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

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<tr>
<th>Time</th>
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<tr>
<td>3:00 PM – 5:00 PM</td>
<td>Registration</td>
<td>Centennial Foyer</td>
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<tr>
<td>5:00 PM – 6:00 PM</td>
<td>Welcome Reception</td>
<td>Centennial Terrace</td>
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<tr>
<td>6:00 PM – 7:15 PM</td>
<td>Welcome Dinner</td>
<td>Centennial Terrace</td>
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<td>7:15 PM – 7:30 PM</td>
<td>Move to Session</td>
<td>Centennial A&amp;B</td>
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**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

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tr>
<td>6:30 AM</td>
<td>Registration</td>
<td>Centennial Foyer</td>
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<tr>
<td>7:00 AM – 7:45 AM</td>
<td>Breakfast</td>
<td>Plateia A</td>
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<td>7:45 AM – 8:00 AM</td>
<td>Move to Session II</td>
<td>Centennial A&amp;B</td>
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### 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: Nicholas Zorko, MD, 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
Friday, June 21, 2024

5:05 PM – 5:15 PM  The Shape-Shift ing Adversary: Prostate Cancer’s Evasion Tactics in Identity, Genome and Microenvironment  
Ping Mu, PhD  
UT Southwestern

5:15 PM – 5:35 PM  Discussion  
First Question: Howard Scher, MD

5:35 PM – 6:35 PM  Dinner  
Centennial C&D

6:35 PM – 6:50 PM  Move to Session V  
Centennial A&B

6:50 PM – 7:00 PM  Oncogene Amplification and Cellular Senescence as Mechanisms of Resistance to KRAS G12C Inhibition in Colorectal Cancer  
Sandra Misale, PhD  
Johns Hopkins University

7:00 PM – 7:20 PM  Discussion  
First Question: Sheng-Yu Ku, PhD

7:20 PM – 7:30 PM  Multimodal Assessment of Cancer Therapeutic Resistance  
Eliezer Van Allen, MD  
Dana Farber Cancer Institute

7:30 PM – 7:50 PM  Discussion  
First Question: Samuel Denmeade, MD

7:50 PM – 8:00 PM  The Role of AR in Dendritic Cell Function  
Megan Ruhland, PhD  
Oregon Health & Science University

8:00 PM – 8:20 PM  Discussion  
First Question: Sarki Abdulkadir, MD, PhD
Saturday, June 22, 2024

SATURDAY, JUNE 22, 2024

7:30 AM – 8:00 AM  Breakfast  Plateia A
8:00 AM – 8:15 AM  Move to Session VI  Centennial A&B

Session VI: Food Pharmacy - Targeting Metabolism as Prostate Cancer Therapy
Session Chair:  Laura Sena, MD, PhD
Johns Hopkins University

8:15 AM – 8:25 AM  Antimetabolites and Prostate Cancer: Been There, Done That?
Daniel Schmidt, MD, PhD
Massachusetts Institute of Technology
8:25 AM – 8:45 AM  Discussion
First question: Jelani Zarif, PhD

8:45 AM – 8:55 AM  Androgen Receptor Regulates Metabolism
Andrew Goldstein, PhD
University of California, Los Angeles
8:55 AM – 9:15 AM  Discussion
First question: Alok Tewari, MD, PhD

9:15 AM – 9:25 AM  Metabolic Response to a Whole Food Plant Based Diet in Obese Men with Prostate Cancer on ADT
David Nanus, MD
Weill Cornell Medicine
9:25 AM – 9:45 AM  Discussion
First question: Abhijit Parolia, PhD

9:45 AM – 9:55 AM  Dietary Target Therapy of Prostate Cancer
Lloyd Trotman, PhD
Cold Spring Harbor Laboratory
9:55 AM – 10:15 AM  Discussion
First Question: Sumit Subudhi, MD, PhD

10:15 AM – 10:25 AM  Break
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<th>Time</th>
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<tr>
<td>10:25 AM – 10:35 AM</td>
<td><strong>Metabolomic Features of Prostate Cancer Across its Natural History</strong></td>
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<td>Rebecca Graff, ScD</td>
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<td>University of California, San Francisco</td>
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<td>10:35 AM – 10:55 AM</td>
<td>Discussion</td>
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<td>First Question: Rose Li, MD, PhD</td>
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<td>10:55 AM – 11:05 AM</td>
<td><strong>Leveraging Prostate Cancer's Unique Lipid Metabolism for Therapy</strong></td>
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<td>Daniel Frigo, PhD</td>
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<td>MD Anderson Cancer Center</td>
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<td>11:05 AM – 11:25 AM</td>
<td>Discussion</td>
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<td>First Question: Tanya Stoyanova, PhD</td>
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**Session VII: The Evolving Prostate Cancer Epigenome in Disease Progression and Treatment Resistance**

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

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<tr>
<td>11:25 AM – 11:35 AM</td>
<td><strong>Non-Neuroendocrine Lineage Plasticity in Prostate Cancer</strong></td>
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<td>Ekta Khurana, PhD</td>
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<td>Weill Cornell Medicine</td>
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<td>11:35 AM – 11:55 AM</td>
<td>Discussion</td>
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<td>First Question: Haolong Li, PhD</td>
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<td>11:55 AM – 12:05 PM</td>
<td><strong>ASCL1, a Bridge Between Neuronal Differentiation and Chromatin</strong></td>
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<td><strong>Reorganization in Prostate Cancer</strong></td>
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<td>Shaghayegh Nouruzi, PhD</td>
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<td>Vancouver Prostate Centre</td>
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<td>12:05 PM – 12:25 PM</td>
<td>Discussion</td>
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<td>First Question: Asmaa El-Kenawi, PhD</td>
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<td>12:25 PM – 12:40 PM</td>
<td><strong>Group Pictures</strong></td>
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<td>12:40 PM – 1:40 PM</td>
<td><strong>Lunch</strong></td>
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<td><strong>Plateia A</strong></td>
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**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 VIII  Centennial A&B

**Session VII: Keynote Address**
6:00 PM – 6:30 PM  Keynote  
Michael Milken  
Founder and Chairman  
Prostate Cancer Foundation

**Session VII (Continued): The Evolving Prostate Cancer Epigenome in Disease Progression and Treatment Resistance**
**Session Chair:**  Marina Sharifi, MD, PhD  
University of Wisconsin, Madison

6:30 PM – 6:40 PM  NSD2 is a Requisite and Druggable Subunit of the AR/FOXA1 Neo-Enhanceosome  
Abhijit Parolia, PhD  
University of Michigan

6:40 PM – 7:00 PM  Discussion  
First Question: Matthew Rettig, MD

7:00 PM – 7:10 PM  Epigenomic Liquid Biopsy to Guide Treatment of Prostate Cancer  
Sylvan Baca, MD, PhD  
Dana Farber Cancer Institute

7:10 PM – 7:30 PM  Discussion  
First Question: Di Zhao, PhD
Saturday, June 22, 2024

7:30 PM – 7:40 PM  Determining the Role of Cellular Senescence in Prostate Cancer Development and Immune Suppression
Marcus Ruscetti, PhD
University of Massachusetts
7:40 PM – 8:00 PM  Discussion
First Question: George Butler, PhD

8:00 PM – 8:10 PM  Targeting Cancer Epigenetic Vulnerabilities
Vasan Yegnasubramanian, MD, PhD
Johns Hopkins University
8:10 PM – 8:30 PM  Discussion
First Question: John Lee, PhD

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SUNDAY, JUNE 23, 2024

7:00 AM – 7:45 AM  Breakfast  Centennial CD
7:45 AM – 8:00 AM  Move to Session IX  Centennial A&B

Session IX: 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
Sunday, June 23, 2024

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

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  Deciphering Cancer Cell Evolution and Ecology and their Association with Cancer Prognosis
Wenyi Wang, PhD
MD Anderson Cancer Center

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

Session X: 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 (Please note – boxed lunches will not be served)

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