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| **Week 1****Understanding Biomarker Science** **5/7****FUNDAMENTAL CONCEPTS IN BIOMARKER SCIENCE** | 8:00-8:30 AM | Biomarkers in Translational Medicine & Therapeutics  |
| 8:45-9:15 AM | Valuing the Importance of Participants and Patients: Ethical Conduct of Research |
| 9:30-10:00 AM | Imaging and Biomarkers |
|  10:15-10:45 AM | FDA & Biomarkers  |
| **Week 2****5/10 & 5/14****“HOW-TO” ADVANCE BIOMARKER RESEARCH** | 8:00-8:30 AM | Trial Design Basics: COVID |
| 8:45-9:15 AM | How to Quantify Imaging Biomarkers |
| 9:30-10:00 AM | How to Avoid Irreproducibility of Biomarkers  |
| 5/10 10:15-11:15 AM5/14- 10-11 AM | How to Evaluate Biomarkers  |
| **Week 3****5/21****BIOMARKER DISCOVERY** | 8:00-8:30 AM | Genomics  |
| 8:30-9:00 AM  | Proteomics  |
| 9:00-9:30 AM | Metabolomics  |
| 9:30-10:00 AM  | Radiomics  |
| **Week 4****5/24****TYPES OF BIOMARKERS** | 8:00-8:30 AM | Microbiome Biomarkers  |
| 8:45-9:15 AM | Mass Spectrometry Imaging  |
| 9:30-10 AM | Safety Biomarkers  |
| **Week 5****6/4****BIOMARKERS IN HEALTH AND DISEASE** | 8:30-9:00 AM | Biomarkers in Immune-Oncology |
| 9:15-9:45 AM | Using Biomarkers to Understand Complex Diseases |
| 10-10:30 AM | Neuro Biomarkers |
| **Week 6****6/11****BIOMARKER TECHNOLOGIES** | 8:00-8:45 AM | Biomarkers in Liver Disease |
| 9:00- 9:45 AM | CRISPR and Health & Disease  |
| 10:00- 10:45 AM | Digital Biomarkers |
| 11:00- 11:45 AM | Nanoscale Technologies |
| **Week 7****6/14** **CAREER DEVELOPMENT** | 9-10:30 AM  | Panel of Perspectives: VC in biomarkers, Academic, Academic into Industry,  Policy Advisor  |