	Day 1 (Tuesday, Nov 27, 2012)				
Time	Theme/Session	Speaker	Topic		
8:00	Registration & Poster Setup				
8:45	Welcome	Tony Dickherber	Meeting overview and program update		
9:00		Session Chair	Steven Shen, M.D., Ph.D., Methodist Hospital Research Institute		
9:10	Novel Biosensors 1	PARKER, LAURIE L.	Multiplex quantification of kinase activity in a breast cancer model system using surface-enhanced Raman spectroscopy (SERS) and peptide-functionalized nanoparticle (NP)-based biosensors		
9:30		BURKE, PETER J.	Nanoelectrode and Nanofluidic-Based Assay of Mitochondria Membrane Potential and Apoptosis		
9:50		WANG, SHAN X.	Multiplex Cancer Cell Purification with Magnetic Sifters		
10:10			Break		
10:30		Session Chair	Rebecca Richards-Kortum, Ph.D., Rice University		
10:40	Novel Biosensors 2	SANTANGELO, PHILIP J.	Quantifying RNA-protein interactions in situ using modified-MTRIPs and proximity ligation		
11:00		DIEHL, MICHAEL RICHARD	Highly-Multiplexed, Spatially-Delineated Molecular Imaging in Cancer		
11:20		BEEBE, DAVID J.	An Integrated Platform for Quantifying Gene Expression in CoCultured Cells		
11:40		SHENDURE, JAY ASHOK	Rapid and sensitive multiplex sequencing of actionable cancer genes in clinical samples		
13:00			Lunch (on your own)		
13.00	Success Story: William Hahn, M.D., Ph.D. & David Hill, Ph.D., Dana-Farber Cancer Institute Collaboration vs. Commercialization to Disseminate your Technology; an IMAT success story				
14:00		RAO, JIANGHONG	Activatable BRET probes for MMP enzymatic activity detection		
		DORSEY, KATHLEEN	Methylation-based Dx assay for malignant melanoma		
		KOLOSSOV, VLADIMIR	FRET-based biosensors to monitor redox in cell cycle regulation		
		LAWRENCE, DAVID	Microfluidic sorting of blood cells for SPR and fluorescence analysis		
		BIEBERICH, CHARLES	Platform to identify low-toxicity kinase inhibitors		
		PARKER, LAURIE	Biosensor to monitor leukemia-related kinase activity in patient cells		
	Session (<= 8	WU, MINGMING	Probing chemoinvasion strategies using 3D microfluidic models		
	minutes each)	MESSMER, BRADLEY	Specific and reversible binding of DNA nanoparticles to cancer cells		
	ŕ	PANT, DISHA	2D-PCR for spatially mapping gene changes in tumor sections		
		CLAFFEY, KEVIN	Discovery platform for cancer antigens		
		MITRA, ROBI	Digital Analysis of Proteins through End Sequencing (DAPES)		
		WILLEY, JAMES	Internal standards for quantitative next-gen sequencing		
		SZMACINSKI, HENRYK	Method for detection of secreted proteins in single cell assays		
16:00	Poster Session				
18:00			Dinner on your own		

	Day 2 (Wednesday, Nov 28, 2012)				
Time		Speaker	Торіс		
8:00	Welcome	Tony Dickherber	Recap of Day 1 and Day 2 overview		
8:15	Host Welcome: Mauro Ferrari, Ph.D., President and CEO of the Methodist Hospital Research Institute (and past IMAT awardee)				
8:45					
	Keynote: Joshua LaBaer, M.D., Ph.D., Arizona State University Biodesign Institute,				
	(and past IMAT awardee)				
9:30	Cellular Pathway	Session Chair	Claudio Aldaz, M.D., MD Anderson Cancer Center		
9:40		LI, DEYU	VEC ³ -Valve Enabled Cell Co-Culture Platforms for Cancer Biology		
			Study		
10:00		JU, JINGFANG	Translational Control Analysis by Translationally Active RNA		
10:20			Capture/Microarray Analysis (TrIP-Chip) Development and Application of Novel Glycan-Specific Reagents to		
10:20		MUDDIMAN, DAVID C.	Facilitate Early Detection of Epithelial Ovarian Cancer		
10:40			Break		
11:00		Session Chair	Ignacio Wistuba, M.D., MD Anderson Cancer Center		
11:20		SHEN, LANLAN	Genome-Scale DNA methylation Profiling in Developing Colon and The		
	D: 1	SHEN, LANLAN	impact of Diet		
11:30	Biomarker Preservation and	HARISMENDY, OLIVIER	Detection of low prevalence mutations in solid tumors via Ultra Deep		
11:50	Discovery	LIOTTA, LANCE ALLEN	Targeted Sequencing Tissue is alive: Preserving biomolecules and tissue morphology in clinical		
11.50	Discovery		trial samples		
12:10		HAGEDORN, CURT H	Sentinel RNAs as a Measure of mRNA Integrity in Clinical Biospecimens		
12:30	Lunch (on your own)				
13:30		Session Chair	Steven Wong, M.D., The Methodist Hospital Research Institute		
13:40	Canamia Dathway	ALEXANDRAKIS,	Scanning Correlation Microscopy Methods for Quantifying DNA Repair		
14:00	Genomic Pathway Tools	GEORGIOS	Kinetics Targeted selection, sequencing, and analysis of human telomere and		
14:00	10018	RIETHMAN, HAROLD C.	subtelomere DNA in cancer		
14:20		SHI, HUIDONG	Application of 454-Sequencing to Cancer Epigenomics		
14:40		,	Break		
15:00		Session Chair	Melissa Landis, Ph.D., The Methodist Hospital Research Institute		
15:10		KOPELMAN, RAOUL	Magnetorotation: A Rapid Assay for Single Cell Drug Sensitivity of Cancer Cells		
15:30	Aid Drug Screening & Delivery	EVANS, CONOR LEE	Hyperspectral and Structural Microscopy Platform for Therapy of		
15:50		YAO, XUDONG	Resistant Cancer Ultrathroughput Multiple Reaction Monitoring Mass Spectrometry for		
15.50			Large-Scale Cancer Biomarker Validation		
16:10		ACHARYA, BHARAT R	384-well cell migration assay suitable for high throughput screening		
			(HTS) of chemical libraries for cancer therapeutics		
16:30		KAY, BRIAN	Scaffolds for Delivering Deoxycytidine Kinase to HER2 Positive Cancer Cells		
16:50	Meeting Close		Tony Dickherber		