Registration will open at 7:00 a.m. on Thursday, October 6, 2016.

Thursday, October 6, 2016

8:00 a.m.

**Symposia Opening and Welcome**
Ronald A. DePinho, MD

8:15

**Keynote Lecture**
Introduction:
Jennifer Wargo, MD

*A Vulnerability of Drug Resistant Melanomas With Therapeutic Implications*
Rene Bernards, PhD
Netherlands Cancer Institute
Amsterdam, Netherlands

**SESSION I: TUMOR CELL HETEROGENEITY AND EVOLUTION**

Session Chair: Jeffrey J. Molldrem, MD

9:15

**Introduction**
Jeffrey J. Molldrem, MD

9:20

**Impact of Clonal Heterogeneity and Evolution on Chronic Lymphocytic Leukemia**
Catherine J. Wu, MD
Dana-Farber Cancer Institute
Boston, Massachusetts

9:50 Break

10:05

**Studying Clonal Dynamics in Response to Cancer Therapy Using High-Complexity Barcoding**
Frank Stegmeier, PhD
KSQ Therapeutics
Cambridge, Massachusetts

10:35

**Clonal Dynamics in Space and Time: Inference of Evolutionary Properties of Cancer**
Sohrab Shah, PhD
British Columbia Cancer Agency Vancouver
Vancouver, British Columbia, Canada

11:05

Abstract Oral Presentation #1

11:20

Abstract Oral Presentation #2

11:35

Lunch
Trainee Lunch – Limited to 35 (by invite only)
SESSION II: THE MICROENVIRONMENT IN TUMOR ADAPTATION AND THERAPY RESISTANCE

Session Chair: Guillermina Lozano, PhD

12:35 p.m. Introduction
Guillermina Lozano, PhD

12:40 Transcriptional Regulation of Differentiation in Pancreatic Cancer
Gioacchino Natoli, PhD
European Institute of Technology
Milan, Italy

1:10 Hypoxia, Metabolism, and Tumor Progression
Celeste Simon, PhD
Abramson Family Cancer Research Institute
Philadelphia, Pennsylvania

1:40 Identification of Metabolic Vulnerabilities of Ras-Driven Cancer Cells
Eileen White, PhD
Rutgers Cancer Institute of New Jersey
New Brunswick, New Jersey

2:10 Abstract Oral Presentation #3

2:25 Abstract Oral Presentation #4

2:40 Break

SESSION III: IMMUNE SURVEILLANCE AND EVOLUTION

Session Chair: Valerie Le Bleu, PhD

2:55 Introduction
Valerie Le Bleu, PhD

3:00 Genes, Mutations and Immunotherapy Response
Timothy A. Chan, MD, PhD
Memorial Sloan-Kettering Cancer Center
New York, New York

3:30 In Vivo Discovery of Novel Targets for Cancer Immunotherapy
Kai Wucherpfennig, MD, PhD
Dana-Farber Cancer Institute
Boston, Massachusetts
Thursday, October 6, 2016 (continued)

4:00  The Multifaceted Functions of PD-1 Pathway
      Arlene Sharpe, MD, PhD
      Harvard Medical School
      Boston, Massachusetts

4:30  Abstract Oral Presentation #5

4:45  Abstract Oral Presentation #6

5:00  Ernst W. Bertner Award Lecture and Presentation
      Introduction: Helen Piwnica-Worms, PhD

      The Complexity of p53:
      Tumor Suppressor and Oncogene
      Carol L. Prives, PhD
      Columbia University
      New York, New York

6:00-7:00 p.m.  Poster Session and Reception

Friday, October 7, 2016

9:00 a.m.  Keynote Lecture
           Introduction: Andrea Viale, MD

           Mechanisms of Melanoma Metastasis
           Sean Morrison, PhD
           UT Southwestern Medical Center
           Dallas, Texas

SESSION IV: TUMOR STEMNESS, DORMANCE AND METASTASIS

Session Chair: David Piwnica-Worms, MD, PhD

10:00  Introduction
       David Piwnica-Worms, MD, PhD

10:05  A Wnt-er of Discontent:
       Effects of Age on Melanoma Metastasis
       Ashani T. Weeraratna, PhD
       The Wistar Institute
       Philadelphia, Pennsylvania
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<tr>
<th>Time</th>
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<td>10:35</td>
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| 10:55 | **Stromal Niche Mediates Metastasis and Treatment Resistance of Breast Cancer**  
Yibin Kang, PhD  
Warner-Lambert/Parke-Davis  
Princeton, New Jersey |
| 11:25 | **Lung Stem Cell Approaches to Understanding Differentiation, Disease and Therapy**  
Carla F. Kim, PhD  
Harvard Stem Cell Institute  
Boston, Massachusetts |
| 11:55 | Lunch                                                                 |
| 1:00  | Abstract Oral Presentation #7                                        |
| 1:15  | Abstract Oral Presentation #8                                        |
| 1:30  | **Wilson Stone Award Presentation and Lecture**                      |
|       | Introduction: Jennifer Wargo, MD                                      |
| 2:15  | **Heath Award Lecture and Presentation**                              |
|       | Introduction: Roeland Verhaak, PhD                                    |
|       | **The Application of Integrative Sequencing for Precision Oncology**  |
|       | Arul M. Chinnaiyan, MD, PhD                                          |
|       | University of Michigan Medical School                                 |
|       | Ann Arbor, Michigan                                                   |
| 3:15  | **Closing Remarks**                                                  |
|       | Andrew Futreal, PhD                                                  |
| 3:30  | Adjourn                                                               |

Agendas are subject to change because we are always striving to improve the quality of your educational experience. MD Anderson may substitute faculty with comparable expertise on rare occasions necessitated by illness, scheduling conflicts, and so forth.

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