Call for Papers
12th Pacific Symposium on Biocomputing

Biodiversity Informatics
Managing Knowledge Beyond Humans and Model Organisms

The Pacific Symposium on Biocomputing (PSB) is an international, multidisciplinary conference for the presentation and discussion of current research in the theory and application of computational methods in problems of biological significance. Papers and presentations are rigorously peer reviewed and are published in an archival proceedings volume.

PSB 2007 will bring together top researchers from the United States, the Asian Pacific nations, and around the world to exchange research results and address open issues in all aspects of computational biology. PSB is a forum for the presentation of work in databases, algorithms, interfaces, visualization, modeling, and other computational methods, as applied to biological problems, with emphasis on applications in data-rich areas of molecular biology.

PSB has been designed to be responsive to the need for critical mass in sub-disciplines within biocomputing. For that reason, it is the only meeting whose sessions are defined dynamically each year in response to specific proposals. PSB sessions are targeted to provide a forum for publication and discussion of research in biocomputing’s “hot topics”. In this way, PSB provides an early forum for serious examination of emerging methods and approaches in a rapidly changing field. More information on the conference can be obtained from the conference webpage: http://psb.stanford.edu/.

Manuscripts are hereby requested for topics in contemporary biodiversity informatics, including (but not limited to):

- Application of existing tools across both biomedical and biodiversity domains
- Advances in biodiversity knowledge representation and information extraction
- Comparative studies that use knowledge about both ‘model’ and ‘non-model’ organisms
- Studies that use non-molecular (e.g., morphological and geographic) along with molecular data
- Development of epidemiological models for tracking emerging diseases using biodiversity knowledge
- Methods and interfaces that harmonize biodiversity and biomedical knowledge into a single framework

Priority will be given to those manuscripts that involve the combination of existing biodiversity and biomedical techniques, along with evaluations that incorporate both biomedical and biodiversity knowledge.

Manuscript topics and questions should be addressed to the session chair:

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Manuscripts Due July 17, 2006
Decisions Announced September 6, 2006 † Camera-Ready Papers Due September 25, 2006

Manuscripts submitted should be thought of as short journal articles; The PSB Proceedings is an archival, peer-reviewed publication that is indexed in Medline.