, ASCP | Akron Children's Hospital
- Optimizing Design and Construction in Complex Laboratory Settings  
Jonathan Genzen, MD, PhD | University of Utah/ARUP Laboratories

**32445 Rapid HIV Testing for High-Risk Groups Across a Health System's Emergency Departments**

Scientific Session (1.5-hour)

**Moderator:** Adam McShane, PhD, DABCC (CC, TC), FAACC | Cleveland Clinic

**Speaker(s):**

- Early Results and Opportunities from Rapid HIV Screening of High-Risk Patients in the Emergency Department  
Michael Phelan, MD | Cleveland Clinic
- Implementing Rapid HIV Testing for the Emergency Department: Challenges and Perspective from the Lab  
Adam McShane, PhD, DABCC (CC, TC), FAACC | Cleveland Clinic

**32446 Acute and Chronic Cardiovascular Disease Complications in Patients With Viral Infections**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- Clinical and Radiographic Aspects of Chronic Cardiovascular Complications from Viral Infections Such as HIV and COVID-19  
Priscilla Hsue, MD | University of California, San Francisco
- High-Sensitivity Troponin, the Natriuretic Peptides, and Other Existing and Novel Biomarkers of Viral Myocarditis  
Jieli Shirley Li, MD, PhD, DABCC, NRCC, FAACC | Ohio State University Wexner Medical Center
- Pathophysiologic Mechanisms of Inflammatory Cardiomyopathy Induced by Viral Infections  
Alan Wu, PhD | University of California, San Francisco

### **32447 Advancing Effective Test Utilization in North America**

Scientific Session (1.5-hour)

**Moderator:** Lee Hilborne, MD, MPH, DLM(ASCP)CM | University of California, Los Angeles Healthcare

**Speaker(s):**

- The Canadian Experience: Challenges and Opportunities  
Daniel Beriault, PhD, FCACB | St Michael's Hospital
- The U.S. Experience: Challenges and Opportunities  
Lee Hilborne, MD, MPH, DLM(ASCP)CM | University of California, Los Angeles Healthcare

### **32448 Laboratory Consultations in Genomic Medicine: Case-Based Learning**

Scientific Session (1.5-hour)

**Moderator:** Jason Park, MD, PhD, DABCC | UT Southwestern

**Speaker(s):**

- Answers to Common Genomic Testing Questions  
Jason Park, MD, PhD, DABCC | UT Southwestern
- Emerging Clinical Genomic Testing Issues  
Garrett Gotway, MD, PhD | University of Texas Southwestern Medical Center

### **32449 The State of Interoperability and External Laboratory Results**

Scientific Session (1.5-hour)

**Moderator:** Thomas Durant, MD | Yale School of Medicine

**Speaker(s):**

- The State of Interoperability and External Laboratory Results  
Thomas Durant, MD | Yale School of Medicine
- The State of Interoperability and External Laboratory Results  
David McClintock, MD | Michigan Medicine

### **33101 Cervical Cancer Screening: What Is New?**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- Advances in Molecular Biology, Pathogenesis, and Epidemiology of Human Papillomavirus Research  
Yusheng Zhu, PhD, DABCC | Pennsylvania State University Hershey Medical Center
- Applying Risk-Based Guidelines: Screening, Surveillance, and Diagnosis  
Sarah Feldman, MD, MPH | Harvard Medical School
- Implementing risk-based cervical cancer screening guidelines in practice  
Annie Leung, MD | McGill University Health Centre

### **33102 Data Aggregation and Integration in Laboratory Medicine: How to Build Prediction Models and Learn from Multi-Institutional Data**

Scientific Session (1.5-hour)

**Moderator:** Daniel Herman, MD, PhD | University of Pennsylvania

**Speaker(s):**

- A Path to Sharing and Integrating Traceable, Clinical Laboratory Data  
Thomas Durant, MD | Yale School of Medicine

- Building Prediction Models That Can Be Transferred Across Clinical Practices  
Daniel Herman, MD, PhD | University of Pennsylvania
- How to Harmonize Multi-Site Clinical Laboratory Data: Lessons From the National COVID Cohort Collaborative (N3C)  
Patrick Mathias, MD, PhD | University of Washington

**33104 The Right Tools for the Job: The Diagnosis, Treatment, and Complications of Hemoglobinopathies**

Scientific Session (1.5-hour)

**Moderator:** Sean Campbell, PhD, DABCC, FAACC | Montefiore Medical Center

**Speaker(s):**

- Clinical and Hematological Effects of Sickle Cell Disease  
Susanna Curtis, MD, PhD | Montefiore Medical Center
- Laboratory Methods for Diagnosing Hemoglobinopathies and the Discovery and Characterization of Voxelotor Interference  
Zahra Shajani-Yi, PhD, DABCC, FAACC, NRCC-CC | LabCorp San Diego

**33105 Unique Matrices That Integrated Themselves Into the Clinical Laboratory During the COVID-19 Pandemic**

Scientific Session (1.5-hour)

**Moderator:** Hedyeh Shafi, MD | Kaiser Permanente

**Speaker(s):**

- COVID-19 Convalescent Plasma From Donor To Recipient  
Hedyeh Shafi, MD | Kaiser Permanente
- High-Throughput Saliva Testing for SARS-CoV-2  
Jonathan Gullett, MD, MT (ASCP) | Kaiser Permanente

**33106 Clinical Biochemistry Hot Topics**

Scientific Session (1.5-hour)

**Moderator:** Khushbu Patel, PhD, DABCC, FAACC | Children's Hospital of Philadelphia

**Speaker(s):**

- Paper Spray Mass Spectrometry for the Direct, Semi-quantitative Measurement of Fentanyl and Norfentanyl in Complex Matrices  
Chris Gill, PhD | Vancouver Island University
- Pre-operative and Post-operative Changes in CRP and Other Biomarkers Sensitive to Inflammatory Status in Patients with Severe Obesity Undergoing Laparoscopic Sleeve Gastrectomy  
Edward Randell, PhD | Eastern Health

**33107 Exploring Racial and Ethnic Health Disparities through a Laboratory Medicine Lens**

Scientific Session (1.5-hour)

**Moderator:** Christina Pierre, PhD | Lancaster General Hospital

**Speaker(s):**

- Reconsidering Race-Based Adjustments in Estimating GFR  
Melanie Hoenig, MD | BIDMC

- Testing Access and the Impact on COVID-19 Outcomes in Minority Populations: How Laboratory Data can be Harnessed to Mitigate Healthcare Disparities  
Henrietta Fasanya, PhD | University of Florida

### **33108 Implementation of Serological and Molecular Tools for COVID-19 Patient Management**

Scientific Session (1.5-hour)

**Moderator:** Jennifer Taher, PhD, FCACB | Mount Sinai Hospital

**Speaker(s):**

- Implementation of Molecular Tools for COVID-19 Patient Management: A GENCOV Study  
Jordan Lerner-Ellis, PhD, FACMG | Mount Sinai Hospital
- Implementation of Serological Tools for COVID-19 Patient Management: A GENCOV Study  
Jennifer Taher, PhD, FCACB | Mount Sinai Hospital
- Understanding Immune Repertoire Diversity Through T/B Cell Receptor Signaling  
Trevor Pugh, PhD, FACMG | University of Toronto

### **33109 Validación de Métodos 101: De Aspectos Regulatorios a Mejoras de Calidad (presentado en Español)**

Scientific Session (1.5-hour)

**Moderator:** Alejandro Molinelli, PhD, NRCC | St. Jude Children's Research Hospital

**Speaker(s):**

- Análisis Estadístico y Mejoras de Calidad  
Steven Conklin, PhD | Tufts Medical Center
- Diseño de Experimentos de Validación de Métodos  
Nadia Ayala-Lopez, PhD, MLS(ASCP), DABCC, NRCC | Labcorp Drug Development
- Requisitos Regulatorios y Establecimiento de Especificaciones de Desempeño  
Alejandro Molinelli, PhD, NRCC | St. Jude Children's Research Hospital

### **33110 The Benefits of a Laboratory Formulary Committee From Patient Care To Training Programs and a Hospital's Bottom Line**

Scientific Session (1.5-hour)

**Moderator:** Alison Woodworth, PhD, DABCC, FAACC | University of Kentucky

**Speaker(s):**

- Harnessing Laboratory Formulary Data Tools to Improve Patient Care and the Hospital's Bottom Line  
Thai Osborne, MHA | University of Kentucky
- Standardizing Laboratory Stewardship Efforts through Development of a Multidisciplinary Laboratory Formulary Committee  
Alison Woodworth, PhD, DABCC, FAACC | University of Kentucky
- The Benefits of a Developing a Laboratory Formulary for Training Purposes  
Erin Schuler, PhD | University of Kentucky

### **33221 Manejo de Riesgos en el Laboratorio Clínico: Herramientas para Asegurar Resultados de Alta Calidad (presentado en Español)**

Scientific Session (2.5-hour)

**Moderator:** Veronica Luzzi, PhD, DABCC | Tricore Research Institute

**Speaker(s):**

- Análisis de Riesgo: Estimación y Evaluación  
Jose Jara-Aguirre, MD | Children's National Hospital
- Como se Define el Riesgo y el Manejo del Riesgo en un Laboratorio Clínico?  
Jessica Colon-Franco, PhD, DABCC | Cleveland Clinic
- Seguridad del Paciente y Errores en el Laboratorio Clínico  
Eugenio Zabaleta, PhD | OhioHealth Mansfield Hospital

**33222 Updates on Diagnostics and Therapeutics for Lipid Management of Cardiovascular Disease**  
Scientific Session (2.5-hour)

**Moderator:** Alan Remaley, PhD | NIH

**Speaker(s):**

- Advanced Cardiovascular Disease Risk Detection Using Your Automated Chemistry Analyzer  
Leslie Donato, PhD, DABCC | Mayo Clinic
- Measurement and Use of Lp(a) as a Cardiovascular Biomarker  
Alicia Lyle, PhD | Centers for Disease Control and Prevention
- Overview of 2018 Mutisociety Guidelines on Lipid Management and Comparison to Other Cardiovascular Guidelines  
Jeff Meeusen, PhD, DABCC | Mayo Clinic
- Review of Current and New Lipid-Lowering Therapies for Cardiovascular Disease Reduction  
Alan Remaley, PhD | NIH

**33223 Clinical and Laboratory Implications of Monoclonal Antibody Therapeutics**  
Scientific Session (2.5-hour)

**Moderator:** Julio Delgado, MS, MD | University of Utah/ARUP Laboratories

**Speaker(s):**

- Cancer Immunotherapies for Multiple Myeloma: Successes, Pitfalls and Challenges for the Laboratory  
Angela Dispenzneri, MD | Mayo Clinic College of Medicine
- Introduction of Monoclonal Antibodies as Therapeutic Agents  
Julio Delgado, MS, MD | University of Utah/ARUP Laboratories
- Methods for Drug Monitoring, Immunogenicity Testing and Identification of Therapeutic Monoclonal Antibodies  
Maria Alice Willrich, PhD, DABCC, FAACC | Mayo Clinic
- Using Routine and Ancillary Laboratory Testing for Monitoring Immunotherapy  
Qing Meng, MD, PhD, DABCC, FAACC | University of Texas/MD Anderson Cancer Center

**33225 Novel Multiplex Proteomics Technologies for Biofluid Analysis: Looking Beyond Mass Spectrometry**

Scientific Session (2.5-hour)

**Moderator:** Annie Ren, MSc, PhD | Mount Sinai Hospital

**Speaker(s):**

- Digging Deep for Translational Gold: Integrated Proteomics and Genomics Approaches to Biobank Data  
Guillaume Paré, MD, MSc, FRCPC | McMaster University
- Multiplex Proteomic Technologies for Clinical Investigation of Cytokine Profiles  
Lusia Sepiashvili, PhD, DABCC, FCACB, FAACC | Hospital for Sick Children; University of Toronto

- Multiplex Proteomics Technologies and Their Promise for a New Era of Personalized Medicine  
Annie Ren, MSc, PhD | Mount Sinai Hospital

### **33226 The Little Known Formula That will Change the Way You Teach Clinical Chemistry**

Scientific Session (2.5-hour)

**Moderator:** Joe Wiencek, PhD, DABCC, FAACC | Vanderbilt University School of Medicine

**Speaker(s):**

- Engaging the Un-Engageable on the Clinical Chemistry Rotation: A Work in Progress  
David Alter, MD, MPH, DABCC | Emory University School of Medicine
- Four-Year Clinical Chemistry Rotation for Pathology Residents  
Gurmukh Singh, MD, PhD, MBA | Augusta University Medical Center Inc.
- So, You Think You can Teach Clinical Chemistry?  
Joe Wiencek, PhD, DABCC, FAACC | Vanderbilt University School of Medicine

### **33227 Serologic Testing for SARS-CoV-2: We Implemented the Assay(s), Now What?**

Scientific Session (1.5-hour)

**Moderator:** Elitza Theel, PhD, D(ABMM) | Mayo Clinic

**Speaker(s):**

- Serologic Testing for SARS-CoV-2  
Elitza Theel, PhD, D(ABMM) | Mayo Clinic
- Serologic Testing for SARS-CoV-2  
Christopher Farnsworth, PhD, DABCC | Washington University, St. Louis

### **33228 Guiding and Expediting Clinical Decisions with Direct Mass Spectrometry Technologies**

Scientific Session (2.5-hour)

**Moderator:** Livia Schiavinato Eberlin, PhD | The University of Texas at Austin

**Speaker(s):**

- Clinical Translation of the MasSpec Pen to Guide Cancer Diagnosis and Surgical Margin Evaluation  
Livia Schiavinato Eberlin, PhD | The University of Texas at Austin
- Current Challenges in Drug Quantitation from a Clinician's View: Can Direct Mass Spectrometry Techniques Fill the Gap?  
Lindsey Kirkpatrick, DO, PhD | Indiana University School of Medicine/Riley Hospital for Children
- Use of Lipidomics and Metabolomics in Clinical Pathology in the Diagnosis of Fabry Disease and Meningioma  
Timothy Garrett, PhD | University of Florida

### **33229 Paraneoplastic Neurological Syndromes: New Diagnostic Criteria with the Specialist Laboratory in the Center**

Scientific Session (1.5-hour)

**Moderator:** Hans Frykman, MD, PhD, FRCPC | University of British Columbia

**Speaker(s):**

- Paraneoplastic Neurological Syndromes: New Diagnostic Criteria and the Laboratory - An Overview  
Hans Frykman, MD, PhD, FRCPC | University of British Columbia
- Paraneoplastic Neurological Syndromes: Practical Cases  
Neil Harris, MBCh, MD, FAACC | University of Florida

### **33231 Food Allergy Testing: Navigating the Clinical Allergy and IgE Antibody Connection**

Scientific Session (1.5-hour)

**Moderator:** Alicia Algeciras-Schimnich, PhD, DABCC | Mayo Clinic

**Speaker(s):**

- Food Allergy: To Test or Not To Test, That is the Question  
Miguel Park, MD | Mayo Clinic
- The Relationship Between IgE Antibody Testing and Evaluation of Clinical Food Allergy: It's Complicated  
Joshua Bornhorst, PhD, DABCC | Mayo Clinic

### **34101 Advances in Proteomics-Based Diagnostics for Plasma Cell Disorders**

Scientific Session (1.5-hour)

**Moderator:** Surendra Dasari, PhD | Mayo Clinic

**Speaker(s):**

- Going Off the Gold Standard: Replacing Gel Electrophoresis with MALDI-TOF MS  
David Murray, MD, PhD | Mayo Clinic
- The Role of Mass Spectrometry in Detection of Minimal Residual Disease in the Blood of Myeloma Patients  
Joannes Jacobs, MD, PhD | Radboud University Medical Center

### **34102 Approaches for the Detection and Mitigation of Pre-analytic Errors**

Scientific Session (1.5-hour)

**Moderator:** Christopher Farnsworth, PhD, DABCC | Washington University, St. Louis

**Speaker(s):**

- Effect of Seasonal Temperatures on Analyte Stability in Lockboxes  
Joe Wiencek, PhD, DABCC, FAACC | Vanderbilt University School of Medicine
- Evaluation of Pneumatic Tube System Performance  
Christopher Farnsworth, PhD, DABCC | Washington University, St. Louis
- Pediatric Considerations for Preanalytical Variation  
Brenda Suh-Lailam, PhD, DABCC, FAACC | Ann & Robert H. Lurie Children's Hospital of Chicago

### **34103 At-Home Self-Collection: Opportunities, Advantages, and Limitations for Laboratory Medicine**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- Blood, Spit, and Tears: Will These Alternative Matrices for Therapeutic Drug Monitoring and Toxicology Make You Cry? **(Permission withheld by speaker)**  
Paul Jannetto, PhD, DABCC, MT (ASCP), FAACC | Mayo Clinic
- Mid-Turbinate/Nasal Swabs and Genitourinary Sampling for Microbiology: Applications and Challenges  
Bobbi Pritt, MD | Mayo Clinic

### **34104 Little Molecules that Pack a Big Punch: The Promise of Cell-Free DNA**

Scientific Session (1.5-hour)

**Moderator:** Christina Lockwood, PhD, ABMG, DABCC | University of Washington

**Speaker(s):**

- A Paradigm Shift: Considerations in Prenatal Cell-Free DNA Screening  
Edith Cheng, MD, MS | University of Washington
- The Promise and Pitfalls of Cell-Free DNA for Personalized Medicine  
Christina Lockwood, PhD, ABMG, DABCC | University of Washington
- Transitioning Cell-Free Tumor DNA Testing from the Bench to the Clinic  
Kalyan Banda, MD | University of Washington

### **34105 The Persistent Opioid Epidemic during the COVID-19 Pandemic**

Scientific Session (1.5-hour)

**Moderator:** Kamisha Johnson-Davis, PhD, DABCC, FAACC | University of Utah/ARUP Laboratories

**Speaker(s):**

- Clinical Perspectives on Trends in Drug Screening Results Before and During COVID-19  
Nathaniel West, MD, ABEM | University of California, San Francisco
- Trends in Urine Drug Testing Results During the COVID-19 Pandemic: How Did Drug Use Change Versus Pre-Pandemic?  
Sarah Shugarts, PhD, DABCC | Kaiser Permanente

### **34106 Healthcare Forum: The Changing Regulatory Environment**

Scientific Session (1.5-hour)

**Moderator:** Vince Stine, PhD | AACC

**Speaker(s):**

- The FDA Response to COVID-19 and its Path Moving Forward  
Timothy Stenzel, MD, PhD | U.S. Food & Drug Administration
- Updating CLIA: What the Future Holds  
Reynolds Salerno, PhD | Centers for Disease Control and Prevention

### **34107 Providing Value Beyond Values: Leaving the Laboratory to Increase Laboratory Visibility and Enhance Patient Care**

Scientific Session (1.5-hour)

**Moderator:** Zahra Shajani-Yi, PhD, DABCC, FAACC, NRCC-CC | LabCorp San Diego

**Speaker(s):**

- Small Actions: Big Impact, Low Stress Options that Enhance Patient Care  
Mark Cervinski, PhD, DABCC, FAACC | Dartmouth-Hitchcock Medical Center
- Supporting a Pharmacist-Managed Clinical Pharmacokinetics Service  
Alejandro Molinelli, PhD, NRCC | St. Jude Children's Research Hospital

### **34108 Sepsis: Laboratory Medicine's Collaborative Role in Risk Stratification, Early Detection, and Positive Patient Outcomes**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- Laboratory Medicine's Fight Against Sepsis: Current and New Sepsis Biomarkers and Algorithms in Adults  
Octavia Peck Palmer, PhD, FAACC | University of Pittsburgh Medical Center
- Where Are We? Organism and Antimicrobial Resistance Marker Identification and the Impact on Antimicrobial Therapy and Patient Outcomes  
Stephanie Mitchell, PhD, D(ABMM) | Cepheid



**34109 The Existence of Health Disparities from the Bench to the Bedside: Journal of Applied Laboratory Medicine Special Session**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- An Overview of Disparities in Healthcare: A Provider Perspective  
Zil Goldstein, FNP-BC | Callen-Lorde
- Considerations in the Identification of Drug Use Prevalence in Marginalized Populations  
Mark Marzinke, PhD, DABCC, FAACC | Johns Hopkins University
- There Is No Right Box to Check: Reference Intervals in Transgender Individuals on Gender Affirming Hormonal Therapies  
Gabrielle Winston-McPherson, PhD, DABCC | Henry Ford Hospital

**34110 What's New in Newborn Screening?**

Scientific Session (1.5-hour)

**Moderator:** Van Leung-Pineda, PhD, DABCC | Children's Healthcare of Atlanta

**Speaker(s):**

- GAMT Deficiency: Creatine  $\square$  More than a Source of Creatinine  
Marzia Pasquali, PhD | University of Utah
- X-linked Adrenoleukodystrophy: From Lorenzo's Oil to the Recommended Uniform Screening Panel  
Debra Freedenberg, MD, PhD | Department of State Health Services

**34222 Free Light Chains: Past, Present, and Future**

Scientific Session (2.5-hour)

**Moderator:** Maria Alice Willrich, PhD, DABCC, FAACC | Mayo Clinic

**Speaker(s):**

- A Slow Fade with Clinical Impact: The Need for Standardization  
David Murray, MD, PhD | Mayo Clinic
- The Many Different Flavors of Current FLC Assays  
Joannes Jacobs, MD, PhD | Radboud University Medical Center
- The Past of Free Light Chains: Assay Development and Critical Studies  
Maria Alice Willrich, PhD, DABCC, FAACC | Mayo Clinic

**34223 Machine Learning Analysis of Laboratory Test Results Supports Clinical Decision-Making and Patient Care**

Scientific Session (2.5-hour)

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

**Speaker(s):**

- How is Machine Learning Using Laboratory Test Results Helping to Fight Against COVID-19?  
He Yang, PhD, DABCC, FAACC | Weill Cornell Medicine
- Recent Advances of Machine Learning in Clinical Medicine  
Fei Wang, PhD | Weill Cornell Medicine
- Using Machine Learning to Personalize Laboratory Medicine: Opportunities and Challenges  
Jason Baron, MD | Massachusetts General Hospital

**34224 Tackling Infectious Disease Testing and Interpretation from the Perspectives of the Core Clinical Laboratory and the Point-of-Care**

Scientific Session (2.5-hour)

**Moderator:** Nicole Tolan, PhD, DABCC | Brigham and Women's Hospital

**Speaker(s):**

- Tackling Infectious Disease Testing and Interpretation  
Gary Horowitz, MD | Tufts Medical Center
- Tackling Infectious Disease Testing and Interpretation  
Nicole Tolan, PhD, DABCC | Brigham and Women's Hospital

**34225 Best Practices for Improving Quality Control and Quality Assurance**

Scientific Session (2.5-hour)

**Moderator:** Kornelia Galior, PhD, DABCC | University of Wisconsin, Madison

**Speaker(s):**

- Defining Total Allowable Error for Individualized QC strategy  
Kornelia Galior, PhD, DABCC | University of Wisconsin, Madison
- Development, Implementation and Validation of Moving Averages in a Hospital Based Laboratory  
Mark Cervinski, PhD, DABCC, FAACC | Dartmouth-Hitchcock Medical Center
- Evaluation of Proficiency Testing/External Quality Assessment Results and Developing Preventive and Corrective Actions (Permission withheld by speaker)  
Berna Aslan, MD, MSc, DABCC, FCACB, FAACC | Health Sciences Center, Eastern Health Authority

**34226 Congenital and Acquired Bleeding Disorders: Properly Interpreting Coagulation Assays for Accurate Coagulopathy Diagnosis**

Scientific Session (2.5-hour)

**Moderator:** Morayma Reyes-Gil, MD, PhD | Montefiore

**Speaker(s):**

- Abnormal Coagulation Tests: Artifacts, Interferences or True Coagulopathies  
Morayma Reyes-Gil, MD, PhD | Montefiore
- COVID-19 Coagulopathy  
Geoffrey Wool, MD, PhD | University of Chicago
- Hereditary versus Acquired Coagulopathies  
Catherine Hayward, MD, PhD, FRCP | McMaster University

**34227 Metal Goes Alternative: Charting Progression in Heavy Metal Analysis**

Scientific Session (2.5-hour)

**Moderator:** Jessica Colon-Franco, PhD, DABCC | Cleveland Clinic

**Speaker(s):**

- Easy Listening: An Alternative Approach to Detecting Adverse Reactions to Metal Debris in Metal-on-Metal Implants  
Paul Jannetto, PhD, DABCC, MT (ASCP), FAACC | Mayo Clinic
- Alternative Matrices and Remastering Metal Analysis with ICP-QQQ-MS  
Jessica Colon-Franco, PhD, DABCC | Cleveland Clinic

- Progressing Beyond Lead: Elemental Toxicity of the “Alternative” Heavy Metals ☐ Cadmium, Mercury, and Arsenic  
Joshua Bornhorst, PhD, DABCC | Mayo Clinic

**34228 What We Have Learned Post Implementation of High Sensitivity Cardiac Troponin Into Clinical Practice: Experience of Three Different Medical Centers Using Three Different Assays**

Scientific Session (2.5-hour)

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

**Speaker(s):**

- Abbott High Sensitivity Cardiac Troponin I: Laboratory and Clinical Experience  
Fred Apple, PhD, DABCC | Hennepin Healthcare/Hennepin County Medical Center
- Beckman Coulter High Sensitivity Cardiac Troponin I: Emergency Medicine Experience  
Brandon Allen, MD | University of Florida
- Beckman Coulter High Sensitivity Cardiac Troponin I: Laboratory Medicine Experience  
Stacy Beal, MD | University of Florida Health
- Roche High Sensitivity Cardiac Troponin T: Laboratory and Clinical Experience  
Allan Jaffe, MD | Mayo Clinic

**34230 The Role of the Clinical Laboratory in the Diagnosis, Management, and Understanding of MIS-C: An Update**

Scientific Session (1.5-hour)

**Moderator:** Sridevi Devaraj, PhD, DABCC, FAACC, FRSC | Texas Childrens Hospital and Baylor College of Medicine

**Speaker(s):**

- Clinical Presentation of MIS-C: An Update  
Tiphonie Vogel, MD, PhD | Texas Children's Hospital/Baylor College of Medicine
- Role of the Clinical Laboratory in the Diagnosis and Management of MIS-C  
Sridevi Devaraj, PhD, DABCC, FAACC, FRSC | Texas Childrens Hospital and Baylor College of Medicine

**34231 Updates in SARS-CoV-2 Sequence Surveillance**

Scientific Session (1.5-hour)

**Moderator:** Alex Greninger, MD, PhD, MS, MPhil | University of Washington

**Speaker(s):**

- Genomic Surveillance for SARS-CoV-2 in the United States  
Duncan MacCannell, PhD | Centers for Disease Control and Prevention
- SARS-CoV-2 Sequencing in the Clinical Lab  
Alex Greninger, MD, PhD, MS, MPhil | University of Washington

**35101 Emerging Areas in Therapeutic Drug Monitoring: Antifungals, Direct Oral Anticoagulants, and Psychoactive Drugs**

Scientific Session (1.5-hour)

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

**Speaker(s):**

- Special Issues of TDM of Antifungals and Direct Oral Anticoagulants in Critically Ill Patients and Special Populations  
Amitava Dasgupta, PhD, DABCC | University of Texas-Houston Medical School

- TDM for Psychoactive Drugs: Guidelines for Optimal Utilization  
William Clarke, MBA, PhD, DABCC, FAACC | Johns Hopkins University School of Medicine

### **35102 Essential Diagnostics for Universal Health Coverage**

**Recording not available due to technical difficulties.**

Scientific Session (1.5-hour)

**Moderator:** Sue Horton, PhD | University of Waterloo

**Speaker(s):**

- Diagnostics: The Greatest Gap in the Cascade of Care (**unavailable**)  
Mike Wilson, MD | Denver Health
- The World Health Organization's Essential Diagnostics List and Policies Needed to Strengthen Diagnostic Capacity Globally (**unavailable**)  
Lee Schroeder, MD, PhD | University of Michigan

### **35103 Laboratories Ally with Clinicians in Mitigating the Burden of Heart Disease from Childhood**

Scientific Session (1.5-hour)

**Moderator:** Jing Cao, PhD, DABCC, FAACC | University of Texas Southwestern Medical Center

**Speaker(s):**

- Salient Features of AHA Statement on CVD Risk Reduction in High Risk Children and Strategies of Laboratory Testing for Risk Management  
Sridevi Devaraj, PhD, DABCC, FAACC, FRSC | Texas Childrens Hospital and Baylor College of Medicine
- Utility of Newer Generation Cardiac Marker Assays on the Management of Children with Vulnerable Heart Conditions  
Stephen Roper, PhD, DABCC | Washington University School of Medicine

### **35104 Mind the App: Application Development as a Solution to Unmet Needs in Laboratory Workflows**

Scientific Session (1.5-hour)

**Moderator:** Amrom Obstfeld, MD, PhD | Children's Hospital of Philadelphia

**Speaker(s):**

- Making Reliable Lab Apps: Demystifying Good Software Engineering Practices  
Stephan Kadauke, MD, PhD | Children's Hospital of Philadelphia
- Why Use R and What Kinds of Apps Can I Make?  
Daniel Holmes, MD | University of British Columbia

### **35105 Novel Applications of High Sensitivity Cardiac Troponin Assays: Risk Stratification in Patients with Atherosclerotic Cardiovascular Disease and Monitoring of Cardiac Health**

Scientific Session (1.5-hour)

**Moderator:** Petr Jarolim, MD, PhD | Brigham and Women's Hospital

**Speaker(s):**

- High Sensitivity Cardiac Troponin Assays  
Petr Jarolim, MD, PhD | Brigham and Women's Hospital
- High Sensitivity Cardiac Troponin Assays for Monitoring and Diagnosing Myocardial Injury During Cardiotoxic Chemotherapy, Cancer Immunotherapy and Non-Cardiac Surgery  
Petr Jarolim, MD, PhD | Brigham and Women's Hospital

- High-Sensitivity Cardiac Troponin Testing in Stable Atherosclerotic Cardiovascular Disease and Its Use for Identification of Patients Who May Benefit from More Intense Therapy  
David Morrow, MD, MPH | Brigham and Women's Hospital

**35106 Albumin Measurement: Harmonization and Body Fluid Testing**

Scientific Session (1.5-hour)

**Moderator:** Darci Block, PhD, DABCC | Mayo Clinic

**Speaker(s):**

- Albumin Measurement in Body Fluids: Analytical and Clinical Considerations  
Darci Block, PhD, DABCC | Mayo Clinic

**35108 What COVID-19 Testing Hath Wrought: A Forecast for the Future of Virology Testing**

Scientific Session (1.5-hour)

**Moderator:** Alex Greninger, MD, PhD, MS, MPhil | University of Washington

**Speaker(s):**

- SARS-CoV-2 Testing and the Future: The Stanford University Medical Center Experience  
Benjamin Pinsky, MD, PhD | Stanford University
- SARS-CoV-2 Testing and the Future: The University of Washington Medical Center Experience  
Alex Greninger, MD, PhD, MS, MPhil | University of Washington

## AACC UNIVERSITY COURSES

### 191003 Next Generation Sequencing for Laboratorians: Understanding the Essentials

AACC University Half Day Session

**Moderator:** Christina Lockwood, PhD, ABMG, DABCC | University of Washington

**Speaker(s):**

- NGS Applications for Inherited Testing: Casting an Ever-Widening Net  
Linnea Baudhuin, PhD, DABMGG, FACMG | Mayo Clinic
- NGS as a Tool for Precision Medicine: How to Choose the Best Test for Your Patient  
Christina Lockwood, PhD, ABMG, DABCC | University of Washington
- Practical Applications for NGS in Oncology  
Vera Paulson, MD, PhD | University of Washington

### 191004 Analytical Interferences in the Clinical Laboratory: Basics and Beyond

AACC University Half Day Session

**Moderator:** Nikola Baumann, PhD, DABCC | Mayo Clinic

**Speaker(s):**

- Challenges for the Clinical Laboratory: Dealing with the Interferences That We Can See  
Nikola Baumann, PhD, DABCC | Mayo Clinic
- Challenges for the Clinical Laboratory: Technology-, Test- and Patient-Specific Interferences  
Kamisha Johnson-Davis, PhD, DABCC, FAACC | University of Utah/ARUP Laboratories
- Challenges for the Clinical Laboratory: The Interferences That Are Not Visible  
Brooke Katzman, PhD | Mayo Clinic

### 192007 Navigating Your Lab Through Change: Leadership, Innovation, and Crisis Management (SYCL Workshop)

#### SYCL Workshop

**Moderator:** Janetta Bryksin

**Speaker(s):**

- Lab of the Future  
Khosrow Adeli, PhD, FCACB, NACB, DABCC | Hospital for Sick Children
- Leadership Change... Keep Calm and Lead On  
Julie Shaw, PhD, FCACB | The Ottawa Hospital University of Ottawa/Eastern Ontario Regional Laboratories Association
- The One about Crisis Management and the Pandemic  
Chad Neilsen, BS, MPH, CIC, FAPIC | University of Florida Health Jacksonville

### 192008 LC-MS/MS Operations and Quality Assurance: A Primer

AACC University Half Day Session

**Moderator and Speaker:** Brian Rappold | LabCorp

**Speaker(s):**

- LC-MS/MS Operations: Tips/Tricks and Best Practice  
Quality Assurance in the Mass Spec Lab

### 193009 Doing More with R: Create Your Own Automated Reports and Dashboards

AACC University Full Day Session

**Moderator:** Shannon Haymond, PhD, DABCC, FAACC | Lurie Children's

**Speaker(s):**

- Doing More with R: Create Your Own Automated Reports and Dashboards  
Shannon Haymond, PhD, DABCC, FAACC | Lurie Children's
- Doing More with R: Create Your Own Automated Reports and Dashboards  
Dustin Bunch, PhD, DABCC | Nationwide Children's Hospital
- Doing More with R: Create Your Own Automated Reports and Dashboards  
Daniel Holmes, MD | University of British Columbia

### **193010 Ten Hut! Fall in for the Essential Elements of a Point-of-Care Testing Boot Camp**

AACC University Full Day Session

**Moderator:** Jeanne Mumford, BS, MLS, MT (ASCP) | Johns Hopkins Hospital

**Speaker(s):**

- Are You Competent to Evaluate Operator Competency?  
Peggy Mann, MS, MT(ASCP), CPP | University of Texas Medical Branch
- Are You Connected? Saving Your Sanity Using Connectivity for Point-of-Care Testing!  
Kerstin Halverson, MS | Werfen North America
- Integrating Quality and Compliance into Point-of-Care Testing  
Kimberly Skala, BA, MT(ASCP) | Instrumentation Laboratory
- Working in Multidisciplinary Teams and Strengthening Your Communication Skills  
Jeanne Mumford, BS, MLS, MT (ASCP) | Johns Hopkins Hospital

### **193011 Trust, But Verify: Getting the Most Out of Method Evaluation Experiments, Including Establishing QC After Accepting the New Method**

AACC University Full Day Session

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

**Speaker(s):**

- Establishing QC Parameters for Ongoing Monitoring of Test Performance  
Anthony Killeen, MB, BCh, PhD, DABCC, FAACC | University of Minnesota
- Introduction and Setting Performance Goals  
David Koch, PhD, DABCC, FAACC | Emory University/Grady Memorial Hospital
- Laboratory Challenges in Method Evaluation  
James Nichols, PhD, DABCC, FAACC | Vanderbilt University Medical Center
- Performance Verification  
Janetta Bryksin, PhD, DABCC | Emory University

### **193012 How To Truly Excel at Data Analysis and Visualization: An Introduction To the R Programming Language**

AACC University Full Day Session

**Moderator:** Joseph Rudolf, MD | University of Utah/ARUP Laboratories

**Speaker(s):**

- Basics of R and RStudio and Visualizing Data  
Joseph Rudolf, MD | University of Utah/ARUP Laboratories
- Reporting, Importing, and Transforming Data  
Patrick Mathias, MD, PhD | University of Washington
- Summarizing Data and Statistics  
Patrick Mathias, MD, PhD | University of Washington

### **193013 Integrating Chemistry and Hematology in Clinical Practice**

AACC University Full Day Session

**Moderator:** Sean Campbell, PhD, DABCC, FAACC | Montefiore Medical Center

**Speaker(s):**

- RBC Disorders  
Nadia Ayala-Lopez, PhD, MLS(ASCP), DABCC, NRCC | Labcorp Drug Development
- WBC and Platelet Disorders  
Sean Campbell, PhD, DABCC, FAACC | Montefiore Medical Center

### **193014 Interpretation of Endocrinology Assays: A Guide for the Clinical Laboratorian to Communicate Method Variation, Reference Intervals, and Dynamic Testing Cut-offs to Endocrinologists and other Clinicians**

AACC University Full Day Session

**Moderator:** Andrew Don-Wauchope, MBCh, MD, FRCP | LifeLabs

**Speaker(s):**

- Interpretation of Endocrinology Assays: Clinical Practice Guideline Update on Aldosterone  
Andrew Don-Wauchope, MBCh, MD, FRCP | LifeLabs
- Interpretation of Endocrinology Assays: Cortisol, Thyroid, and Growth Hormone  
Julie Shaw, PhD, FCACB | The Ottawa Hospital University of Ottawa/Eastern Ontario Regional Laboratories Association
- Interpretation of Endocrinology Assays: Metanephrines, Thyroid, and IGF-1  
Grace Kroner, PhD, DABCC | Cleveland Clinic
- Interpretation of Endocrinology Assays: The Clinician's Viewpoint  
Matthew Gilbert, DO, MPH | Larner College of Medicine at The University of Vermont