

# CENTER FOR COMPUTATIONAL BIOTECHNOLOGY AND GENOMIC MEDICINE

A NSF Industry/University Cooperative Research Center

Monday, June 8, 2015; 9:30 am – 4:00 pm

## Meeting Agenda

Drop Box CCBGM Meeting Materials: [http://go.illinois.edu/ccbgm\\_meeting](http://go.illinois.edu/ccbgm_meeting)

### 9:30-10:45 am OPENING SESSION

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Welcome, *Kevin White*

Self-Introductions, *Attendees*

Update from Center Leadership, *Liewei Wang*

- Where we are – current status of CCBGM
- Industry Memberships
- Industry Participation

Overarching Center Theme - Computational Predictive Genomics, *Ravi Iyer*

Discussion and Questions

### 10:45-11 am BREAK

### 11 am-3:45 pm THREE PANEL DISCUSSIONS ON CENTER RESEARCH, WITH INDUSTRY RESPONSE

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#### 11 am-12:15 pm Computing and Data Management – *Scale Big Data*

Moderator: *Kevin White*

Panelists: *Travis Drucker, Matt Hudson, Victor Jongeneel, Olgica Milenkovic*

- Ultra-high-resolution MR spectroscopic imaging
- Scaling the computation of epistatic interactions in GWAS data
- Information compression algorithms for genomic data storage and transfer

### 12:15 –1:15 pm LUNCH

#### 1:15-2:30 pm Actionable Intelligence – *Big Data to Knowledge*

Moderator: *Richard Weinshilbourn*

Panelists: *Liewei Wang, Bryan White, Kevin White, Derek Wildman*

- Process and integrate multi-omics data
- Merge unstructured phenotypic data, genetic/genomic data and curated data sources to improve diagnostics, prognostics, and theranostics

#### 2:30-3:45 pm Systems Innovation – *Accuracy, Speed, and Energy Efficiency*

Moderator: *Mat Wiepert*

Panelists: *Deming Chen, Andrew Chien, Eric Klee, Ravi Madduri*

- Quantifying and improving the accuracy of detecting genomic variation
- Optimize architecture to accelerate genomic workflows

3:45-4 pm

Wrap-up, *Ravi Iyer*

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