GIW 2000 Program

Registration Garden Hall

December 18 : 9:00 -18:30

December 19 9:00 -17:00

December 18, 2000 (Mon)

Opening Address

9:20 -9:30 *A.Keith Dunker (Washington State University)*

Session 1 **Genome Analysis**

9:30 -9:50 "Rice at the Forefront of Plant Genome Informatics "
Bal A.Antonio, Katsumi Sakata, Takuji Sasaki

9:50 -10:10 "An Integrated Analysis and Database System for Full-Length cDNA "
Tetsuo Nishikawa, Katsuhiko Murakami, Naoyuki Harada, Toshio Ota, Tomoyasu Sugiyama, Keiichi Nagai, Ryotaro Irie, Hiroshii Matui, Makiko Suwa, Takao Isogai

10:10 -10:30 "An Infrastructure for Comparative Genomics to Functionally Characterize Genes and Proteins "
Clemens Suter-Crazzolara, Gunther Kurapkat

10:30 -10:50 "Intelligent DNA Chips: Logical Operation of Gene Expression Profiles on DNA Computers "
Yasubumi Sakakibara, Akira Suyama

Break **10:50-11:00**

Invited Talk "Whole Genome Assemblies of the Drosophila and Human Genomes "
11:00 -12:00 *Gene Myers (Celera Genomics)*

Lunch Break **12:00 -13:20**

Session 2 **Intelligent Systems and Algorithms for Molecular Biology**

13:20 -13:40 "Biological Sequence Compression Algorithms "
Toshiko Matsumoto, Kunihiko Sadakane and Hiroshi Imai

13:40 -14:00 "Sequencing by Hybridization in the Presence of Hybridization Errors "
Koichiro Doi and Hiroshi Imai

14:00 -14:20 "Visualization and Manipulation of Pedigree Diagrams "
Limsoon Wong

14:20 -14:40 "Intelligent System for Topic Survey in MEDLINE by Keyword Recommendation and Learning Text Characteristics "
Miyako Tanaka, Sanae Nakazono, Hiroshi Matsuno, Hideki Tsujimoto, Yasuhiko Kitamura, Satoru Miyano

JSBi Annual Meeting

14:40 -15:00 General Meeting

15:00 -17:00 One-Minute Talks for Poster &Software Demonstrations

17:00 -18:30 Poster &Software Demonstrations (Garden Hall Foyer)

Social Events **Award Ceremony &Banquet (Garden Hall Foyer)**
18:30 -21:00

December 19, 2000 (Tue)

Session 3 **Expression Profile Analyses**

9:00 -9:20 "Correspondence Analysis of Genes and Tissue Types and Finding Genetic Links from Microarray Data "
Hirohisa Kishino, Peter J. Waddell

9:20 -9:40 "Environmental Factor Dependent Maximum Likelihood Method for Association Study Targeted to Personalized Medicine "
Tatsuhiko Tsunoda, Ryo Yamada, Toshihiro Tanaka, Youzo Ohnishi, Naoyuki Kamatani

9:40 -10:00 "Expression Profiles and Biological Function "
Juan Carlos Oliveros, Christian Blaschke, Javier Herrero, Joaquin Dopazo, Alfonso Valencia

10:00 -10:20 "Inferring Genetic Networks from DNA Microarray Data by Multiple Regression Analysis "
Mamoru Kato, Tatsuhiko Tsunoda, Toshihisa Takagi

10:20 -10:40 "Cluster Inference Methods and Graphical Models Evaluated on NCI60 Microarray Gene Expression Data "
Peter J.Waddell, Hirohisa Kishino

Break **10:40 -10:50**

Invited Talk "RIKEN Structural Genomics Initiative "
10:50 -11:50 *Shigeyuki Yokoyama (RIKEN &University of Tokyo)*

Lunch Break **11:50-13:00**

Poster and Software Demonstrations (JSBi Session,Garden Hall Foyer)

13:00 -14:30

Session 4 **Protein Structure Analyses**

14:30 -14:50 "Protein Sequence-Structure Alignment Based on Site-Alignment Probabilities "

Sanzo Miyazawa

14:50 -15:10 "Clustering and Averaging of Images in Single-Particle Analysis "

Kiyoshi Asai, Yutaka Ueno, Chikara Sato, Katsutoshi Takahashi

15:10 -15:30 "Intrinsic Protein Disorder in Complete Genomes "

A.Keith Dunker ,Zoran Obradovic, Pedro Romero, Ethan C.Garner, Celeste J. Brown

15:30 -15:50 "Comparing Predictors of Disordered Protein "

Xiaohong Li, Zoran Obradovic, Celeste J.Brown, Ethan C.Garner, A.Keith Dunker

Break **15:50-16:00**

Session 5 **Protein Interaction Simulation**

16:00 -16:20 "Two-Phase Partition Method for Simulating a Biological System at an Extremely High Speed "

Hiroyuki Kurata, Kazunari Taira

16:20 -16:40 " A Gene Network Inference Method from Continuous-Value Gene Expression Data of Wild-Type and Mutants "

Koji M.Kyoda, Mineo Morohashi, Shuichi Onami, Hiroaki Kitano

16:40 -17:00 "MIAX: A System for Assessment of Macromolecular Interaction. 3)A Parallel Hybrid GA for Flexible Protein Docking "

Carlos Adriel Del Carpio M., Atsushi Yoshimori

Closing **17:00 -17:10**