Day 1
August 10, 2015

Tiburon

09:00-09:25
Opening Ceremony

Keynote Forum

| 9:25-9:30 | Introduction |
| 9:30-9:55 | Olivier Dapremont  
AMPAC Fine Chemicals, USA |
| 9:55-10:20 | Gerhard Kratz  
abcr GmbH, Germany |

Track 1: Advances in Sample Preparation Techniques
Track 2: Membrane Processes
Track 3: High-Impact Application Fields

Session Chair: Hiroshi Uyama, Osaka University, Japan
Session Co-Chair: Kirk J Ziegler, University of Florida, USA

Session Introduction

10:20-10:40 Membrane & Other Separation Technologies and Their Application to Food Technology
Yongjae Lee, Food Protein R&D Center at Texas A&M University, USA

10:40-11:00 MFI Zeolite Membranes for Water Desalination
Catia Algieri, Institute on Membrane Technology ITM-CNR, Italy

11:15-11:35 The Role of Surfactant Structure in the Separation of Single Walled Carbon Nanotubes (SWCNTs)
Kirk J Ziegler, University of Florida, USA

11:35-11:55 Fabrication of Porous Monolithic Materials of Reactive Polymers for Protein Purification
Hiroshi Uyama, Osaka University, Japan

11:55-12:15 Advanced separation technologies based on polymeric membranes for clean water and clean energy
Neal Tai-Shung Chung, National University of Singapore, Singapore

12:15-12:35 Inorganic Metallic Membranes for Gas Separation
Simona Liguori, Stanford University, USA

12:35-12:55 Discharge times of 3.0 micron superfine powders from a circulating fluidized bed of a binary mixture
Mohammed W Hakami, Yanbu Industrial College, Saudi Arabia

12:55-13:15 Fabrication of Porous Monolithic Materials of Reactive Polymers for Protein Purification
Hiroshi Uyama, Osaka University, Japan

13:15-14:15 Lunch Break: 13:15-14:15 @ Sequoia & Redwood

Track 6: Advances in Chromatography
Track 7: Advances in Mass Spectrometry

Session Chair: Solich Petr, Charles University, Czech Republic
Session Co-Chair: Pao-Chi Liao, National Cheng Kung University, Taiwan

Session Introduction

14:15-14:35 Metabolomics approaches for bio-marker discovery for toxicant exposure of di-isnonyl phthalates (DINPs) using liquid chromatography-high resolution mass spectrometry (LC-HRMS)
Pao-Chi Liao, National Cheng Kung University, Taiwan

14:35-14:55 Trends in development of stationary phases in chromatography
Solich Petr, Charles University, Czech Republic

14:55-15:15 Evolution of mixed-mode from "mixing" silica gels to core-shell mixed-mode technology
Vlad Orlovsky, SIELC Technologies, USA

15:15-15:35 Advances and Applications of Supercritical Fluid Chromatography in Drug Discovery
Gerard Rosse, Dart NeuroScience, San Diego, CA, USA

15:35-15:55 Reversible switching and memory of macromolecular helicity of a polyacetylene in the solid state and application to switchable enantio-separation in HPLC
Eiji Yashima, Nagoya University, Japan

15:55-16:15 Nanoseparation-from Methodology to Application
Xiaoming Sun, Beijing University of Chemical Technology, China

16:15-16:35 Wall roughness effect on particle separation rate of the turbulent gas-solid flow in inclined pipes
Zohreh Mansoori, Amirkabir University of Technology, Iran

Networking & Refreshments Break: 16:35-16:50 @ Sierra-A
### Day 2 August 11, 2015

#### Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:25</td>
<td>Hiroshi Uyama</td>
<td>Osaka University, Japan</td>
</tr>
<tr>
<td>9:25-9:50</td>
<td>Andrew Shalliker</td>
<td>University of Western Sydney, Australia</td>
</tr>
</tbody>
</table>

#### Track 4: High Performance Liquid Chromatography

#### Track 5: Novel Techniques

#### Track 8: Product Related Processes

Session Chair: Eduard Rogatsky, Albert Einstein College of Medicine of Yeshiva University, USA  
Session Co-Chair: Andrew Shalliker, University of Western Sydney, Australia

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:50-10:10</td>
<td>HPLC – High Performance Liquid Chromatography</td>
<td>Gerhard Kratz</td>
<td>abcr Germany</td>
</tr>
<tr>
<td>10:10-10:30</td>
<td>10 years of evolution in UHPLC-MS chromatography: Current trends</td>
<td>Eduard Rogatsky</td>
<td>Albert Einstein College of Medicine of Yeshiva University, USA</td>
</tr>
<tr>
<td>10:30-10:50</td>
<td>Femtosecond laser ablation of solid methane</td>
<td>A A Zaidi</td>
<td>Prince Sultan University, Saudi Arabia</td>
</tr>
<tr>
<td>10:50-11:10</td>
<td>Advances in HPLC Purification of Peptides – Future Benefits of In-house Integration</td>
<td>Imre Sallay</td>
<td>Osaka, Japan</td>
</tr>
</tbody>
</table>

Networking & Refreshments Break: 11:10-11:25 @ Sierra-A

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:25-11:45</td>
<td>Reaction flow chromatography: High efficiency post-column derivatisations</td>
<td>Andrew Shalliker</td>
<td>University of Western Sydney, Australia</td>
</tr>
<tr>
<td>11:45-12:05</td>
<td>Magnetohydrodynamic electrophoresis: A novel fully validated method in bio/chemical analysis</td>
<td>Ali Aboel Dahab</td>
<td>King’s College London, UK</td>
</tr>
<tr>
<td>12:05-12:25</td>
<td>Two Dimensional Electrophoresis (2DE) guided purification novel technique in the isolation of bioactive proteins from complex mixtures</td>
<td>Jaya Vejayan</td>
<td>University Malaysia Pahang, Malaysia</td>
</tr>
<tr>
<td>12:25-12:45</td>
<td>Thin layer chromatographic analysis of capsaicin and moisture contents from three varieties of capiscum peppers</td>
<td>Ekwere Mercy R</td>
<td>University of Calabar, Nigeria</td>
</tr>
<tr>
<td>12:45-13:05</td>
<td>Enhanced cleavage of amyloid peptides in the casein injected inflammatory brain of mice</td>
<td>Asokan C</td>
<td>Sokoto State University, Nigeria</td>
</tr>
</tbody>
</table>

Lunch Break: 13:05-14:05 @ Sequoia & Redwood

### Workshop Session Introduction

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:05-14:35</td>
<td>Implementation of a continuous chromatographic process for the manufacturing of an API</td>
<td>Olivier Dapremont</td>
<td>AMPAC Fine Chemicals LLC, USA</td>
</tr>
<tr>
<td>14:35-15:05</td>
<td>Modern techniques for enantiomeric separation: From grams to tons</td>
<td>Joseph Barendt</td>
<td>Chiral Technologies, Inc., USA</td>
</tr>
<tr>
<td>15:05-15:35</td>
<td>Fast Centrifugal Partitioning Chromatography for Extract Purification</td>
<td>Rob Driscoll</td>
<td>Robatel Inc., Pittsfield, MA</td>
</tr>
<tr>
<td>15:35-16:05</td>
<td>Large scale HPLC purification of peptides: The art of using spherical silica based packing material for producing large biomolecule with high purity</td>
<td>Marc Jacob</td>
<td>Phenomenex, USA</td>
</tr>
</tbody>
</table>

### Young Research Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:05-16:25</td>
<td>State-of-the-art manipulation of clinoptilolite crystalline structure for gas separation</td>
<td>Afroz Farjoo</td>
<td>University of Alberta, Canada</td>
</tr>
</tbody>
</table>

Networking & Refreshments Break 16:25-16:40 @ Sierra-A

### Panel Discussion 16:40-16:50

#### Day 3 August 12, 2015

#### Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:35-10:00</td>
<td>Kirk J Ziegler</td>
<td>University of Florida, USA</td>
</tr>
</tbody>
</table>

#### Track 9: Clinical chemistry, Biomarkers and Diagnostics assays

#### Track 10: Complementary separation techniques

#### Track 11: Green Technologies, Future Challenges and Trends

Session Chair: Juan G Santiago, Stanford University, USA
10:00-10:20  Life in the shock wave: Accelerating DNA reactions with isotachophoresis
Juan G Santiago, Stanford University, USA

10:20-10:40  Ultra-sensitive capillary electrophoresis for single cell analysis
Takayuki Kawai, RIKEN, Japan
KuiqpicTM and UnipicTM: Versatile instruments for single cell acquisition and complex

10:40-11:00  hettogenous tissue microdissection
Stanislav L Karsten, NeuroInDx, Inc., USA

Networking & Refreshments Break: 11:00 -11:15 @ Sierra-A

11:15-11:35  Role of α-B crystallin on serum amyloid a fibrils and effect of β-amyloid with systemic amyloidotic
mice brain
Asokan C, Sokoto State University, Nigeria

Video Presentations  11:35-12:35

11:35-12:05  Two-dimensional capillary electrophoresis separation and on-line tandem mass spectrometry detection of
antigripal drugs and their metabolites in urine matrices
Peter Mikus, Comenius University in Bratislava, Slovakia

Significance Significance of separation and identification techniques in solving crimes, many problems, scope
and suggestions in forensic field
Rakhi Khanna, Regional Forensic Science Laboratory, Ajmer, India

12:05-12:35  Lunch Break: 12:35-13:35 @ Sequoia & Redwood

13:35-13:55  Comparative sex hormonal indices of male and female rats exposed to uppercott (mixture of organophosphate/pyrethroid) pesticide
Ekwere Mercy R, University of Calabar, Nigeria

13:55-14:10  Characteristics of fibrillar form of β-Amyloid peptide fractions from mice brain affected by systemic
amyloidosis
Asokan C, Sokoto State University, Nigeria

Poster Presentation  13:00 - 14:00 @ Sierra-A

Award Ceremony & Thanks Giving  14:00-14:20

Bookmark your dates
2nd International Conference and Expo on
Separation Techniques

November 03-05, 2016  Valencia, Spain

e-mail: separationtechniques@conferenceseries.net; separationtechniques@omicsgroup.com
Website: separationtechniques.conferenceseries.com