



2015 International Conference On Intelligent Biology and Medicine (ICIBM)

November 13-15, 2015, Indianapolis, IN, USA
<http://watson.compbio.iupui.edu/yunliu/icibm/>

General Chairs

Zhongming Zhao, Vanderbilt University, USA
Yunlong Liu, Indiana University, USA

Keynote Speakers

Kevin P. White, the University of Chicago
Jiajie Zhang, the University of Texas Health Science Center at Houston, USA
Keith Dunker, Indiana University, USA
Chris Sander, SKI, USA
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Call for Papers

The 2015 International Conference on Intelligent Biology and Medicine (ICIBM 2015) will be held on November 13-15, 2015 in Indianapolis, IN, USA. You are invited to submit papers with unpublished original work describing recent advances on all aspects of Bioinformatics, Systems Biology and Intelligent Computing, including, but not restricted to the following topics:

Bioinformatics:

- Genomics and genetics, including integrative & functional genomics, genome evolution.
- Next generation sequencing data analysis, applications, and software and tools.
- Big data science including storage, analysis, modeling and visualization.
- Personalized medicine and translational bioinformatics.
- Drug discovery, design, and repurposing.
- Proteomics, and protein structure prediction, molecular simulation and evolution.
- Image analysis and processing.

Systems Biology:

- Modeling and simulation of biological processes, pathways, and networks.
- Mathematical and quantitative models of cellular and multi-cellular systems.
- Multi-dimensional omics data integration.
- Synthetic biological systems.
- Metalobolomics.
- Self-organization in living systems (cells, organisms, swarms, ecosystems, etc.)
- Applications of systems biology approaches to biomedical studies.

Intelligent Computing:

- Machine learning, data mining, pattern recognition, and knowledge discovery.
- Natural language processing, literature mining, semantic ontology, data privacy.
- Neural computing, kernel methods, feature selection/extraction.
- Evolutionary computing, swarm intelligence / optimization, ensemble methods.
- Manifold learning theory, artificial life and artificial immune systems.

Paper Submission and Publication: Prospective authors are invited to submit unpublished work to ICIBM 2015. All papers have to be submitted through the online submission system at: <http://watson.compbio.iupui.edu/yunliu/icibm/submission.html>. All submitted papers will be peer reviewed. The accepted papers of registered authors will be published in special issues of several journals, including BMC Genomics, BioMed Research International and International Journal of Computational Biology and Drug Design, as we did in ICIBM 2012, 2013 and 2014. Authors need to prepare manuscripts in the format of the corresponding journal that they prefer. Although we try our best to accommodate authors' preferences, competition is high. Highlight Paper and Abstract Submission: Participants who do not submit papers are encouraged to submit highlight paper (published in 2014-2015) and abstract through the website above.

Important Dates

- **Deadline for paper submission: August 15, 2015**
- Notification to authors of papers: September 15, 2015
- **Deadline for highlight paper submission: September 15, 2015**
- Notification to authors of highlight papers: October 1, 2015
- **Deadline for abstract submission: September 24, 2015**
- Notification to authors of abstracts: October 1, 2015
- Conference early registration: October 1, 2015
- Conference dates: November 13-15, 2015

