

PROGRAM

Registration will open at 7:00 a.m. on Thursday, October 5, 2017.

Thursday, October 5, 2017

8:00 a.m.

Symposia Opening and Welcome

Helen Piwnica-Worms, PhD

8:15

Keynote Lecture

Introduction:

Helen Piwnica-Worms, PhD

Mitochondrial Regulation of Cancer and Immunity

Naveep S. Chandel, PhD

Northwestern University

Chicago, Illinois

SESSION I: METABOLISM AND TUMOR MICROENVIRONMENT

Session Chair: Valerie LeBleu, PhD

9:15

Introduction

Valerie LeBleu, PhD

9:20

Fueling T cells in Inflammation and Cancer

Jeffrey C. Rathmell, PhD

Vanderbilt University Medical Center

Nashville, Tennessee

9:50

Break

10:05

Identifying Metabolic Dependencies in Pancreatic Cancer

Alec C. Kimmelman, MD, PhD

Perlmutter Cancer Center, NYU Langone Medical Center

New York, New York

10:35

mTOR Signaling and Metabolic Control of T cell Fate Decisions

Hongbo Chi, PhD

St. Jude Children's Research Hospital

Memphis, Tennessee

PROGRAM

Thursday, October 5, 2017 (*continued*)

SESSION II: TRANSLATIONAL AND IMAGING

Session Chair: Pratip K. Bhattacharya, PhD

11:05

Introduction

Pratip K. Bhattacharya, PhD

11:10

PI3K and Cancer Metabolism

Lewis C. Cantley, PhD
Weill Cornell Medicine
New York, New York

11:40

Assessing Tumor Metabolism *in vivo*

Ralph J. Deberardinis, MD, PhD
University of Texas – Southwestern Medical Center
Dallas, Texas

12:10 p.m.

Imaging Cancer Heterogeneity and Therapy Failure

Erik Sahai, PhD
The Francis Crick Institute
London, United Kingdom

12:40

Lunch/Poster Session

SESSION II: BIOENERGETICS

Session Chair: Joya Chandra, PhD

2:10

Introduction

Joya Chandra, PhD

2:15

Mitochondrial Parts, Pathways, and Pathogenesis

Vamsi K. Mootha, MD
Harvard Medical School
Boston, Massachusetts

2:45

Effects of Weight Loss and Exercise on Cancer Biomarkers

Anne McTiernan, MD, PhD
Fred Hutchinson Cancer Research Center
Seattle, Washington

3:15

Preservation of Lean Mass in Cancer Patients

Cynthia A. Thomson, PhD, RD
The University of Arizona Cancer Center
Tucson, Arizona

PROGRAM

Thursday, October 5, 2017 *(continued)*

- 3:30 Abstract Oral Presentation
- 3:45 Break
- 4:00 **Ernst W. Bertner Award Lecture and Presentation**
Introduction: Sharon Y. R. Dent, PhD
- How Cancer Cells Decide What to Eat?**
Craig B. Thompson, MD
Memorial Sloan Kettering Cancer Center
New York, New York
- 5:00 Adjourn

Friday, October 6, 2017

- 9:00 a.m. **Keynote Lecture**
Introduction: David R. Piwnica-Worms, MD, PhD
- Imaging Tumor Metabolism With Hyperpolarized ^{13}C -Labeled Cell Substrates**
Kevin F. Brindle, DPHIL
University of Cambridge
Cambridge, United Kingdom

SESSION IV: CANCER SIGNALING AND METABOLISM

Session Chair: Xiaobing Shi, PhD

- 10:00 **Introduction**
Xiaobing Shi, PhD
- 10:05 **Metabolism, Epigenetics, and Tumorigenesis**
Kathryn E. Wellen, PhD
The University of Pennsylvania, Perelman School of Medicine
Philadelphia, Pennsylvania
- 10:35 Break
- 10:55 **AMPK Pathway: Metabolic Rewiring and Therapeutic Windows**
Reuben J. Shaw, PhD
The Salk Institute for Biological Studies
Philadelphia, Pennsylvania

PROGRAM

Friday, October 6, 2017 *(continued)*

11:25	Oncometabolic Outcomes and Metabolic Vulnerabilities in TCA-truncated Tumors Eyal Gottlieb, PhD Israel Institute of Technology Haifa, Israel
11:40	Oral Abstract Presentation
11:55	Lunch Trainee Luncheon (by invite only)
1:00 p.m.	Wilson Stone Award Presentation and Lecture Introduction: Margarida Almeida Santos, PhD
1:45	Heath Award Lecture and Presentation Introduction: Gordon B. Mills, MD, PhD MYC and Metabolic Vulnerabilities of Cancer Chi V. Dang, MD, PhD University of Pennsylvania Philadelphia, Pennsylvania
2:45	Closing Remarks Giulio Draetta, MD, PhD
3:00	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.

Photographing, audiotaping and videotaping are prohibited.