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# The sbv IMPROVER Symposium 2013

Species Translation Challenge

29 – 31 October 2013

Grand Resort Lagonissi  
Athens, Greece

The sbv IMPROVER project, the website and the Symposia are part of a collaborative project designed to enable scientists to learn about and contribute to the development of a new crowd sourcing method for verification of scientific data and results.

The project team includes scientists from Philip Morris International's (PMI) Research and Development department and IBM's Thomas J. Watson Research Center. The project is funded by PMI.

# Symposium Agenda Day 1

|       |  |
|-------|--|
| 8:00  | Registration<br>(desk at conference site)  |
| 9:00  | Welcome & Introduction Day 1   |
| 9:15  | Key Note Talk<br>Dr. Adi Laurentiu Tarca   |
| 10:00 | Perennial Benchmarking   |
| 10:15 | <b>Species Translation Challenge:</b> Introduction, Data and Lessons Learned   |
| 11:15 | Coffee Break   |
| 11:30 | <b>Sub-Challenge 1:</b><br><b>Intra-Species Protein Phosphorylation Prediction</b><br>Challenge Formulation, Scoring and Best Performers Presentations |
| 13:00 | Lunch  |
| 14:15 | Key Note Talk<br>Dr. George Kollias  |
| 15:00 | <b>Sub-Challenge 2:</b><br><b>Inter-Species Protein Phosphorylation Prediction</b><br>Challenge Formulation, Scoring and Best Performers Presentations |
| 16:30 | Coffee Break   |
| 16:45 | Poster Session and Networking  |
| 17:45 | Conference Dinner<br>in Hotel Lagonissi  |
| 19:00 | all Symposium Participants<br>are invited  |
| 22:00 |  |



**Title of Keynote:**

“Machine learning and pathway analysis as basic tools in systems biology”

Dr. Adi Laurentiu Tarca

Director, Bioinformatics and Computational Biology Unit, Perinatology Research Branch (NICHD/NIH)



**Title of Keynote:**

“Mapping human disease pathogenesis via alignments with animal models”

Dr. George Kollias

Member of the Academy of Athens  
Professor of Physiology, Medical School, University of Athens  
Researcher, Biomedical Sciences Research Center ‘Alexander Fleming’

# Symposium Agenda Day 2

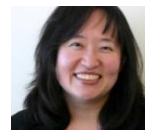
|       |  |
|-------|--|
| 9:00  | Introduction Day 2   |
| 9:15  | Key Note Talk<br>Dr. Joaquin Dopazo  |
| 10:00 | <b>Sub-Challenge 3:</b><br><b>Inter-Species Pathway Perturbation Prediction</b><br>Challenge Formulation, Scoring and<br>Best Performers Presentations |
| 11:30 | Coffee Break   |
| 11:45 | <b>STC Sub-Challenge 4:</b><br><b>Species Specific Network Inference</b><br>Challenge Formulation, Scoring and Review                                  |
| 12:30 | Lunch  |
| 12:45 |  |
| 14:00 | Key Note Talk<br>Dr. Carolyn Cho   |
| 14:45 | Conclusion Remarks   |
| 15:15 | Coffee Break   |
| 15:30 | Round Table Discussion   |
| 16:30 |  |
| 17:00 | fixed start at 17:00<br>Social Event<br><i>for invited guests only</i>   |
| 22:00 |  |



**Title of Keynote:**

“Using mechanism-based biomarkers to predict complex traits”

Dr. Joaquin Dopazo  
Head of the Computational Genomics Department,  
Principe Felipe Research Center



**Title of Keynote:**

“Translational Modeling: Impact on Critical Decision-Making in Drug Development”

Dr. Carolyn Cho  
Director, Modeling and Simulation, Global Clinical and Regulatory Development,  
Merck & Co.

# Symposium Agenda Day 3

|       | Session 1:<br>Network Verification Challenge             | Session 2:<br>Beyond Network Inference |
|-------|--|--|
| 9:00  | Introduction to the challenge objectives                 | Introduction to workshop objectives    |
| 9:15  | Introduction to the NVC platform<br>William Hayes, Ph.D. | Talk<br>Prof. Heinz Koeppel            |
| 9:45  | Tutorial video and university engagement                 | Team presentation                      |
| 10:00 | Talk<br>Dr. Alexander Klenner                            | Team presentation                      |
| 10:30 | Coffee Break   | Coffee Break                           |
| 10:45 | Talk<br>Dr. Monica Munoz-Torres                          | Team presentation                      |
| 11:15 | Talk<br>Yukiko Matsuoka, B.A.                            | Lessons learned                        |
| 11:45 | Practice the website<br>William Hayes, Ph.D.             | Round table discussion                 |
| 12:15 | Wrap-up and round-table                                  | Wrap-up and NVC outlook                |
| 12:30 | Lunch  | Lunch                                  |
| 13:30 | Talk<br>Kirill Tarasov, MS.S.                            |  |
| 14:00 |  |  |



**Title of Talk:**  
"BEL Networks Derived from Qualitative Translations of BioNLP Shared Task Annotations - BioNLP in the context of the Network Verification Challenge"

Alexander Klenner, Dr. phil. nat.  
Scientist, Fraunhofer Institute for Scientific Computing and Algorithms (SCAI)



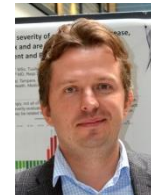
**Title of Talk:**  
"Bayesian network reconstruction from dynamic signaling data"

Prof. Heinz Koeppel  
Assistant Professor at ETH Zurich



**Title of Talk:**  
"Web Apollo- Lessons learned from community based biocuration efforts"

Monica Munoz-Torres, Ph.D.  
Bioinformatics Analyst, Genomics Division, Lawrence Berkeley National Laboratory



**Title of Talk:**  
"The need for mechanistic models for lipid metabolism – The future after Lipidmaps"

Kirill Tarasov, MS.S.  
Bioinformatics Specialist, Zora Biosciences



**Title of Talk:**  
"Weaving Knowledge into Biological Pathways in Collaboration"

Yukiko Matsuoka, B.A.  
Senior Researcher, The Systems Biology Institute