



**2014 International Conference on
Intelligent Biology and Medicine (ICIBM)
December 4-6, 2014, San Antonio, TX, USA
<http://compgenomics.utsa.edu/icibm2014/>**

General Chairs

Zhongming Zhao, Vanderbilt University
Victor Jin, University of Texas Health Science Center at San Antonio (UTHSCSA)

Keynote Speakers

Tim Huang, UTHSCSA
Lynda Chin, MD Anderson Cancer Center
Xianghong Jasmine Zhou, University of Southern California
Josh Stuart, University of California Santa Cruz

Program Committee Chairs

Yidong Chen, UTHSCSA
Jeremy Edwards, University of New Mexico Health Sciences Center

Publication Committee Chairs

Jianhua Ruan, University of Texas, San Antonio (UTSA)
Lang Li, Indiana University

Workshop Committee Chairs

Babu Guda, University of Nebraska Medical Center
Yufang Jin, UTSA

Award Committee Chairs

Yufeng Wang, UTSA
Hua Xu, University of Texas Health Science Center at Houston

Publicity Committee Chairs

Dongxiao Zhu, Wayne State University
Michelle Zhang, UTSA

Trainee Committee Chairs

Mario Flores, UTSA
Qingguo Wang, Vanderbilt University

Local Organization Committee Chairs

Yufei Huang, UTSA
Tabrez Mohammad, UTHSCSA

Contact:
icibm.list@gmail.com

Call for Papers

The 2014 International Conference on Intelligent Biology and Medicine (ICIBM 2014) will be held on December 4-6, 2014 in San Antonio, Texas, 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 You are invited to submit papers with unpublished original work describing recent advances on all aspects of Bioinformatics, Systems Biology and Intelligent Computing, including, but not restricted to the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
- Metalbolomics
- 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 2014. All papers have to be submitted through the online submission system at:

<http://compgenomics.utsa.edu/icibm2014/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 and 2013. 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 2013-2014) and abstract through the website above.

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: September 1, 2014**
- Notification to authors of papers: October 1, 2014
- Deadline for highlight paper submission: October 1, 2014
- Notification to authors of highlight papers: October 15, 2014
- Deadline for abstract submission: October 8, 2014
- Notification to authors of abstracts: October 15, 2014
- Conference early registration: October 15, 2014
- Conference dates: December 4-6, 2014

