

The following list of ARUP Institute for Learning speakers is comprised of experts from ARUP Laboratories and the University of Utah School of Medicine Department of Pathology, including ARUP medical directors and executives, laboratory professionals, and members of the University of Utah Medical Laboratory Science Program and the ARUP Institute for Clinical and Experimental Pathology. Lectures in most disciplines of laboratory medicine are available for pathologists, clinicians, and medical laboratory scientists. In addition to those listed here, other topics may be available upon consultation with the ARUP Institute for Learning.

**Archana Agarwal, MD**

- Laboratory Diagnosis of Hemolytic Anemia
- Laboratory Diagnosis of Thalassemias and Hemoglobinopathies
- Update in Red Blood Cell Membrane Disorders

**Pinar Bayrak-Toydemir, MD, PhD**

- HHT Testing
- Rett Syndrome
- Sequencing

**Daniel Albertson, MD**

- Urologic Pathology

**Hunter Best, PhD**

- Direct-to-Consumer Genetic Testing
- Gene Discovery in Pulmonary Hypertension

**Erica F. Andersen, PhD, FACMG**

- Constitutional Cytogenetics
- Cytogenetic Testing in Hematologic Disease
- Genomic Microarray in Constitutional and Oncology Settings

**Tiffany Bradshaw, MLS(ASCP)^{CM}**

- Workforce Bullies in the Laboratory

**David Bahler, MD, PhD**

- Chronic Lymphocytic Leukemia
- Flow Cytometry Analysis of Leukemias and Lymphomas

**Mary Bronner, MD**

- Barrett's Esophagus
- Circulating Tumor DNA
- GI Pathology
- Hereditary GI Cancer Testing
- Idiopathic Inflammatory Bowel Disease

**Adam Barker, PhD**

- MALDI-TOF MS in the Clinical Microbiology Laboratory
- Molecular Testing for *Mycobacterium tuberculosis*
- Advances in the Acid Fast Bacterial Laboratory

**Karen Brown, MS, MLS(ASCP)^{CM}**

- Hematology M+Ms: The Maturation, Morphology, and Mystery of Erythrocytes
- Hematology M+Ms: The Maturation, Morphology, and Mystery of Leukocytes
- Hematology M+Ms: Morphology and Mystery (Case Studies)
- Phlebotomy Ps and Qs: Problems and Quandaries in Specimen Collection

EDUCATIONAL PRESENTERS



Suzanne Carasso, MBA, MT (ASCP)

- Building a Laboratory Utilization Management Program: a Roadmap for Success
- Financial Modeling for Laboratory Decision Making
- The Value of the Laboratory: Invest or Outsource



Irene De Biase, MD, PhD, FACMG

- Factors Affecting the Measurement of Lysosomal Enzymes Activity
- Genetic Counseling and Carrier Detection for Tay-Sachs Disease
- Quantitative Amino Acids Analysis Using Liquid Chromatography Tandem Mass Spectrometry



Robert Carpenter, MS, MT(ASCP)

- Realizing Cost Savings Through Laboratory Utilization Management: Putting Concepts into Practice



Ammon T Ence, BS, MfET

- Start Fresh or Make Due: Which Way Do You Lean?
- Success in the High-Volume Grossing Lab: How We Achieved 18 Months of Zero Errors in Specimen Labels and Sustained It



Jonathan Carr, JD

- Corporate Compliance Programs
- Intellectual Property
- ISO 15189 Implementation
- Privacy (HIPAA)
- Quality Management Systems
- Risk Management



Mark Fisher, PhD, D(ABMM)

- MALDI-TOF Bacterial Identification
- MRSA
- Sequencing Bacterial Identification



Marc Couturier, PhD

- Cases in Parasitology
- Emerging and Zoonotic Infections
- *Helicobacter pylori*: Update on Disease, Diagnosis, and Discouraging Trends
- Multiplex/Molecular Testing for Gastrointestinal Infections
- Shigatoxigenic *E. coli*: A Fully Emerged, Still-Underappreciated Pathogen



Jo Deanne Fontenot, MS, MT(ASCP)

- A Lean Laboratory: Tools for Improving Quality and Efficiency
- Employee Mentoring: Fostering a Culture of Contribution
- Hematology Instruments: Evaluation, Selection, and Validation
- Improving Employee Retention: Strategies That Work
- Lead with Confidence: Liberating the Leader in Yourself
- Point-of-Care Testing: Leading the Way



Ken Curtis, PBT (ASCP)

- Avoiding Specimen Collection Errors That Can Lead to Erroneous Results



Elizabeth L. Frank, PhD, DABCC

- Biochemical Evaluation of Pheochromocytoma
- Biogenic Amines
- Calculi and Calculi Risk Assessment
- Diagnosing Porphyria
- Laboratory Assessment of Renal Calculi
- Nutritional Assessment—Vitamin Testing
- Porphyrins and Porphyrins



Julio Delgado, MD, MS

- Diagnosis of Monoclonal Gammopathies
- Histocompatibility Testing
- Monitoring Response Failure to Anti-TNF-alpha inhibitors



Sue Garr, MT(ASCP)

- Managing Effective Changes in Support Services
- Quality and the Sendout Testing Department

EDUCATIONAL PRESENTERS



Jonathan R. Genzen, MD, PhD

- Body Fluid Testing in the Clinical Laboratory
- Clinical Laboratory Automation
- Data Visualization in Quality Assurance Activities
- Fundamentals of Critical Values
- Introduction to Clinical Protein and Immunofixation Electrophoresis



H. Evin Gulbahce, MD

- Atypical Lesions on Core Biopsy: Should They Be Excised?
- Diagnostic Dilemmas and Clinical Conundrums in Breast Pathology
- *HER2* Testing: Where Did We Come From and Where Are We Going?
- Problematic Cases in Thyroid Pathology



Kimberly Hanson, MD, MHS

- Fungal Diagnostics
- Viral Load Testing in Transplantation
- Cytomegalovirus Infections
- Update on Mycobacteriology



Nahla Heikal, MD, MS

- Paroxysmal Nocturnal Hemoglobinuria (PNH)



Rhonda Hensley, MS, SM(ASCP)^{CM} C

- Bacteriology
- Case Studies in Microbiology
- Chronic Time Abuse
- Difficult *C. difficile*
- Educational Design for Competency and Training in the Lab
- Laboratory Management
- Rapid Identification in Blood Cultures
- TRASH-Performance Evaluations



Harry Hill, MD

- All About Star Wars of the Body: A Review of Immunology and Immunodeficiency
- Chronic Granulomatous Disease: Laboratory and Molecular Diagnosis
- Clinical and Laboratory Recognition of Cell-Mediated Immunodeficiencies
- Common Variable Immune Deficiency: Clinical and Molecular Aspects
- Complement Simplified for the Laboratorian
- Defects in Innate Immunity Causing Infections: Lab Detection
- Job Syndrome for Hyper IgE and Recurrent Infections: Laboratory and Molecular Diagnosis
- Multianalyte Immunoassays of Antibodies and Cytokines



David Hillyard, MD

- Advances in HCV Molecular Diagnostics and Treatment
- BK Virus Testing in Renal Transplant Patients
- Emerging Infectious Diseases
- Hepatitis B Molecular Testing
- Molecular Diagnosis of Viral Respiratory Infections
- Molecular Testing for Encephalitis/Meningitis
- Ongoing Evaluation of Hepatitis C Treatment
- Verification and Validation of Molecular Infectious Disease Tests



Kyle Dean Hueth, MLS(ASCP)^{CM}

- A Personalized Medicine Approach to Laboratory Medicine through Utilization Management
- The Next Phase of Utilization Management in Laboratory Medicine



Brian Jackson, MD, MS

- A Hippocratic Oath for the Diagnostic Industry: Linking Business Sustainability to Ethical Standards
- Analyzing Test-Ordering Patterns: Improving Diagnosis and Reducing Costs
- Improving Utilization of Laboratory Tests
- Laboratory Formularies
- Metrics for Value-Driven Diagnostic Medicine



Elke Jarboe, MD

- Endometrial Intraepithelial Neoplasia
- Pelvic Serous Carcinogenesis

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EDUCATIONAL PRESENTERS



Kamisha Johnson-Davis, PhD, DABCC

- Immunosuppressant Testing
- Overview of Clinical Toxicology and Therapeutic Drug Management
- Testing for Ethanol Use in the Clinical Laboratory



David J. Layton, MSOM

- Applying Lean Principles in the Clinical Laboratory
- Applying Value Stream Mapping and Other Lean Tools in the Clinical Laboratory
- How Reducing the Number of Touches Per Tube in Processing Slashes Errors and Boosts Staff Productivity
- Visualize and Improve the Laboratory with Value Stream Mapping: a Powerful Tool



Todd Kelley, MD

- Molecular Pathology of Hematopoietic Malignancies
- Next-Generation Sequencing of Hematologic Neoplasms



Eszter Lazar-Molnar, PhD, D(ABMLI)

- Immunopharmacology, Monitoring Immunotherapy, and Immunogenicity Testing
- Functional Immune Testing for Defects in Innate and Adaptive Immunity
- Transplantation-related Testing



Mazdak A. Khalighi, MD

- Medical Renal Disease



Jackie Lohdefinck, BS, SPHR

- Accountable Leadership: Managing and Motivating Difficult Employees
- HR Law in the Workplace
- Interviewing, Selecting, and Retaining Staff
- Leadership Across Generations: Understanding How to Leverage the Differences
- Performance Management



Christina K. Kulakowski

- Behavior-Based Safety Programs
- Laboratory Chemical Hygiene
- Laboratory Ergonomics Programs
- Laboratory Infection Control



Nicola Longo, MD

- Defects of the Urea Cycle
- Disorders of Creatine Metabolism and Transport
- Inherited Disorders of Fatty Acid Oxidation
- Organic Acidemias



Attila Kumanovics, MD

- Genetic Testing for Immunodeficiencies



Elaine Lyon, PhD

- A Clinical MDx Laboratory's Transition to the Molecular Pathology Codes
- Evaluation for Fragile X Syndrome
- Evaluating Uncertain Variants
- Genetic Molecular Testing
- Genetic Testing for Alport
- Genetic Testing for Cystic Fibrosis
- Genetic Testing for Hemophilias
- Impact of Reimbursement Decisions on Innovation in Genetic Testing
- Pharmacogenomics, Next-Generation Sequencing, and Clinical Interpretation
- Why Labs Request Clinical Information: The Value for Genetic Testing and Impact on Patient Care



Mark Kushnir, PhD

- Accurate Measurement of Thyroglobulin in Serum in Presence of Anti-Thyroglobulin Autoantibodies
- Applications of Mass Spectrometry in Endocrinology
- Introduction to Mass Spectrometry: Principles and Applications
- Introduction to Validation of Analytical Methods

EDUCATIONAL PRESENTERS



Rong Mao, MD

- Clinical Exome Sequencing
- Fragile X Syndrome: Interesting Cases
- Innovation in Molecular Diagnosis
- Introducing Next-Generation Sequencing in Clinical Diagnostics
- Molecular Diagnosis for Mitochondrial Disorders
- Using PCR in Molecular Diagnosis



Joe Miles, MT(ASCP), MHS

- Implementing a Diagnostic Utilization Management Program



Blaine Mathison, BS, M(ASCP)

- Anisakiasis and Trichinellosis
- Arthropod Ectoparasites
- Medical Entomology
- Morphologic Identification of Intestinal Protozoa
- Morphologic Identification of Microfilariae



Rodney R. Miles, MD, PhD

- Hematopathology and Personalized Medicine
- Lymphomas of the Central Nervous System



Jamie McDonald, MS, LCGC

- Molecular Diagnostics for Hereditary Hemorrhagic Telangiectasia
- Clinical and Molecular Diagnosis of HHT
- Diagnosis and Medical Management of HHT



Christine Miller, MS, LCGC

- Importance of Clinical Information for Optimal Genetic Test Selection and Interpretation



Gwen McMillin, PhD

- Detection of In Utero Drug Exposure
- Pharmacogenetics



Gordon Nelson, C(ASCP), NRCC-TC

- Clinical Drug Abuse Testing
- Cost-Effective Utilization of Urine Drug Testing for Chronic Pain Management Patients
- High-Resolution Hybrid Urine Drug Screen for Managing Costs and Time in Pain Management
- Observations in National Laboratory Inspections
- Testing by Mass Spectrometry



James McVey

- Communicating Hard Things
- Management Skills Needed to Work With and Motivate the Next Generation



Marzia Pasquali, PhD

- Disorders of Amino Acids Metabolism
- Fatty Acid Oxidation Defects
- Galactosemia
- Mucopolysaccharidoses
- Newborn Screening
- Organic Acidemias



Bonnie Messinger, CPHQ, Six Sigma Black Belt

- Creative Thinking and Problem Solving
- Designing for Improvement
- Error Proofing for the Laboratory
- Quality as a Systems Property



Jay L. Patel, MD

- Evolving Diagnosis of Myelodysplastic Syndromes in the Era of Genomic Medicine

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EDUCATIONAL PRESENTERS



John Penrose, BS

- IT Governance
- IT Management
- Laboratory Data Interfacing
- Laboratory Information Systems



Justin Rhees, MS, MLS(ASCP), SBB

- Advanced Antibody Identification: Case Studies
- Interprofessional Education: Applications for Medical Laboratory Science
- Introduction to Antibody Identification: Case Studies
- Laboratory Investigation of Transfusion Reactions: Case Studies
- Reporting Critical Values: Improving Efficacy with SBAR Techniques



Sherrie Perkins, MD, PhD

- Anemia and Effective Laboratory Testing
- Benign Lymphadenopathy
- Chronic Myeloproliferative Diseases
- Diagnosis and Laboratory Testing for AML
- Hematopathology and Personalized Medicine



George Rodgers, MD, PhD

- Case Studies in Hemostasis
- Heparin-Induced Thrombocytopenia
- Thrombophilia Testing: Useful or Not?
- Thrombotic Thrombocytopenic Purpura



Chérie Petersen, BA

- Are You a Customer Service "Have" or "Have Not"?
- Car Engines and Customer Service: What Do They Have in Common?
- Communicating When There is Potential for Conflict
- Communication Biohazard
- Communication Skills: How "Connected" Are You?
- The Customer-Driven Laboratory: Your Leadership Role in a Culture Reform
- Customer Service: What's in It for Me?
- Empowered Communications Through Behavior-Style Identification
- Exceptional Service Based on Principles
- If Only You Could Have a Do-Over: A Customer Service Case Study
- Leading with Authority Rather than Power
- Making Work Meaningful: The Key to Positive Morale
- Management Strategies for Creating a Culture of Service Excellence
- Pursuing Service Excellence
- Quantifying the Financial Impact of Service Excellence



Mohamed Salama, MD

- Pathology Applications of Digital Imaging
- Understanding Leukemia from a Lab Perspective
- Understanding Lymphoma from a Lab Perspective



Wade Samowitz, MD

- Molecular Testing in Colorectal Cancer
- Molecular Testing in Solid Tumors
- Pathways of Colorectal Carcinogenesis



Robert Schlaberg, MD, MPH

- HPV Testing for Cervical Cancer Screening: New Assays, New Questions
- Laboratory Diagnosis of *Clostridium difficile*-Associated Disease
- Molecular Testing for Sexually Transmitted Diseases
- Next-Generation Sequencing for Pathogen Detection



Patricia Slev, PhD

- Hepatitis C Viral Infection and IL28B Genotyping
- Newborn Screening for SCID
- Noninvasive Assessment of Liver Fibrosis (FibroMeter)
- Serologic Assays for Viral Hepatitis (A, B, and C) Infection
- Serologic Assays, Screening, and Confirmatory for HIV Infection

EDUCATIONAL PRESENTERS



Kristi Smock, MD

- Aspirin Resistance Testing
- von Willebrand Disease



Tom Wachter, MBA/HCM, SLS(ASCP)

- Disaster and Contingency Planning
- Laboratory Registration under CDC's Select Agents and Toxins program
- Laboratory Safety Programs
- Regulated Waste Management in the Laboratory



Joely Straseski, PhD, DABCC

- Assessing Fertility: Markers of Ovarian Reserve
- Calcium Homeostasis and Vitamin D: What Are Vitamin D Tests Actually Measuring?
- The Critical Role of the Laboratory in the Investigation of Hypoglycemia
- The Delta Check in Action: An Essential Quality Improvement Tool
- Laboratory Assessment of Renal Function
- Laboratory Testing for Diabetes: Old Assays, New Guidelines
- Measurements of Reproductive Function: From Ovulation to Menopause
- Method Evaluation Basics
- Reproductive Hormones: What, Why, and How Do We Measure Them?
- Utility of Mass Spectrometry in Endocrinology: Reports from the Front Line



Diana G. Wilkins, PhD, MS, MT(ASCP)

- Biomarkers of Acetaminophen Toxicity: Protein-Derived APAP-CYS and Other Indicators in the Overdose Setting
- Biomonitoring of Peri-conceptual Exposure to Selected Chemical Agents: the Bisphenol-A Example
- Forensic Toxicology in Postmortem Investigation: Tales from the Dead



Cal Williams, BS

- Inventory Control
- Materials Control
- Selecting the Best Kanban Program to Meet Your Needs and Pocketbook
- Warehousing



Anne Tebo, PhD

- Diagnosis of Celiac Disease and the Challenges of Diagnostic Algorithms
- Laboratory Evaluation of Inflammatory Bowel Disease—When Less Is More
- Laboratory Testing for Antiphospholipid Syndrome



Benjamin L. Witt, MD

- FNA Cytology of the Head and Neck: Common Cases and Their Possible Pitfalls
- Salivary Gland Pathology



Reha Toydemir, MD, PhD, FACMG

- Cytogenetic Analysis in Hematologic Neoplasms
- Genomic Microarray Analysis on Formalin-Fixed Paraffin-Embedded Tissue
- Genomic Microarray Analysis in Pregnancy Loss



Cheryl Vincent, MBA

- Developing Leadership Talent from Within
- Laboratory Results: Beyond Patient Testing

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