

Third IAPR International Conference on Pattern Recognition in Bioinformatics

15 -17 October 2008, Melbourne

Special Session: SS4

Bioinformatics in Genetic Disorders and Computational Vaccinology

Experimental data output has considerably grown in size and complexity. Bioinformatics assigns functional and morphological classification and organization of biological data as per the scientist's needs by creating, maintaining, acquiring and retrieval of the genome knowledge repositories, proteome repositories, gene expression databases, gene regulation studies etc with the help of different set of Insilco tools. Mutation detection, alternatively spliced gene detection as well as SNP Analysis are also handled as per the need of different experiments. Based on the advancements in bioinformatics, we may now establish the complete research on life threatening genetic disorders like Alzheimer's, Parkinson's, Myeloma's etc by using different Insilco tools. Computational Vaccinology includes vaccine screening and vaccine designing by immunoinformatics, atomistic molecular dynamic simulations using high performance computing and epitope prediction methods based on quantitative structure-activity relationships (QSAR). Computational vaccinology has become a new alternative in vaccinology research due to its speed and accuracy in vaccine screening and designing.

We invite papers covering Insilico or bioinformatics methodology, tools, techniques, Insilco Genetic Disorder study, Immunoinformatics, Medical informatics, Biological Data analysis by SAS & Computational Vaccinology.

Topics include, but are not limited to:

Computational Vaccinology, Applied Bioinformatics, SAS proteomics/Genomics, Sequence and structure analysis, Biomedical informatics, Metabolomics, Phylogenetic Analysis, Gene expression/Microarray Analysis, Mesh associations and Molecular pathway analysis, Drug discovery, DNA Forensics and Bioinformatics, Immunoinformatics, Amino acid Pattern Recognition for Genetic Disorders and vaccine screening, Toxicity Analysis.

Important dates:

- Paper Submission: 15 April 2008
- Author Notification: 15 May 2008
- Camera-Ready Submission: 15 June 2008

Paper Submission:

Manuscript must be submitted electronically in pdf format via the "Paper Submission System" at <http://callforpapers.com.au/prib2008/SubmitPaper.php>. Instructions to authors are available at <http://www.infotech.monash.edu.au/prib08/>. This special session will be organized by the DNA Research Centre, Hyderabad (India) and BioAxis, Hyderabad (India) as a track for the Pattern Recognition in Bioinformatics 2008 (PRIB'08) conference. All the submitted papers will be peer reviewed by reviewers from PRIB Programme committee and the accepted papers will be published in the conference proceedings as an edited volume in *Lecture Notes in Bioinformatics* by Springer or supplementary proceedings by conference chairs.

Special Session Organizers:

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