



# **Inaugural Pathology Educational Symposium**

**September 10-12, 2013**

7:30a – 4:30p

Turner Auditorium  
720 Rutland Avenue  
Baltimore, MD 21205

Sponsored by the Department of Pathology

**Description:**

This Continuing Education event is intended for all Johns Hopkins Medicine Department of Pathology staff.

**Cost:** Free to Pathology employees.

**Pre-registration is required.**

**JHM ID required.**

**Lunch:** 12:00-12:45p, provided with pre-registration depending on time of the session.

**Tuesday, September 10, 2013**

***7:30-8:30a: Registration and Introductions (Turner Vestibule)***

**8:30-9:30a:**

## **Know Your Team**

**Course #** 612-001-13 /1.0 credit hour

Anita Morris-Hopkins

Laboratory Support Services Supervisor, Surgical Pathology Lab, The Johns Hopkins Hospital

**Level of Instructions:** Basic

**Target Audience:** Supervisors and leads

**Description:** This presentation is designed to help supervisors better know the people they are leading. Attendees will learn how to build relationships that can make a difference between an employee staying or leaving. In this discussion attendees will learn how to create an environment of trust in which the team feels motivated to meet goals and contribute to the success of the department. Your team will recognize your genuine efforts to get to know their perspectives and contributions.

**Objectives:**

At the completion of the presentation, the audience will be able to:

- Explain how to improve your work environment.
- Identify two helpful ways of getting to know your team.
- Formulate a way to increase your accuracy of perception, to become a better observer.
- Demonstrate how to work with people who have different styles.

**Tuesday, September 10, 2013**

**8:30-10:00a:**

## **Autoantibodies as Diagnostic Markers for Autoimmune Disease**

**Course #** 612-002-13 / 1.5 credit hours

Grzegorz Gurda, MD

Pathology Resident, Johns Hopkins University School of Medicine

Meg Halvorsen, MLS(ASCP)<sup>CM</sup>

Lead Technologist, Immunology Laboratory, The Johns Hopkins Hospital

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** Discuss the general methods of testing for autoimmune diseases that are used in the immunology laboratory and how to interpret the results. Discuss future testing for autoimmune diabetes in the immunology laboratory.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Explain the basic mechanisms that may be involved in autoantibody production and the development of systemic autoimmune diseases.
- Describe the two general methods of clinical laboratory testing for autoimmune diseases used in the immunology laboratory.
- Describe the five ANA patterns that may be associated with various systemic autoimmune diseases.
- Identify the relevant clinical features and laboratory-based diagnosis of autoimmune diabetes.

**Tuesday, September 10, 2013**

**9:45-10:45a:**

## **MRSA, VRE, CRE....Oh, My! Preventing Infections in the Healthcare Setting**

**Course #** 612-003-13 / 1.0 credit hours

Melanie Gavin M(ASCP)<sup>CM</sup>, CIC

Infection Control Epidemiologist, Hospital Epidemiology & Infection Control, The Johns Hopkins Hospital

**Level of Instruction:** Intermediate

**Target Audience:** All are welcome

**Description:** Ever wonder what a healthcare-associated infection is? Have you ever entered the room of a patient who is on precautions? Why is one patient on Contact, while another is on Airborne? Join us for an explanation as to what healthcare-associated infections are, their impact at JHH and in the US, common organisms found in a healthcare setting, and how to prevent these infections.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Define healthcare-associated infections (HAIs).
- Summarize the impact of HAIs.
- Identify strategies to prevent HAIs.
- List at least two organisms that are of concern for HAIs.
- Differentiate types of transmission-based precautions.
- Describe a mode of transmission for at least one common healthcare-associated infection.

**Tuesday, September 10, 2013**

**10:30-12:00p:**

## **Allergy Immunotherapy: Cure or Band-Aid?**

**Course #** 612-004-13 /1.5 credit hours

Whitney Green, MD

Pathology Resident, Johns Hopkins University School of Medicine

LuAnn Rezavi, MLS (ASCP)<sup>CM</sup>

Lead Technologist, Immunology Laboratory, The Johns Hopkins Hospital

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** Food allergies affect many individuals and may have serious complications. Join us for a discussion of the concepts of food allergy with a focus on treatment, specifically the effectiveness of Immunotherapy.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Explain the prevalence, basic mechanisms and clinical manifestations of food allergy.
- Describe the three methods of immunotherapy treatment for allergy.
- Discuss the theoretical basis of allergy immunotherapy.
- Review the current clinical effectiveness of food allergy immunotherapy.

**Tuesday, September 10, 2013**

**11:00-12:00p:**

## **Handling & Safe Use of Chemicals in the Laboratory**

**Course #** 612-034-13 / 1.0 credit hour

**John Schaefer, MFS, CIH, HEM, CPEA, CHEC**

Associate Director, Health, Safety & Environment Department, The Johns Hopkins University School of Medicine

**James Bukowski, MS, CIH**

Environmental Health Officer, Health, Safety & Environment Department, The Johns Hopkins University School of Medicine

**Level of Instruction:** Intermediate

**Target Audience:** All are welcome

**Description:** The OSHA Hazard Communication Standard has been updated to align with the Globally Harmonized System of Classification and Labeling Chemicals (GHS) and was published in the Federal Register on March 26, 2012. Attend this session to learn how the revised standard will be implemented and how it will improve the quality of hazard communication in the workplace.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Prepare for changes made to OSHA's Hazard Communication Standard.
- Identify changes to hazard classifications, chemical labels, and material safety sheets.
- Describe training for the handling of hazardous materials specific to the laboratory.
- Explain how to access Chemwatch to obtain information on the safe use of hazardous chemicals.
- Summarize safe workplace practices such as spill/splash procedures, use of appropriate PPE, and fume hood usage.

**Tuesday, September 10, 2013**

**1:00-2:00p:**

## **Utility of Laboratory Testing for Drug Safety**

**Course #** 612-006-13 /1.0 credit hour

**William Clarke, PhD, DABCC, MBA**

Associate Professor of Pathology, Director of Clinical Toxicology, Director of Critical and Point-of-Care Testing, Johns Hopkins University School of Medicine

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** This talk will focus on the use of therapeutic drug monitoring and pharmacogenetic testing in the laboratory as a tool for optimizing patient safety.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Discuss the role of blood level monitoring for drug safety.
- Define pharmacogenetic testing.
- Discuss how pre-therapeutic pharmacogenetic testing can improve patient safety.

**Tuesday, September 10, 2013**

**1:00-2:30p:**

## **ABO/Rh Discrepancy Case Studies**

**Course #** 612-007-13 / 1.5 credit hours

**Heather Smith, MLS(ASCP)<sup>CM</sup>SBB**

Clinical Laboratory Scientist 3, Transfusion Medicine, The Johns Hopkins Hospital

**Rebecca Perry, MLS(ASCP)<sup>CM</sup>**

Clinical Laboratory Scientist 3 & SBB student, Transfusion Medicine, The Johns Hopkins Hospital

**Rebecca Asch-Kendrick, MD**

Pathology Resident, Johns Hopkins University School of Medicine

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** ABO and D typings are the most important testing performed in the blood bank. They provide important information about patients that influences their treatment in relation to blood transfusions, RhIg administration, bone marrow and organ transplants, and newborn evaluations. When ABO and Rh discrepancies are detected in the lab, it can be due to a variety of circumstances including phlebotomy, patient diagnosis or treatment, or immunologic causes. It is important that the lab resolve the discrepancy to ensure proper treatment for patients.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Recognize at least two ABO/Rh results that are discrepant.
- Identify two conditions that can result in a patient having an ABO/Rh discrepancy.
- Propose a method to resolve an ABO/Rh discrepancy given initial testing results.
- Predict at least one ABO/Rh result that may be seen given a patient's medical history.

**Tuesday, September 10, 2013**

**2:15-3:15p:**

## **Understanding the Epic HIS - Provider Ordering of Laboratory Tests**

**Course #** 612-005-13 /1.0 credit hour

P. Michael Huppenthal, MS, MT(ASCP)

Pathology Project Administrator, The Johns Hopkins Hospital

**Level of Instruction:** Basic

**Target Audience:** All are welcome

**Description:** This presentation provides an overview of the Epic Hospital Information System (HIS) from the perspective of the Ordering Provider. The presentation will focus on key terms and lingo commonly referenced by Epic users. We will focus on the workflow for placing laboratory orders and how issues within lab resulting impact the electronic medical record (EMR). A key feature of the Epic HIS is the linkage of the electronic order to the final solicited result. Alterations to the original lab order circumvent key features of the EMR.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Define key terms related to Epic Lab Ordering (EAP, EDP, LRR, Tree, Agency, Frequency, Lab Collect, Clinic Collect, Standing, Question, Radial Button, etc.).
- Summarize the various pathways by which labs can be ordered.
- Recognize the complexity of searching the Epic database for tests not on the preference lists.
- Explain the difference between a solicited result and an unsolicited result.
- Identify the workflow for clinic-collected specimens from the HIS to the LIS.

**Tuesday, September 10, 2013**

**3:00-4:30p:**

## **Platelets – What are the Current Concerns Related to Platelet Transfusion?**

**Course #** 612-009-13 /1.5 credit hours

**Karen E. King, MD**

Director, Hemapheresis and Transfusion Support Services (HATS), Johns Hopkins University School of Medicine

**Alice Fuller, PA**

Lead Transfusion Coordinator, Hemapheresis and Therapeutic Support Services (HATS), The Johns Hopkins Hospital

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, transfusionists, and other interested persons

**Description:** Coordinating platelet transfusions involves good communication between the supplier, blood bank, and physicians to ensure appropriate product usage and supply due to their five-day expiration. Product selection becomes very important when determining why a patient is refractory to platelet products that may be due to platelet refractoriness or other medical issues. It is not only about selecting the right product, but also preventing unwanted transfusion reactions like urticarial or anaphylactic types of reactions to platelet products.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- List at least two ways JHH ensures appropriate product usage and supply.
- Identify two causes for platelet refractoriness and how they are approached when selecting platelet products.
- Recommend at least two mechanisms to help prevent allergic platelet transfusion reactions.

**Tuesday, September 10, 2013**

**3:30-4:30p:**

## **Going Green: The Journey**

**Course #** 612-010-13 / 1.0 credit hours

Karen Wittler, HT(ASCP)

Histology Lab, Anatomic Pathology, The Johns Hopkins Hospital

**Level of Instruction:** Basic

**Target Audience:** All are welcome

**Description:** You are invited to take a journey with the speaker that began to reduce hazardous waste and provide better patient care. This session describes a lab's journey to "Go Green" using the "Three Step Roadmap." For example, The Johns Hopkins Green Team and Stericycle rolled out a fully integrated waste program to introduce recycling and decrease regulated medical waste. We are now actively involved in Reducing, Reusing and Recycling! This journey is far from over. We can move forward together to provide a safer work environment and preserve health on our planet.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Demonstrate how new information obtained at a conference can produce surprising results.
- Identify and recommend approaches and resources that are available for "Going Green" in the lab, even through adversity.
- Plan and organize ways to encourage staff "buy in" to a "Going Green" movement.

**Wednesday, September 11, 2013**

***7:30-8:30a: Registration and Introductions***

**8:30-9:30a:**

## **Flow Cytometry in the Clinical Laboratory**

**Course #** 612-011-13 / 1.0 credit hours

Michael Borowitz, MD, PhD

Deputy Director for Education; Deputy Director for Clinical Affairs; Director, Division of Hematologic Pathology, Johns Hopkins University School of Medicine

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** Flow cytometry has evolved from a research technology to a routine modality that can be adapted for many different applications in the clinical laboratory. This talk will present an introduction to flow cytometry, covering both technical and applied aspects, and illustrate not only current but also some future clinical applications of this technology.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Describe the different functional components of a flow cytometer.
- Discuss the differences between a general purpose flow cytometer and a hematology cell counter.
- List at least four different applications of flow cytometry in the clinical laboratory.
- Discuss the advantages and limitations of using large numbers of different colors (“polychromatic flow cytometry”).

**Wednesday, September 11, 2013**

**8:30a-9:30a:**

## **MALDI-TOF: An Introduction to Bacterial Laser Tag**

**Course #** 612-012-13 /1.0 credit hour

Brandon Ellis, MLS (ASCP)<sup>CM</sup>

Lead Technologist in Bacteriology, Medical Microbiology, The Johns Hopkins Hospital

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** An introduction to MALDI-TOF (matrix-assisted laser desorption/ionization time of flight) mass spectrometry and its impact on laboratory workflow, cost savings, and patient care. This includes an overview of MALDI-TOF applications for bacteria, fungi, and mycobacteria, as well as susceptibility testing and strain typing.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Demonstrate a basic understanding of MALDI-TOF principles and methodology.
- Discuss impact on the microbiology laboratory and patient care (cost savings, time to identification, etc.).
- Develop an understanding of the future applications of MALDI-TOF.

**Wednesday, September 11, 2013**

**8:30-12:00p:**

## **Generational Differences**

**Course #612-013-13 /3.0 credit hours**

Julia Jorczak and Anne Moore

Talent Management Consultants, Talent Management and Organization Development, The Johns Hopkins University

**Level of Instruction:** Basic

**Target Audience:** All are welcome

**Description:** For the first time in history, there are four generations working side by side in the workplace. In this workshop, participants will have an opportunity to take part in exercises that explain how each generation is unique, review perceptions around the generations, and learn how to leverage generational differences to create a culture of excellence.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Identify the different generations who make up today's workforce.
- Discuss the benefits of multi-generational teams.
- Complete an exercise on values and circumstances that make each generation unique.
- Discuss the perceptions of different generations through scenario-based exercises.
- Discover how an understanding of generational characteristics can be used to build and strengthen working relationships.

**Wednesday, September 11, 2013**

**9:45a-10:45a:**

## **Zygomycosis: When Bread Mold Breaks Bad**

**Course #** 612-014-13 / 1.0 credit hour

Nicole Kwiatkowski, MLS(ASCP)<sup>CM</sup>

Supervisor, Medical Microbiology, The Johns Hopkins Hospital

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** A review of Zygomycosis and its etiologies. Review Zygomycete classification, nomenclature and identification using morphological characteristics. Review treatment guidelines for Zygomycosis.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Identify the most commonly encountered Zygomycetes.
- Describe Zygomycosis and identify risk factors.
- Categorize Zygomycetes in the appropriate order.
- Restate treatment guidelines for Zygomycosis.

**Wednesday, September 11, 2013**

**9:45a-10:45a:**

## **Molecular Diagnosis of Solid Tumors**

**Course #** 612-015-13 / 1.0 credit hour

**Ming-Tseh Lin, MD, PhD**

Assistant Professor of Pathology, Division of Molecular Pathology, Johns Hopkins University School of Medicine

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** CLIA requirements for test validation depend on whether the tests are FDA-approved or cleared. The validation process of a laboratory-developed test includes confirmation of the analytic performance characteristics and clinical performance characteristics (or clinical validity) of the assay. Molecular diagnostic tests for solid tumors, such as EGFR gene mutation for lung cancers and KRAS gene mutation for colorectal cancers, have become more and more intriguing for personalized treatment of cancer patients. These tests provide information for diagnosis of cancers, guide for therapies, and prediction of outcomes.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Apply principles for validating molecular diagnostic tests.
- Identify current molecular tests for cancers at The Johns Hopkins Hospital.

**Wednesday, September 11, 2013,**

**11:00-12:00p:**

## **Weird Micro: Can You Guess These Interesting Organisms from the Johns Hopkins Clinical Lab?**

**Course #** 612-016-13 /1.0 credit hour

Paula Mister, MS, MT, SM (ASCP)<sup>CM</sup>

Educational Coordinator, Medical Microbiology, The Johns Hopkins Hospital

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** Case presentations of unusual pathogenic microorganisms, or pathogens from unusual body sources, from patient specimens received in the Johns Hopkins Microbiology Laboratory. This will be an interactive session in which clues and information will be given to assist participants in making the diagnosis, along with brief discussion of methods to assist laboratorians in identification of these pathogens.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Integrate information from patient history, lab results, and additional clues provided to postulate microbiological pathogens from the cases presented.
- Develop an increased awareness and recognition of potentially unusual pathogens, or pathogens from unusual sources, in the clinical laboratory.
- Discuss laboratory methods that can help detect unusual pathogens in an accurate and timely way.

**Wednesday, September 11, 2013**

**11:00-12:00p:**

## **Clinical Applications of Next Generation Sequencing**

**Course #** 612-017-13 / 1.0 credit hour

James Eshleman, MD, PhD

Professor of Pathology and Oncology, Associate Director, Molecular Diagnostics Laboratory, Johns Hopkins University School of Medicine

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** In this one-hour lecture, Dr. Eshleman will provide an overview of next generation sequencing (NGS), a new technology that has revolutionized biomedical research, and will revolutionize the clinical practice of medicine. He will highlight some stunning success stories and provide an overview of the technology. DNA sequencing has traditionally started with one patient sample (or organism from one patient), isolated one region of DNA from it, performed a sequencing reaction in a single tube, and then analyzed it in a single lane of a gel or a single capillary. Next generation sequencing is also known as "massively parallel" DNA sequencing because millions-to-billions of such reactions occur simultaneously. As a function of time, costs of NGS have gone down and throughput has increased, and these changes have exceeded Gordon Moore's Law for advances in semiconductor technology.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Recognize the past and future impact of NGS on biomedical research.
- Appreciate the fundamental concepts of NGS.
- Predict the likely future impact of NGS on the clinical practice of medicine.

**Wednesday, September 11, 2013**

**1:00-2:00p:**

## **Blood Transfusion: Guidelines, Controversies, and Clinical Outcomes**

**Course #** 612-018-13 / 1.0 credit hour

**Steven M. Frank, MD**

Director, Perioperative Blood Management Services, Department of Anesthesiology/Critical Care Medicine, Johns Hopkins Medical Institutions

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, phlebotomists, transfusionists, and other interested persons

**Description:** Blood management is the optimization of blood transfusions through the use of strategies to limit blood loss and setting transfusion guidelines to improve patient outcomes.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Describe published clinical guidelines and indications for blood transfusion in a variety of clinical settings.
- Identify both the accepted and controversial risks of exposure to allogeneic blood products.
- Compare and systematically assess methods of blood conservation, as well as retrospective and prospective clinical studies relating to blood transfusion and clinical outcomes.

**Wednesday, September 11, 2013**

**1:00-2:00p:**

## **Cytogenetic Diagnosis of Hematologic Malignancies**

**Course #** 612-019-13 / 1.0 credit hour

Yi Ning, MD, PhD

Associate Professor of Pathology, Director of Cancer Cytogenetics Lab, The Johns Hopkins Medical Institutions

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** Cytogenetic analysis of hematologic malignancies plays a crucial role in the diagnosis and clinical management of patients. Recurrent cytogenetic abnormalities are associated with clinical characteristics and treatment outcomes in specific types of hematologic malignancies. Identification of these abnormalities has important prognostic value and contributes to therapeutic decisions.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Recognize common types of chromosome abnormalities in hematologic malignancies.
- Order proper cytogenetic tests offered in our lab, including karyotyping, fluorescence in situ hybridization (FISH), and microarray analysis.

**Wednesday, September 11, 2013**

**1:00-4:30p:**

## **Crucial Conversations**

**Course #** 612-020-13 /3.0 credit hours

Jennifer Clarke, MS, ABS

Organization Development Consultant, The Johns Hopkins Hospital

Doris Pendergrass, SPHR

Human Resources Manager, Department of Pathology, The Johns Hopkins Medical Institutions

**Level of Instruction:** Basic

**Target Audience:** All are welcome

**Description:** Have you ever seen something happen that made you feel like you should speak up, but didn't have the nerve? Are you hesitant to speak up to someone because he or she is at a higher level than you or just makes you feel uncomfortable? Are you frustrated by someone on your team who doesn't pitch in to help, but you don't say anything? You will learn vital skills that enable you to create conditions where people speak with complete candor (no matter the topic) and with complete respect (no matter the person or position). These skills can drive dramatic improvements in patient safety and quality care. This is a primer version of a 1.5 day course; participants will learn skills and useful tools and may register for the full course at a future opportunity (JHH).

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Identify when the conversation becomes crucial.
- Recognize and diffuse silence and defensiveness and make it safe to speak up.
- Identify and express what you really mean.

**Wednesday, September 11, 2013**

**2:15-3:15p:**

## **Meeting the Demand: Utilizing Technology to Ensure Transfusion Safety**

**Course #** 612-021-13 / 1.0 credit hour

Gwen Howell, MS, MLS(ASCP)<sup>CM</sup>

Lead Technologist, Transfusion Medicine, The Johns Hopkins Hospital

**Level of Instruction:** Basic

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, phlebotomists, transfusionists, and other interested persons

**Description:** Blood utilization and transfusion safety are major concerns for the Transfusion Service. This is an introduction on how the use of technology can assist in providing blood products quickly and ensure transfusion safety.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Identify methods for providing blood products to critical areas.
- Describe transfusion safety practices.
- Summarize advantages and challenges of implementation and use of emerging blood product distribution technology.

**Wednesday, September 11, 2013**

**2:15-3:15p:**

**Laboratory Capacity Building for International Clinical Research: The JHU-BJMC Pune, India Example**

**Course #** 612-022-13 / 1.0 credit hour

**Amita Gupta, MD, MHS**

Associate Professor of Medicine and International Health Deputy Director for Clinical Global Health Education, The Johns Hopkins University School of Medicine

**Level of Instruction:** Intermediate

**Target Audience:** All are welcome

**Description:** Conducting international clinical research requires significant laboratory capacity building, e.g., appropriate training and oversight of staff, establishment and maintenance of proper lab infrastructure and equipment, and participation in external quality assurance programs. This lecture will provide the JHU-BJMC HIV Clinical Trials Unit example and an overview of the key components that were involved in developing the appropriate laboratory capacity.

**Objectives:**

At the completion of the presentation, the audience will be able to:

- Recognize key components necessary to establish an international lab for clinical research.
- Identify at least two challenges and solutions that had to be implemented.
- Identify resources that can assist with the process of establishing lab capacity.

**Wednesday, September 11, 2013**

**3:30-4:30p:**

## **A Year in the Life of a SMILE-Supported Lab**

**Course #** 612-023-13 / 1.0 credit hour

Anne Sholander, BS, MT(ASCP)

Sr. International QA/QC Coordinator, Patient Safety Monitoring in International Laboratories (SMILE), Johns Hopkins University School of Medicine

**Level of Instruction:** Intermediate

**Target Audience:** All are welcome

**Description:** Patient Safety Monitoring in International Laboratories (SMILE) is a contract resource between the NIH Division of AIDS and JHU. The SMILE team is composed of highly experienced medical technologists who assist international laboratories that perform DAIDS-sponsored HIV research with laboratory quality assurance. In this presentation we'll explain what the SMILE primary functions are and how we support, teach and assist international laboratories.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Name the partners in HIV research that make up the support team for DAIDS-funded labs.
- List the core functions of a SMILE contract.
- Summarize the yearly cycle of QA support for SMILE labs.
- Recognize the impact that laboratory quality improvement has on international healthcare.

**Wednesday, September 11, 2013**

**3:30-4:30p:**

## **Hurricane Katrina: One Blood Bank Supervisor's Story**

**Course #** 612-024-13 / 1.0 credit hours

William M. Montgomery, Jr., MT(ASCP)SBB

Lead Technologist, Transfusion Medicine, The Johns Hopkins Hospital

**Level of Instruction:** Intermediate

**Target Audience:** All are welcome

**Description:** Natural disasters can have a major impact on how a hospital laboratory can function. Those impacted areas include staffing, blood supply, and electricity requirements. The laboratory/blood bank must be prepared for the potential impact and aftermath of natural disasters.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Define the inventory requirements in anticipation of a hurricane.
- Describe the storage options for blood products during a power outage.
- Recognize the disaster documentation that must be produced for regulatory agencies.

**Thursday, September 12, 2013**

***7:30-8:30a: Registration and Introductions***

**8:30-9:30a:**

## **The Pancreas**

**Course #** 612-025-13 / 1.0 credit hours

Thomas Gniadek, MD, PhD

Pathology Resident, Johns Hopkins University School of Medicine

**Level of Instruction:** Basic

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** An understanding of the anatomy and physiology of the human pancreas provides the basis for our understanding of pancreatic pathology. Key features of pancreatic histology and cell biology will be discussed, in addition to an overview of pancreatic exocrine and endocrine function.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Identify cell types present within the pancreas and understand their function.
- Describe the regulation and function of secreted pancreatic enzymes and hormones.

**Thursday, September 12, 2013**

**8:30-10a:**

## **Legal Pitfalls of Social Media**

**Course #** 612-026-13 /1.5 credit hours

Jeffrey Natterman, RRT, MA, JD

Risk Manager for Johns Hopkins Hospital, and Associate Senior Counsel for the Johns Hopkins Health System

**Level of Instruction:** Basic

**Target Audience:** All are welcome

**Description:** Social media can be used to rapidly transmit personal and professional information whether from person-to-person through messaging systems, or to whole groups through Web-based postings. Health care professionals (HCPs) specifically are exposed to various regulatory requirements when posting information via the Internet and, therefore, exposed to multiple forms of liability. HCPs may be sued based on any of a number of civil causes of action, prosecuted for criminal code violations, or face administrative sanctions with regard to licensure issues. Also, remedies against Internet providers are regulated by the federal Communications Decency Act (CDA), and the law in this area can be confusing.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Recognize the basic legal principles behind social media regulation in the United States.
- Discuss case law regarding liability issues of social media.
- Apply their understanding of social media legal liability to their professional practice, particularly with regard to licensure.

**Thursday, September 12, 2013**

**8:30-12:00p:**

## **Disruptive Behavior in the Workplace**

**Course #** 612-027-13 / 3.0 credit hours

**Michelle Carlstrom, LCSW-C**

Senior Director, Office of Work, Life and Engagement, The Johns Hopkins University

**Errin Britt, JD, PHR**

Program Manager, Workplace Risk Management, The Johns Hopkins Medical Institutions

**Doris Pendergrass, SPHR**

Human Resources Manager, Dept. of Pathology, The Johns Hopkins Medical Institutions

**Level of Instruction:** Intermediate

**Target Audience:** Leads, supervisors, managers, and faculty only

**Description:** Review real workplace cases of disruptive behavior; explore warning signs and behavior patterns. Learn how to create a work environment that reduces risks and address issues before they become problems.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Identify signs of disruptive behaviors.
- Assess and recommend ways to handle disruptive behavior situations.
- Create a work environment that reduces risks.
- Locate internal resources available for assistance (e.g., Risk Assessment, FASAP).

**Thursday, September 12, 2013**

**9:45-10:45a:**

## **Pathology of the Pancreas: Gross Examination is the First Step towards the Correct Diagnosis**

**Course #** 612-028-13 / 1.0 credit hours

**Ralph Hruban, MD**

Professor of Pathology and of Oncology, Johns Hopkins University School of Medicine & Director of the Sol Goldman Pancreatic Cancer Research Center

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** A careful gross examination of surgically resected pancreatic tumors is critical to establishing the correct diagnosis. This is particularly true for cystic neoplasms. Documenting the relationship of cysts to the larger pancreatic ducts, the location of the mass (head vs. tail), the presence or absence of a central scar, and the character of the cyst fluid are all critical diagnostic features. The key diagnostic features of the main cystic neoplasms will be discussed with an emphasis on their gross features.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Give an example of a cystic neoplasm that preferentially arises in the tail of the pancreas.
- Identify the most common cyst contents.
- Recognize the importance of documenting the relationship of cysts in the pancreas to the pancreatic duct system.

**Thursday, September 12, 2013**

**10:30-11:30a:**

## **Hidden Beauty**

**Course #** 612-029-13 /1.0 credit hours

**Norm Barker, MA, MS, RBP**

Associate Professor of Pathology and Art as Applied to Medicine, and Director of Pathology Photography and Graphic Arts, the Johns Hopkins University School of Medicine

**Level of Instruction:** Intermediate

**Target Audience:** All are welcome

**Description:** The scientific image no matter what discipline, medicine, chemistry, biology, oceanography, etc., is essential for the transfer of knowledge. We are a visual culture and observation is such an important part of the scientific method. As far back as the ancient Egyptians more than 5000 years ago, documents have been unearthed describing empirical methods in medicine, astronomy, and mathematics. The need for high-quality visuals to explain or document complicated medical processes is more important than ever for teaching, scientific publications, and funding. Whether a computer graphic, video segment, photograph, illustration, or X-ray, all types of media are used to visualize science.

The art of the scientific image and its role in the advancement of science from the time of the Renaissance through the invention of photography will be explored.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Recognize the importance of a high-quality scientific image.
- Evaluate what is the best tool to use to communicate your findings.
- Appreciate the beauty of an elegantly designed image/illustration.

**Thursday, September 12, 2013**

**11:00-12:00p:**

## **Genomic Classifiers of Tumors**

**Course #** 612-030-13 / 1.0 credit hours

William I. Smith, Jr., MD

Medical Director, Laboratory Services, Suburban Hospital

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** Traditional classifiers of malignant neoplasms include size, histological grade and nodal status, and are prognostic of survival. Genomic classifiers include gene expression, gene copy number and mutations, and may be both predictive prognostic of survival and predictive of treatment response. Oncotype DX provides both prognostic and predictive information, and will be used as a model for genomic classifiers.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Describe how quantitative gene expression can be used as a genomic classifier.
- Explain how genomic classifiers are validated.
- Identify how genomic classifiers can be used in the selection of drug treatment protocols.

**Thursday, September 12, 2013**

**1:00-2:00p:**

## **Platelet Glycoprotein Variants: From Bleeding to Thrombosis**

**Course #** 612-031-13 / 1.0 credit hour

Thomas S. Kickler, MD

Professor of Pathology, Medicine and Oncology; Director, Hematology and Coagulation Laboratories; and Co-Director of Core Laboratories, The Johns Hopkins Medical Institutions

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** This lecture will describe several key discoveries made at Johns Hopkins in the Department of Pathology on the role of platelets in bleeding and thrombosis.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Define platelet glycoprotein variants.
- Describe disease states associated with platelet glycoprotein variants:
  - Post-transfusion purpura
  - Neonatal/fetal alloimmune thrombocytopenia
  - Transfusion refractoriness
- Describe the association with platelet hyperreactivity and platelet glycoprotein variants.

**Thursday, September 12, 2013**

**1:00-2:30p:**

## **Promoting a Culture of Safety and Quality through Proficiency Testing**

**Course #** 612-032-13 /1.5 credit hours

Barbara Parsons, MA, MT(ASCP)

Assistant Director of Quality Management, Pathology Performance Improvement, The Johns Hopkins Hospital

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** Federal laboratory regulations and CAP accreditation standards require all clinical laboratories to enroll in an approved proficiency testing (PT) program. Although laboratories must demonstrate satisfactory PT performance and follow specific rules to maintain licensure and accreditation, assessment of PT data is an essential quality improvement activity. This session will provide participants with information/tips on how to use PT as an essential component of their quality management system and at the same time avoid the risk of noncompliance.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Discuss key regulatory requirements associated with proficiency testing.
- Recognize processes that are prohibited and how to avoid them.
- Identify quality improvement opportunities through review of PT data.
- Develop plans to investigate and resolve PT failures, trends and bias.
- Explain how recent language changes to the CLIA regulations will minimize PT sanctions.

**Thursday, September 12, 2013**

**1:00-2:30p:**

## **Stress and Resilience**

**Course #** 612-033-13 /1.5 credit hours

Alissa Putman, PhD

Director, FASAP, The Johns Hopkins University

**Level of Instruction:** Basic

**Target Audience:** All are welcome

**Description:** The world moves faster and faster, and we face constant changes, challenges and demands on our time and energy. In this program you will learn the effects and characteristics of stress. You'll identify your stressors and your personal stress reactions. You'll increase your awareness of the mind's role in the stress cycle, how perception, paradigms, and self-talk contribute to your stress, and how habitual thinking styles can be redirected. Tips for how to take control of your stress situations, ways to manage change, and tools to manage competing demands will be discussed.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Recognize the signs and effects of stress.
- Assemble tools to manage and create resilience.
- Locate internal resources available for assistance, e.g., FASAP.

**Thursday, September 12, 2013**

**2:15-3:45p**

## **Thromboelastography – Transitioning Basic Principles into Advanced Applications**

**Course #** 612-008-13 / 1.5 credit hours

Adam Gill

Clinical Consultant / Implementation Specialist – Haemonetics Corp., Braintree, MA.

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** Thromboelastography has been an invaluable hemostasis diagnostic tool in many institutions throughout the world since its invention in the late 1940s. The way in which TEG is utilized in clinical practice varies significantly in each institution, and thus has had significantly different impacts on patient care, directly dependent upon clinical understanding and application. The goal of this lecture is to bring understanding of the latest successful applications of TEG and to update attendees on the ways TEG can help reduce unnecessary transfusions, thus reducing transfusion-related complications. Furthermore, a brief look at predetermining patients who are at higher risk to experience post-procedure bleeding or thrombosis will be discussed. Lastly, the use of TEG to guide anticoagulant and anti-platelet therapy will be explored.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Recognize TEG tracings and have the ability to interpret basic hemostasis from the information shown.
- Identify mitigating factors causing thromboelastographic tracings to disagree with traditional coagulation tests.
- Identify hypercoagulability and hypocoagulability and differentiate between enzymatic and platelet causes.
- Propose new applications utilizing TEG to better identify coagulopathies in currently tested patient population.

- Predict required interventions based on thromboelastographic information.

**Thursday, September 12, 2013**

**3:00-4:30p:**

## **Anatomy of a Laboratory Audit**

**Course #** 612-035-13 /1.5 credit hours

**Deborah Williams, BA, MT(ASCP)**

Coordinator, Laboratory Quality Assurance, Suburban Hospital

**Barbara Parsons, MA, MT(ASCP)**

Assistant Director of Quality Management, Pathology Performance Improvement, The Johns Hopkins Hospital

**Level of Instruction:** Intermediate

**Target Audience:** Laboratory staff, physicians, physician assistants, nurses, and other interested persons

**Description:** Clinical laboratories undergo internal and external audits to determine the effectiveness of the laboratory's quality management system. Audits take many forms and are used to communicate and document externally- and internally-identified problems. External audits/assessments are required by federal law and accrediting bodies to improve laboratory service, quality and safety. Internal audits have the additional benefit of moving the laboratory from reactive corrective actions to a proactive continuing quality improvement. Attendees will learn how to prepare for external audits by developing an internal audit program. Case studies will be presented.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Develop goals for an audit program in your laboratory.
- Explain the process for CAP inspection preparations.
- Identify benefits and fundamentals of an internal audit program.
- Describe how an audit originates and what steps are taken for process improvement.

- Design an internal audit and develop an investigation plan with corrective action.

**Thursday, September 12, 2013**

**3:00-4:30p:**

## **Campus Conversations on Diversity and Inclusion**

**Course #** 612-036-13 / 1.5 credit hours

Doris Pendergrass, SPHR

Human Resources Manager, Dept. of Pathology, The Johns Hopkins Medical Institutions

**Level of Instruction:** Basic

**Target Audience:** All are welcome

**Description:** Participants will be provided with the background and language to begin to explore how they see and interpret the world from their perspective and how it may differ from that of others. The course will provide an understanding of how diversity and inclusion create value for the organization and optimize behaviors that value diversity and minimize conflict. Through experiential exercises and scenarios, and using a multi-media approach, we will explore perceptions of power, identity and unconscious bias.

### **Objectives:**

At the completion of the presentation, the audience will be able to:

- Identify and appraise an individual's perceptions and bias (where they come from and how they impact thoughts and behaviors).
- Formulate an open mind to conversations (get to know others and the value of diversity in the workplace).

Johns Hopkins Medicine has applied for approval as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® Program.

# Special Thanks

To all Presenters  
To all Moderators  
To all Volunteers

## Continuing Education Committee

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Barbara Parsons, MA, MT(ASCP)  
Lorraine Blagg, MA, MLS(ASCP)<sup>CM</sup>SBB

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## The Johns Hopkins Hospital Specialist in Blood Bank Technology Program

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The Johns Hopkins Hospital Specialist in Blood Bank Technology program is an onsite work-study, graduate-level training program for certified Medical Technologists, Medical Laboratory Scientists, and Technologists in Blood Banking with at least two years of full-time Blood Bank experience.

The variety of patients, the size, and the general intellectual environment of the Hospital provide excellent opportunities for training in Blood Banking. It is a challenging program that will prepare competent and knowledgeable graduates who will be able to effectively apply practical and theoretical skills in a variety of employment settings. The Johns Hopkins Hospital Specialist in Blood Bank Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Please visit our website at <http://pathology.jhu.edu/department/divisions/transfusion/sbb.cfm> for additional information.

**Contact:** Lorraine N. Blagg, MA, MLS(ASCP)<sup>CM</sup> SBB, Program Director, by email at [lblagg1@jhmi.edu](mailto:lblagg1@jhmi.edu) or by phone at 410-502-9584.

The Johns Hopkins Hospital  
Department of Pathology  
Division of Transfusion Medicine  
Sheikh Zayed Tower, Room 3100  
1800 Orleans Street  
Baltimore, Maryland 21287



# HIDDEN BEAUTY

EXPLORING THE AESTHETICS OF MEDICAL SCIENCE

Norman Barker & Christine Iacobuzio-Donahue  
Foreword by Bert Vogelstein



Schiffer

## Registration

Name: \_\_\_\_\_

Email: \_\_\_\_\_

JHM Entity: \_\_\_\_\_

Division: \_\_\_\_\_

Supervisor/Manager: \_\_\_\_\_

*Cancellation Policy: The employee's cost center/IO will be charged \$25.00 if a confirmed registrant does not attend sessions.*

### Selection for the Sessions:

*Employee: This is a preliminary schedule and is subject to change. To aid us in planning and assigning rooms for each talk, please mark the sessions that you would like to attend. **Registration deadline is Thursday, August 15, 2013. Fill out and submit to your Supervisor for approval.***

*Are you interested in Volunteering for this event?*

*Examples: Session Moderator, Registration, etc.*

*Supervisor: After approving registrations for your staff, please type the information on the Pathology Symposium Registration Roster for this event and forward to Renata Karlos, [rlazaro@jhmi.edu](mailto:rlazaro@jhmi.edu), no later than **August 20, 2013**.*

### September 10, 2013

Time	Course
8:30-9:30a	612-001-13 Know Your Team
8:30-10a	612-002-13 Autoantibodies as Diagnostic Markers
9:45-10:45a	612-003-13 MRSA, VRE, CRE... Oh, My!
10:30-12p	612-004-13 Allergy Immunotherapy
11-12p	612-034-13 Safe Use of Chemicals in the Laboratory
12-12:45p	Lunch
1-2p	612-006-13 Utility of Lab Testing for Drug Safety
1-2:30p	612-007-13 ABO/Rh Discrepancy Case Studies
2:15-3:15p	612-005-13 Epic HIS
3-4:30p	612-009-13 Platelets Current Concerns in Transfusion
3:30-4:30p	612-010-13 Going Green: The Journey



## Registration (continued)

### September 11, 2013

Time	Course
8:30-9:30a	612-011-13 Flow Cytometry in the Lab
8:30-9:30a	612-012-13 MALDI-TOF: Bacterial Laser Tag
8:30-12p	612-013-13 Generational Differences
9:45-10:45a	612-014-13 Zygomycosis: Bread Mold Breaks Bad
9:45-10:45a	612-015-13 Molecular Diagnosis of Solid Tumor
11-12p	612-016-13 Weird Micro: Can You Guess?
11-12p	612-017-13 Next Generation Sequencing
12-12:45p	Lunch
1-2p	612-018-13 Blood Transfusion Guidelines
1-2p	612-019-13 Cytogenetics of Hematologic Malignancies
1-4:30p	612-020-13 Crucial Conversations
2:15-3:15p	612-021-13 Meeting the Demand: Transfusion Safety
2:15-3:15p	612-022-13 International Clinical Research Pune, India
3:30-4:30p	612-023-13 Life of a SMILE Lab
3:30-4:30p	612-024-13 Hurricane Katrina: Blood Bank Story

### September 12, 2013

Time	Course
8:30-9:30a	612-025-13 The Pancreas
8:30-10a	612-026-13 Legal Pitfalls of Social Media
8:30-12p	612-027-13 Disruptive Behavior in Workplace
9:45-10:45a	612-028-13 Pathology of the Pancreas
10:30-11:30a	612-029-13 Hidden Beauty
11-12p	612-030-13 Genomic Classifiers of Tumors
12-12:45p	Lunch
1-2p	612-031-13 Platelet Glycoprotein Variants
1-2:30p	612-032-13 Promoting Culture of Safety and Quality
1-2:30p	612-033-13 Stress and Resilience
2:15-3:45p	612-008-13 Thromboelastography
3-4:30p	612-035-13 Anatomy of a Laboratory Audit
3-4:30p	612-036-13 Conversations on Diversity & Inclusion