JULY 12-14, 2016 • WASHINGTON, D.C.



Frontiers of Predictive Oncology and Computing Biological Applications of Advanced Strategic Computing (BAASiC) Meeting

July 12-14, 2016

Crowell & Moring LLP
1001 Pennsylvania Avenue, NW, Washington, DC 20004
www.crowell.com

Day One – Tuesday, July 12, 2016

8:00 AM Arrival and check-in at the Lobby Security Desk to receive Crowell Badge

Registration & receipt of meeting badge; continental breakfast Floor 10

9:15 AM Welcome & Introductory Remarks

Floor 10

James Brinker

Director, Extreme Scale Computing, Intel Corporation

Jodi Daniel, J.D., M.P.H

Partner (Digital Health/Health IT) at Crowell & Moring

Warren Kibbe, PhD

Acting Deputy Director, National Cancer Institute, Director, Center for Biomedical Informatics and Information Technology (CBIIT), National Cancer Institute (NCI)

Dimitri Kusnezov, PhD

Chief Scientist & Senior Advisor to the Secretary, National Nuclear Security Administration, Department of Energy (DOE)

9:30 AM Keynote – NCI's Patient-Derived Model Repository: A Vehicle for Drug Discovery

Dr. James Doroshow

Director, Division of Cancer Treatment and Diagnosis (DCTD), National Cancer Institute (NCI), National Institutes of Health (NIH)

10:30 AM **Break – networking**

11:00 AM Panel Session: Convergence of Computing, Precision Medicine, and Predictive

Oncology

Moderator: Walt Gall, PhD

Head of Healthcare & Life Sciences, Saffron Technology, Intel New Devices Group

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Darrell R. Abernethy, MD, PhD, FACP

Associate Director for Drug Safety, Office of Clinical Pharmacology, Food and Drug Administration

Manny Aparicio, PhD

Chief Scientist, Saffron Technology Group, Intel Corporation

Anastasia Christianson, PhD

Senior Vice President, Leidos Biomedical Research Directorate Head, Data Science and Information Technology, Frederick National Lab for Cancer Research

Michael W. Kattan, PhD

Chair, Department of Quantitative Health Science, Lerner Research Institute, Cleveland Clinic

Howard L. McLeod, PharmD

Chief Scientific Advisor and Director, Gentris, LLC, Medical Director of the DeBartolo Family Personalized Medicine Institute at the Moffitt Cancer Center

12:15 PM Lunch Floor 10

1:30 PM Plenary Session: Research Priorities in Predictive Oncology

Moderator: Jessica Boten, MPH

Scientific Program Analyst, National Cancer Institute, Surveillance Research Program

Leveraging tumor-specific regulatory models to elucidate and target key tumor dependencies on an individual patient basis

Andrea Califano, PhD

Professor of Chemical Biology and Systems Biology, Biomedical Informatics and the Institute for Cancer Genetics, Chair of Systems Biology, Columbia University

Predictive oncology and oncogenic signaling

Frank McCormick, PhD, FRS

RAS National Initiative, Scientific Advisor, Frederick National Lab for Cancer Research (FNLCR), Leidos Biomedical Research, Inc.

Challenges to delivering on the promise of personalized medicine Gordon B. Mills, MD, PhD

Department Chair, Department of Systems Biology, Division of Basic Science Research, The University of Texas MD Anderson Cancer Center, Houston, TX

3:00 PM **Break – networking**

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3:30 PM Panel Session: Challenges and Opportunities for Multi-Stakeholder Engagement in Predictive Oncology

Moderator: Jason Paragas, PhD

Director, Innovation, Lawrence Livermore National Laboratory

Jerry S.H. Lee, PhD

Deputy Director, Center for Strategic Scientific Initiatives, National Cancer Institute (NCI) Deputy Director for Cancer Research and Technology, Cancer Moonshot Task Force

David Heimbrook, PhD

Laboratory Director, Frederick National Laboratory Cancer Research (FNLCR) President, Leidos Biomedical Research, Inc.

Joel Saltz, MD, PhD

Cherith Professor and Founding Chair, Department of Biomedical Informatics, Vice President for Clinical Informatics, Stony Brook Medicine, Associate Director, Stony Brook University Cancer Center

Craig D. Shriver, MD, FACS, COL

Colonel, Medical Corps, United States Army, Director, John P. Murtha Cancer Center, Walter Reed NMMC, Professor of Surgery, Uniformed Services University of Health Sciences (USUHS)

Frederick Streitz, PhD

Chief Computational Scientist, Physical and Life Sciences Directorate, Director, High Performance Computing Innovation Center (HPCIC), Lawrence Livermore National Laboratory

4:30 PM Plenary Session: Computing Advances Enabling Predictive Oncology

Moderator: Amy Gryshuk, PhD

Biosciences Program Development Liaison, Lawrence Livermore National Laboratory

Next-Generation Computing for Predictive Oncology

Jim Brase

Deputy Associate Director, Computation, Lawrence Livermore National Laboratory

All in One Day Precision Medicine by 2020

Ketan Paranjape, MBA

General Manager Life Sciences, Intel Corporation

5:30 PM Closing

James Brinker

Director, Extreme Scale Computing, Intel Corporation

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Warren Kibbe, PhD

Acting Deputy Director, National Cancer Institute, Director, Center for Biomedical Informatics and Information Technology (CBIIT), National Cancer Institute (NCI)

Dimitri Kusnezov, PhD

Chief Scientist & Senior Advisor to the Secretary, National Nuclear Security Administration, Department of Energy (DOE)

5:45 PM Adjourn

Evening on own – dinner on own

Day Two - Wednesday, July 13, 2016

8:00 AM Arrival and check-in at the Lobby Security Desk to receive Crowell Badge

Registration & receipt of meeting badge; continental breakfast Floor 9

9:15 AM Welcome & Recap

Floor 9

James Brinker

Director, Extreme Scale Computing, Intel Corporation

Jason Paragas, PhD

Director, Innovation, Lawrence Livermore National Laboratory

9:30 AM Keynote – HPC Technology Drivers to Address Future Oncology Needs

Mark Seager, PhD

Intel Fellow, Chief Technology Officer for the High Performance Computing (HPC) Ecosystem, Intel Corporation

10:30 AM **Break – networking**

11:00 AM Panel Session: DOE-NCI Pilots – Extreme Computing at Scale

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Moderators:

Amy Gryshuk, PhD

Biosciences Program Development Liaison, Lawrence Livermore National Laboratory

Eric Stahlberg, PhD

Director, High Performance Computing (HPC) Strategic Initiative, Frederick National Laboratory for Cancer Research (FNLCR), Leidos Biomedical Research Inc.

Pilot 1

Francis J. Alexander, PhD

Division Leader (Acting)
Computer, Computational, and
Statistical Sciences Division
Los Alamos National Laboratory

Pilot 2

Frederick Streitz, PhD

Chief Computational Scientist, Physical and Life Sciences Directorate, Director, High Performance Computing Innovation Center (HPCIC), Lawrence Livermore National Laboratory

Pilot 3

Georgia Tourassi, PhD

1:30 PM

pilot, etc.)

Director, Health Data Sciences Institute Oak Ridge National Laboratory

Breakout Sessions – Open Discussions

Yvonne Evrard, PhD

Operations Manager, NCI Patient-Derived Models Repository Frederick National Laboratory for Cancer Research Leidos Biomedical Research, Inc.

Dwight Nissley, PhD

Director, Cancer Research Technology Program Frederick National Lab for Cancer Research / Leidos Biomedical Research, Inc.

Lynne Penberthy, MD, MPH

Associate Director, Surveillance Research Program, Division of Cancer Control and Population Sciences, National Cancer Institute

12:15 PM Pick up lunches and walk to breakout locations (Use the first hour for networking and lunch)

Session Computing for basic biological predictive I oncology research – Left side of large conference room Modeling of complex systems (ex. RAS computed to the conference room conference roo

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Session II	Computing for pre-clinical predictive oncology – <i>Artificial Intelligence and Machine Learning</i> (ex. PDX pilot, etc.)	Floor 9 – Separate room	Francis Alexander Yvonne Evrard Sean Hanlon Susan Holbeck
Session III	Bringing frontiers of computing to clinical oncology – <i>Imaging, observation, surveillance, population health</i> , etc.; (ex. SEER pilot, etc.)	Floor 9 – Right side of large conference room	Paul Fearn Lynne Penberthy George Redmond Georgia Tourassi
4:00 PM	Reconvene in main conference room – networking		Floor 9
4:30 PM	Closing James Brinker Director, Extreme Scale Computing, Intel Corporation Amy Gryshuk, PhD Biosciences Program Development Liaison, Lawrence Livermore National Laboratory Eric Stahlberg, PhD Director, High Performance Computing (HPC) Strategic Initiative, Frederick National Laboratory for Cancer Research (FNLCR), Leidos Biomedical Research Inc.		
4:45 PM	Adjourn		

Evening on own - dinner on own

Day Three - Thursday, July 14, 2016

8:00 AM Arrival and check-in at the Lobby Security Desk to receive Crowell Badge

Registration & receipt of meeting badge; continental breakfast Floor 10

9:15 AM Welcome & Introductory Remarks

Floor 10

James Brinker

Director, Extreme Scale Computing, Intel Corporation

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Warren Kibbe, PhD

Acting Deputy Director, National Cancer Institute, Center for Biomedical Informatics and Information Technology (CBIIT), National Cancer Institute (NCI)

Dimitri Kusnezov, PhD

Chief Scientist & Senior Advisor to the Secretary, National Nuclear Security Administration, Department of Energy (DOE)

9:30 AM Facilitated Discussion on Breakouts: Predictive Oncology and New Opportunities

Moderators:

Rick Cnossen

Global Solutions Director, Intel Health & Life Science Intel Corporation

Eric Stahlberg, PhD

Director, High Performance Computing (HPC) Strategic Initiative, Frederick National Laboratory for Cancer Research (FNLCR), Leidos Biomedical Research Inc.

11:00 AM **Break – networking**

11:30 AM The Vice President's Cancer Initiative: In Brief

Dinah Singer, PhD

Acting Deputy Director, National Cancer Institute, Director, Division of Cancer Biology, National Cancer Institute (NCI)

12:15 PM Closing

James Brinker

Director, Extreme Scale Computing, Intel Corporation

Warren Kibbe, PhD

Acting Deputy Director, National Cancer Institute, Director, Center for Biomedical Informatics and Information Technology (CBIIT), National Cancer Institute (NCI)

Dimitri Kusnezov, PhD

Chief Scientist & Senior Advisor to the Secretary, National Nuclear Security Administration, Department of Energy (DOE)