

Understanding Biomarker Science: From Molecules to Images

April 24-27, 2017

Joseph B. Martin Conference Center, Longwood Medical Area, Boston, MA

	Monday, April 24		Tuesday, April 25		Wednesday, April 26		Thursday, April 27				
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	Biomarkers in Translational Medicine and Therapeutics William W. Chin, MD Pharmaceutical Research and Manufacturers of America	Biomarker Discovery	Genomics Jane Wilkinson Broad Institute	Types of Biomarkers	Microbiome Biomarkers Curtis Huttenhower, PhD Harvard TH Chan School of Public Health	Biomarker Technologies	Cancer Imaging Jeffrey Yap, PhD Huntsman Cancer Institute, Univ. of Utah			
9:15-9:30				Biomarker Qualification Shashi Amur, PhD Food and Drug Administration		Proteomics Robert Everley, PhD Harvard Medical School		Extracellular Vesicles Johan Skog, PhD Exosome Diagnostics	Point-of-Care Technologies Hakho Lee, PhD Massachusetts General Hospital		
9:30-9:45						BREAK		BREAK	BREAK		
9:45-10:00		A Consortium Model in Biomarker Science Gary Kelloff, MD National Cancer Institute		Proteomic Connectivity Maps for Signaling and Epigenetics Jacob D. Jaffe, PhD Broad Institute	Big Data and Biomarkers Isaac Kohane, MD, PhD Harvard Medical School	Circulating Tumor Cell Chip Mehmet Toner, PhD Massachusetts General Hospital					
10:00-10:15		Biomarker Use in Stratified Medicine Mark R. Trusheim, MS MIT, Sloan School of Management		Metabolomics Clary Clish, PhD Broad Institute	Cardiac Biomarkers: From the Clinic to Pre-Clinical Use William Reagor, PhD Pfizer	VirScan for Infection Detection Stephen Elledge, PhD Brigham and Women's Hospital					
10:15-10:30				BREAK	BREAK	BREAK					
10:30-10:45				Panel Discussion	Panel Discussion	Panel Discussion					
10:45-11:00		LUNCH		LUNCH		LUNCH		LUNCH			
11:00-11:15		"How To" Advance Biomarker Research		How to Use Biomarkers in Clinical Trials William T. Barry, PhD Dana-Farber Cancer Institute	Types of Biomarkers	Workshop: How to Evaluate Biomarkers, Pt.2 Brian Healy, PhD Brigham and Women's Hospital		Biomarkers in Health and Disease	Alzheimer's Disease Scott McGinnis, MD Massachusetts General Hospital	Biomarker Marketplace	Biomarkers and Regulatory Approval Jerry Avorn, MD Brigham and Women's Hospital
11:15-11:30						How to Advance Biomarkers from Bench to Bedside Marsha Moses, PhD Boston Children's Hospital			Pharmacogenetic Biomarkers Peter Shaw, PhD Merck Research Laboratories		Unmet Medical Need: Preeclampsia Ananth Karumanchi, MB, BS Beth Israel Deaconess Medical Center
11:30-11:45	BREAK		BREAK	BREAK							
11:45-12:00	How to Avoid Irreproducibility of Biomarkers Mark Kellogg, PhD Boston Children's Hospital		Proteins and MicroRNAs Vishal Vaidya, PhD Pfizer; Harvard Medical School	Infectious Disease Lindsey Baden, MD Brigham and Women's Hospital		Commercialization of Preclinical Imaging Jack Hoppin, PhD invicRO					
12:00-12:15	Workshop: How to Evaluate Biomarkers, Pt.1 Brian Healy, PhD Brigham and Women's Hospital		Pathological Biomarkers Bob Dunstan, DVM, MS AbbVie	A Case Study: Biomarker Application in Drug Development Shashi Ramaiah, PhD, DVM Pfizer		Open Source Model Tina Kapur, PhD Brigham and Women's Hospital					
12:15-12:30			LUNCH			LUNCH					
12:30-12:45			LUNCH			LUNCH					
12:45-1:00	LUNCH		LUNCH			LUNCH		LUNCH			
1:00-1:15	LUNCH		LUNCH			LUNCH		LUNCH			
1:15-1:30	Career Panel in Biomarker Science Avorn, MD; Collings, JD; Hoppin, PhD; Kapur, PhD; Moses, PhD; Ramaiah, PhD, DVM; Vaidya, PhD; Yap, PhD		Reception and Networking			Reception and Networking		Reception and Networking			
1:30-1:45	Career Panel in Biomarker Science Avorn, MD; Collings, JD; Hoppin, PhD; Kapur, PhD; Moses, PhD; Ramaiah, PhD, DVM; Vaidya, PhD; Yap, PhD		Reception and Networking		Reception and Networking		Reception and Networking				
1:45-2:00	Career Panel in Biomarker Science Avorn, MD; Collings, JD; Hoppin, PhD; Kapur, PhD; Moses, PhD; Ramaiah, PhD, DVM; Vaidya, PhD; Yap, PhD		Reception and Networking		Reception and Networking		Reception and Networking				
2:00-2:15	Career Panel in Biomarker Science Avorn, MD; Collings, JD; Hoppin, PhD; Kapur, PhD; Moses, PhD; Ramaiah, PhD, DVM; Vaidya, PhD; Yap, PhD		Reception and Networking		Reception and Networking		Reception and Networking				
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2:45-3:00	Career Panel in Biomarker Science Avorn, MD; Collings, JD; Hoppin, PhD; Kapur, PhD; Moses, PhD; Ramaiah, PhD, DVM; Vaidya, PhD; Yap, PhD		Reception and Networking		Reception and Networking		Reception and Networking				
3:00-3:15	Career Panel in Biomarker Science Avorn, MD; Collings, JD; Hoppin, PhD; Kapur, PhD; Moses, PhD; Ramaiah, PhD, DVM; Vaidya, PhD; Yap, PhD		Reception and Networking		Reception and Networking		Reception and Networking				
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3:45-4:00	Career Panel in Biomarker Science Avorn, MD; Collings, JD; Hoppin, PhD; Kapur, PhD; Moses, PhD; Ramaiah, PhD, DVM; Vaidya, PhD; Yap, PhD		Reception and Networking		Reception and Networking		Reception and Networking				
4:00-4:15	Career Panel in Biomarker Science Avorn, MD; Collings, JD; Hoppin, PhD; Kapur, PhD; Moses, PhD; Ramaiah, PhD, DVM; Vaidya, PhD; Yap, PhD		Reception and Networking		Reception and Networking		Reception and Networking				
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4:45-5:00	Career Panel in Biomarker Science Avorn, MD; Collings, JD; Hoppin, PhD; Kapur, PhD; Moses, PhD; Ramaiah, PhD, DVM; Vaidya, PhD; Yap, PhD		Reception and Networking		Reception and Networking		Reception and Networking				
5:00-5:15	Career Panel in Biomarker Science Avorn, MD; Collings, JD; Hoppin, PhD; Kapur, PhD; Moses, PhD; Ramaiah, PhD, DVM; Vaidya, PhD; Yap, PhD		Reception and Networking		Reception and Networking		Reception and Networking				