The target audience for this meeting includes: Physicians, Laboratory Directors, Scientists and Educators primarily engaged in teaching, research and service in academic medicine.

The learning objectives for this meeting are as follows:

- Describe the technology behind NextGen sequencing and how it differs from traditional Sanger chain termination methods
- List current applications of NextGen sequencing in the clinical laboratory
- Discuss the impact of whole genome sequencing on individualizing treatment of cancer
- Develop plans and strategies to optimize utilization of reference laboratory services
- List the major milestones of the Human Genome Project and describe its potential for improving healthcare
- Describe genomic approaches taken to discover new human viruses
- Define a laboratory developed test (LDT)
- List three common causes of misleading HbA1c values
- Describe three circumstances when amplification of 16S rRNA directly from clinical specimens may be useful

Thursday, June 9

1:00 – 6:00 pm
Registration
Khorassan Pre-function

12:30 – 2:45 pm
Executive Council Meeting
Boardroom

2:45 – 5:30 pm
Session 1 - “Next Generation Sequencing Impact on Clinical Labs
Khorassan Ballroom

2:45 – 3:30 pm
"Whole Genome Sequencing In Diagnostic Applications"
Elaine Mardis, PhD
Associate Professor of Genetics
Co-Director, Genome Center
Washington University

3:30 – 4:00 pm
"Novel Informatics and Molecular Tools for Clinical Sequencing"
Rob Mitra, PhD
Assistant Professor of Genetics
Washington University
4:00 – 4:30 pm  "Whole Genome Sequencing Reveals Novel Mutations in Acute Myelocytic Leukemia"
Jacqueline Payton, MD, PhD
Assistant Professor of Pathology and Immunology
Washington University

4:30 – 5:00 pm  "Leveraging Genomics for Next-Generation Diagnostics"
Mark Watson, MD, PhD
Associate Professor of Pathology and Immunology
Washington University

5:00 – 5:30 pm  Panel Discussion

6:30 – 8:30 pm  Welcome Reception
Zodiac Room

Friday, June 10

7:30 – 8:30 am  Breakfast
Khorassan West

8:30 – 10:00 am  Session 2 - Young Investigator Presentations
(Regency and Lindell A, B, C and D Rooms)

10:00 – 10:30 am  Coffee Break
Khorassan West

10:30 – 11:45 am  Young Investigator Presentations (continued)
(Regency and Lindell A, B, C and D Rooms)

12:00 – 1:00 pm  Lunch
Zodiac Room

1:00 – 5:30 pm  Session 3 - Genomic Advances
Khorassan Ballroom

1:00 – 1:45 pm  Cotlove Award Lecture
"Charting a Course for Genomic Medicine"
Eric Green, MD, PhD
Director, National Human Genome Research Institute
National Institutes of Health

1:45 – 2:15 pm  "Metagenomic Approaches to Virus Discovery and Viral Disease"
Herbert “Skip” Virgin IV, MD, PhD
Edward Mallinckrodt Professor and Chair
Department of Pathology and Immunology
Professor of Molecular Microbiology and Medicine
2:15 – 3:30 pm  
**Poster Viewing and Networking Session**  
(Refreshments Served)  
*Khorassan West*

3:30 – 4:00 pm  
**Ellis Benson Award Lecture**  
"Non-Hemolytic Antigen-Loss during Crossmatch Incompatible Transfusion: Diagnostic, Mechanistic, and Medical Considerations"  
James C. Zimring, MD, PhD  
Associate Professor of Pathology and Laboratory Medicine  
Emory University

4:00 – 5:00 pm  
**Panel Discussion**  
"Managing Send Out Costs – What Have You Tried, What Works, What Doesn’t?"  
Panelists: David Bernard, MD, PhD, Cornell University  
Chris Tormey, MD, Yale University  
Mike Laposata, MD, PhD, Vanderbilt Univ.  
Moderator: Michael Dunne, PhD, Washington University

6:30 – 9:30 pm  
**Awards Banquet**  
*St. Louis Zoo – The Living World*

**Saturday, June 11**

7:30 – 8:30 am  
**Breakfast**  
*Khorassan Ballroom*

8:45 am – 10:00 am  
**Session 4 – "Laboratory Developed Tests"**  
*Khorassan Ballroom*

8:45 – 9:15 am  
FDA Perspective  
"How Can We Close the Regulatory Gaps for Laboratory Developed Tests?"  
Alberto Gutierrez, PhD  
Director, Office of In Vitro Diagnostics, FDA

9:15 – 9:45 am  
Laboratory Perspective  
"LDTs: Perspectives from the Academic Molecular Diagnostics Laboratory"  
Jeffery Kant, MD, PhD  
Professor of Pathology and Human Genetics  
University of Pittsburgh

9:45 – 10:00 am  
**Panel Discussion**
10:00 – 11:00 am  
**Session 5 – “Clinical Pathological Correlations”**

10:00 – 10:30 am  
**Case 1**  
*"The knee bone is connected to the... lungs?"* (Microbiology)  
Discussant: Alex McAdams, MD, PhD  
Associate Professor of Pathology  
Children's Hospital of Boston

10:30 – 11:00 am  
**Case 2**  
*"An unexpectedly normal hemoglobin A1c result in a newly diagnosed Type 2 diabetic patient"*  
Discussant: David B. Sacks, MD  
Chief, Clinical Chemistry Service  
National Institutes of Health

11:15 – 12:00 pm  
**Membership Business Meeting**

12:00  
**Box Lunch**  
*Khorassan West*

12:00 – 2:00 pm  
**Executive Council Meeting**  
*Regency Room*
Registration Form
Academy of Clinical Laboratory Physicians & Scientists
46th Annual Meeting
Hosted by Washington University School of Medicine, St. Louis, MO
Department of Pathology and Immunology
June 9-11, 2011

Name: ___________________________ Degree(s): ___________________________
Institution/Program Affiliation: ___________________________________________
Address: ________________________ Fax: _________________________________
Phone: __________________________ Email: _______________________________

Registration Fees *
Young Investigator Award Winner Fee Waived
Full Meeting Registration $325
Late Registration (received after May 9, 2011) $380
Thursday Afternoon Session Only $85
Friday Session Only $85
Saturday Morning Session Only $85

Activities:
Thursday Evening Welcome Reception
Yes, I will attend ☐ No, I will not attend ☐
Number of guests: ________ x $85 / Guest = $ ________ Guest name: ____________

Friday Evening Awards Banquet
Yes, I will attend ☐ No, I will not attend ☐
Number of guests: ________ x $85 / Guest = $ ________ Guest name: ____________
Select Entrée for Friday Banquet: Surf and Turf ☐ Vegetarian ☐
Special Dietary Requirements (please specify): ________________________________

Saturday Box Lunch
Yes, I would like a box lunch ☐ No, I would not like a box lunch ☐

Payment Information:
☐ Check enclosed, payable to: Academy of Clinical Laboratory Physicians and Scientists (ACLPS)
Charge $ ________ to my credit card
☐ MasterCard ☐ Visa ☐ American Express ☐
Cardholder’s Name: ___________________________________________________________
Credit card number: ______________________________ Exp. Date: ______________________
Credit card security code (last three digits on the back of your card): ___________
Cardholder’s Billing Address: __________________________________________________
Cardholder’s Signature: _______________________________________________________

Please complete and print this form and return via email, fax or US mail to:
Julie Follman, Special Project Administrator
Washington University School of Medicine – Department of Pathology and Immunology
660 South Euclid Avenue, Campus Box 8118
St. Louis, MO 63110
Email: follman@wustl.edu; phone: 314-362-3110; fax: 314-362-8888
Transportation
Taxis are readily available outside the baggage claim area of Lambert International Airport and cost approximately $40 for a one-way ride to the hotel.

Hotel
Hotel reservations should be made before May 10, 2011 in order to receive the meeting room rate. Please mention the ACLPS group to receive the discounted rate of $162/night.

Chase Park Plaza Hotel
212 North Kingshighway Boulevard
St. Louis, MO 63110
Toll-Free Reservation: 877-587-2427
Tel: 314-633-3000
Web: http://chaseparkplaza.com

Registration Fees Information *
Full meeting registration fee includes: course materials, breaks, breakfast and lunch on Friday and Saturday, Thursday’s Welcome Reception and Friday’s Awards Banquet.

If registration is cancelled prior to May 16, 2011, the registration fee is refundable, less a $25 cancellation fee. Cancellations after May 16, 2011 are not refundable.

This program will be approved for Continuing Medical Education and ACCENT credit.