2018 Coffey-Holden
Prostate Cancer Academy Meeting

Tumor Cell Heterogeneity and Resistance

June 21 - 24, 2018
UCLA Luskin Conference Center
Los Angeles, CA

Program Organizing Committee:
Robert Den, MD, Chair (Thomas Jefferson University)
Maria Carlo, MD (Memorial Sloan Kettering Cancer Center)
Renée de Leeuw, PhD (Thomas Jefferson University)
Thomas Hope, MD (University of California, San Francisco)
Fatima Karzai, MD (National Cancer Institute)
Rana McKay, MD (University of California, San Diego)
Simpa Salami, MD (University of Michigan)
Howard Soule, PhD (Prostate Cancer Foundation)
Kenneth Pienta, MD (Johns Hopkins University)
Andrea Miyahira, PhD (Prostate Cancer Foundation)
THURSDAY, JUNE 21, 2018

3:00 PM - 5:00 PM  Registration  Centennial Foyer
5:00 PM - 6:00 PM  Welcome Reception  Centennial Terrace
6:00 PM - 7:15 PM  Welcome Dinner  Centennial Terrace
7:15 PM - 7:30 PM  Move to Session I  Centennial A&B

**Session I: Introduction**
Location:  Centennial A&B

7:30 PM - 7:40 PM  Welcome and Opening Remarks
**Stuart Holden, MD**
Prostate Cancer Foundation; University of California, Los Angeles

**Distinguished Lecture:**
7:40 PM - 8:40 PM

Protogenous Characterization of Solid and Liquid Biopsies in Prostate Cancer
**Peter Kuhn, PhD**
University of Southern California

Discussion
8:40 PM – 9:00 PM
First Question: Himisha Beltran, MD
### FRIDAY, JUNE 22, 2018

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<th>Time</th>
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<tr>
<td>6:15 AM</td>
<td>Registration</td>
<td>Centennial Foyer</td>
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<tr>
<td>6:15 AM - 7:15 AM</td>
<td>Breakfast</td>
<td>Plateia A</td>
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<td>7:15 AM - 7:30 AM</td>
<td>Move to Session II</td>
<td>Centennial A&amp;B</td>
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**Session II: The Big Questions**

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<tr>
<th>Time</th>
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<tr>
<td>7:30 AM - 8:00 AM</td>
<td>The Big Questions</td>
<td>Kenneth Pienta, MD</td>
<td>Johns Hopkins University</td>
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**Session III: Recognizing Tumor Heterogeneity**

**Session Chair:** Simpa Salami, MD  
University of Michigan

<table>
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<th>Time</th>
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<tr>
<td>8:00 AM - 8:20 AM</td>
<td>Prostate Cancer Evolution: The Emergence of New Species Driven by Treatment Pressure</td>
<td>Peter Nelson, MD</td>
<td>University of Washington</td>
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<td>8:20 AM – 8:40 AM</td>
<td>Discussion</td>
<td>First Question: Joshua Lang, MD</td>
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<tr>
<td>8:40 AM - 8:50 AM</td>
<td>Imaging Approaches for Identifying Heterogeneous and Aggressive Prostate Cancer</td>
<td>Robert Reiter, MD</td>
<td>University of California, Los Angeles</td>
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<td>8:50 AM – 9:10 AM</td>
<td>Discussion</td>
<td>First Question: Reem Malek, PhD</td>
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<tr>
<td>9:10 AM - 9:20 AM</td>
<td>Intraperson Heterogeneity: Molecular Correlates of Differential mpMRI and Pathologic Response to Neoadjuvant ADT Plus Enzalutamide</td>
<td>Adam Sowalsky, PhD</td>
<td>National Cancer Institute</td>
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<tr>
<td>9:20 AM – 9:40 AM</td>
<td>Discussion</td>
<td>First Question: Thomas Hope, MD</td>
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Friday, June 22, 2018

9:40 AM – 9:50 AM  **Rethinking the Detection and Development of Aggressive Prostate Cancer**  
*Scott Tomlins, MD, PhD*
University of Michigan

9:50 AM – 10:10 AM  Discussion  
First Question: Ayesha Shafi, PhD

10:10 AM – 10:30 AM  **Break**

**Session IV: Therapy Driven Heterogeneity and Resistance**
*Session Chair: Marie Carlo, MD*
Memorial Sloan Kettering Cancer Center

10:30 AM – 10:40 AM  **Cellular Plasticity in Treatment Resistance**  
*Amina Zoubeidi, PhD*
Vancouver Prostate Centre

10:40 AM – 11:00 AM  Discussion  
First Question: Saul Priceman, PhD

11:00 AM – 11:20 AM  **The Immune Microenvironment Determines Radio Curability**  
*Ralph Weichselbaum, MD*
University of Chicago

11:20 AM – 11:40 AM  Discussion  
First Question: Srinivas Viswanathan, MD, PhD

11:40 AM – 11:50 AM  **Dissecting Mechanisms of Radiation Resistance in Prostate Cancer**  
*Kent Mouw, MD, PhD*
Harvard: Dana-Farber Cancer Institute

11:50 AM – 12:10 PM  Discussion  
First Question: Shabnam Shalapour, PhD

12:10 PM – 12:20 PM  **Modulators of Enzalutamide Resistance and Sensitivity in Cells with AR-Amplification**  
*Rohit Bose, MD, PhD*
University of California, San Francisco

12:20 PM – 12:40 PM  Discussion  
First Question: Christopher Barbieri, MD, PhD
Friday, June 22, 2018

12:40 PM – 1:45 PM  Lunch  
Plateia A

1:45 PM - 2:00 PM  Move to Session V  
Centennial A&B

Session V: Clinical Trials Designed Resistance/Heterogeneity
Session Chair: Rana McKay, MD  
University of California, San Diego

2:00 PM – 2:10 PM  Neoadjuvant Intense Androgen Deprivation Therapy for High Risk Localized Prostate Cancer – Are We Ready for a Phase 3 Trial?  
Rana McKay, MD  
University of California, San Diego

2:10 PM – 2:20 PM  Resistance Mechanisms in Neoadjuvant Intensive Androgen Deprivation Therapy  
Hui Hui Ye, MD  
Harvard: Beth Israel Deaconess Medical Center

2:20 PM – 2:40 PM  Discussion  
First Question: Tanya Dorff, MD

2:40 PM – 2:50 PM  Evaluating Therapies in Prostate Cancer: Beyond Anatomic Distribution  
Ana Aparicio, MD  
The University of Texas MD Anderson Cancer Center

2:50 PM – 3:10 PM  Discussion  
First Question: Robert Den, MD

3:10 PM – 3:20 PM  Emerging Strategies for Crowdsourced Genomic Discovery in Prostate Cancer  
Eliezer Van Allen, MD  
Harvard: Dana-Farber Cancer Institute

3:20 PM – 3:40 PM  Discussion  
First Question: William Dahut, MD

3:40 PM – 3:50 PM  A New Era of Clinical Trials: Novel Designs and Biomarker Based Studies in Prostate Cancer  
Howard Scher, MD  
Memorial Sloan Kettering Cancer Center

3:50 PM – 4:10 PM  Discussion  
First Question: Isla Garraway, MD, PhD

4:10 PM – 4:20 PM  Break
**Session VI: Microenvironment: The Cancer Swamps**

**Session Chair:** Renée de Leeuw, PhD  
Thomas Jefferson University

4:20 PM – 4:30 PM  
**Stromal Regulation of Prostate Cancer Progression**  
**Massimo Loda, MD**  
Harvard: Dana-Farber Cancer Institute

4:30 PM – 4:40 PM  
Discussion  
First Question: Andrew Goldstein, PhD

4:50 PM – 5:00 PM  
**Tissue Recombination Between Mesenchyme and Epithelial Stem Cells for Studying Drivers of Tumor Epithelium Phenotype**  
**Scott Cramer, PhD**  
University of Colorado Denver

5:00 PM – 5:20 PM  
Discussion  
First Question: Matthew Rettig, MD

5:20 PM – 5:30 PM  
**Revisiting Seed and Soil: How Cancer Cell Foraging Promotes Metastasis**  
**Sarah Amend, PhD**  
Johns Hopkins University

5:30 PM – 5:50 PM  
Discussion  
First Question: Nicholas Nickols, MD, PhD

5:50 PM – 6:00 PM  
**Prostate Stroma Supports Tissue Phenotypes of Human Primary Prostate Organoids and Tumoroids**  
**Larisa Nonn, PhD**  
University of Illinois at Chicago

6:00 PM – 6:20 PM  
Discussion  
First Question: Renée de Leeuw, PhD

6:20 PM – 6:30 PM  
**Temporal/Spatial Transcriptomic Analysis of Normal and Neoplastic Stem Cell Niches**  
**Charles Chan, PhD**  
Stanford University

6:30 PM – 6:50 PM  
Discussion  
First Question: Xiao Wei, MD

7:00 PM – 7:45 PM  
**Dinner**  
Centennial Terrace

7:45 PM - 8:00 PM  
**Move to Session VI**  
Centennial A&B

8:00 PM – 9:00 PM  
**Twitter RFA Breakout Session**  
Centennial A&B
7:00 AM - 7:45 AM  Breakfast  
Plateia A

7:45 AM - 8:00 AM  Move to Session VII  
Centennial A&B

Session VII: Heterogeneity and Metastasis
Session Chair:  Thomas Hope, MD  
University of California, San Francisco

8:00 AM – 8:20 AM  Systemic Imaging of PD-L1 and PD-1  
Elisabeth de Vries, MD, PhD  
University Medical Center Groningen, Netherlands

8:20 AM – 8:40 AM  Discussion  
First Question: Simpa Salami, MD

8:40 AM – 8:50 AM  Radiation Therapy in Oligometastatic Recurrent or Progressive Prostate Cancer  
Phuoc Tran, MD, PhD  
Johns Hopkins University

8:50 AM – 9:10 AM  Discussion  
First Question: Di Zhao, PhD

9:10 AM – 9:30 AM  Restriction Spectrum Imaging of Metastatic Prostate Cancer  
Michael Hahn, MD, PhD  
University of California, San Diego

9:30 AM – 9:50 AM  Discussion  
First Question: Ganesh Palapattu, MD

9:50 AM – 10:10 AM  Prostate Cancer Heterogeneity: The Bane and the Opportunities  
David Quinn, MD  
University of Southern California

10:10 AM – 10:30 AM  Discussion  
First Question: Adam Dicker, MD, PhD

10:30 AM – 11:00 AM  Twitter RFA Awards

11:00 AM – 11:30 AM  WWCD: What Would Coffey Do?

11:30 AM – 11:45 AM  Group Pictures
11:45 AM – 1:00 PM  
**Lunch**  
*Plateia A*

**FREE AFTERNOON**

1:15 PM – 2:15 PM  
**Personal Training Session**  
*RSVP required, limited availability*  
*Lunch available immediately following training session*

5:00 PM – 5:45 PM  
**Dinner**  
*Centennial Terrace*

5:45 PM – 6:00 PM  
**Move to Session VIII**  
*Centennial A&B*

**Session VIII: Immunotherapeutic Approaches to Heterogeneity**

**Session Chair:** Fatima Karzai, MD  
National Cancer Institute

6:00 PM – 6:20 PM  
**Immunologic Heterogeneity: Perils and Prospects (or Potential)**  
*James Gulley, MD, PhD*  
National Cancer Institute  
*Ravi Madan, MD*  
National Cancer Institute

6:20 PM – 6:40 PM  
**Discussion**  
First Question: Rana McKay, MD

6:40 PM – 6:50 PM  
**Overcoming the Immunosuppressive Tumor Microenvironment in Prostate Cancer**  
*Sumit Subudhi, MD, PhD*  
The University of Texas MD Anderson Cancer Center

6:50 PM – 7:10 PM  
**Discussion**  
First Question: Andrew Hsieh, MD

7:10 PM – 7:30 PM  
**Break**

7:30 PM – 7:40 PM  
**Synthetic Essentiality: Targeting Genetic Heterogeneity in Prostate Cancer**  
*Di Zhao, PhD*  
The University of Texas MD Anderson Cancer Center

7:40 PM – 8:00 PM  
**Discussion**  
First Question: Won Kim, MD
Saturday, June 23, 2018

8:00 PM – 8:10 PM
The Hostile Immune Environment of the Prostate
Haydn Kissick, PhD
Emory University

8:10 PM – 8:30 PM
Discussion
First Question: Rajan Kulkarni, MD

8:30 PM – 8:40 PM
Role of TRM Cells in Tumor Heterogeneity and Response to Immunotherapy
Kavita Dhodapkar, MD
Yale University

8:40 PM – 9:00 PM
Discussion
First Question: Bryan Smith, PhD
SUNDAY, JUNE 24, 2018

7:00 AM - 7:45 AM  Breakfast  Plateia A

7:45 AM - 8:00 AM  Move to Session IX  Centennial A&B

Session IX: Genomically Driven Diversity and Resistance
Session Chair: Robert Den, MD
Thomas Jefferson University

8:00 AM – 8:20 AM  Systematic Approaches to Identify Genes Involved in Castrate Resistant Prostate Cancer
William Hahn, MD
Harvard: Dana-Farber Cancer Institute

8:20 AM – 8:40 AM  Discussion
First Question: Christopher Logothetis, MD

8:40 AM – 8:50 AM  Epigenetic Alterations Involved in Castration Resistance
Michael Haffner, MD, PhD
Johns Hopkins University

8:50 AM – 9:10 AM  Discussion
First Question: Stephanie Harmon, PhD

9:10 AM – 9:20 AM  Intratumoral and Intertumoral Genomic Heterogeneity of Multifocal Localized Prostate Cancer: Implications for Molecular Subtyping
Hannelore Heemers, PhD
Cleveland Clinic

9:20 AM – 9:40 AM  Discussion
First Question: Maria Carlo, MD

9:40 AM – 9:50 AM  Insights from Whole Genome Sequencing of 101 Metastatic Castration Resistant Prostate Cancers
Felix Feng, MD
University of California, San Francisco

9:50 AM – 10:10 AM  Discussion
First Question: John Shen, MD

10:10 AM – 10:20 AM  Tumor Heterogeneity, AR-V7, and Resistance to Abiraterone and Enzalutamide
Andrew Armstrong, MD
Duke University

10:20 AM – 10:40 AM  Discussion
First Question: Sarah Amend, PhD
10:40 AM – 11:00 AM  
**Convergent Evolution to a Stem Cell Phenotype in Epithelial Cancers**  
**Owen Witte, MD**  
University of California, Los Angeles

11:00 AM – 11:20 AM  
Discussion  
First Question: Akash Patnaik, MD, PhD

**Session X: Closing Remarks**

11:20 AM – 12:00 PM  
**Meeting Debrief**  
**Kenneth Pienta, MD**  
Johns Hopkins University  
**Howard Soule, PhD**  
Prostate Cancer Foundation

12:00 PM  
**Departures - Boxed Lunches Provided**