

CNB-MAC 2016

Third International Workshop on Computational Network Biology: Modeling, Analysis, and Control
Seattle, WA, October 2, 2016

The Third International Workshop on Computational Network Biology: Modeling, Analysis, and Control (CNB-MAC 2016)

will be held in Seattle, WA, October 2. The workshop will be organized in conjunction with the 7th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB 2016), the flagship conference of the ACM SIGBio. The workshop aims to provide an international scientific forum for presenting recent advances in computational network biology that involve modeling, analysis, and control of biological systems and system-oriented analysis of large-scale OMICS data.

CNB-MAC 2016 solicits original research papers that report new research findings that have not been published elsewhere, highlights that present advances in the field that have been reported in recent journal publications, and poster abstracts for rapid dissemination of the latest research results in computational network biology. The main emphasis of the workshop will be on rigorous mathematical/computational approaches for studying biological networks, systems, and pathways and the analysis of large-scale OMICS data from a systems perspective.

Topics of interest include (but are not limited to):

- Inference of biological networks
- Modeling and simulation of biological networks
- Multi-scale modeling of human-microbiome-environment interactions
- Network-based analysis of OMICS data
- Network dynamics and network control
- Detection, modeling, and analysis of regulatory modules in biological networks
- Network-based prediction of drug response and potential drug targets
- Pathways and networks in complex diseases
- Incorporation of prior knowledge in biological system and data analysis

All paper, highlight, and abstract submissions should be made through the EasyChair online submission system:

<https://www.easychair.org/conferences/?conf=cnbmac2016>

NSF-supported student travel awards will be provided to student authors of papers/abstracts of outstanding quality.

Partner journals: Full-length original research papers accepted for presentation at CNB-MAC 2016 will be published in special issues of CNB-MAC 2016 partner journals (*BMC Bioinformatics*, *BMC Genomics*, *BMC Systems Biology*).

Important dates:

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| • Paper submission deadline: | June 17, 2016 |
| • Paper acceptance notification: | July 22, 2016 |
| • Highlight submission deadline: | July 29, 2016 |
| • Poster submission deadline: | July 29, 2016 |
| • Highlight/poster notifications: | August 2, 2016 |

Organizers:

Byung-Jun Yoon
Texas A&M University
Hamad bin Khalifa University

Xiaoning Qian
Texas A&M University

Tamer Kahveci
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