

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)<sup>CM</sup>**

- 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)<sup>CM</sup>**

- 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



**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?



**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



**Julio Delgado, MD, MS**

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



**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



**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



**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



**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?



**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

# EDUCATIONAL PRESENTERS



**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



**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)<sup>CM</sup> C**

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



**Sue Garr, MT(ASCP)**

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



**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



**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



**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



**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



**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

Advancing Education in Laboratory Medicine

[www.aruplab.com/education](http://www.aruplab.com/education)

# EDUCATIONAL PRESENTERS



**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



**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



**Marcia Jodah, MS, LCGC**

- Prenatal Carrier Screening: Current Recommendations and Expanded Options



**Attila Kumanovics, MD**

- Genetic Testing for Immunodeficiencies



**Kamisha Johnson-Davis, PhD, DABCC**

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



**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



**Michael Juretech MBA, MT(ASCP)**

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



**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



**Kristin Hunt Karner, MD**

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



**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

# EDUCATIONAL PRESENTERS



**Nicola Longo, MD**

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



**Gwen McMillin, PhD**

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



**Elaine Lyon, PhD**

- 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



**James McVey**

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



**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



**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



**Rodney R. Miles, MD, PhD**

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



**Blaine Mathison, BS, M(ASCP)**

- Anisakiasis and Trichinellosis
- Arthropod Ectoparasites
- Malaria Diagnosis
- Medical Entomology
- Morphologic Identification of Intestinal Protozoa
- Morphologic Identification of Microfilariae
- Zoonotic Helminths



**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



**Jamie McDonald, MS, LCGC**

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



**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

Advancing Education in Laboratory Medicine

[www.aruplab.com/education](http://www.aruplab.com/education)

# EDUCATIONAL PRESENTERS



**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



**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



**John Penrose, BS**

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



**Sherrie Perkins, MD, PhD**

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



**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



**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
- Heparin-induced Thrombocytopenia
- 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



**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

Advancing Education in Laboratory Medicine

[www.aruplab.com/education](http://www.aruplab.com/education)