<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Track</th>
<th>Presentation Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-Nov</td>
<td>06:00 - 07:00 AM</td>
<td>ABIM/Consumer Reports Choosing Wisely Initiative</td>
<td>How Does the ABIM Choosing Wisely Initiative Affect Diagnostic Laboratory Medicine?</td>
<td>George Fritsma, MS MLS, Proprietor, The Fritsma Factor, Your Interactive Hemostasis Resource</td>
</tr>
<tr>
<td>8-Nov</td>
<td>06:00 - 07:00 AM</td>
<td>Diagnostic Analysis and Management</td>
<td>How to Monitor Heparin Therapy: Still a Controversy</td>
<td>David L. McGlasson, MS, MLS(ASCP), Clinical Research Scientist, 59th CRD</td>
</tr>
<tr>
<td>8-Nov</td>
<td>07:30 - 08:30 AM</td>
<td>Vitamin D</td>
<td>Keynote Presentation: The D-Lightful Vitamin D - A Global Perspective</td>
<td>Michael Holick, MD, PhD, Professor of Medicine, Physiology &amp; Biophysics and Director of the Vitamin D, Skin and Bone Research Laboratory and Director of the Bone Healthcare Clinic at Boston University Medical Center</td>
</tr>
<tr>
<td>8-Nov</td>
<td>09:00 - 10:00 AM</td>
<td>Diagnostic Analysis and Management</td>
<td>Tough Targets. Simple Genotyping. Complete Solutions for Mitochondrial Disease, CRISPR, Pharmacogenetics, and Neuroscience Research</td>
<td>Dana Sullivan, Product Manager, Canon Biomedical</td>
</tr>
<tr>
<td>8-Nov</td>
<td>09:00 - 10:00 AM</td>
<td>Vitamin D</td>
<td>Vitamin D as a Modifier of Genomic Function and Phenotypic expression During Pregnancy</td>
<td>Bruce W Hollis, PhD, Professor, Pediatrics, Biochemistry and Molecular Biology, Director of Pediatric Nutritional Sciences, Medical University of South Carolina</td>
</tr>
<tr>
<td>8-Nov</td>
<td>10:30 - 11:30 AM</td>
<td>Diagnostic Analysis and Management</td>
<td>Liquid Chromatography Tandem Mass Spectrometry Research into Testosterone Analysis: Considerations of Instrument Performance Versus Sample Preparation Complexity</td>
<td>Joshua Hayden, PhD, DABCC, FACB, Chief of Chemistry, Norton Healthcare</td>
</tr>
<tr>
<td>8-Nov</td>
<td>12:00 - 01:00 PM</td>
<td>Evolution Biomarker and Regulation in Clinical Labs</td>
<td>Combined immunohistochemistry and RNA in situ hybridization to elucidate tumor molecular heterogeneity in prostate cancer</td>
<td>Nallasivam Palanisamy, PhD, Associate Scientist, Henry Ford Health System</td>
</tr>
<tr>
<td>Date</td>
<td>Time</td>
<td>Session</td>
<td>Topic</td>
<td>Presenter(s)</td>
</tr>
<tr>
<td>-------</td>
<td>---------</td>
<td>----------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 8-Nov | 12:00 - 01:00 PM | Diagnostic Analysis and Management | Testing for Prostate-Specific Antigen (PSA): To Screen or Not to Screen | Shahram Shahangian, PhD, MS, DABCC, FACB  
Senior Health Scientist, Laboratory Research & Evaluation Branch, Division of Laboratory Systems, Centers for Surveillance, Epidemiology, & Laboratory Services, Centers for Disease Control |
| 8-Nov | 12:00 - 01:00 PM | Pain Management | The Opioid Crisis and other Novel Psychoactive Substances (NPS): Forensic Toxicological Perspectives | Robert Middleberg, PhD  
Sr. Vice President, Quality Assurance Laboratory Director & Forensic Toxicologist, NMS Labs |
| 8-Nov | 01:30 - 02:30 PM | Evolution Biomarker and Regulation in Clinical Labs | Guiding Clinical Laboratory Integration of Next-Generation Sequencing to Assure Quality Testing | Ira Lubin, PhD, FACMG  
Senior Project Lead, Geneticist at the Centers for Disease Control and Prevention |
| 8-Nov | 01:30 - 02:30 PM | Diagnostic Analysis and Management | Rapid Variant Interpretation and Reporting Using the QIAGEN Knowledgebase and QIAGEN Clinical Insight - Interpret (QCI-I) | Jennifer Poitras, PhD  
Principal Genome Scientist, Bioinformatics - Genetic Disease, QIAGEN |
| 9-Nov | 06:00 - 07:00 AM | Diagnostic Analysis and Management | Biosafety Risk Assessment Fundamentals for Clinical Laboratories | Michael Pentella, PhD  
Clinical Professor at the University of Iowa, College of Public Health |
| 9-Nov | 06:00 - 07:00 AM | Evolution Biomarker and Regulation in Clinical Labs | Blood trails: nanotechnology-enabled biomarker quantification for early disease detection | Tony Hu, PhD  
Associate Professor, Biodesign Institute, Arizona State University |
| 9-Nov | 07:30 - 08:30 AM | Diagnostic Analysis and Management | Keynote Presentation: Integration of the Simplexa C. difficile Direct assay into a two-step algorithm for the laboratory diagnosis of C. difficile | Dr. James Snyder  
Director of Microbiology and Infectious Diseases Molecular Diagnostics at University of Louisville Hospital |
| 9-Nov | 09:00 - 10:00 AM | Evolution Biomarker and Regulation in Clinical Labs | Accelerating Immuno-Oncology Research with the PanCancer IO 360™ Gene Expression Panel, Advanced Data Analysis Service, and Signature Development | Sarah Warren, PhD  
Senior Director of Advanced Applications, NanoString Technologies  
Patrick Danaher, PhD  
Principal Biostatistician, NanoString |
| 9-Nov | 09:00 - 10:00 AM | Pain Management | Monitoring Pain Management Medications in Pregnancy and the Neonate | Gwen McMillin, PhD  
Medical Director, Toxicology and Pharmacogenetics, ARUP Laboratories |
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Section</th>
<th>Presentation Title</th>
<th>Speaker</th>
</tr>
</thead>
</table>
| 9-Nov  | 10:30 - 11:30 AM | Diagnostic Analysis and Management     | Fast Phenotypic Antibiotic Susceptibility Testing of Positive Blood Cultures     | Margie Morgan, PhD, D(ABMM), MT(ASCP)  
Professor of Pathology and Laboratory Medicine, Scientific Director, Clinical Microbiology, Cedars-Sinai Medical Center |
| 9-Nov  | 10:30 - 11:30 AM | Vitamin D                                    | The Need for Serum 25-hydroxyvitamin D Standardization in Clinical and Research Laboratories | Christopher T. Sempos, PhD  
Coordinator, Vitamin D Standardization Program (VDSP), NIH Office of Dietary Supplements |
| 9-Nov  | 12:00 - 01:00 PM  | Vitamin D                                    | Is Free 25OH Vitamin D The Next Generation Vitamin D Marker?                      | Nicolas Heureux  
Principal Scientist, DIAsource ImmunoAssays |
| 9-Nov  | 12:00 - 01:00 PM  | Diagnostic Analysis and Management         | Understanding T Cell Responses in Tuberculosis-Latest research on QuantiFERON-TB Gold Plus | Jeff Boyle, PhD  
Senior Director: Product and Assay Development North Americas, QIAGEN |
| 9-Nov  | 01:30 - 02:30 PM  | Diagnostic Analysis and Management         | Importance of Measuring the Inhibition of Platelet Thromboxanes by Aspirin in Cardiovascular Disease Management and Prevention | Luis Lopez, MD  
Medical Director, Corgenix Inc. |
| 9-Nov  | 01:30 - 02:30 PM  | Evolution Biomarker and Regulation in Clinical Labs | The Development and Commercialization of Robust Circulating DNA and RNA Tests         | Hestia Mellert, PhD  
Director, Molecular Development at Biodesix |