

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

- Clinical Exome Testing
- 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 Cytogenetic Testing: Applications for Children, Adults and in Pregnancy
- Cytogenetic Testing in Hematologic Disease: Methodologies, Application and Interpretation for Clinical Management
- Genomic Microarray Analysis for Hereditary Conditions and Cancer



Shelly Bosworth, MS, LCGC

- Navigating Genomic Test Orders: Indications and Detection Rates of Genomic Microarray, Exome Sequencing, and Karyotype Analysis
- Reproductive Genetic Screening Update



David Bahler, MD, PhD

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



Tiffany Bradshaw, MLS(ASCP)^{CM}

- Workforce Bullies in the Laboratory



Adam Barker, PhD

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



Mary Bronner, MD

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

EDUCATIONAL PRESENTERS



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



Ken Curtis, PBT(ASCP)

- Avoiding Specimen Collection Errors That Can Lead to Erroneous Results



Suzanne Carasso, MBA, MT(ASCP)

- Laboratory Stewardship: Redefining the Value of Laboratory Medicine
- Laboratory Stewardship: The Power of Appropriate Utilization
- The Sustainable Laboratory: New Perspectives on Laboratory Outreach



Anne Daley, MS, MT(ASCP)DLM, CSBB(ASQ)CMQ/OE

- Quality Management Systems
- Cost of Quality
- Managing Nonconformances
- Root Cause Analysis
- Continual Improvement
- ISO 15189 Implementation



Robert Carpenter, MS, MT(ASCP)

- Laboratory Networks and Networking
- Laboratory Stewardship: Why Your Laboratory Should Be Engaged in Test Utilization Management
- Realizing Cost Savings Through Laboratory Utilization Management: Putting Concepts into Practice



Irene De Biase, MD, PhD, FACMG

- Diagnostic Findings in Laboratory Testing for Inborn Errors of Metabolism: A Case-based Discussion
- 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: Do We Have a New Gold Standard?



Jonathan Carr, JD

- Corporate Compliance Programs
- Intellectual Property
- Privacy (HIPAA)
- Risk Management



Julio Delgado, MD, MS

- Clinical Testing for Monoclonal Antibody Therapeutics
- Diagnosis of Monoclonal Gammopathies
- Transplantation-related Testing



Elena Coupal, MS, LCGC

- Ethical and Legal Challenges in Genetic Testing
- Genetic Counselors' Roles in Pharmacogenetic Testing
- Genome Editing: Past, Present, and Future Applications
- Genetics and Genetic Counseling (*interactive presentation for groups of 10 or less*)
- Informed Consent for Genetic Testing



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
- What's New in Tickborne Diseases?



Michele Fisher, MT(ASCP)

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

EDUCATIONAL PRESENTERS



Andrew Fletcher, MD, CPE

- Empowering Your Organization to Demonstrate Value through Utilization Management
- Improving Utilization in the Laboratory and its Downstream Effect on Healthcare Cost
- Laboratory Stewardship: Taking the First Steps to Downstream Savings



Kent Gordon, CPA, MAcc

- Accounting Basics for Laboratory Management
- Blood Bank vs Piggy Bank: Keys to Harmonizing Mission and Margin
- Budgeting Basics for Laboratory Management
- Business Decisions in an Agile Culture
- Fitting Finance into the Laboratory
- Fundamentals of Laboratory Reimbursement
- Healthcare Business Fundamentals, Building Your Business Expertise



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



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



Elizabeth L. Frank, PhD, DABCC

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



Kimberly Hanson, MD, MHS

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



Larissa V. Furtado, MD

- Circulating Tumor DNA
- Interpretation and Reporting of Next Generation Sequencing Data in Oncology



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

- Bacteriology
- Case Studies in Microbiology
- Chronic Time Abuse
- Educational Design for Competency and Training in the Lab
- Laboratory Management
- TRASH-Performance Evaluations



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



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



Tracy I. George, MD

- Basics of Anemias
- Bench to Bedside: Advances in Mastocytosis
- CSF and Body Fluids
- Diagnostic Hematology
- Myeloproliferative Neoplasms
- Myelodysplastic Syndromes
- New Insights into Reactive Lymphadenopathies
- Principles of Automated Hematology

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EDUCATIONAL PRESENTERS



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



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
- The Future of Value Based Payments and its Impact on the Laboratory Industry



Elke Jarboe, MD

- Endometrial Intraepithelial Neoplasia
- Pelvic Serous Carcinogenesis



Marcia Jodah, MS, LCGC

- Prenatal Carrier Screening: Current Recommendations and Expanded Options



Kamisha Johnson-Davis, PhD, DABCC

- Testing for Alcohol Use Markers
- Testing for Ethanol Use in the Clinical Laboratory
- Therapeutic Drug Monitoring
- Urine Drug Testing



Michael Juretech, MBA, MT(ASCP)

- Converting Technical Expertise to Leadership Expertise
- Leading Change
- Managing Entry Level Employees



Kristin Hunt Karner, MD

- Morphologic evaluation of the Bone Marrow
- The Differential Diagnosis of Myelodysplastic Syndrome
- Mutations in Myeloid Malignancies: From CHIP to MDS



Danielle C. Kauffman, PharmD, MBA

- Lab & Pharmacy: Implementing Precision Medicine in a Hospital Setting
- Lab & Pharmacy: The Case for Precision Medicine in Clinical Practice
- Lab & Pharmacy: Turning a Daily Interaction into a Partnership



Patti Krautscheid, MS, LCGC

- Current Recommendations for Genetic Carrier Screening and Expanded Screening Options
- Strategies for Genetic Variant Reclassification
- Utilization Management Prevents Genetic Test Order Errors



Christina K. Kulakowski

- Behavior-Based Safety Programs
- CDC Select Agent
- Laboratory Chemical Hygiene
- Laboratory Ergonomics Programs
- Laboratory Infection Control
- Working Safely with Prions in the Lab



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



David J. Layton, MSOM

- Applying Lean Principles in the Clinical Laboratory
- Applying Value Stream Mapping and Other Lean Tools in the Clinical Laboratory
- Good Better Best—From Kaizen Event to Full Enterprise Lean
- 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

EDUCATIONAL PRESENTERS



Eszter Lazar-Molnar, PhD, D(ABMLI)

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



James McVey

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



Nicola Longo, MD

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



Rodney R. Miles, MD, PhD

- Lymphomas of the Central Nervous System
- Lymph Node Pathology: Adding Ancillary Testing to a Foundation of Morphology
- Bone Marrow Pathology: Rational Use of Ever-Increasing Ancillary Tests
- Classification of Leukemias and Lymphomas: Increasing Role of Molecular Testing



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



Christine Miller, MS, LCGC

- Cystic Fibrosis Diagnosis and Carrier Testing throughout the Lifespan: Utilizing Appropriate Testing Options
- Direct to Consumer Testing: A Genetic Counselor Perspective
- Exome Sequencing: When to Order, What to Expect?
- Optimizing Genetic Test Selection and Interpretation



Blaine Mathison, BS, M(ASCP)

- Laboratory Identification of Arthropod Ectoparasites
- Medical Entomology
- Morphological Identification of Plasmodium and Babesia
- Laboratory Diagnosis of Microfilariae
- Laboratory Identification of Intestinal Protozoa
- Laboratory Identification of Intestinal Helminths
- Zoonotic Helminths
- Morphologic Identification of Parasites in Histology Specimens



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



Jamie McDonald, MS, LCGC

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



Amanda Openshaw, MS, LCGC

- All in the Family: How Genetic Counselors Facilitate Familial Genetic Testing



Gwen McMillin, PhD

- Detection of In Utero Drug Exposure
- Pharmacogenetics
- Urine Drug Testing to Support Pain and Addiction Monitoring



Marzia Pasquali, PhD

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

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EDUCATIONAL PRESENTERS



Jay L. Patel, MD

- Evolving Diagnosis of Myelodysplastic Syndromes in the Era of Genomic Medicine
- Molecular Tools for Minimal Residual Disease Assessment in AML
- Practical Use of Next-Generation Sequencing in the Workup of AML Patients



Robert Schlberg, 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



Sherrie Perkins, MD, PhD

- Anemia and Effective Laboratory Testing
- Benign Lymphadenopathy
- Hematopathology and Personalized Medicine



Bonnie Scott, MPA

- Newborn drug screening. Good for baby. Good for mom.



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



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



Kristi Smock, MD

- Aspirin Resistance Testing
- Heparin-induced Thrombocytopenia
- von Willebrand Disease



George Rodgers, MD, PhD

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



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



Wade Samowitz, MD

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

EDUCATIONAL PRESENTERS



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



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



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



Cal Williams, BS

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



Cheryl Vincent, MBA

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



Samantha Wiley, MS, LCGC

- BRCA Testing Recommendations: It's Not Just Breast Cancer Anymore
- Hereditary Colorectal Cancer: When and How to Order Germline Testing
- Testing for Hereditary Cancer Syndromes: Genetic Counseling, Testing, and the Guidelines to Help



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



Benjamin L. Witt, MD

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

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