This list of ARUP Institute for Learning speakers comprises 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 the topics listed here, other subjects may be available upon consultation with the ARUP Institute for Learning.

Archana Agarwal, MD
Topics: Hematopathology
• Laboratory Diagnosis of Hemolytic Anemia
• Laboratory Diagnosis of Thalassemias and Hemoglobinopathies
• Update in Red Blood Cell Membrane Disorders

Pinar Bayrak-Toydemir, MD, PhD, FACMG
Topics: Molecular Genetics and Genomics
• Clinical Exome Testing
• HHT Testing
• Rett Syndrome
• Sequencing

Adam Barker, PhD
Topics: Microbiology
• Advances in the Acid Fast Bacterial Laboratory
• Laboratory Management During a Pandemic
• MALDI-TOF MS in the Clinical Microbiology Laboratory
• Molecular Testing for Mycobacterium tuberculosis

Mary Bronner, MD
Topics: Gastrointestinal (GI), Hepatic, and Pancreaticobiliary Pathology, and Molecular Oncology
• Barrett’s Esophagus
• Circulating Tumor DNA
• GI Pathology
• Hereditary GI Cancer Testing
• Idiopathic Inflammatory Bowel Disease

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EDUCATIONAL PRESENTERS

Karen Brown, MS, MASC, MLS(ASCP)TM
Topics: Hematology
• 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)
Topics: Specimen Management
• Avoiding Specimen Collection Errors That Can Lead to Erroneous Results
• Methods for Tracking, Communicating, and Reducing Specimen Collection Issues

Robert Carpenter, MS, MT(ASCP)
Topics: Laboratory Business Solutions
• 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
Topics: Biochemical Genetics
• 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
Topics: Legal
• Corporate Compliance Programs
• Intellectual Property
• Privacy (HIPAA)
• Risk Management

Julio Delgado, MD, MS
Topics: Immunology
• Clinical Testing for Monoclonal Antibody Therapeutics
• Diagnosis of Monoclonal Gammopathies
• Transplantation-Related Testing

Elena Coupal, MS, LCGC
Topics: Genetic Counseling
• 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 fewer)
• Informed Consent for Genetic Testing

Kelly Doyle, PhD
Topics: Clinical Chemistry and Endocrinology
• Adrenal Gland Function and Associated Laboratory Testing
• Direct and Indirect Methods for Reference Interval Determination
• Introduction to Clinical Mass Spectrometry
• Quality Management—Plan, Implement, Track, Improve

Mark Fisher, PhD, D(ABMM)
Topics: Bacteriology and Microbiology
• MALDI-TOF Bacterial Identification
• Methicillin-Resistant Staphylococcus aureus (MRSA)
• Sequencing Bacterial Identification

Marc Couturier, PhD
Topics: Infectious Disease
• Artificial Intelligence for the Detection of Gastrointestinal Parasites
• 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?
EDUCATIONAL PRESENTERS

Michele Fisher, MT(ASCP)
Topics: Quality Systems
- Creative Thinking and Problem Solving
- Designing for Improvement
- Error Proofing for the Laboratory
- Quality as a Systems Property

Andrew Fletcher, MD, MBA, CPE, CHCQM, FCAP
Topics: Laboratory Business Solutions
- Empowering Your Organization to Demonstrate Value through Utilization Management
- Impact of Pharmacogenetic Panel Testing on a Health Plan: Real Results from a Pharmacogenetic Pilot Program
- Improving Utilization in the Laboratory and Its Downstream Effect on Healthcare Cost
- Laboratory Evolution and Adaptation to Telemedicine: Are We Blockbuster in a Netflix World?
- Laboratory Stewardship: Taking the First Steps to Downstream Savings

Elizabeth L. Frank, PhD, DABCC
Topics: Clinical Chemistry
- Biochemical Evaluation of Pheochromocytoma
- Biogenic Amines
- Calculi and Calculi Risk Assessment
- Diagnosing Porphyria
- Laboratory Assessment of Renal Calculi
- Nutritional Assessment—Vitamin Testing
- Porphyrins and Porphyrias

H. Evin Gulbahce, MD
Topics: Breast Pathology
- 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?

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EDUCATIONAL PRESENTERS

David Hillyard, MD
Topics: Infectious Disease
• Advances in Hepatitis C Virus (HCV) Molecular Diagnostics and Treatment
• BK Virus Testing in Patients Undergoing Renal Transplants
• 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

Kristin Hunt Karner, MD
Topics: Hematopathology
• Bone Marrow Morphology
• Molecular Testing in Myeloid Neoplasms

Yuan Ji, PhD, DABCP, FACMG
Topics: Molecular Genetics and Genomics and Laboratory Leadership
• Applying VRIO Framework in Laboratory Strategic Planning
• Artificial Intelligence (AI) for Genomics Medicine
• Building a Sustained Laboratory Leadership Team with Both Medical Expertise and Business Mindset
• Cell-Free DNA-Based Noninvasive Test (NIPT) for Prenatal Aneuploidy Screen: Basics and Latest Developments
• Clinical Pharmacogenetics Testing: Caveats and Opportunities
• In-House Testing or Outsourcing?
• Introduction to Clinical Pharmacogenetics Testing
• Molecular Diagnosis of Skeletal Dysplasia
• Not All Clinical Pharmacogenetics Tests Are the Same: How to Evaluate?
• Prenatal Aneuploidy Screen Using Cell-Free DNA-Based Noninvasive Test (NIPT): Clinical Considerations and Recommendations
• Using LinkedIn to Build a Strong Personal and Organizational Brand

Marcia Jodah, MS, LCGC
Topics: Genetic Counseling
• Prenatal Carrier Screening: Current Recommendations and Expanded Options

Brian Jackson, MD, MS
Topics: Laboratory and Medical Director Leadership
• A Hippocratic Oath for the Diagnostic Industry: Linking Business Sustainability to Ethical Standards
• Analyzing Test-Ordering Patterns: Improving Diagnosis and Reducing Costs
• Ethical Development and Implementation of Artificial Intelligence in Laboratory Medicine
• Laboratory Formularies
• Metrics for Value-Driven Diagnostic Medicine
• The Future of Value-Based Diagnostic Medicine

Kamisha Johnson-Davis, PhD, DABCC (CC, TC)
Topics: Clinical Toxicology
• Drug Testing for in Utero Drug Exposure
• Nuts and Bolts of Drug Testing
• Testing for Alcohol Exposure Biomarkers
• Therapeutic Drug Monitoring

Elke Jarboe, MD
Topics: Gynecologic Pathology
• Endometrial Intraepithelial Neoplasia
• Pelvic Serous Carcinogenesis

Michael Juretich, MBA, MT(ASCP)
Topics: Laboratory Management
• Converting Technical Expertise to Leadership Expertise
• Leading Change
• Managing Entry-Level Employees

Patti Krautscheid, MS, LCGC
Topics: Genetic Counseling
• Current Recommendations for Genetic Carrier Screening and Expanded Screening Options
• Strategies for Genetic Variant Reclassification
• Utilization Management Prevents Genetic Test Order Errors

Kamisha Johnson-Davis, PhD, DABCC (CC, TC)
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Elke Jarboe, MD
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• Pelvic Serous Carcinogenesis
EDUCATIONAL PRESENTERS

Christina K. Kulakowski
Topics: Laboratory Safety
- Behavior-Based Safety Programs
- CDC Select Agents
- Laboratory Chemical Hygiene
- Laboratory Ergonomics Programs
- Laboratory Infection Control
- Working Safely with Prions in the Lab

Mark Kushnir, PhD
Topics: Mass Spectrometry
- 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

Blaine Mathison, BS, M(ASCP)
Topics: Infectious Disease
- Cases in Parasitology
- Laboratory Diagnosis of Microfilariae
- Laboratory Identification of Arthropod Ectoparasites
- Laboratory Identification of Intestinal Helminths
- Laboratory Identification of Intestinal Protozoa
- Medical Entomology
- Morphologic Identification of Parasites in Histology Specimens
- Morphologic Identification of Plasmodium and Babesia
- Zoonotic Helminths

David Layton, MSOM
Topics: Quality Systems
- 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

James McVey
Topics: Laboratory Leadership
- Communicating Hard Things
- Leveraging Generational Differences in the Laboratory
- Transitioning from Lab Staff to Lab Leader

Eszter Lazar-Molnar, PhD, D(ABMLI)
Topics: Immunology
- Functional Immune Testing for Defects in Innate and Adaptive Immunity
- HLA Testing for Disease Association Under Transplantation-Related Testing
- Immunopharmacology, Monitoring Immunotherapy, and Immunogenicity Testing
- Transplantation-Related Testing

Gwen McMillin, PhD
Topics: Clinical Toxicology and Pharmacogenetics
- Clinical Drug Testing
- Detection of In Utero Drug Exposure
- Mass Spectrometry in the Clinical Lab
- Pharmacogenetics

Nicola Longo, MD, PhD
Topics: Biomedical Genetics
- Defects of the Urea Cycle
- Disorders of Creatine Metabolism and Transport
- Inherited Disorders of Fatty Acid Oxidation
- Organic Acidemias

Rong Mao, MD, FACMG
Topics: Molecular Genetics and Genomics
- 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 Polymerase Chain Reaction (PCR) in Molecular Diagnosis

Jamie McDonald, MS, LCGC
Topics: Genetic Counseling
- Clinical and Molecular Diagnosis of HHT
- Diagnosis and Medical Management of HHT
- Molecular Diagnostics for HHT

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- Medical Entomology
- Morphologic Identification of Parasites in Histology Specimens
- Morphologic Identification of Plasmodium and Babesia
- Zoonotic Helminths
EDUCATIONAL PRESENTERS

Ryan A. Metcalf, MD, CQA(ASQ)
Topics: Transfusion Medicine
• Adverse Events Related to Blood Transfusion
• Patient Blood Management

Rodney R. Miles, MD, PhD
Topics: Hematopathology
• Bone Marrow Pathology: Rational Use of Ever-Increasing Ancillary Tests
• Classification of Leukemias and Lymphomas: Increasing Role of Molecular Testing
• Lymphomas of the Central Nervous System
• Lymph Node Pathology: Adding Ancillary Testing to a Foundation of Morphology

Christine Miller, MS, LCGC
Topics: Genetic Counseling
• 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?
• Exome Sequencing: A First-Line Test for Intellectual Disability
• Optimizing Genetic Test Selection and Interpretation

Karen A. Moser, MD
Topics: Hematology
• Direct Oral Anticoagulants (DOAC) and the Clinical Laboratory
• Laboratory Measurement of D-Dimer
• Lupus Anticoagulant Testing

Gordon Nelson, C(ASCP), NRCC-TC
Topics: Clinical Toxicology
• Clinical Drug Testing
• Cost-Effective Utilization of Urine Drug Testing for Patients with Chronic Pain
• High-Resolution Hybrid Urine Drug Screen for Managing Costs and Time in Pain Management
• Observations in National Laboratory Inspections
• Testing by Mass Spectrometry

Ryan Nelson, PharmD
Topics: Pharmacogenetics
• Germline Pharmacogenetics
• Precision Medicine in Cancer Care
• Somatic Pharmacogenetics

David P. Ng, MD
Topics: Hematopathology
• Diagnosis of Lymphoproliferative Neoplasms
• Diagnosis of Myeloid Neoplasm
• Flow Cytometry Artifacts and Panel Design
• Introduction to Gating Strategies
• Minimal Residual Disease Detection

Amanda Openshaw, MS, LCGC
Topics: Genetic Counseling
• All in the Family: How Genetic Counselors Facilitate Familial Genetic Testing

Rick Panning, MBA, MLS(ASCP)CM
Topics: Laboratory Business Solutions
• Decentralizing Testing in the Physician Office Lab Environment
• Lab 2.0
• Laboratory Workforce
• Leadership
• Regulatory and Legislative Updates—What Happens in Washington, D.C., Does NOT Stay in Washington, D.C.
• Optimizing Laboratory Care
• Personnel Licensure
• Succession Planning
• Total Cost of Care
• Utilization Management

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**EDUCATIONAL PRESENTERS**

**Marzia Pasquali, PhD**
Topics: Biochemical Genetics
- Disorders of Amino Acid Metabolism
- Fatty Acid Oxidation Defects
- Mucopolysaccharidoses
- Newborn Screening
- Organic Acidemias

**Lauren Pearson, DO, MPH**
Topics: Laboratory and Medical Director Management
- CLIA Regulations
- Method Validation and Verification: Case Studies and Laboratory Challenges

**Jay L. Patel, MD, MBA**
Topics: Hematopathology
- 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 Patients with Acute Myeloid Leukemia

**Chérie Petersen, BA**
Topics: Laboratory Communication, Engagement, Leadership, and Service
- Are You a Customer Service "Have" or "Have Not"?
- 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
- Leadership Strategies for Cultivating Engagement
- 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

**Bonnie Scott, MPA**
Topics: Clinical Toxicology

**George Rodgers, MD, PhD**
Topics: Hematology
- Case Studies in Hemostasis
- Heparin-Induced Thrombocytopenia
- Thrombophilia Testing: Useful or Not?
- Thrombotic Thrombocytopenic Purpura

**Wade Samowitz, MD**
Topics: GI Pathology and Molecular Oncology
- Molecular Testing in Colorectal Cancer
- Molecular Testing in Solid Tumors
- Pathways of Colorectal Carcinogenesis

**Robert Schlaberg, MD, Dr Med, MPH**
Topics: Infectious Disease
- Human Papillomavirus (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**
Topics: Immunology
- COVID-19 Serology
- Hepatitis C Viral Infection and IL28B Genotyping
- Infectious Disease Serology
- Newborn Screening for Severe Combined Immunodeficiencies (SCIDs)
- Noninvasive Assessment of Liver Fibrosis (FibroMeter) Serologic Assays for Viral Hepatitis (A, B, and C) Infection
- Serologic Assays, Screening, and Confirmatory for HIV Infection

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- Pathways of Colorectal Carcinogenesis

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- Serologic Assays, Screening, and Confirmatory for HIV Infection
EDUCATIONAL PRESENTERS

Kristi Smock, MD
Topics: Hematology
• Basic Coagulation Testing
• Heparin-Induced Thrombocytopenia
• von Willebrand Disease

Diana G. Wilkins, MS, PhD, MT(ASCP)
Topics: Clinical Toxicology
• Biomarkers of Acetaminophen Toxicity: Protein-Derived APAP-CYS and Other Indicators in the Overdose Setting
• Biomonitoring of Periconceptual Exposure to Selected Chemical Agents: The Bisphenol-A Example
• Forensic Toxicology in Postmortem Investigation: Tales from the Dead

Joely Straseski, PhD, MS, MT(ASCP), DABCC
Topics: Clinical Chemistry and Endocrinology
• Assessing Fertility: Markers of Ovarian Reserve
• Calcium Homeostasis and Vitamin D: What Are Vitamin Tests Actually Measuring?
• Diagnostic Tests Used to Assess Polycystic Ovary Syndrome (PCOS)
• Jumping the Pediatric Reference Interval Hurdles
• Laboratory Assessment of Renal Function
• Laboratory Testing for Diabetes
• Measurement of Parathyroid Hormone-Related Peptide (PTHrP) Using LC-MS/MS: Old Protein, New Assay
• Method Evaluation Basics
• More than a Flag: Myths and Realities of Interpreting Reference Intervals
• Reproductive Hormones: What, Why, and How Do We Measure Them?
• The Critical Role of the Laboratory in the Investigation of Hypoglycemia
• The Delta Check in Action: An Essential Quality Improvement Tool
• Thyroglobulin Antibody Testing: Do We Need It? How Do We Use It?
• Utility of Mass Spectrometry in Endocrinology: Reports from the Front Line
• What the Heck Is Anti-Müllerian Hormone?

Samantha Wiley, MS, LCGC
Topics: Genetic Counseling
• 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

Benjamin L. Witt, MD
Topics: Cytopathology
• Fine Needle Aspiration (FNA) Cytology of the Head and Neck: Common Cases and Their Possible Pitfalls
• Salivary Gland Pathology

Reha Toydemir, MD, PhD, FACMG
Topics: Cytogenetics and Genomics
• Cytogenetic Analysis in Hematologic Neoplasms
• Genomic Microarray Analysis on Formalin-Fixed Paraffin-Embedded Tissue
• Genomic Microarray Analysis in Pregnancy Loss

Yifei Yang, PhD
Topics: Clinical Toxicology
• Environmental Exposure Surveillance by Heavy Metal Testing
• Medical and Legal Implications for Toxicology Drug Testing
• Quality Assurance: Instrument Performance Comparison for Automated Sample Extractions in Mass Spectrometry Assays

Tom Wachter, MBA/HCM, SLS(ASCP)
Topics: Laboratory Safety
• Disaster and Contingency Planning
• Laboratory Registration under CDC’s Select Agents and Toxins Program
• Laboratory Safety Programs
• Regulated Waste Management in the Laboratory