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2<sup>nd</sup> International Conference and Expo on

# **Separation Techniques**

September 26-28, 2016 Valencia, Spain

## **Scientific Program**



## Melia Meeting 1+2

conference**series**.com 08:45-09:15

# Opening Ceremony

### Keynote Forum

- 09:15-09:40 **Title: Towards hollow fibers automotive catalytic converters: effect of carbon on the NO abatement efficiency of Cu decorated C/Al<sub>2</sub>O<sub>3</sub> porous hollow fibers**  
Iakovos Yakoumis, Monolithos Catalysts and Recycling Ltd, Greece
- 09:40-10:05 **Title: Liquid chromatography of block copolymers**  
Dusan Berek, Slovak Academy of Sciences, Slovakia
- 10:05-10:30 **Title: Composites of polyamides and nanoparticles for dispersive micro-solid phase extraction**  
Rafael Lucena Rodriguez, University of Cordoba, Spain

### Panel Discussion

### Group Photo

Networking and Refreshment Break 10:30-10:45 @ Foyer Business Center

### Session: Applications of Separation Techniques

**Session Chair:** Morten Lykkegaard Christensen, Aalborg University, Denmark

**Session Co-Chair:** Chun-Yi Chen, Tokyo Institute of Technology, Japan

### Session Introduction

- 10:45-11:05 **Title: Performance of the deep bed filter at its loading with particles and microorganisms**  
Leon Gradon, Warsaw University of Technology, Poland
- 11:05-11:25 **Title: Impact of sludge properties on solid-liquid separation of activated sludge**  
Morten Lykkegaard Christensen, Aalborg University, Denmark
- 11:25-12:45 **Title: Nanofiltration for the separation of polyvalent and monovalent ions in high saline solutions**  
Raquel Ibanez Mendizabal, University of Cantabria, Spain
- 12:45-13:05 **Title: Identification of inhibitors of the Fe-2OG dependent oxygenases by capillary electrophoresis with laser-induced fluorescence**  
Svetlana M. Krylova, York University, Canada
- 13:05-13:25 **Title: Separation of heath compounds in Goji (Lyceum barbarum) aqueous extracts by membrane technology**  
Conidi Carmela, University of Calabria, Italy

Lunch Break 13:25-14:10 @ Restaurant Aqua

### Sessions: Emerging separation technologies

**Session Chair:** Leon Gradon, Warsaw University of Technology, Poland

**Session Co-Chair:** Sandrine Ricote, Colorado School of Mines, USA

### Session Introduction

- 14:10-14:30 **Title: Understanding and predicting industrial membranes performances in separation technology**  
Helene Marie, Dow Benelux BV, Netherland
- 14:30-14:50 **Title: Influence of coal power plant exhaust gas on the structure and performance of ceramic nanostructured gas separation membranes**  
Kai Wilkner, Forschungszentrum Julich, Germany
- 14:50-15:10 **Title: A simple, accurate, time-saving and green method for the determination of 15 sulfonamides and metabolites in serum samples by ultra-high performance supercritical fluid chromatography**  
Feng Zhang, Chinese Academy of Inspection & Quarantine, China
- 15:10-15:30 **Title: Protonic ceramic membranes under asymmetric steam atmosphere**  
Sandrine Ricote, Colorado School of Mines, USA

Networking and Refreshment Break 15:30-15:45 @ Foyer Business Center



- 15:45-16:05** **Title: Separation science that's built for biopharma**  
Robert van Ling, Thermo Fisher Scientific, Netherlands
- 16:05-16:25** **Title: Removal of divalent heavy-metal ions from aqueous solutions by adsorption process with titanium dioxide nanowires**  
Snežana Maletic, University of Novi Sad, Republic of Serbia
- 16:25-16:45** **Title: Development of a liquid-liquid extraction method of resveratrol from cell culture media using solubility parameters**  
Mohamad Houssam Al balkhi, Universite de Picardie Jules Verne, France
- 16:45-17:05** **Title: Highly selective sieving in porous graphene-like carbon nitride for helium/light isotopes separation**  
Qu Yuanyuan, Shandong University, China
- 17:05-17:25** **Title: 2D crystal-based membranes for photocatalysis and separation**  
Yuyoung Shin, University of Manchester, UK

#### Panel Discussion

Day 2 September 27, 2016

### Melia Meeting 1+2

#### Keynote Forum

- 09:05-09:30** **Title: Analysis of the transport of the individual gas mixture components in polymers of intrinsic microporosity and PIM-based mixed matrix membranes**  
Johannes Carolus Jansen, CNR-ITM, Italy
- 09:30-09:55** **Title: An overview about inorganic membrane technology application in the field of hydrogen generation and purification**  
Adolfo Iulianelli, CNR-ITM, Italy
- 09:55-10:20** **Title: Kinetic separation with MS detection: a "Swiss Army Knife" in selection and characterization of drug leads**  
Sergey N Krylov, York University, Canada
- 10:20-10:45** **Title: Can carbon nanomaterials revolutionize membrane separation for water treatment and desalination?**  
Muataz Ali Atieh, Hamad Bin Khalifa University, Qatar

#### Networking and Refreshment Break 10:45-11:00 @ Foyer Business Center

##### Session: Novel separation techniques in chemistry

**Session Chair:** Rafael Lucena Rodriguez, University of Cordoba, Spain

**Session Co-Chair:** Tso-Fu Mark Chang, Tokyo Institute of Technology, Yokohama, Japan

#### Session Introduction

- 11:00-11:20** **Title: High strength Au film fabricated by advanced electrochemical technique in supercritical CO<sub>2</sub> emulsified electrolyte for mems accelerometers**  
Chun-Yi Chen, Tokyo Institute of Technology, Yokohama, Japan
- 11:20-11:40** **Title: Next generation clarification for processing high density cell culture fluids supplemented with a flocculating agent**  
Sladjana Tomic-Skrbic, Merck KGaA, Germany
- 11:40-12:00** **Title: Separation of chiral nanotubes with an opposite handedness by oligopeptide adsorption: A molecular dynamics study**  
Giuseppina Raffaini, Politecnico di Milano, Italy
- 12:00-12:20** **Title: Integrating extraction and stirring in microextraction techniques**  
Rafael Lucena Rodriguez, University of Cordoba, Spain
- 12:20-12:40** **Title: Nanoscale wiring by Cu electrodeposition in supercritical CO<sub>2</sub> emulsified electrolyte with continuous-flow reaction system**  
Masato Sone, Tokyo Institute of Technology, Japan
- 12:40-13:00** **Title: Arsenic speciation in edible marine algae: presence of water and lipid-soluble arsenic compounds**  
Sara Garcia-Salgado, Universidad Politecnica de Madrid, Spain

#### Lunch Break 13:00-13:45 @ Restaurant Aqua

##### Session: Separation Processes in Chemical Engineering

**Session Chair:** Masato Sone, Tokyo Institute of Technology, Japan

**Session Co-Chair:** Adolfo Iulianelli, CNR-ITM, Italy

- 13:45-14:05** Title: **Fabrication of Pt metallization on silk via supercritical carbon oxide-assisted electroless plating for wearable medical devices**  
Wan-Ting Chiu, Tokyo Institute of Technology, Japan
- 14:05-14:25** Title: **Pervaporative removal of polyaromatic hydrocarbons from model diesel composition using a fabricated polyimide membrane and process optimization**  
Debarati Mitra, University of Calcutta, India
- 14:25-14:45** Title: **Pd-alloy supported membranes: hydrogen separation/purification and membrane reactor applications**  
Adolfo Iulianelli, CNR-ITM, Italy
- 14:45-15:05** Title: **Effect of pressure on crystal structure of metal oxides formed in supercritical CO<sub>2</sub> emulsified solution**  
Tso-Fu Mark Chang, Tokyo Institute of Technology, Yokohama, Japan
- 15:05-15:25** Title: **Fabrication of electrospun nanofiber mat for tetracycline adsorption**  
Liu Qing, Chinese Academy of Sciences, China
- 15:25-15:45** Title: **Separation of cerium from other rare earth elements by solvent extraction**  
Carlos Antonio de Moraes, Nuclear Technology Development Center, Brazil
- 15:45-16:05** Title: **Effective Adsorption and concentration of carnosine by nickel species within mesoporous silica**  
Liming Zhao, East China University of Science and Technology, China

### Networking and Refreshment Break 16:05-16:15 @ Foyer Business Center

### Poster Presentations @ 16:15-16:45 @ Foyer Business Center

- ST-001** Title: **Separation efficiency of pentafluorophenyl stationary phase for fast chromatography determination of highbush blueberry anthocyanins**  
Barbora Smidova, Research and Breeding Institute of Pomology Holovousy Ltd., Czech Republic
- ST-002** Title: **HPTLC method for the determination of anti-cold mixture in tablets and in spiked human plasma**  
Nehal Fayek Farid, Beni Suef University, Egypt
- ST-003** Title: **Method development and optimization for determination of acemetacin and its toxic impurities using design of experiment**  
Nada Sayed Abdelwahab, Beni Suef University, Egypt
- ST-004** Title: **Monitoring of chronic wound healing process via determination of arginine and its metabolites using HPLC-FD method**  
Lenka Javorska, Charles University in Prague, Czech Republic
- ST-005** Title: **Newly developed UHPLC method for the determination of omeprazole in oral suspensions**  
Kucerova K, Charles University in Prague, Czech Republic
- ST-006** Title: **Development of facilitated transport membranes with silver nano-particle and the process design for separation of propylene from propane in petrochemical industry**  
Jeong Hoon Kim, Korea Research Institute of Chemical Technology, Korea
- ST-007** Title: **A comparative study of As(III) and As(V) adsorption behaviors on different Fe-Mn based adsorbents**  
Jasmina Agbaba, University of Novi Sad, Republic of Serbia
- ST-008** Title: **Effect of supercritical carbon dioxide on micro-mechanical properties of electrodesposited gold**  
Haochun Tang, Tokyo Institute of Technology, Japan
- ST-009** Title: **Green synthesis of zinc oxide (ZnO) nanoparticles and determination of its antioxidant and antiradical activity**  
Esen Tasgin, Ataturk University, Turkey
- ST-010** Title: **Leachate performance of silica fume-modified compacted clayey soil**  
Ekrem Kalkan, Ataturk University, Turkey
- ST-011** Title: **Quantification of caffeic acid in cosmetic formulations by an eco-friendly HPLC method**  
Caroline Magnani Spagnol, Sao Paulo State University, Brazil
- ST-012** Title: **Solid phase extraction and fractionation of total petroleum hydrocarbons in contaminated soil by GC MSD/FID techniques**  
Maria Vilma Faustorilla, University of South Australia, Australia

**Panel Discussion**

**Day 3      September 28, 2016**

**Melia Meeting 1+2**

**Sessions: Chromatography as a Separation Technique | Hyphenated Techniques | Role of Spectroscopy as Separation Techniques**

**Session Chair: Hayrunnisa Nadaroglu**, Ataturk University, Turkey

**Session Co-chair: Snezana Maletic**, University of Novi Sad, Republic of Serbia

**Session Introduction**

- 09:00-09:20** **Title: Anion exchange chromatography in lignocellulosics analysis**  
**Nico Anders**, RWTH Aachen University, Germany
- 09:20-09:40** **Title: SFC-MS as a tool for flower absolute composition analysis**  
**Santerre Cyrille**, ISIPCA, France
- 09:40-10:00** **Title: Evaluation of solid-phase chromatography as a method for natural organic matter characterization**  
**Aleksandra Tubic**, University of Novi Sad, Republic of Serbia
- 10:00-10:20** **Title: Robustness test of the chromatographic method for the quantification of chlorogenic acid in coffee brew**  
**Jong-Sup Jeon**, Gyeonggi Province Institute of Health and Environment, Republic of Korea
- 10:20-10:40** **Title: Purification, characterization of lipase enzyme from lactobacillus brevis and immobilization onto magnetic florosil NPs**  
**Hayrunnisa Nadaroglu**, Ataturk University, Turkey

**Networking and Refreshment Break 10:40-10:55 @ Foyer Business Center**

- 10:55-11:15** **Title: Ultrahigh pressure liquid chromatography as a separation technique for the simultaneous extraction and determination of four different groups of pharmaceuticals in compost**  
**Miguel Angel Lopez Zavala**, Tecnologico de Monterrey, Mexico
- 11:15-11:35** **Title: Simple HPLC-MS/MS method for simultaneous determination of aripiprazole and dehydroaripiprazole in human plasma using microelution solid phase extraction**  
**Aneta Iwona Wojnicz**, Autonomous University of Madrid, Spain
- 11:35-11:55** **Title: Supercritical CO<sub>2</sub> in its multiple roles: solvent for fractionation of complex mixtures and blowing agent in polymer foaming**  
**Martin Topiar**, University of Chemistry and Technology Prague, Czech Republic
- 11:55-12:15** **Title: Resolving terahertz spectral mixtures using the blind source separation approach – a method to study the dehydration kinetics**  
**Lukasz Antoni Sterczewski**, Princeton University, USA
- 12:15-12:35** **Title: Numerical analysis on purification of methane through the hollow fiber membrane system**  
**Yongtaek Lee**, Chungnam National University, Korea
- 12:35-12:55** **Title: Purification of phosphoric acid by liquid-liquid**  
**Mariana Campos Assuncao**, PSL Research University, France

**Panel Discussion**

**Award Ceremony**

**Lunch Break 12:55-14:00 @ Restaurant Aqua**

**Bookmark your dates**

**3<sup>rd</sup> International Conference and Expo on**

# **Separation Techniques**

**October 23-25, 2017    Paris, France**

e-mail: [separationtechniques@conferenceseries.net](mailto:separationtechniques@conferenceseries.net)

Website: [separationtechniques.conferenceseries.com](http://separationtechniques.conferenceseries.com)

**Conference Series LLC**  
2360 Corporate Circle, Suite 400  
Henderson, NV 89074-7722, USA  
Ph: +1-888-843-8169  
Fax: +1-650-618-1417  
[america@conferenceseries.com](mailto:america@conferenceseries.com)

**Conference Series Ltd.**  
Traian Str., No.61, Constanta 900720,  
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Heathrow Stockley Park Lakeside  
House, 1 Furzeground Way, Heathrow,  
UB11 1BD, United Kingdom  
[europe@conferenceseries.com](mailto:europe@conferenceseries.com)

**OMICS International**  
6<sup>th</sup> Floor, North Block, Divyasree  
Building, Raidurg Hyderabad,  
Telangana, INDIA-500032  
Tel: +91-40-33432300  
[asiapacific@conferenceseries.com](mailto:asiapacific@conferenceseries.com)

**Toll free**  
USA & Canada: +1-800-216-6499  
Australia: +1-800-651-097  
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