

**Applied Laboratory Informatics 2019-2021 - 11/6/2019 Laboratory Statistics**

**November 6, 2019**

**11:00 AM - 12:00 PM**

**Target Audience**

This program has been designed for Pathology - Clinical, Pathology - Anatomic, Laboratory Genetics And Genomics, Pathology - Clinical Informatics, Pathology - Pediatric

**Series Educational Objectives**

After participating in this regularly scheduled series, participants should be able to:

- 1 List the core concepts of pathology informatics
- 2 Apply these core concepts in their everyday practice
- 3 Design well-crafted decision support to influence test utilization

**Session Educational Objectives**

After completing this educational activity, participants should be able to:

- 1 Explain the differences between sensitivity, specificity, and predictive values, and how they are used in pathology and medicine and how prior probabilities influence predictive values
- 2 Perform simple Bayesian analyses in the context of genetic risk assessments in molecular pathology, incorporating information from pedigrees
- 3 Perform simple Bayesian analyses in the more generalized context of laboratory medicine using test results and test parameters to calculate predictive values

**Accreditation**

In support of improving patient care, Penn Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

**Designation of Credit**

**Physicians:** Penn Medicine designates this live activity for a maximum of **1.00 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Nurses:** This activity is not approved for nursing contact hours

**Pharmacists:** This activity is not approved for pharmacy contact hours

**PAs:** AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit™* from organizations accredited by ACCME or a recognized state medical society. PAs may receive a maximum of **1.00** Category 1 credits for completing this activity.

**Acknowledgement of Commercial Support\***

None

For more information, please contact  
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**Check your transcript online at <https://upenn.cloud-cme.com>**



## Disclosure of Relevant Financial Relationships and Unapproved Uses of Products

It is policy at Penn Medicine Office of Continuing Medical and Interprofessional Education for individuals who are in a position to control the content of an educational activity to disclose to the learners all relevant financial relationships that they have with any commercial interest that provide products or services that may be relevant to the content of this continuing education activity. For this purpose, we consider relationships of the person involved to include financial relationships of a spouse or partner.

The intent of this policy is to ensure that Penn CME/CE certified activities promote quality and safety, are effective in improving medical practice, are based on valid content, and are independent of control from commercial interests and free of commercial bias. Peer review of all content was conducted for all faculty presentations whose disclosure information was found to contain relationships that created a conflict of interest relevant to the topic of their presentation. In addition, all faculty were instructed to provide balanced, scientifically rigorous and evidence-based presentations.

The staff in the Office of Continuing Medical and Interprofessional Education (CME and IPCE), have disclosed that they have no relevant financial relationships with any commercial interests related to the content of this educational activity. Any peer reviewer with a potential conflict of interest will recuse themselves from the peer review process.

Name of individual	Individual's role in activity	Name of commercial interest/Nature of relationship
Gina Riggins, BA, BS	Activity Owner	Nothing to disclose
Amrom Obstfeld, MD, PhD	Course Director	Nothing to disclose
Mahdi Sarmady, MS	Course Director	Nothing to disclose
Robert Wilson, RPSGT	Other Planning Committee Member	Nothing to disclose
Robert Wilson, MD, PhD	Faculty	Holder of Intellectual Property Rights-Not a company: Patent on random shRNA libraries-Potentially small RNA therapeutics   Holder of Intellectual Property Rights-Not a company: Patent on p38 inhibitors for the treatment of Friedreich ataxia-Potentially p38 inhibitors for the treatment of Friedreich ataxia   Holder of Intellectual Property Rights-No company: Patent on hydroxyquinolines for the treatment of Friedreich ataxia-Potentially hydroxyquinolines for the treatment of Friedreich ataxia

Relevant financial relationships are those relationships in which the individual benefits by receiving a salary, royalty, intellectual property rights, consulting fee, honoraria, ownership interest (e.g., stocks, stock options or other ownership interest, excluding diversified mutual funds), or other financial benefit. Financial benefits are usually associated with roles such as employment, management position, independent contractor (including contracted research), consulting, speaking and teaching, membership on advisory committees or review panels, board membership, and other activities from which remuneration is received or expected