

**Location: Sheraton Grand at Wild Horse Pass, Phoenix AZ**

**Date: October 21-23, 2016**

**Topics Covered:**

- Immuno-surveillance and immune-therapy
- DNA repair and genomic stability
- Telomeres
- Epigenetics
- Stem cells
- Nanobiology and its application to personalized health care
- Cancer as a threshold to the treatment of many age-related diseases
- Personalized Precision lifestyle medical applications
- Functional Medicine as a systems biology approach to early diagnosis and treatment
- Insulin resistance and cellular proliferation
- Microbiome in health and disease
- Inflammation in proliferative disorders
- Bioactive substances from food and medical nutrition therapy

<b>October 21, 2016</b> 6:30 pm - 8:30 pm	Welcome Reception with Guest Speaker	Erica Ramos, MS, LCGC, Staff Genetic Counselor, Applied Genomics, Illumina
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**October 22, 2016**

<i>The New Biology of Cancer and its Translation into Personalized Precision Therapies</i>		
7:00 am - 8:00 am	Registration and Continental Breakfast	
8:00 am - 8:45 am	Overview of the revolution in the biology of disease	Jeff Bland, PhD, President, Personalized Lifestyle Medicine Institute
8:45 am - 9:30 am	Creating a Precision Healthcare System: Opportunities and Challenges	Thomas Brown, MD, MBA, Executive Director, Swedish Cancer Institute and Co-Chair, Cancer Leadership Council for Providence Health & Services
9:30 am - 10:00 am	The immune system and cancer therapy	Susan Snodgrass, MD, Juno Therapeutics
10:00 am - 10:30 am	Break	
10:30 am - 11:00 am	Inflammation and Cancer	Edward Lin, MD, Seattle Cancer Care Alliance
11:00 am - 11:40 am	Eicosanoids and Specialized Proresolving Mediators in Inflammatory Disorders	Michael S. Conte, MD, Professor and Chief, Division of Vascular and Endovascular Surgery, University of California San Francisco Medical Center
11:40 am - 12:30 pm	Panel Discussion - How is the new understanding of the biology of cancer changing cancer treatment?	Brown, Snodgrass, Lin, and Conte
12:30 pm - 1:30 pm	Lunch	
1:30 pm - 2:15 pm	Kinase Signaling, Insulin Dynamics, and Cancer	Siddhartha Mukherjee, MD, Assistant Professor of Medicine, Columbia University Medical Center
2:15 pm - 3:00 pm	Nanotechnology and its application to personalized, precision health care	Anita Goel, MD, PhD, Chairman, CEO and Scientific Director of the Nanobiosym Research Institute
3:00 pm - 3:30 pm	Break	
3:30 pm - 4:00 pm	Progress in the precision treatment of pediatric brain cancers	Giselle Sholler, MD MSC, Director, Pediatric Oncology Research, Helen DeVos Children's Hospital
4:00 pm - 5:00 pm	Panel Discussion - How does the new science related to cancer support the development of whole person precision cancer care?	Mukherjee, Goel, and Sholler
5:30 pm - 7:00 pm	Reception	Sponsored by Cancer Treatment Centers of America

**October 23, 2016**

<i>The Evolution and Delivery of Personalized Precision Health Care in the 21st Century</i>		
7:00 am - 8:00 am	Registration and Continental Breakfast	
8:00 am - 8:30 am	Review	Jeff Bland, PhD, President, Personalized Lifestyle Medicine Institute
8:30 am - 9:00 am	The Application of Functional Medicine in a Large Medical System	Mark Hyman, MD, Director, Cleveland Clinic Center for Functional Medicine
9:00 am - 9:30 am	Clinical Applications of a Systems Approach to Chronic Disease: Successes and Challenges	Patrick Hanaway, MD, Clinic Director, Cleveland Clinic Center for Functional Medicine
9:30 am - 10:00 am	21st century new technologies in the application to personalized precision health care	Daniel Kraft, MD, Singularity University
10:00 am - 10:30 am	Break	
10:30 am - 11:00 am	The Use of integrated Omics information in the assessment and implementation of personalized, precision health care	Helen Messier, MD, PhD, Medical Director, Genomics, Human Longevity Inc.
11:00 am - 11:30 am	Systems Biology and its application to personalized, precision health care	Nathan Price, PhD, Associate Director, Institute for Systems Biology
11:30 am - 12:30 pm	Panel Discussion: How will the new breakthroughs in medicine be incorporated into personalized precision health care?	Hyman, Hanaway, Kraft, Messier, Price and Ramos
12:30 pm - 1:30 pm	Lunch	
1:30 pm - 2:10 pm	The microbiome and the increasing understanding of its importance in personalized health care	Rob Knight, PhD, Professor, Department of Pediatrics, UC San Diego School of Medicine
2:10 pm - 2:40 pm	Genomics and Whole Person Precision Healthcare Assessment	Michael Nova, MD, PhD, Chief Innovation Officer, Pathway Genomics
2:40 pm - 3:10 pm	Accelerating the Delivery of patient-centered, precision cancer care	Marcia Kean, MBA, Chairman, Strategic Initiatives, Feinstein Kean Healthcare
3:10 pm - 3:30 pm	Break	
3:30 pm - 4:30 pm	Panel discussion: What areas of discovery are contributing to a better understanding of how modifiable dietary and lifestyle factors influence the development of personalized, precision health care?	Knight, Nova, Kean, Aarts and Fox
4:30 pm - 5:00 pm	Closing comments	Jeff Bland, PhD, President, Personalized Lifestyle Medicine Institute