

Symposium Agenda (1 of 2)*

Day 1: Tuesday, October 2, 2012

- 08:00 09:00 Registration and Breakfast
- 09:00 09:15 Welcome & Objectives of the Symposium
Manuel C. Peitsch, VP, Biological Systems Research, PMI Research & Development

Session 1: The Need for Research Verification in Biomarker Discovery

- 09:15 10:00 Keynote Presentation: Biomarker Discovery and Qualification
Donna L. Mendrick, Director, Division of Systems Biology, NCTR/FDA
- 10:00 10:45 Keynote Presentation: Moving Beyond the Mean: The role of Variation in Determining Phenotype
John Quackenbush, Professor of Computational Biology & Bioinformatics, Dana-Farber Cancer Institute
- 10:45 11:00 Coffee Break
- 11:00 11:30 Crowdsourcing Predictive Scientific Problems to do more in less Time
Will Cukierski, Kaggle Inc.
- 11:30 12:05 IMPROVER and its Application to PMI Research & Development
Manuel C. Peitsch, VP, Biological Systems Research, PMI Research & Development
Gustavo Stolovitzky, Manager, Functional Genomics & Systems Biology, IBM Computational Biology Center
- 12:05 13:05 Lunch Break

Session 2: The Diagnostic Signature Challenge

- 13:05 13:40 Presentation on Scoring and Overall Results
Gustavo Stolovitzky, Manager, Functional Genomics & Systems Biology, IBM Computational Biology Center
- 13:40 14:00 Award Ceremony for the Best Performing Team presented by Marvin Cassman
- 14:00 14:45 Presentation by the Overall Best Performing Team
- 14:45 15:00 Coffee Break

Session 3: Diagnostic Signature Challenge: Best Performer Talks

- 15:00 15:25 Presentation by the Overall Second Best Performing Team
- 15:25 15:45 Multiple Sclerosis: Genomic Biomarker Status and Challenge Scoring
Tamir Tuller, Assistant Professor, Laboratory of Computational Systems Biology, Tel Aviv University
Erhan Bilal, IBM Computational Biology Center
- 15:45 16:05 Presentation by the Best Performing Team of Sub-challenge Multiple Sclerosis
- 16:05 16:30 Presentation by the Overall Third Best Performing Team
- 16:30 17:30 Q&A and Wrap-up
- 19:00 onwards Symposium Dinner

*Please Note: This Agenda is Subject to Changes

Symposium Agenda (2 of 2)*

Day 2: Wednesday, October 3, 2012

- 07:30 08:30 Registration and Breakfast
- 08:30 08:45 Opening Day 2: The schedule for the day
Gustavo Stolovitzky, Manager, Functional Genomics & Systems Biology, IBM Computational Biology Center

Session 3: Diagnostic Signature Challenge: Best Performer Talks (cont.)

- 08:45 09:05 Psoriasis: Genomic Biomarker Status and Challenge Scoring
Stéphanie Boué, PMI Research & Development & Raquel Norel, IBM Computational Biology Center
- 09:05 09:25 Presentation by the Best Performing Team of Sub-challenge Psoriasis
- 09:25 09:45 Chronic Obstructive Pulmonary Disease: Genomic Biomarker Status and Challenge Scoring
Julia Hoeng, PMI Research & Development & Raquel Norel, IBM Computational Biology Center
- 09:45 10:05 Presentation by the Best Performing Team of Sub-challenge Chronic Obstructive Pulmonary Disease
- 10:05 10:20 Coffee Break
- 10:20 10:40 Lung Cancer: Genomic Biomarker Status and Challenge Scoring
Stéphanie Boué, PMI Research & Development & Erhan Bilal, IBM Computational Biology Center
- 10:40 11:00 Presentation by the Best Performing Team of Sub-challenge Lung Cancer
- 11:00 11:40 Lessons Learned from the Challenge
Stéphanie Boué, PMI Research & Development
- 11:40 12:10 Roundtable: Feedback from the Diagnostics Signature Challenge
- 12:10 13:10 Lunch Break

Session 4: Beyond Diagnostic Signatures / Towards Network Based Diagnostics

- 13:10 13:55 Key Note Presentation: Measuring and Modeling Variability in responses to Therapeutic Drugs
Peter Sorger, Professor of Systems Biology, Harvard Medical School (HMS)
- 13:55 14:40 Key Note Presentation: Identification of Predictive Response Markers Based on the Understanding of the Drug Mechanism of Action
Birgit Schoeberl, Vice President of Discovery, Merrimack Pharmaceuticals
- 14:40 15:10 Case Study from the Challenge: Performance of a Mechanism-Based Method
Florian Martin & Yang Xiang, PMI Research & Development
- 15:10 15:25 Coffee Break

Session 5: Reflection, Outlook and Further Challenges

- 15:25 16:10 The Species Translational Challenge - Challenge 2
Leonidas Alexopoulos, Lecturer, Department of Mechanical Engineering & Group Leader, Systems Biology and Bioengineering Group, National Technical University of Athens
- 16:10 16:40 Future IMPROVER Challenges 2 - 4
Manuel C. Peitsch, VP, Biological Systems Research, PMI Research & Development
Julia Hoeng, Manager Computational Disease Biology, PMI Research & Development
- 16:40 17:00 Wrap-up and closing

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