



CALL FOR PAPERS

1st International Conference on
Bioinformatics and Computational Biology
April 8-10, 2009

BICoB-2009
co-located with
CATA-2009

Holiday Inn Downtown-Superdome, New Orleans, Louisiana USA

Sponsored by the International Society for Computers and Their Applications (ISCA)

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Computational techniques have already enabled unprecedented advances in modern biology and medicine. This continues to be a vibrant research area with broadening of computational techniques and new emerging challenges. The Bioinformatics and Computational Biology (**BICoB**) conference is thus established by the ISCA to promote the advancement of computing techniques and their application to life sciences. The inaugural **BICoB** conference will feature original unpublished research in all areas of bio-informatics and computational biology, and covering the entire spectrum of underlying computational techniques/models/paradigms. The conference also includes a **BEST PAPER AWARD** given for a paper **presented** at the conference. The topics of interest include (and are not limited to):

- **Genome analysis:** Genome assembly, genome and chromosome annotation, gene finding, alternative splicing, EST analysis and comparative genomics.
- **Sequence analysis:** Multiple sequence alignment, sequence search and clustering, function prediction, motif discovery, functional site recognition in protein, RNA and DNA sequences.
- **Phylogenetics:** Phylogeny estimation, models of evolution, comparative biological methods, population genetics.
- **Structural Bioinformatics:** Structure matching, prediction, analysis and comparison; methods and tools for docking; protein design
- **Analysis of high-throughput biological data:** Microarrays (nucleic acid, protein, array CGH, genome tiling, and other arrays), EST, SAGE, MPSS, proteomics, mass spectrometry.
- **Genetics and population analysis:** Linkage analysis, association analysis, population simulation, haplotyping, marker discovery, genotype calling.
- **Systems biology:** Systems approaches to molecular biology, multiscale modeling, pathways, gene networks.

Instructions to Authors

Papers will be accepted only by electronic submission (PDF only). **Conference proceedings will be published by Springer in LNCS/LNBI, Lecture Notes in Bioinformatics.** Papers should be formatted using Springer-Verlag format templates (www.springer.com/lncs). A full paper, including title, author's name(s) and affiliation, mailing address, telephone, fax and email of the principal author, should be submitted before November 1, 2008 at the following web site:

<https://www.reg-site.com/con-reg/default.asp?ConID=85>

The submitted manuscript should closely reflect the final paper as it will appear in the Proceedings. Maximum paper length for the proceedings is 12 pages.

<http://bicob.engr.uconn.edu/bicob/>

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IMPORTANT DATES

Full paper Submission	November 14, 2008
Notification of Acceptance	December 29, 2008
Pre-registration and Camera-ready paper	January 10, 2009