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

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

David Bahler, MD, PhD
- Chronic Lymphocytic Leukemia
- Flow Cytometry Analysis of Leukemias and Lymphomas

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

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

Daniel Albertson, MD
- Urologic Pathology

Hunter Best, PhD
- Direct-to-Consumer Genetic Testing
- Gene Discovery in Pulmonary Hypertension
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

Robert Carpenter, MS, MT (ASCP)
- Realizing Cost Savings Through Laboratory Utilization Management: Putting Concepts into Practice

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

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

Ken Curtis, PBT (ASCP)
- Avoiding Specimen Collection Errors That Can Lead to Erroneous Results

Julio Delgado, MD, MS
- Diagnosis of Monoclonal Gammapathies
- Histocompatibility Testing
- Monitoring Response Failure to Anti-TNF-alpha inhibitors

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

Ammon T Ence, BS, MFET
- Start Fresh or Make Do: 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

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

Mark Fisher, PhD, D(ABMM)
- MALDI-TOF Bacterial Identification
- MRSA
- Sequencing Bacterial Identification

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
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- Lead with Confidence: Liberating the Leader in Yourself
- Point-of-Care Testing: Leading the Way

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 Porphyrias

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

**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

**Kimberly Hanson, MD, MHS**
- Fungal Diagnostics
- Viral Load Testing in Transplantation
- Cytomegalovirus Infections
- Update on Mycobacteriology

**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

**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

**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

**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

**Nahla Heikal, MD, MS**
- Paroxysmal Nocturnal Hemoglobinuria (PNH)

**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

**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

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**Elke Jarboe, MD**
- Endometrial Intraepithelial Neoplasia
- Pelvic Serous Carcinogenesis
EDUCATIONAL PRESENTERS

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

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

Mazdak A. Khalighi, MD
- Medical Renal Disease

Todd Kelley, MD
- Molecular Pathology of Hematopoietic Malignancies
- Next-Generation Sequencing of Hematologic Neoplasms

Christina K. Kulakowski
- Behavior-Based Safety Programs
- Laboratory Chemical Hygiene
- Laboratory Ergonomics Programs
- Laboratory Infection Control

Attila Kumanovics, MD
- Genetic Testing for Immunodeficiencies

Mark Kushner, 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
- 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

Eszter Lazar-Molnar, PhD, D(ABMLI)
- Immunoopharmacology, Monitoring Immunotherapy, and Immunogenicity Testing
- Functional Immune Testing for Defects in Innate and Adaptive Immunity
- Transplantation-related Testing

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

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

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

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
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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

Roderick 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
Kristi Smock, MD
- Aspirin Resistance Testing
- von Willebrand Disease

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

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

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

Benjamin L. Witt, MD
- FNA Cytology of the Head and Neck: Common Cases and Their Possible Pitfalls
- Salivary Gland Pathology

Cheryl Vincent, MBA
- Developing Leadership Talent from Within
- Laboratory Results: Beyond Patient Testing

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

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

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