

Big Data and Precision Medicine

- 8:00 - 8:05 a.m. Welcome & Introduction
- 8:05 - 9:20 a.m. **Big Data in Prostate Cancer**
Moderators:
Ganesh V. Raj, MD, PhD - UT Southwestern Medical Center
Christopher P. Evans, MD, FACS - UC Davis, School of Medicine
- 8:05 - 8:25 a.m. **Identifying Cancer Vulnerabilities through Personalized Network Identification**
Joshua Stuart, PhD, Professor, *University of California Santa Cruz, Biomolecular Engineering, Associate Director of CBSE for Cancer and Stem Cell Genomics, the Baskin Endowed Chair in the Center for Biomolecular Science & Engineering and Department of Biomolecular Engineering - West Coast Dream Team*
- 8:25 - 8:45 a.m. **DNA Repair Pathways in Metastatic Therapy Resistant Cancer**
Peter Nelson, MD, *Co-Head, Fred Hutchinson and University of Washington Cancer Consortium Program in Prostate Cancer; Member, Fred Hutchinson Cancer Research Center; UW Medicine Professor of Medicine, University of Washington - International Dream Team*
- 8:45 - 9:05 a.m. **Translating Big Data in Prostate Cancer to the Clinic**
Scott Tomlins, MD, PhD, University of Michigan
- 9:05 - 9:20 a.m. Panel discussion and Questions
- 9:20 - 9:25 a.m. **Introduction: Opportunities and Challenges Associated with Big Data**
Moderators:
Christopher E. Barbieri, MD, PhD, Weill Cornell Medical College
Hannelore V. Heemers, PhD, Cleveland Clinic
- 9:25 - 9:45 a.m. **Leveraging the Power of Ultra-Deep Sequencing**
Colin Collins II, PhD, Vancouver Prostate Institute
- 9:45 - 10:05 a.m. **Studying Niche Populations: Neuroendocrine Prostate Cancers**
Himisha Beltran, MD, Weill Cornell Medicine
- 10:05 - 10:25 a.m. **Creating an Institution-Wide Systems Biology Initiative**
David B. Solit, MD, Director, *Marie-Josée & Henry R. Kravis Center for Molecular Oncology, Memorial Sloan-Kettering Cancer Center*
- 10:25 - 10:45 a.m. **Genome Drivers of Response to Existing and Emerging Therapies in Bladder Cancer**
Eliezer Van Allen, MD, Dana-Farber Cancer Institute

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| 10:45 - 11:00 a.m. | Panel Discussion and Questions |
| 11:00 - 11:05 a.m. | <u>Donald S. Coffey Lecture Introduction</u> Ganesh V. Raj, MD, PhD - UT Southwestern Medical Center |
| 11:05 - 11:45 a.m. | Donald S. Coffey Lecture: Broad Big Data and Beyond Levi Garraway, MD, PhD, Dana-Farber Cancer Institute |
| 11:45 - 11:55 a.m. | Questions |
| 11:55 a.m. | Adjourn |
| 12:00 – 1:00 p.m. | SBUR Members Only Luncheon & Awards Alcott Room |

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