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<th>Time</th>
<th>Monday, May 6</th>
<th>Tuesday, May 7</th>
<th>Wednesday, May 8</th>
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<tr>
<td>8:15-8:45</td>
<td>Breakfast and Registration</td>
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<td>8:45-9:00</td>
<td>Course Introduction</td>
<td>Connecting Forward</td>
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| 9:00-9:15    | Biomarkers in Translational Medicine and Therapeutics  
Bill Chin, MD  
PhD  
Pfizer  
Biomarker Qualification  
Christopher Leptak, MD, PhD  
Food and Drug Administration | Genomics                                   | Microbiome Biomarkers  
Curtis Huttenhower, PhD  
Harvard T.H. Chan School of Public Health | A Case Study: Biomarker Application in Early Clinical Drug Development  
David Beidler PhD  
Pfizer |
| 9:15-9:30    | Fundamental Concepts in Biomarker Research  
Joseph Manetski  
Foundation for the National Institutes of Health | Proteomics                                  | Mass Spectrometry  
Natalie Agar, PhD  
Brigham and Women's Hospital | Point of Care Diagnostics  
Pratik Shah, PhD  
Massachusetts Institute of Technology |
| 9:45-10:00   | Biomarker Use in Stratified Medicine  
Mark R. Trusheim, MS  
MIT, Sloan School of Management | Imaging as a Biomarker  
Fiona Fennessey, MD  
Brigham and Women's Hospital | Nanoscale Technologies  
Haikho Lee, PhD  
Massachusetts General Hospital | Break |
| 10:00-10:15  | Break                                    | Break                                        | Break                                      | Break                                      |
| 10:30-10:45  | LUNCH                                    | LUNCH                                        | LUNCH                                      | LUNCH                                      |
| 12:30-12:45  | LUNCH                                    | LUNCH                                        | LUNCH                                      | LUNCH                                      |
| 12:45-1:00   | LUNCH                                    | LUNCH                                        | LUNCH                                      | LUNCH                                      |
| 1:00-1:15    | "How To" Advance Biomarker Research  
Suzanne Dahlberg, PhD  
Harvard T.H. Chan School of Public Health | "How To" Biomarkers in Clinical Trials  
Suzanne Dahlberg, PhD  
Harvard T.H. Chan School of Public Health | "How To" Biomarkers in Health and Disease  
Osama Rahn, MD  
Dana Farber Cancer Institute | "How To" End of the Day Wrap-Up |
| 1:15-1:30    | How to Use Biomarkers in Clinical Trials  
Suzanne Dahlberg, PhD  
Harvard T.H. Chan School of Public Health | How to Evaluate Biomarkers, Pt.2  
Brian Healy, PhD  
Brigham and Women's Hospital | Unmet Medical Need: Preeclampsia  
Ananth Karumanchi, MB, BS  
Beth Israel Deaconess Medical Center | Break |
| 1:30-1:45    | How to Avoid Irreproducibility of Biomarkers  
Mark Kellogg, PhD  
Boston Children's Hospital | Biobanking                                   | Infectious Disease  
Lindsey Baden, MD  
Brigham and Women's Hospital | Break |
| 1:45-2:00    | Biobanking                               | "How To" Protocols as a Biomarker  
Vishal Vaidya, PhD  
Pfizer, Harvard Medical School | "How To" Neurodevelopmental Biomarkers  
Mustafa Sahin, MD, PhD  
Boston Children's Hospital | Break |
| 2:00-2:15    | How to Quantify Imaging Biomarkers  
Andriy Feorov, PhD  
Brigham and Women's Hospital | Proteins and MicroRNAs  
Brian Healy, PhD  
Pfizer | "How To" Pharmacogenetic Biomarkers  
Katrina Loomis, MA  
Pfizer | Break |
| 2:15-2:30    | How to Quantify Imaging Biomarkers  
Andriy Feorov, PhD  
Brigham and Women's Hospital | Pharmacogenetic Biomarkers  
Katrina Loomis, MA  
Pfizer | End of Day Wrap-Up | Break |
| 2:30-2:45    | Workshop: How to Evaluate Biomarkers, Pt.2  
Brian Healy, PhD  
Brigham and Women's Hospital | "How To" Proteomics as a Biomarker  
Vishal Vaidya, PhD  
Pfizer | Case Study Preview  
David Beidler PhD  
Pfizer | "How To" End of the Day Wrap-Up |
| 2:45-3:00    | Workshop: How to Evaluate Biomarkers, Pt.1  
Brian Healy, PhD  
Pfizer | "How To" Proteomics as a Biomarker  
Vishal Vaidya, PhD  
Pfizer | Case Study Preview  
David Beidler PhD  
Pfizer | "How To" End of the Day Wrap-Up |
| 3:00-3:15    | Workshop: How to Evaluate Biomarkers, Pt.2  
Brian Healy, PhD  
Brigham and Women's Hospital | Proteins and MicroRNAs  
Brian Healy, PhD  
Pfizer | Case Study Preview  
David Beidler PhD  
Pfizer | "How To" End of the Day Wrap-Up |
| 3:15-3:30    | Workshop: How to Evaluate Biomarkers, Pt.1  
Brian Healy, PhD  
Pfizer | End of Day Wrap-Up | End of Day Wrap-Up | End of Day Wrap-Up |
| 3:30-3:45    | Workshop: How to Evaluate Biomarkers, Pt.2  
Brian Healy, PhD  
Brigham and Women's Hospital | End of Day Wrap-Up | End of Day Wrap-Up | End of Day Wrap-Up |
| 3:45-4:00    | Workshop: How to Evaluate Biomarkers, Pt.1  
Brian Healy, PhD  
Pfizer | End of Day Wrap-Up | End of Day Wrap-Up | End of Day Wrap-Up |
| 4:00-4:15    | Workshop: How to Evaluate Biomarkers, Pt.2  
Brian Healy, PhD  
Brigham and Women's Hospital | End of Day Wrap-Up | End of Day Wrap-Up | End of Day Wrap-Up |
| 4:15-4:30    | Workshop: How to Evaluate Biomarkers, Pt.1  
Brian Healy, PhD  
Pfizer | End of Day Wrap-Up | End of Day Wrap-Up | End of Day Wrap-Up |
| 4:30-4:45    | Workshop: How to Evaluate Biomarkers, Pt.2  
Brian Healy, PhD  
Brigham and Women's Hospital | End of Day Wrap-Up | End of Day Wrap-Up | End of Day Wrap-Up |
| 4:45-5:00    | Workshop: How to Evaluate Biomarkers, Pt.1  
Brian Healy, PhD  
Pfizer | End of Day Wrap-Up | End of Day Wrap-Up | End of Day Wrap-Up |
| 5:00-5:15    | Workshop: How to Evaluate Biomarkers, Pt.2  
Brian Healy, PhD  
Brigham and Women's Hospital | End of Day Wrap-Up | End of Day Wrap-Up | End of Day Wrap-Up |