2024 Coffey-Holden
Prostate Cancer Academy Meeting

Personalized Medicine:
Leave No Patient Behind

June 20 - 23, 2024
University of California, Los Angeles
Luskin Conference Center
Los Angeles, CA

Program Organizing Committee:
Marina Sharifi, MD, PhD, Committee Chair (University of Wisconsin, Madison)
Lisa Chesner, PhD (University of California, San Francisco)
Asmaa El-Kenawi, PhD (Indiana University School of Medicine)
Roni Haas, PhD (University of California, Los Angeles)
Laura Sena, MD, PhD (Johns Hopkins University)
Alok Tewari, MD, PhD (Dana Farber Cancer Institute)

Andrea Miyahira, PhD (Prostate Cancer Foundation)
Kenneth Pienta, MD (Johns Hopkins University)
Howard Soule, PhD (Prostate Cancer Foundation)
THURSDAY, JUNE 20, 2024

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  Centennial A&B

Introduction
7:30 PM – 7:40 PM  Welcome and Opening Remarks  Centennial A&B

Session I: Distinguished Lecture
7:40 PM – 8:40 PM  Keynote  
Owen Witte, MD  
University of California, Los Angeles
8:40 PM – 9:00 PM  Discussion  
First Question: Alexandra Sokolova, MD

FRIDAY, JUNE 21, 2024

6:30 AM  Registration  Centennial Foyer
7:00 AM – 7:45 AM  Breakfast  Plateia A
7:45 AM – 8:00 AM  Move to Session  Centennial A&B

Session II: The Big Questions
8:00 AM – 8:30 AM  The Big Questions  
Kenneth Pienta, MD  
Johns Hopkins University
**Session III: Of Mice, Men and Systems Biology: Models of the Future**

**Session Chair:** Asmaa El-Kenawi, PhD  
Indiana University School of Medicine

**8:30 AM – 8:40 AM**  
**Employing Immune-Humanized Mouse Models of Metastatic Castration Resistant Prostate Cancer**  
Steven Kregel, PhD  
Loyola University

**8:40 AM – 9:00 AM**  
Discussion  
First Question: Franklin Huang, MD, PhD

**9:00 AM – 9:10 AM**  
**From PDX Models to Personalized Medicine: Challenges and Our Path Forward**  
Eva Corey, PhD  
University of Washington

**9:10 AM – 9:30 AM**  
Discussion  
First Question: Ana Aparicio, MD

**9:30 AM – 9:40 AM**  
**Utilizing PDXs to Aid in Drug Discovery: Targeting Lineage Plasticity via LSD1 Inhibition**  
Nathaniel Brennen, PhD  
John Hopkins University

**9:40 AM – 10:00 AM**  
Discussion  
First Question: Robert Patton, PhD

**10:00 AM – 10:10 AM**  
**Fully Humanized Metastases-on-a-Chip: Cellular Interactions and Therapy Resistance**  
Joshua Lang, MD, MS  
University of Wisconsin, Madison

**10:10 AM – 10:30 AM**  
Discussion  
First Question: Laura Sena, MD, PhD

**10:30 AM – 10:40 AM**  
**Break**

**10:40 AM – 10:50 AM**  
**Modeling the Tumor Microenvironment**  
Ashley Laughney, PhD  
Weill Cornell Medicine

**10:50 AM – 11:10 AM**  
Discussion  
First Question: Amy Taylor, MD
Friday, June 21, 2024

11:10 AM – 11:20 AM  Systems Approach to Identify Rational Treatment Strategies for Improved Outcomes in Cancer  
Laura Heiser, PhD  
Oregon Health & Science University

11:20 AM – 11:40 AM  Discussion  
First Question: David Yang, MD

11:40 AM – 12:40 PM  Lunch  
Plateia A

12:40 PM – 12:55 PM  Move to Session IV  
Centennial A&B

**Session IV: Harnessing Immune Cell Engagers for Precision Treatment**

**Session Chair:**  Lisa Chesner, PhD  
University of California, San Francisco

12:55 PM – 1:05 PM  Leveraging the Complexities of Tumor Associated Macrophages for Effective Anti-Cancer Therapy  
Jennifer Guerriero, PhD  
Harvard University

1:05 PM – 1:25 PM  Discussion  
First Question: Tyler Seibert, MD, PhD

1:25 PM – 1:35 PM  Effective Immunotherapy Responses of NK Cells Against Solid Tumors in Preclinical Models  
David Raulet, PhD  
University of California, Berkeley

1:35 PM – 1:55 PM  Discussion  
First Question: Roni Haas, PhD

1:55 PM – 2:05 PM  Redirecting Natural Killer Cells to Target Prostate Cancer Using Trispecific Killer Engagers  
Nick Zorko, MD, PhD  
University of Minnesota

2:05 PM – 2:25 PM  Discussion  
First Question: Christopher Logothetis, MD
Friday, June 21, 2024

2:25 PM – 2:35 PM  
**PSCA Targeted CAR T cell Therapy: Lessons Learned from Every Patient**  
Tanya Dorff, MD  
City of Hope  

2:35 PM – 2:55 PM  
Discussion  
First Question: Galina Semanova, MD, PhD

2:55 PM – 3:05 PM  
**Break**

3:05 PM – 3:15 PM  
**Armoring Adoptive T-cells to Enhance their Efficacy Against Solid Tumors**  
Rosa Nguyen, MD, PhD  
National Institute of Health

3:15 PM – 3:35 PM  
Discussion  
First Question: David Quigley, PhD

3:35 PM – 3:45 PM  
**Developing Novel Engineered Cell Therapies for Metastatic Castration-Resistant Prostate Cancer**  
Vivek Narayan, MD  
University of Pennsylvania

3:45 PM – 4:05 PM  
Discussion  
First Question: Weiping Li, PhD

Session V: Tackling Treatment Resistance from Bench to Bedside  
Session Chair: Alok Tewari, MD, PhD  
Dana Farber Cancer Institute

4:05 PM – 4:15 PM  
**cPRC1 as a Mechanism of Resistance to AR Pathway Inhibition**  
Noah Younger, MD, PhD  
University of California, San Francisco

4:15 PM – 4:35 PM  
Discussion  
First Question: Ruth Etzioni, PhD

4:35 PM – 4:45 PM  
**Epigenetic Mechanisms to Neuroendocrine Transformation of Prostate Cancer**  
Jindan Yu, MD, PhD  
Emory University

4:45 PM – 5:05 PM  
Discussion  
First Question: Lisa Chesner, PhD
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>5:05 PM – 5:15 PM</td>
<td>The Shape-Shifting Adversary: Prostate Cancer’s Evasion Tactics in Identity, Genome and Microenvironment</td>
<td>Ping Mu, PhD</td>
<td>UT Southwestern</td>
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<td>5:15 PM – 5:35 PM</td>
<td>Discussion</td>
<td>First Question: Howard Scher, MD</td>
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<td>5:35 PM – 6:35 PM</td>
<td>Dinner</td>
<td>Centennial C&amp;D</td>
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<td>6:35 PM – 6:50 PM</td>
<td>Move to Session V</td>
<td>Centennial A&amp;B</td>
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<td>6:50 PM – 7:00 PM</td>
<td>Oncogene Amplification and Cellular Senescence as Mechanisms of Resistance to KRAS G12C Inhibition in Colorectal Cancer</td>
<td>Sandra Misale, PhD</td>
<td>Johns Hopkins University</td>
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<td>7:00 PM – 7:20 PM</td>
<td>Discussion</td>
<td>First Question: Sheng-Yu Ku, PhD</td>
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<td>7:20 PM – 7:30 PM</td>
<td>Multimodal Assessment of Cancer Therapeutic Resistance</td>
<td>Eliezer Van Allen, MD</td>
<td>Dana Farber Cancer Institute</td>
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<td>7:30 PM – 7:50 PM</td>
<td>Discussion</td>
<td>First Question: Samuel Denmeade, MD</td>
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<td>7:50 PM – 8:00 PM</td>
<td>The Role of the AR in Dendritic Cell Function</td>
<td>Megan Ruhland, PhD</td>
<td>Oregon Health &amp; Science University</td>
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<td>8:00 PM – 8:20 PM</td>
<td>Discussion</td>
<td>First Question: Sarki Abdulkadir, MD, PhD</td>
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<td>7:30 AM – 8:00 AM</td>
<td>Breakfast</td>
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<td>8:00 AM – 8:15 AM</td>
<td>Move to Session VII</td>
<td>Centennial A&amp;B</td>
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<td><strong>Session VII: Food Pharmacy - Targeting Metabolism as Prostate Cancer Therapy</strong></td>
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<td><strong>Session Chair:</strong></td>
<td>Laura Sena, MD, PhD</td>
<td>Johns Hopkins University</td>
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<td>8:15 AM – 8:25 AM</td>
<td>Antimetabolites and Prostate Cancer: Been There, Done That?</td>
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<td>Daniel Schmidt, MD, PhD</td>
<td>Massachusetts Institute of Technology</td>
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<td>8:25 AM – 8:45 AM</td>
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<td>First question: Jelani Zarif, PhD</td>
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<td>8:45 AM – 8:55 AM</td>
<td>Androgen Receptor Regulates Metabolism</td>
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<td>Andrew Goldstein, PhD</td>
<td>University of California, Los Angeles</td>
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<td>8:55 AM – 9:15 AM</td>
<td>Discussion</td>
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<td>First question: Alok Tewari, MD, PhD</td>
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<td>9:15 AM – 9:25 AM</td>
<td>Metabolic Response to a Whole Food Plant Based Diet in Obese Men with Prostate Cancer on ADT</td>
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<td>David Nanus, MD</td>
<td>Weill Cornell Medicine</td>
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<td>9:25 AM – 9:45 AM</td>
<td>Discussion</td>
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<td>First question: Isla Garraway, MD, PhD</td>
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<td>9:45 AM – 9:55 AM</td>
<td>Dietary Target Therapy of Prostate Cancer</td>
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<td>Lloyd Trotman, PhD</td>
<td>Cold Spring Harbor Laboratory</td>
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<td>9:55 AM – 10:15 AM</td>
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<td>First Question: Sumit Subudhi, MD, PhD</td>
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<td>10:15 AM – 10:25 AM</td>
<td>Break</td>
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Saturday, June 22, 2024

10:25 AM – 10:35 AM Metabolomic Features of Prostate Cancer Across its Natural History
Rebecca Graff, ScD
University of California, San Francisco

10:35 AM – 10:55 AM Discussion
First Question: Rose Li, MD, PhD

10:55 AM – 11:05 AM Leveraging Prostate Cancer's Unique Lipid Metabolism for Therapy
Daniel Frigo, PhD
MD Anderson Cancer Center

11:05 AM – 11:25 AM Discussion
First Question: Tanya Stoyanova, PhD

Section IX: The Evolving Prostate Cancer Epigenome in Disease Progression and Treatment Resistance
Session Chair: Marina Sharifi, MD, PhD
University of Wisconsin, Madison

11:25 AM – 11:35 AM Non-Neuroendocrine Lineage Plasticity in Prostate Cancer
Ekta Khurana, PhD
Weill Cornell Medicine

11:35 AM – 11:55 AM Discussion
First Question: Haolong Li, PhD

11:55 AM – 12:05 PM ASCL1, a Bridge Between Neuronal Differentiation and Chromatin Reorganization in Prostate Cancer
Shaghayegh Nouruzi, PhD
Vancouver Prostate Centre

12:05 PM – 12:25 PM Discussion
First Question: Asmaa El-Kenawi, PhD

12:25 PM – 12:40 PM Group Pictures

12:40 PM – 1:40 PM Lunch Plateia A

Free Afternoon
Saturday, June 22, 2024

1:30 PM – 2:30 PM  **Personal Training Session** *(RSVP required, limited availability)*
*Lunch will be available immediately following the training session.*

5:00 PM – 5:45 PM  **Dinner**  
Centennial C&D

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

**Section IX: The Evolving Prostate Cancer Epigenome in Disease Progression and Treatment Resistance**

**Session Chair:**  
Marina Sharifi, MD, PhD  
University of Wisconsin, Madison

6:00 PM – 6:10 PM  **NSD2 is a Requisite and Druggable Subunit of the AR/FOXA1 Neo-Enhanceosome**  
Abhijit Parolia, PhD  
University of Michigan

6:10 PM – 6:30 PM  **Discussion**  
First Question: Matthew Rettig, MD

6:30 PM – 6:40 PM  **Epigenomic Liquid Biopsy to Guide Treatment of Prostate Cancer**  
Sylvan Baca, MD, PhD  
Dana Farber Cancer Institute

6:40 PM – 7:00 PM  **Discussion**  
First Question: Di Zhao, PhD

7:00 PM – 7:10 PM  **Determining the Role of Cellular Senescence in Prostate Cancer Development and Immune Suppression**  
Marcus Ruscetti, PhD  
University of Massachusetts

7:10 PM – 7:30 PM  **Discussion**  
First Question: George Butler, PhD
Saturday, June 22, 2024

7:30 PM – 7:40 PM  Targeting Cancer Epigenetic Vulnerabilities  
Vasan Yegnasubramanian, MD, PhD  
Johns Hopkins University

7:40 PM – 8:00 PM  Discussion  
First Question: John Lee, PhD

SUNDAY, JUNE 23, 2024

7:00 AM – 7:45 AM  Breakfast  
Centennial CD

7:45 AM – 8:00 AM  Move to Session X  
Centennial A&B

Session X: Machine Learning and Advanced Computational Approaches for Precision Oncology  
Session Chair:  Roni Haas, PhD  
University of California, Los Angeles

8:00 AM – 8:10 AM  Computational Methods for Tumor Phenotype Classification from Circulating Tumor DNA  
Gavin Ha, PhD  
Fred Hutchinson Cancer Center

8:10 AM – 8:30 AM  Discussion  
First Question: Shaghayegh Nouruzi, PhD

8:30 AM – 8:40 AM  Network-Based Mechanism-Centric Approaches for Prostate Cancer  
Antonina Mitrofanova, PhD  
Rutgers University

8:40 AM – 9:00 AM  Discussion  
First Question: Nicolas Nickols, MD, PhD

9:00 AM – 9:10 AM  Reconstruction of Tumor Evolution from Single Timepoint Bulk Samples  
Paul Spellman, PhD  
University of California Los Angeles

9:10 AM – 9:30 AM  Discussion  
First Question: Marina Sharifi, MD, PhD
Sunday, June 23, 2024

9:30 AM – 9:40 AM  Utilizing a Pan-African Ancestry Approach to Reduce Prostate Cancer Disparities
Clayton Yates, PhD, MS
Johns Hopkins University

9:40 AM – 10:00 AM  Discussion
First Question: Noah Younger, MD, PhD

10:00 AM – 10:10 AM  Break

10:10 AM – 10:20 AM  Punctuational Evolution is Pervasive in Metastatic Dissemination
George Butler, PhD
Johns Hopkins University

10:20 AM – 10:40 AM  Discussion
First Question: Rebecca Graff, ScD

10:40 AM – 10:50 AM  Substantially Accelerated Analysis of DNA Sequencing Data from Heterogeneous Tumor Samples through Statistical Modeling
Wenyi Wang, PhD
MD Anderson Cancer Center

10:50 AM – 11:10 AM  Discussion
First Question: Saul Priceman, PhD

Session XI: Closing Remarks
11:10 AM – 11:15 AM  Meeting Debrief
Kenneth Pienta, MD
Johns Hopkins University
Howard Soule, PhD
Prostate Cancer Foundation

11:15 AM  Departures

We deeply thank our 2024 Coffey-Holden meeting supporter, Larry Ruvo for provide funding for this educational initiative.