

Report: International Symposiums hosted by CBRC

CBRC Annual Meeting 2005 was held on 27th October at the Conference Room, 11th Floor, AIST Tokyo Waterfront Bio-IT Research Building. It was an attempt to present research results of CBRC in English towards the international audience. Eight Team Leaders presented their research topics and progress, and about forty posters were exhibited there.

We plan to hold the annual meeting every year from now on.

1 Novel Approach for Genome-wide Sequence and Expressions



Osamu Gotoh (Algorithm Team)

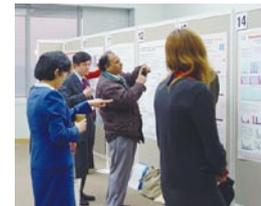
Gene Finding and Analysis of Alternative Splicing in Eukaryotic Genomes

Kiyoshi Asai (Mathematical Model Team)

However Computing $O(L^6)$ in RNA?

Paul Horton (Sequence Analysis Team)

Gene Expression and Protein Localization



2 Exploring Protein Structure and Functional Information



Makiko Suwa (Biomembrane Informatics Team)

Genome Scale Analysis of Membrane Protein Function

Tamotsu Noguchi (Protein Function Team)

Prediction of Protein Domain and Disorder

Takatsugu Hirokawa (Molecular Modeling & Design Team)

From Protein Structure Prediction to Molecular Design

3 Top-down Proteomics and High Performance Computing for Bioinformatics



Katsutoshi Takahashi (Cellular Informatics Team)

To Look Inside Biological Molecules with New Instrumental and Bio-informatical Eyes

Yutaka Akiyama (High Performance Computing Team)

Large-scale Molecular Simulation and Database Search for Supporting Proteomics Research

Thursday, 27th October

CBRC2005

ISCBB2005

Friday, 28th October

Host: CBRC (Japan)

Co-host: CCBB (Korea), BII (Singapore), IGIB (India)

Dr. Chandra Verma (BII, A*Star)

Novel Insights in Biology from Atomistic Computer Simulations

Dr. Simon See (Sun Microsystems Inc./ NUS/ Nanyang Tech. Univ.)

A Short Survey of Trends in High Performance Computing for Computational Biology

Singapore



Speaker: Dr. Verma, Dr. See Chair: Dr. Akiyama

Dr. Sik Lee (CCBB, KISTI)

Integrated Bioinformatics System (IBS)

Dr. Chang-No Yoon (Korean Institute of Science and Technology)

Genome Annotation System for Target Discovery

Korea



Speaker: Dr. Lee, Dr. Yoon Chair: Dr. Son

Dr. Samir Brahmachari (IGIB, CSIR)

Comparative Genomics and Pathway Modeling Approaches towards Novel Drug Target Identification

Dr. G.P.S. Raghava (Institute of Microbial Technology, CSIR)

Computer Aided Subunit Vaccine Design

India



Speaker: Dr. Brahmachari, Dr. Raghava Chair: Dr. Suwa

Dr. Ken Ichiro Fukuda (CBRC, AIST)

INOH-Knowledge of Biological Processes and Pathways

Dr. Nozomi Nagano (CBRC, AIST)

Super-mechanisms and Super-reactions in Enzyme Reactions

Japan



Speaker: Dr. Fukuda, Dr. Nagano Chair: Dr. No



International Symposium on Computational Biology & Bioinformatics (ISCBB) 2005 is a succession of the ISCBB2004 held in Korea last year. This year it was hosted by CBRC in Odaiba, Tokyo on 28th October, with a new participant from India. It contributed to reinforce the relationship with those bioinformatics research institutes in Asia and we hope to have such opportunities as many as possible hereafter.