



EUROPEAN
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JSPS Japan Society for the Promotion of Science

ESF Research Conferences

A Programme of the European Science Foundation

Final
Programme

ESF-JSPS Frontier Science Conference Series for Young Researchers

ESF-JSPS Follow-up Workshop on Functional Genomics From the Bench to Bioinformatics

Kanagawa • Japan • 6-11 March 2006

Chair: Gunnar Von Heijne • Stockholm University, SE

Co-Chair: Satoru Miyano • University of Tokyo, JP

www.esf.org/esfjps/06208

Monday 6 March	Late afternoon / early evening	Arrival & registration at the ESF-JSPS secretariat	
	17.00	Introduction	
	18.00	Welcome Drink & Dinner	
Tuesday 7 March	09.30	Workshop Opening	
	10.00-10.40	Keynote Lecture • Peter Nilsson • KTH, Stockholm, SE	<i>A human protein atlas for normal and cancer tissues</i>
	10.40-11.00	Gromiha Michael • Computational Biology Research Center, Tokyo, JP	<i>Dissecting β-Barrel Membrane Proteins in Genomic Sequences</i>
	11.00-11.20	Motonori Ota • Tokyo Institute of Technology, JP	<i>Comparison and classification of folding trajectories of a mini-protein, Trp-Cage</i>
	11.20	Coffee break	
	11.40-12.00	Hyun Kim • Stockholm University, SE	<i>Exploring the Saccharomyces cerevisiae membrane proteome</i>
	12.00-12.20	Parthiban Vijayarangakannan • Köln University, DE	<i>Structural analysis and prediction of protein mutant stability using distance and torsion potentials: role of secondary structure and solvent accessibility</i>
	12.30	Lunch	
	14.30-14.50	Hiroshi Ito • Nagoya University, JP	<i>Analysis for the robustness of a circadian clock in vitro</i>
	14.50-15.10	Hiroshi Yoshida • Tokyo University, JP	<i>Derivation of relationship between proliferation and transition rates of multicells by Quantifier Elimination</i>
	15.10-15.50	Keynote Lecture • Hiroaki Kitano • SBI, Tokyo, JP	<i>The theory of biological robustness and its applications to medicine</i>
	15.50	Coffee break	
	16.20-16.40	Vitor A. Martins Dos Santos • GBF, Braunschweig, DE	<i>Synthetic biology: constructing and deconstructing life</i>
	16.40-17.00	James D. Wasmuth • University of Edinburgh, UK	<i>Exploring parasite proteinspace</i>
	17.00-17.20	Mitsuteru Nakao • AIST Tokyo, JP	<i>Large-scale analysis of human alternative protein isoforms</i>
	17.20-17.40	Shin Kawano • Kyoto University, JP	<i>Prediction of glycan structures from gene expression data based on glycosyltransferase reactions</i>
	17.40-18.20	Keynote Lecture • Gunnar Von Heijne • Stockholm Univ., SE	<i>Membrane proteins: from prediction to proteomics</i>
18.30	Dinner		
Wednesday 8 March	09.30-09.50	David Ussery • Technical University of Denmark, Lyngby, DK	<i>20 methods to compare bacterial genomes</i>
	09.50-10.10	Michel Vervoort • Centre de Génétique Moléculaire, Gif/Yvette, FR	<i>Comparative genomics of animal development: an annelid model</i>
	10.10-10.50	Keynote Lecture • Yuji Kohara • NIG, Sizuoka, JP	<i>Functional and comparative genomics of the nematode worms</i>
	10.50	Coffee break	
	11.10-11.30	Takashi Hirasawa • Keio University, Tsuruoka, JP	<i>Molecular breeding of ethanol stress-tolerant yeast strains based on the DNA microarray data analysis</i>
	11.30-11.50	Sachiyo Aburatani • University of Tokyo, JP	<i>Inference of the relationships between SOS related genes in Escherichia coli</i>
	11.50-12.10	Teodora V. Popa • Gr. T. Popa Iasi University, RO	<i>IL-1 Genotype and Clinical Management of Periodontitis</i>
	13.00	Excursion to Kamakura (packed lunches)	
18.00	Workshop Dinner (including cultural programme)		

Thursday
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March

09.30-10.10	Keynote Lecture • Mark Lathrop • CNG, Evry, FR	<i>Human disease genetics</i>
10.10-10.30	Akira Komiya • Chiba University Hospital, JP	<i>Screening for prostate cancer susceptibility genes in Japanese population</i>
10.30-10.50	Reiichi Nakamichi • University of Tokyo, JP	<i>Combinatorial analysis of SNPs, gene expressions and environmental factors for binary disease using statistical model selection</i>
10.50	Coffee break	
11.10-11.30	Eleni Aklillu • Karolinska Institutet, Stockholm, SE	<i>A functional polymorphism in the monoamine oxidase A gene is associated with atypical features of major depression and variation in CSF monoamine metabolite levels</i>
11.30-11.50	Lenka Mrázová • Charles University, Praha, CZ	<i>Molecular analysis of Czech and Slovak patients with Methylmalonic aciduria</i>
11.50-12.10	Satoshi Shiojima • Seirei Hamamatsu General Hospital, JP	<i>Pregnancy-associated changes in genome-wide gene expression profiles in the liver of cow throughout pregnancy</i>
12.10-12.30	Ryo Yoshida • University of Tokyo, JP	<i>Genome-wide discovery of tumor-specific splice variants with all exon microarray</i>
12.30	Lunch	
14.50-15.10	Omar Kantidze • Institute of Gene Biology (RAS), Moscow, RU	<i>Illegitimate recombination is a possible mechanism of topoisomerase II -induced chromosomal rearrangements</i>
15.10-15.30	Yoshiaki Minezaki • National Institute of Genetics, Mishima, JP	<i>Intrinsically disordered regions of human transcription factors</i>
15.30-15.50	Riu Yamashita • University of Tokyo, JP	<i>Comprehensive promoter analyses using a database of transcription start sites (DBTSS)</i>
15.50	Coffee break	
16.20-16.40	Denis Klochkov • Institute of Gene Biology (RAS), Moscow, RU	<i>Differentially methylated region in the extended upstream area of chicken alpha-globin gene domain reveals silencer activity in erythroid cells</i>
16.40-17.00	Iryna Pirozhkova • Institute of Science Gustave Roussy, Villejuif, FR	<i>Chromatin structure and transcriptional regulation of the 4q35 locus implicated in the Fascio-Scapulo-Humeral dystrophy</i>
17.00-17.40	Keynote Lecture • Shigeyuki Yokoyama • RIKEN Genomic Sciences Center & Tokyo Univ., JP	<i>RIKEN Structural Genomics/Proteomics Initiative (RSGI)</i>
17.40-18.20	Keynote Lecture • Soren Brunak • DTU, Lyngby, DK	<i>Understanding systems and compartments by data integration</i>
18.30	Dinner	
20.00-20.40	Keynote Lecture • Ole N. Jensen • Southern Denmark U., DK	<i>Interpreting the protein language using proteomics</i>
20.40-21.00	Morihiro Hayashida • Kyoto University, JP	<i>Protein domain networks: scale-free mixing of positive and negative exponents</i>
21.00-21.20	Takahiro Suzuki • Riken Yokohama Institute, JP	<i>The study of histone H3 at lysine 9 modification and of nucleosome density</i>

Friday
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March

09.30-10.10	Keynote Lecture • Michael Sunström • Oxford Univ., UK	<i>Directed structural genomics: focus on human protein families</i>
10.10-10.30	Dmitrij Frishman • Technische Universität München, DE	<i>Comparative proteomics: software and applications</i>
10.30-10.50	Alberto Labarga • European Bioinformatics Institute, Hinxton, UK	<i>Integrating web services for functional genomics</i>
10.50	Coffee break	
11.10-11.30	Takeshi Obayashi • Chiba University, JP	<i>ATTED-II: a database of co-expressed genes and cis-elements for identifying co-regulated gene groups in Arabidopsis</i>
11.30-11.50	Albin Sandelin • Riken Yokohama Institute, JP	<i>Promoting the mammalian genome</i>

Saturday
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March

11.50-12.10	Jose Garcia • Umeå University, SE	<i>Functional analysis of the PsbX protein of photosystem II in higher plants by means of antisense inhibition</i>
12.10-12.30	Mira Milisavljevic • IMGEE, Belgrade, CS	<i>Psi-less and Psi-containing aspartic proteinases coexist in developing buckwheat seed</i>
12.30	Lunch	
14.30-14.50	Tadashi Kadowaki • Kyoto University, JP	<i>Chemical genomic study in endocrine disruptors on metabolic pathways</i>
14.50-15.10	Eiichiro Ichiishi • Tohoku University, Sendai, JP	<i>OMICS research trial of allergic pollinosis</i>
15.10-15.30	Valérie D. Ledent • Université Libre de Bruxelles, BE	<i>Evolution of the specificities of the bHLH transcription factors: a 'sequence - structure – function' based approach</i>
15.30-15.50	Nuria Lopez-Bigas • Pompeu Fabra University, Barcelona, ES	<i>Properties and prediction of cancer genes</i>
15.50-16.30	Keynote Lecture • Satoru Miyano • University of Tokyo, JP	<i>Gene networks for drug target gene discovery</i>
16.30	Coffee break	
16.50	Closing Session (Panel Discussion)	
18.30	Farewell Party	

Breakfast & departure (group transportation back to Tokyo-Narita airport)