

# PROGRAM Metabolomics 2005

## Monday June - 20<sup>th</sup>

### 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      **01    Jeremy Nicholson**  
Modelling Metabolic Dysfunction and Disease Processes in hypercomplex systems
- 16:10 - 16:40      **02    Age K. Smilde**  
Dynamic Metabolomics for Biosystems Identification
- 16:40 - 17:00      Coffee break
- 17:00 - 17:30      **03    Edward Dennis**  
Overview of the LIPID MAPS Initiative and Lipidomics
- 17:30 - 18:00      **04    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<sup>st</sup>

### Morning Session: Metabolomics Technologies

- 9:00 - 9:10      **Roy Goodacre**, Chair  
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 Metabolomics 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



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

### Wednesday June – 22<sup>nd</sup>

#### Afternoon Session: Models and Pre-Clinical Studies in Metabolomics

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

### Wednesday June – 22<sup>nd</sup>

#### Excursion: Tsuruoka Sightseeing

15:30 - 19:00

### Thursday June – 23<sup>rd</sup>

#### Morning Session: Metabolomics in Health Care

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

## **Thursday June – 23<sup>rd</sup>**

### **Afternoon Session: Policy, Terms Used in the Field and Standards in Metabolomics**

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