PROGRAM Metabolomics 2005

Monday June - 20th

Afternoon Session:		Plenary Session
15:00 - 15:10		Masaru Tomita, Chair
		Welcoming Remarks
15:10 - 15:25		Rima Kaddurah-Daouk, Chair
		Introductions and award presentation
15:25 - 16:10 0)1	Jeremy Nicholson
		Modelling Metabolic Dysfunction and Disease Processes in
		hypercomplex systems
16:10 -16:40 0)2	Age K. Smilde
		Dynamic Metabolomics for Biosystems Identification
16:40 - 17:00		Coffee break
17:00 - 17:30 0)3	Edward Dennis
		Overview of the LIPID MAPS Initiative and Lipidomics
17:30 - 18:00 0)4	Masaru Tomita
		Metabolomics, Biosimulation and Systems Biology
18:15 - 19:00		Bio-Lab Tour
19:30 - 21:00		Reception at Grand el Sun

Tuesday June – 21 st		
Morning Session	<u>n:</u>	Metabolomics Technologies
9:00 - 9:		Roy Goodacre, Chair
10		Introduction
9:10 - 9:35	05	Tomoyoshi Soga
		Comprehensive and High Throughput Metabolomics by CE-MS and
		its Application
9:35 - 10:00	06	John Lindon
		Investigating Metabonomics in Intact Tissues using High Resolution
		Magic Angle Spinning NMR Spectroscopy
10:00 - 10:25	07	Roy Goodacre
		Direct Laser Desorption Mass Spectrometry for High-Throughput
		Metabolomics
10:25 - 10:40		Coffee break
10:40 - 11:05	08	Istvan Pelczer
		Saliva as an Alternative Biofluid and Implications to Animal and
		Human Diagnostics. An NMR-Based Case Study on Young Horses
11:05 - 11:30	09	Henri Brunengraber
		Pathway Discovery via the Association of Metabolomics and Mass
		Isotopomer Analysis
11:30 - 11:55	10	Armin Graber
		Difference in Technology and Performance of Qualitative and

Quantitative Metabolite Profiling Approaches based on MS

Lunch Metabolomics Society

Board of Directors, Scientific Board and Technical Board

$Tuesday\ June-21^{st}$

Afternoon Sess	sion:	Policy Makers, Databases, Structures and Informatics
13:30 - 13:40		Douglas Kell, Chair
		Introduction
13:40 - 14: 05	11	Douglas Kell
		Optimization of Metabolome Analyses through Evolutionary
		Computation
14:05 - 14:30	12	Oliver Fiehn
		Databases and Structures
14:30 - 14:55	13	Pedro Mendes
		Databases and Visualization
14:55 - 15: 20	14	W. Paul Lee
		The Nature of Metabolome Data
15:20 - 15:55		Break
15:55 - 16:20	15	Eberhard Voit
		Modelling Sphingolipid Metabolism in S. cerevisiae
16:20 - 16:55	16	Bernhard Palsson
		The Plasticity of the E. coli Metabolome during Adaptive Evolution
16:55 - 17:10		Break

$Tuesday\ June-21^{st}$

Evening Session: Selected Poster Presentations

17:10 - 19:10

Wednesday June – 22nd

<u>Mornir</u>	ig Sessi	ion:	Plant Metabolomics
8:30 -	8:35		Lloyd W. Sumner, Chair
			Introduction
8:35 -	9:00	17	Kazuki Saito
			Integrated Analysis of Metabolome and Transcriptome towards
			Identification of Novel Gene Function and Networks in
			Arabidopsis thaliana
9:00 -	9:25	18	Robert Hall
			GCMS Metabolomics and Multivariate Correlative Analysis of
			Complex Quality Traits in Tomato
9:25 -	9:50	19	R. George Ratcliffe
			Measuring Multiple Fluxes in Plant Metabolic Networks
9:50 - 1	10:05		Break
10:05 - 1	10:15		Oliver Fiehn, Chair

		Introduction
10:15 - 10:40	20	Richard Trethewey
		Plant Metabolomics: Innovation in Gene Function Analysis and
		Diagnostics with Wide Application
10:40 - 11:05	21	Will Allwood
		Dual Metabolome Profiling of Host and Pathogen in Arabidopsis
		Suspension Cultures Inoculated with Pseudomonas syringae
11:05 - 11:30	22	Lloyd W. Sumner
		Metabolomics: A Tool for Gene Validation, Gene Discovery,
		Hypothesis Building, and Mechanistic Understanding
11:30 - 11:55	23	Mike H. Beale
		Application of [1H]-NMR Screening to Plant Functional
		Genomics
11:55 - 12:00		Mike Beale
		Plant Metabolomics 2006, UK
Lunch		Metabolomics Journal, Editorial Board

$Wednesday\ June-22^{nd}$

Afternoon Session:		Models and Pre-Clinical Studies in Metabolomics
13:00 - 13:10		George Harrigan, Chair
		Introduction
13:10 - 13:35	24	John Ryals
		Biomarkers and Drug Discovery
13:35 - 14:00	25	Ryo Taguchi
		An Analytical System for Phospholipids from Mass Data for
		Lipidomics
14:00 - 14:25	26	Matej Orešic
		Lipidomic Characterization of Animal models in Studies of
		Metabolic Diseases
14:25 - 14:50	27	Takaaki Nishioka
		Applications of Metabolome Analysis to Metabolic
		Regulation
14:50 - 15:15	28	Bruce Kristal
		A Metabolic Serotype for Caloric Intake

$We dnesday\ June-22^{nd}$

Excursion: Tsuruoka Sightseeing

15:30 - 19:00

$Thursday\ June-23^{rd}$

Morning Session:
8:30 - 8:40

Metabolomics in Health Care
Rima Kaddurah-Daouk, Chair
Introduction

0.40 0.07	20	
8:40 - 9:05	29	Elaine Holmes
		Metabolite Profiling Strategies for Clinical and Epidemiological
		Metabolomics
9:05 - 9:30	30	James Bain
		Application of Metabolomics for Creation of New Diabetes
		Therapies
9:30 - 9:55	31	Wayne R. Matson
		Metabolic Sub-Classification of CNS Disorders
9:55 - 10:20	32	Marta Cascante
		Looking for New Targets in Cancer using a Metabolomic
		Approach
10:20 - 10:45		Coffee Break
10:45 - 11:10	33	Laszlo Boros
		Stable Isotope Based Metabolic Profiling (SIDMAP) and its
		Applications
11:10 - 11:35	34	Don Morris
		Advantages of Targeted Profiling Platforms: Examples from
		Lipids
11:35 - 12:00	35	George Harrigan
		Metabolomics in Discovery Pharma

Thursday June – 23rd Afternoon Session: Police

<u>Afternoon Session:</u>		Policy, Terms Used in the Field and Standards in Metabolomics
13:30 - 14:00	36	Art Castle
		New Metabolomics Technologies Developed under Roadmap
14:00 - 14:30	37	Rick Beger
		Metabolomics within NCTR at FDA
14:30 - 15:00		Pedro Mende, Oliver Fiehn, John Lindon, Art Castle
		Update on the metabolomics Standards workshop and open
		discussion on terms used in the metabolomics field and
		suggestions
15:00 - 15:05		Rima Kaddurah-Daouk
		Closing Comments, Metabolomics 2006 Boston, USA