

Understanding Biomarker Science: From Molecules to Images

May 6 - 9, 2019

Sheraton Commander Hotel, Harvard Square, Cambridge, MA

	Monday, May 6	Tuesday, May 7	Wednesday, May 8	Thursday, May 9					
8:15-8:45	Breakfast and Registration	Breakfast	Breakfast	Breakfast					
8:45-9:00	Course Introduction	Connecting Forward	Connecting Forward	Connecting Forward					
9:00-9:15	Fundamental Concepts in Biomarker Research	Biomarker Discovery	Types of Biomarkers	Biomarker Technologies					
9:15-9:30					Biomarkers in Translational Medicine and Therapeutics Bill Chin, MD PhRMA	Genomics Jane Wilkinson Broad Institute	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	
9:30-9:45					Biomarker Qualification Christopher Leptak, MD, PhD Food and Drug Administration	Proteomics Hanno Steen, PhD Boston Children's Hospital	Mass Spectrometry Natalie Agar, PhD Brigham and Women's Hospital		
9:45-10:00									
10:00-10:15					BREAK	BREAK	BREAK		BREAK
10:15-10:30					A Consortium Model in Biomarker Science Joseph Manetski Foundation for the National Institutes of Health	Radiomics Hugo Aerts, PhD Dana Farber Cancer Institute	Imaging as a Biomarker Fiona Fennessey, MD Brigham and Women's Hospital		Point of Care Diagnostics Pratik Shah, PhD Massachusetts Institute of Technology
10:30-10:45					Biomarker Use in Stratified Medicine Mark R. Trusheim, MS MIT, Sloan School of Management	Metabolomics Clary Clish, PhD Broad Institute	Nanoscale Technologies Hakho Lee, PhD Massachusetts General Hospital		Circulating Tumor Cell Chip Mehmet Toner, PhD Massachusetts General Hospital
10:45-11:00									
11:00-11:15					Panel Discussion	Panel Discussion	Panel Discussion		Panel Discussion
11:15-11:30					LUNCH	LUNCH	LUNCH		LUNCH
11:30-11:45									
11:45-12:00									
12:00-12:15									
12:15-12:30									
12:30-12:45									
12:45-1:00									
1:00-1:15									
1:15-1:30	"How To" Advance Biomarker Research	"How To"	Biomarkers in Health and Disease	Biomarker Marketplace					
1:30-1:45								How to Use Biomarkers in Clinical Trials Suzanne Dahlberg, PhD Harvard T.H. Chan School of Public Health	
1:45-2:00					How to Avoid Irreproducibility of Biomarkers Mark Kellogg, PhD Boston Children's Hospital	Biobanking Jordan Smoller, MD Massachusetts General Hospital	Unmet Medical Need: Preeclampsia Ananth Karumanchi, MB, BS Beth Israel Deaconess Medical Center	Biomarker Patenting Lauren Katzeff, JD Sidley Austin LLP	
2:00-2:15									
2:15-2:30					BREAK	BREAK	BREAK	BREAK	
2:30-2:45					How to Quantify Imaging Biomarkers Andriy Feorov, PhD Brigham and Women's Hospital	Proteins and MicroRNAs Vishal Vaidya, PhD Pfizer; Harvard Medical School	Infectious Disease Lindsey Baden, MD Brigham and Women's Hospital	Machine Learning in Biomarker Science Mark Michalski, MD Massachusetts General Hospital; Brigham and Women's Hospital	
2:45-3:00					Workshop: How to Evaluate Biomarkers, Pt.1 Brian Healy, PhD Brigham and Women's Hospital	Pharmacogenetic Biomarkers Katrina Loomis, MA Pfizer	Neurodevelopmental Biomarkers Mustafa Sahin, MD, PhD Boston Children's Hospital	Career Panel in Biomarker Science Beidler, Fennessey, Katzeff, Loomis, Michalski	
3:00-3:15									
3:15-3:30					End of Day Wrap-Up	End of Day Wrap-Up	End of Day Wrap-Up		
3:30-3:45									
3:45-4:00									
4:00-4:15	End of Day Wrap-Up	End of Day Wrap-Up	End of Day Wrap-Up						
4:15-4:30									
4:30-4:45									
4:45-5:00	End of Day Wrap-Up	End of Day Wrap-Up	End of Day Wrap-Up						
5:00-5:15									