Call for Papers

International Workshop on
Computational & Integrative Biology

A satellite meeting of the International Conference
of Integrative Bioinformatics

18th to 20th September 2009
Hangzhou, China
http://www.cls.zju.edu.cn/binfo/IB/2009/

Papers are invited for oral presentations. Submission must be through the workshop web site. Accepted papers will appear as conference proceedings and also in the Journal of Integrative Bioinformatics http://journal.imbio.de/

Background

Biological data are scattered across thousands of biological databases and hundreds of scientific journals. Current high throughput genomics technologies generate large quantities of high dimensional data. Microarray, NMR, mass spectrometry, protein chips, gel electrophoresis data, Yeast-Two-Hybrid, QTL mapping, gene silencing and knockout experiments are all examples of technologies that capture thousands of data points, often in single experiments. The challenge for Computational & Integrative Biology is to capture, model, integrate and analyse these data in a consistent way to provide new and deeper insights into complex biological systems.

This, International Workshop on Computational & Integrative Biology, as a satellite meeting of the International Conference of Integrative Bioinformatics, will be of interest to Bioinformaticians, Computer Scientists, Biologists and others working in, or interested in finding out more about, the developing area of integrative bioinformatics. There will be opportunities to present and discuss methods, theoretical approaches or their practical applications.

Topics of Interest

- Database integration
- Combined dry and wetlab studies
- Molecular databases / Data warehouses
- Errors and inconsistencies in biological databases
- Prediction and integration of metabolic and regulatory networks
- Genotype–phenotype linkage
- Protein–protein interactions
- Integrative microarray modeling and analyses
- Integrative approaches for drug design

- Computational infrastructure for biotechnology
- Virtual cell
- Tool integration and workflow systems
- Laboratory information management systems
- Computational systems biology
- Quality and consistency of biological ontologies
- Integrative modelling and simulation frameworks
- Integrative data and text mining approaches
- Network analysis
- Data visualisation and visual analytics

Important Dates

- 1st July 2009 — Paper submission deadline (up to 12 pages)
- 1st August 2009 — Notification of acceptance for papers
- 23th August 2009 — Camera ready paper submission deadline
- 31st August 2009 — Poster and software submission deadline
- 5th September 2009 — Notification of acceptance for poster and software demo abstracts
- 18th – 20th September 2009 — Workshop

Organising Committee

Ming Chen	Zhejiang University, China
Ralf Hofestaedt	University of Bielefeld, Germany
Matthias Lange	IPK Gatersleben, Germany
Uwe Scholz	IPK Gatersleben, Germany
Falk Schreiber	IPK Gatersleben & University of Halle, Germany
Andrew Harrison	University of Essex, UK
Paul Verrier	Rothamsted Research, UK

Joint Meeting of CCC' 2009 Summer School

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