



2013 International Conference on
Intelligent Biology and Medicine (ICIBM)
August 11-13, 2013, Nashville, TN, USA
<http://bioinfo.mc.vanderbilt.edu/icibm2013>

General Chairs

Zhongming Zhao, Vanderbilt University
Yu Shyr, Vanderbilt University

Keynote Speakers

Lucila Ohno-Machado, University of California, San Diego
Dan Roden, Vanderbilt University
A Keith Dunker, Indiana University
Yixue Li, Chinese Academy of Sciences
Dana Pe'er, Columbia University (pending)

Program Committee Chairs

Bing Zhang, Vanderbilt University
Jason McDermott, Pacific Northwest National Laboratory

Publication Committee Chair

Yufei Huang, University of Texas, San Antonio
Yunlong Liu, Indiana University

Workshop Committee Chair

David Tabb, Vanderbilt University

Award Committee Chairs

Hua Xu, University of Texas, Health Science Center at Houston
Sachin Shetty, Tennessee State University

Publicity Committee Chairs

Lang Li, Indiana University
Lu Xie, Shanghai Center for Bioinformation Technology

Trainee Committee Chairs

Qingguo Wang, Vanderbilt University
Mario Flores, University of Texas, San Antonio

Local Organization Committee Chair

Rebecca Posey, Vanderbilt University

Contact:

icibm.list@gmail.com
zhongming.zhao@vanderbilt.edu

Call for Papers

The 2013 International Conference on Intelligent Biology and Medicine (ICIBM 2013) will be held on August 11-13, 2013 in Nashville, Tennessee, 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 You are invited to submit papers with unpublished original work describing recent advances on all aspects of Bioinformatics, Systems Biology and Intelligent Computing, including, but not restricted to the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 2013. All papers have to be submitted through the online submission system at: <http://bioinfo.mc.vanderbilt.edu/icibm2013/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*, *BMC Systems Biology*, and *International Journal of Computational Biology and Drug Design*, as we did in ICIBM 2012. 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.

Abstract Submission: Participants who do not submit papers are encouraged to submit abstract through the website above (see future updates online).

Travel Awards: Up to 20 travel awards are available to students/postdocs; awards will be granted through an NSF grant (pending).

Important Dates

- **Deadline for paper submission: May 10, 2013 (extended)**
- Notification to authors of papers: June 10, 2013
- Deadline for abstract submission: June 17, 2013
- Notification to authors of abstracts: June 24, 2013
- Conference early registration: July 1, 2013
- Conference dates: August 11-13, 2013



National Science Foundation
WHERE DISCOVERIES BEGIN

