Beyond immune checkpoint blockade:
New Approaches to targeting Host – Tumor Interactions in Prostate Cancer

June 26-29, 2014
Estancia Hotel
La Jolla, CA

Program Organizing Committee:
Haydn Kissick, PhD, Chair (Emory University)
Christopher Barbieri, MD, PhD (Weill Cornell Medical College)
Jennifer Bishop, PhD (Vancouver Prostate Centre)
Rohit Mehra, MD (University of Michigan)
David Takeda, MD, PhD  (Harvard: Dana-Farber Cancer Institute)
Thursday, June 26, 2014

Estancia Hotel
9700 N. Torrey Pines Road
La Jolla, CA 92037

THURSDAY, JUNE 26, 2014

3:00 PM - 7:00 PM  Arrival/ Check-In & Registration
Registration Desk     Pacifica Pre Function A

5:00 PM - 6:00 PM  Reception
          Olive Lawn

6:00 PM - 7:15 PM  Dinner
                Grande Room

7:15 PM - 7:30 PM  Move to Session I

Session I:  Introduction
Location:  Pacifica Ballroom

7:30 PM - 7:35 PM  Welcome and Opening Remarks
Stuart Holden, MD
Prostate Cancer Foundation; University of California, Los Angeles

7:35 PM - 8:35 PM  Back to the Future
Donald Coffey, PhD
Johns Hopkins University
Friday, June 27, 2014

6:45 AM - 7:45 AM  
**Breakfast**  
*Hacienda Lawn*

7:45 AM - 8:00 AM  
**Move to Session II**

**Session II: Charge to Participants: The Big Questions**  
*Location: Pacifica Ballroom*

8:00 AM – 9:00 AM  
**The Big Questions**  
*Kenneth Pienta, MD*  
Johns Hopkins University

**Session III: Why Didn’t Checkpoint Blockade Work Better, and How Can We Trigger an Effective Immune Response Against Prostate Cancer?**  
*Location: Pacifica Ballroom*

**Session Chair:**  
*Haydn Kissick, PhD*  
Emory University

9:00 AM - 9:10 AM  
**Introduction to Session**  
*Haydn Kissick, PhD*  
Emory University

9:10 AM - 9:20 AM  
**Deciphering Adaptive Immunity in Prostate Cancer Patients**  
*Lawrence Fong, MD*  
University of California, San Francisco

9:20 AM - 9:40 AM  
**Discussion**  
First Question: Nathaniel Brennen, PhD

9:40 AM - 9:50 AM  
**Combining Epigenetic Priming with Immune Checkpoint Blockade for Advanced Prostate Cancer**  
*Charles Drake, MD, PhD*  
The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

9:50 AM – 10:10 AM  
**Discussion**  
First Question: Todd Morgan, MD
10:10 AM - 10:20 AM  Therapeutic Vaccines in Prostate Cancer: Lessons to Shape the Future  
James Gulley, MD, PhD  
National Cancer Institute  

10:20 AM - 10:40 AM  Discussion  
First Question: Ashley Ross, MD, PhD  

10:40 AM - 10:50 AM  Break  

10:50 AM - 11:00 AM  Not Just a Pharmacological Target: Preclinical Studies and Clinical Development of a DNA Vaccine Targeting the Androgen Receptor  
Brian Olson, PhD  
University of Wisconsin Carbone Cancer Center  

11:00 AM - 11:20 AM  Discussion  
First Question: Charles Chan, PhD  

11:20 AM - 11:30 AM  Immunotherapy for Prostate Cancer Combining Targeted Inhibition of STAT3-Mediated Immunosuppression with CAR-Engineered T cells  
Saul Priceman, PhD  
City of Hope Comprehensive Cancer Center  

11:30 AM - 11:50 AM  Discussion  
First Question: Tanya Stoyanova, PhD  

11:50 AM - 12:00 PM  Boosting Anti-Tumor Immunity Through Combination Immunotherapy  
William Redmond, PhD  
Earle A. Chiles Research Institute  

12:00 PM - 12:20 PM  Discussion  
First Question: Amina Zoubeidi, PhD  

12:20 PM - 12:30 PM  Chronic Inflammation in Benign Prostate Tissue is Associated with High-Grade Prostate Cancer in the Placebo Arm of the Prostate Cancer Prevention Trial  
Angelo De Marzo, MD, PhD  
Johns Hopkins University School of Medicine  

12:30 PM - 12:50 PM  Discussion  
First Question: Kosj Yamoah, MD, PhD
Friday, June 27, 2014

12:50 PM - 1:50 PM  
**Lunch**  
*Olive Lawn*

1:50 PM - 2:00 PM  
**Move to Session IV**

**Session IV: The Tumor Microenvironment: Implications for Therapy Resistance and Tumor Metastasis**  
*Location: Pacifica Ballroom*

**Session Chair:**  
David Takeda, MD, PhD  
Harvard: Dana-Farber Cancer Institute

2:00 PM - 2:10PM  
**Introduction to Session**  
David Takeda, MD, PhD  
Harvard: Dana-Farber Cancer Institute

2:10 PM - 2:20 PM  
**The Highs and Lows of T Cell Avidity: Tumor Immunity Meets Immune Suppression**  
Arthur Hurwitz, PhD  
National Cancer Institute

2:20 PM - 2:40 PM  
**Discussion**  
First Question:  Li Wang, PhD

2:40 PM - 2:50 PM  
**Controlling Foxp3+ Tregs to Enhance Immune Memory Triggered by mTOR Inhibition**  
Hyung Kim, MD  
Cedars-Sinai Medical Center

2:50 PM - 3:10 PM  
**Discussion**  
First Question:  Christopher Barbieri, MD, PhD

3:10 PM - 3:20 PM  
**Discovery of Cancer Immunotherapy Targets Using In Vivo RNAi Screening**  
Penghui Zhou, PhD  
Harvard: Dana Farber Cancer Institute

3:20 PM - 3:40 PM  
**Discussion**  
First Question:  Tatiana Byzova, PhD

3:40 PM - 3:50 PM  
**Break**
Friday, June 27, 2014

3:50 PM - 4:00 PM  
**Mesenchymal Stem Cells (MSC): Role in Prostate Carcinogenesis?**  
**Nathaniel Brennen, PhD**  
Johns Hopkins University

4:00 PM - 4:20 PM  
Discussion  
First Question: Andrew Goldstein, PhD

4:20 PM - 4:30 PM  
**Regulators of Reactive Stroma: Therapeutic Resistance Implications**  
**David Rowley, PhD**  
Baylor College of Medicine

4:30 PM - 4:50 PM  
Discussion  
First Question: Michael Haffner, MD

4:50 PM - 5:00 PM  
**Normal and Metastatic Bone Marrow Niches**  
**Charles Chan, PhD**  
Stanford University

5:00 PM - 5:20 PM  
Discussion  
First Question: Everardo Macias, PhD

5:20 PM - 5:30 PM  
**Hijacking the Microenvironment and Other Dirty Tricks that Metastatic Cancers Play**  
**Sandra McAllister, PhD**  
Harvard: Brigham & Women's Hospital; Harvard Medical School

5:30 PM - 5:50 PM  
Discussion  
First Question: Felix Feng, MD

6:30 PM - 7:45 PM  
**Dinner**

7:45 PM - 8:00 PM  
**Move to Session V**

**Session V: Plenary Session: Mouse Models**  
Location: Pacifica Ballroom

**Session Chair:**  
**Kenneth Pienta, MD**  
Johns Hopkins University

8:00 PM - 8:25 PM  
**An Inducible Mouse Model of Cytokine-Mediated Prostate Inflammation**  
**Charles Bieberich, PhD**  
University of Maryland

8:25 PM - 8:45 PM  
Discussion  
First Question: Scott Tomlins, MD, PhD
Friday, June 27, 2014

8:45 PM - 9:10 PM  Of Mice and Men; Perspectives on Prostate Cancer
Donald Coffey, PhD
Johns Hopkins University

9:10 PM - 9:30 PM  Discussion
First Question: Haydn Kissick, PhD

SATURDAY, JUNE 28, 2014

7:15 AM - 8:15 AM  Breakfast  Hacienda Lawn

8:15 AM - 8:30 AM  Move to Session VI

Session VI: How do Host-Tumor Interactions Interplay with Current Therapies and Tumor Phenotypes?
Location: Pacifica Ballroom

Session Chair: Christopher Barbieri, MD, PhD
Weill Cornell Medical College

8:30 AM - 8:40 AM  Introduction to Session
Christopher Barbieri, MD, PhD
Weill Cornell Medical College

8:40 AM - 8:50 AM  The Abscopal Effect - Fact or Fiction?
Ralph Weichselbaum, MD
University of Chicago

8:50 AM - 9:10 AM  Discussion
First Question: Lauren Harshman, MD

9:10 AM - 9:20 AM  Radiation-Induced Immune Modulation as Prostate Cancer Therapy
Susan Slovin, MD, PhD
Memorial Sloan-Kettering Cancer Center

9:20 AM - 9:40 AM  Discussion
First Question: Sumit Subudhi, MD, PhD
Saturday, June 28, 2014

9:40 AM - 9:50 AM  
**Alpha-Radiation: What is the Target, and How Do We Leverage It?**
*Michael Morris, MD*
Memorial Sloan-Kettering Cancer Center

9:50 AM - 10:10 AM  
Discussion
First Question: David Mulholland, PhD

10:10 AM - 10:20 AM  
**Clinical Applications of Anti-PSMA Monoclonal Antibody Therapy**
*Scott Tagawa, MD*
Weill Cornell Medical College

10:20 AM - 10:40 AM  
Discussion
First Question: Brian Olson, PhD

10:40 AM - 10:50 AM  
Break

10:50 AM - 11:00 AM  
**Combining ADT and Immunotherapy: Rationale and Clinical Trial Design Considerations**
*Karen Autio, MD, MSc*
Memorial Sloan-Kettering Cancer Center

11:00 AM - 11:20 AM  
Discussion
First Question: Jennifer Bishop, PhD

11:20 AM - 11:30 AM  
**Targeting the Host-Tumor Metabolic Interface in Prostate Cancer: Where is the Sweet Spot?**
*Akash Patnaik, MD, PhD, MMSc*
Harvard: Beth Israel Deaconess Medical Center; Harvard Medical School

11:30 AM - 11:50 AM  
Discussion
First Question: Andrew Hsieh, MD

11:50 AM - 12:00 PM  
**Update on Prostvac Clinical Development**
*Philip Kantoff, MD*
Harvard: Dana-Farber Cancer Institute

12:00 PM - 12:20 AM  
Discussion
First Question: David Ulmert, MD, PhD

12:30 PM - 1:30 PM  
**Lunch**
Olive Lawn

1:30 PM - 6:00 PM  
**Afternoon Free**

6:00 PM - 7:15 PM  
**Dinner**
Adobe

7:15 PM - 7:30 PM  
**Move to Session VI I**
**Session VII:** Applying Principles of Precision Medicine to Prostate Cancer Immunotherapy  
Location: Pacifica Ballroom

**Session Chair:** Jennifer Bishop, PhD  
Vancouver Prostate Centre

7:30 PM - 7:40 PM  
**Prostate Epithelial Heterogeneity and Immune Cell Interactions**  
Andrew Goldstein, PhD  
University of California, Los Angeles

7:40 PM - 8:00 PM  
Discussion  
First Question: Lorelei Mucci, ScD

8:00 PM - 8:10 PM  
**Immune Checkpoint Blockade in Prostate Cancer Therapy**  
Sumit Subudhi, MD, PhD  
University of Texas MD Anderson Cancer Center

8:10 PM - 8:30 PM  
Discussion  
First Question: Matthew Galsky, MD

8:30 PM - 8:40 PM  
**Dissecting Intratumor Heterogeneity with CyTOF Mass Cytometry**  
Erin Simonds, PhD  
University of California, San Francisco

8:40 PM - 9:00 PM  
Discussion  
First Question: David Takeda, MD, PhD

9:00 PM - 10:00 PM  
**Roundtable Discussion:** Prospects and Challenges in Personalizing Immunotherapy for Prostate Cancer Patients

**Moderator:**  
Jennifer Bishop, PhD  
Vancouver Prostate Centre

**Participants:**  
Carlo Bifulco, MD  
Providence Portland Medical Center  
Martin Sanda, MD  
Emory University  
Martin Pomper, MD, PhD  
Johns Hopkins University  
Doug McNeel, MD, PhD  
University of Wisconsin

First Question: Alexander Wyatt, DPhil  
Second Question: Karen Sfanos, PhD
SUNDAY, JUNE 29, 2014

*Hotel checkout before 12 noon

6:15 AM - 7:15 AM  Breakfast  Hacienda Lawn

7:15 AM - 7:30 AM  Move to Session VIII

Session VIII: Emerging Host-Tumor Interactions to Consider
Location: Pacifica Ballroom

Session Chair: Rohit Mehra, MD
University of Michigan

7:30 AM - 7:40 AM  Introduction to Session
Karen Sfanos, PhD
Johns Hopkins University School of Medicine

7:40 AM - 7:50 AM  Obesity, White Adipose Inflammation, and Prostate Cancer
Andrew Dannenberg, MD
Weill Cornell Medical College

7:50 AM - 8:10 AM  Discussion
First Question: Scott Tagawa, MD, MS

8:10 AM - 8:20 AM  Tumor Drivers of the Link Between Obesity and Lethal Prostate Cancer
Lorelei Mucci, ScD, MPH
Harvard School of Public Health

8:20 AM - 8:40 AM  Discussion
First Question: William Redmond, PhD

8:40 AM - 8:50 AM  Towards Identification of Prostate Cancer Resistance Mechanisms to Dietary Interventions
Everardo Macias, PhD
Duke University

8:50 AM - 9:10 AM  Discussion
First Question: Joshua Lang, MD
Sunday, June 29, 2014

9:10 AM - 9:20 AM  Cancer and the Microbiome: An Overview
Andrea Miyahira, PhD
Prostate Cancer Foundation

9:20 AM - 9:30 AM  Emerging Roles of the Microbiome in Prostate Carcinogenesis
Karen Sfanos, PhD
Johns Hopkins University School of Medicine

9:30 AM - 9:50 AM  Discussion
First Question: Akash Patnaik, MD, PhD

9:50 AM - 10:00 AM  Break

10:00 AM - 10:10 AM  Role of Platelets in Prostate Cancer Progression
Tatiana Byzova, PhD
Cleveland Clinic

10:10 AM - 10:30 AM  Discussion
First Question: Nicholas Mitsiades, MD, PhD

10:30 AM - 10:40 AM  Constructing a Robust Blood-Based Prognostic Gene Model for Prostate Cancer
Li Wang, PhD
Icahn School of Medicine at Mount Sinai

10:40 AM - 11:00 AM  Discussion
First Question: Christopher Maher, PhD

11:00 AM - 11:15 AM  Meeting Debrief
Kenneth Pienta, MD  Howard Soule, PhD
Johns Hopkins University  Prostate Cancer Foundation

11:15 AM  Meeting Adjourned
** A boxed lunch will be provided **