<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Track</th>
<th>Presentation Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Nov</td>
<td>06:00-07:00 AM</td>
<td>Clinical Research</td>
<td>Fast and easy identification of disease causing variants in hereditary diseases using patient phenotype information and testing for different modes of inheritance</td>
<td>Anika Joecker, PhD Associate Director Global Product Management NGS, QIAGEN</td>
</tr>
<tr>
<td>2-Nov</td>
<td>06:00-07:00 AM</td>
<td>Pain Management</td>
<td>Urine Toxicology Testing in Support of Pain Management</td>
<td>Jennifer M. Colby, PhD, DABCC, FACB Medical Director of Toxicology and Esoteric Chemistry; Vanderbilt University Medical Center</td>
</tr>
<tr>
<td>2-Nov</td>
<td>07:30-08:30 AM</td>
<td>FDA Regulation in Clinical Labs</td>
<td>FDA and Mass Spec Tests for Clinical Labs</td>
<td>Ravinder Singh, PhD Director, Endocrine Laboratory, Mayo Clinic</td>
</tr>
<tr>
<td>2-Nov</td>
<td>09:00-10:00 AM</td>
<td>Keynote</td>
<td>Vitamin D supplementation in Pregnant Women: Effects on Preeclampsia and Asthma in the Offspring</td>
<td>Augusto A Litonjua, MD, PhD Associate Professor Channing Division of Network Medicine and Division of Pulmonary and Critical Care Medicine Department of Medicine, Brigham and Women's Hospital, Harvard Medical School Scott Weiss, MD, MS Professor of Medicine, Harvard Medical School, Director, Partners HealthCare Personalized Medicine, Associate Director, Channing Division of Network Medicine</td>
</tr>
<tr>
<td>2-Nov</td>
<td>10:30-11:30 AM</td>
<td>Industry</td>
<td>Tough Targets. Simple Genotyping. Using HRM as a direct approach in research applications.</td>
<td>Brian McNally, PhD Senior Marketing Specialist, Canon BioMedical</td>
</tr>
<tr>
<td>2-Nov</td>
<td>10:30-11:30 AM</td>
<td>Pain Management</td>
<td>Urine Drug Testing in Pain Management</td>
<td>William Clarke, PhD, MBA, DABCC Associate Professor of Pathology, Clinical Toxicology, Director, Point-of-Care Testing, Johns Hopkins University School of Medicine</td>
</tr>
<tr>
<td>Date</td>
<td>Time</td>
<td>Session Type</td>
<td>Topic</td>
<td>Speaker</td>
</tr>
<tr>
<td>------</td>
<td>----------</td>
<td>----------------</td>
<td>----------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 2-Nov| 10:30 - 11:30 AM | Clinical Research  | Vitamin D, Health Disparities in Prostate Cancer, and Alzheimer's  | Sebastiano Gattoni-Celli, MD  
Professor of Radiation Oncology - Medical University of South Carolina, Health Research Scientist & Research Integrity Officer, Ralph H. Johnson VA Medical Center |
| 2-Nov| 12:00 - 01:00 PM | Pain Management | Immunoassays and Pain Management Drug Testing                         | Nihmat Morjana, Ph.D., M.Sc.  
Director; Siemens Healthineers |
| 2-Nov| 01:30 - 02:30 PM | Clinical Research | A Platform to Digitize Biology: A Potential Pathway to Exponential Medicine | John McDevitt, PhD  
Chair, Department Biomaterials, New York University College of Dentistry and Bioengineering Institute & Chief Scientific Officer, Founder of SensoDx |
| 3-Nov| 06:00 - 07:00 AM | Lab Automation | Automation and core-laboratory: experience of a large European academic hospital | Damien Gruson, PhD  
Professor, Head of the Department of Clinical Biochemistry, Cliniques Universitaires Saint Luc |
| 3-Nov| 06:00 - 07:00 AM | Point of Care  | IQCP is a four letter word                                               | Steven Cotten, PhD DABCC  
Assistant Professor Pathology, Director of Chemistry, Immunology, Toxicology, and Point of Care; Ohio State University Wexner Medical Center |
| 3-Nov| 06:00 - 07:00 AM | Industry     | Mutation Detection Simplified: From Liquid Biopsy in clinical oncology to the detection of Drug Resistance Associated Mutations in virology | Gerd Michel, PhD  
VP of R&D and Chief Scientific Officer Vela Research  
Lou Welebob  
Director, Vela Research Singapore |
| 3-Nov| 07:30 - 08:30 AM | Industry     | Fusion genes: what, why and how                                          | Raed Samara, PhD  
Senior Global Product Manager, QIAGEN |
| 3-Nov| 09:00 - 10:00 AM | Keynote      | KEYNOTE: Big data and the learning healthcare system: practical applications for the clinical laboratory | Lee Schroeder, MD, PhD  
Assistant Professor of Pathology Director, Point of Care Testing  
Associate Director, Chemical Pathology; University of Michigan Hospital |
| 3-Nov| 10:30 - 11:30 AM | Point of Care | Found in Translation: ST2 From Discovery to Clinical Adoption           | James Snider, PhD  
President, Critical Diagnostics |
| 3-Nov| 10:30 - 11:30 AM | Infectious Disease | Rapid, Low-cost Tools for Global Health: Using Cell-free Synthetic Biology for Zika Virus Detection and the Portable Manufacture of Therapeutics | Keith Pardee, PhD  
Assistant Professor, Leslie Dan Faculty of Pharmacy, University of Toronto |
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Category</th>
<th>Title</th>
<th>Speakers</th>
</tr>
</thead>
</table>
| 3-Nov | 10:30 - 11:30 AM| Clinical Research | The High Resolution Solution: Accurate Mass for the Clinical Research Laboratory | Natalie Rasmussen  
R&D Specialist, ARUP                                                                 |
| 3-Nov | 12:00 - 01:00 PM| Point of Care | Point of Care Testing - Why Knowing Now Matters in the Emergency Department | Ellis Jacobs, PhD, DABCC, FACB  
Director, Scientific Affairs, Abbott., Adjunct Assoc Professor of Pathology, Mount Sinai School of Medicine |
| 3-Nov | 12:00 - 01:00 PM| Industry | Use of QIAGEN® Clinical Insight (QCI™) Interpret to Elucidate Precision in Breast Cancer Targeted Therapy | Julie Deschenes, MBA, PhD  
Manager, Advanced Genomics Integrated Solutions  
Dilhan Weeraratne, PhD  
Senior Scientist, Advanced Genomics Support; QIAGEN Bioinformatics |
| 3-Nov | 01:30 - 02:30 PM| Clinical Research | Development of a novel method to measure circulating 1,25-Dihydroxyvitamin D in Human Serum and plasma | Fabrizio Bonelli, PhD  
Chief Scientific Officer, VP, DIASORIN Inc. |