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.

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<td>Adam Barker, PhD</td>
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<td>Eric F. Andersen, PhD, FACMG</td>
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<td>Shelly Bosworth, MS, LCGC</td>
<td>• Navigating Genomic Test Orders: Indications and Detection Rates</td>
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<td>David Bahler, MD, PhD</td>
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<td>Daniel Albertson, MD</td>
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EDUCATIONAL PRESENTERS

Karen Brown, MS, MLS(ASCP)
- 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

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

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

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

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?

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

Jonathan Carr, JD
- Corporate Compliance Programs
- Intellectual Property
- Privacy (HIPAA)
- Risk Management

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?

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

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

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

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

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

Larissa V. Furtado, MD
- Circulating Tumor DNA
- Interpretation and Reporting of Next Generation Sequencing Data in Oncology

Sue Garr, MT(ASCP)
- Managing Effective Changes in Support Services
- Quality and the Sendout Testing Department

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

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

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

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

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
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

Marcia Jodah, MS, LCGC
- PrenatalCarrierScreening:CurrentRecommendationsandExpandedOptions

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 Juretich 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

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

Elke Jarboe, MD
- Endometrial Intraepithelial Neoplasia
- Pelvic Serous Carcinogenesis

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
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EDUCATIONAL PRESENTERS

Attila Kumanovics, MD
• Genetic Testing for Immunodeficiencies

Blaine Mathison, BS, M(ASCP)
• Ansaziias and Trichinellosis
• Arthropod Ectoparasites
• Malaria Diagnosis
• Medical Entomology
• Morphologic Identification of Intestinal Protozoa
• Morphologic Identification of Microfilariae
• Zoonotic Helminths

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

Blaine Mathison, BS, M(ASCP)
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• Arthropod Ectoparasites
• Malaria Diagnosis
• Medical Entomology
• Morphologic Identification of Intestinal Protozoa
• Morphologic Identification of Microfilariae
• Zoonotic Helminths

Gwen McMillin, PhD
• Detection of In Utero Drug Exposure
• Pharmacogenetics
• Urine Drug Testing to Support Pain and Addiction Monitoring

Attila Kumanovics, MD
• Genetic Testing for Immunodeficiencies

Blaine Mathison, BS, M(ASCP)
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• Malaria Diagnosis
• Medical Entomology
• Morphologic Identification of Intestinal Protozoa
• Morphologic Identification of Microfilariae
• Zoonotic Helminths

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

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

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

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

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

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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

Molecular Testing in Colorectal Cancer
• Pathways of Colorectal Carcinogenesis

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

Marzia Pasquali, PhD
• Disorders of Amino Acids Metabolism
• Fatty Acid Oxidation Defects
• Galactosemia
• Mucopolysaccharidoses
• Newborn Screening
• Organic Acidemias

Wade Samowitz, MD
• Molecular Testing in Colorectal Cancer
• Molecular Testing in Solid Tumors
• Pathways of Colorectal Carcinogenesis

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

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

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

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.
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

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

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

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

Joely Straseski, PhD, DABCC
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