

## MICCAI 2015 Workshop: Computational Precision Medicine II

<https://wiki.cancerimagingarchive.net/pages/viewpage.action?pageId=20644646>

Venue: MICCAI 2015 Satellite Event; Munich, Germany

Date: Oct 9, 2015

### Workshop Agenda\*

7:00 – 8:00 am Registration  
8:00- 8:15 K. Farahani (National Cancer Institute, USA)

### Session 1- Informatics and Clinical Decision Support in Precision Medicine

Review the feasibility of engaging stakeholders on an international scale from academia, government, and industry to develop an open source interoperable informatics research infrastructure for the evaluation of clinical support systems and the technical requirements to meet this goal.

8:15-8:30 L. Clarke/J. Freymann (National Cancer Institute, USA)  
8:30- 8:45 J. Saltz (Stony Brook University, USA)  
8:45- 9:00 A. Dekker (Maastric Clinic, Netherlands)  
9:00 – 9:15 T. Fox (Varian Inc., USA)  
9:15 – 9:30 A. Shuali (Philips Healthcare, Israel)  
9:30 – 10:00 **Panel I:**  
D. Hawkes (University College London, UK)  
A. Kamen (Siemens Corporate Research, USA)  
R. Kikinis (Harvard University, USA)

10:00 – 10:30 Coffee Break

### Session 2 - Computational Challenges and Precision Medicine

Discussion of software challenges that target brain tumor segmentation and diagnosis. This session will have an emphasis on integration of Big Data, including imaging, 'omics', and other laboratory and clinical data, cloud-based computing, open archives, open science, validation and bench marking of algorithms in support of precision medicine in the context of imaging and image-guided interventions.

10:30 – 10:45 C. Davatzikos/S. Bakas (University of Pennsylvania, USA)  
10:45 – 11:00 J. Kleesiek (University of Heidelberg, Germany)  
11:00 – 11:15 J. Kalpathy-Cramer (Harvard University, USA)  
11:15-11:30 H. Muller (Techno Pole, Switzerland)  
11:30-12:00 **Panel II:**  
T. Fuchs (Memorial Sloan Kettering Cancer Center, USA)  
B. Menze (Technical University of Munich, Germany)  
B. Wiestler (Technical University of Munich, Germany)

12:00-13:00 Lunch Break

**Session 3: Brain Tumor Challenges**

13:00-14:00 Challenge 1: Segmentation of Nuclei in Digital Pathology

14:00-15:00 Challenge 2: Combined Imaging and Digital Pathology Primary Tumor Classification

15:00-15:30 Coffee Break

15:30-16:30 Challenge 3: Guess the Primary

16:30-17:00 Group Discussion and Wrap-up

---

\*Preliminary program, subject to change.

Workshop Chairs

- Keyvan Farahani, National Cancer Institute, National Institutes of Health, USA
- Larry Clarke, National Cancer Institute, National Institutes of Health, USA
- Jayashree Kalpathy-Cramer, Massachusetts General Hospital, Harvard University, USA
- Bjoern Menze, Technical University of Munich, Germany
- Henning Muller, Techno-Pole, Switzerland