

The First International Conference on Computational and Systems Biology and Microbiology BIOCOSM 2010 March 7-13, 2010 - Cancun, Mexico http://www.iaria.org/conferences2010/BIOCOSM10.html

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Important deadlines:

Submission (full paper) Notification Registration Camera ready October 17, 2009 November 20, 2009 December 5, 2009 December 10, 2009

Tracks:

Bio-ontologies and semantics

Software environments for bio-computation, bio-informatics, and biomedical applications Medical informatics Epidemic models Biological data mining Biomedical knowledge discovery Pattern classification and recognition Mathematical biology Graph theory and bio-informatics Stochastic modeling Biological databases and information retrieval Processing mutation information Archiving of mutation specific information

Biocomputing

Computational biology Bioengineering Biomedical image computing and informatics Biomedical automation and control Image-based diagnosis and therapy Modeling and simulation of systems biology Applications of large-scale bio-systems

Genetics

Gene regulation Gene expression databases Gene pattern discovery and identification Genetic network modeling and inference Gene expression analysis RNA and DNA structure and sequencing Evolution of regulatory genomic sequences Biological data mining and knowledge discovery Bio-pattern classification and recognition Bio-sequence analysis and alignment Comparative genomics Structural and functional genomics Amino acid sequencing Metagenomics and drug resistance Microbes and alternative energies

Molecular and Cellular Biology

Protein modeling Molecular interactions Metabolic modeling and pathways Evolution and phylogenetics Macromolecular structure prediction Proteomics Protein folding and fold recognition Molecular sequence and structure databases Molecular dynamics and simulation Molecular sequence classification, alignment and assembly

Microbiology

Bio-nanotechnologies Self-assembly and self-replication Global regulatory networks and mechanisms Microbial propagation and immunity Microbial therapies Microbial life under extreme energy limitation Cellular microbiology and contact systems Phylogenetics Genome dynamics Transmission dynamics and evolution of emerging diseases