

It is our great pleasure to welcome you to the **"Sisena Edició de les Jornades Doctorals"** that are organized by the PhD Chemistry Program and the Chemistry Department. This event aims to strengthen the links between the research groups of our Department, with the ultimate goal of promoting interdisciplinary and more ambitious research projects. In this sixth edition, the **"Jornades Doctorals-2016"** includes an exciting series of conferences by 3rd-4th year UAB-Chemistry PhD students and three lectures by outstanding academic experts in different fields of chemistry:

Luisa De Cola,

Full Professor and AXA chair of Supramolecular and Biomaterial Chemistry, Institut de Science et d'Ingénierie Supramoléculaires, ISIS, University of Strasbourg. She has published 280 papers and filed 30 patents. She has received several awards including the Chevalier de la Légion d'Honneur of the Republic of France, and the International Prize for Chemistry from the Academia dei Lincei (Tartufari Prize) (2014). Her research interests are: a) luminescent and electro-luminescent materials for optical and electroluminescent devices; b) nanomaterials for imaging diagnostics and therapy.

+ information: <http://decola.u-strasbg.fr/face/cv>

Luis Liz-Marzán,

Ikerbasque Research Professor and Scientific Director, CIC biomaGUNE. Prof. Liz-Marzán is coauthor of more than 350 peer reviewed research papers and co-inventor of 7 patents. He has received several awards, including the medal of the Spanish Royal Society of Chemistry (2014) and Rey Jaime I Award on Basic Research (2015). His research contributions focus on nanoparticle synthesis and assembly, nanoplasmonics, and development of nanoparticle-based sensing and diagnostic tools.

+ information: <http://www.ikerbasque.net/luis.lizmarzan>

Luisa Torsi,

Full professor of Analytical Chemistry, University of Bari "A. Moro". She has held a post-doc fellowship at Bell Laboratories Lucent Technologies and has been visiting professor at various French universities. As inventor of a groundbreaking electronic circuit which can be printed on plastic or paper to become a biological sensor, she has won the European Woman Inventor of the Year 2015 award organized by the European Women Inventors & Innovators Network (EUWIIN). She is author of 138 papers, and co-inventor of 6 patents. Her research activity mainly focuses on organic thin film transistors used as ultra-sensitive sensors.

+ information: <http://www.luisatorsi.info/resume>

We look forward to your participation in this event.

The Organizing Committee

Organizing, Scientific and Prizes Committee:

- Prof. Mariona Sodupe, PhD Coordinator of the studies in Chemistry
- Prof. Félix Busqué, Master Coordinator of the studies in Chemistry and President of the Chemistry Master Committee
- Prof. Xavier Sala, Secretary of PhD and Master Studies Committee
- Prof. Ramon Alibés, Vocal of PhD and Master Studies Committee
- Prof. José Peral, Vocal of PhD and Master Studies Committee
- Prof. María Isabel Pividori, Vocal of PhD and Master Studies Committee
- Prof. Gregori Ujaque, Professor at the Dept. of Chemistry
- Antonio Calvo López, PhD student Dept. of Chemistry
- Alba Garzón Manjón, PhD Student Dept. of Chemistry
- Katia Ghannadzadeh Samper, PhD student Dept. of Chemistry

Lloc de realització:

- Conferències i flash presentations: Sala d'Actes de la Facultat de Ciències i Biociències
- Exhibició de pòster i coffee break: Hall 1ª pl., davant de la Sala de Graus de la Facultat de Ciències i Biociències

Futher Information:

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Sponsored by:



Department of Chemistry

Activities for PhD Students

June 1-3, 2016

Sala d'Actes

Faculty of Sciences and Biosciences

Universitat
Autònoma de
Barcelona



June, 1st

10:00 - 10:15 Opening Ceremony

10:15 - 11:15 Jornades Doctorals Lecture:

Chairman: Prof. Agustí Lledós

“Molecular Thinking for Nanoplasmonics Design” Prof. Luis. Liz-Marzán

11:15 - 12:00 Coffee Break and Poster Session

12:00 - 13:15 Flash Presentations I

Chairwoman: Prof. Maria Isabel Pividori

12:00-12:15 Fungal metallothioneins: internal architecture of MTs formed by 7-Cys building blocs, **Selene Gil Moreno** (FP1.1)

12:15-12:30 Design and synthesis of new photo-responsive coordination polymers, **Jordi Espin Marti** (FP1.2)

12:30-12:45 Understanding the behaviour of multifunctional gold nanoparticles (AuNPs), **Asli Raman** (FP1.3)

12:45-13:00 Enhanced photocatalytic activity of gold nanoparticles driven by supramolecular host-guest chemistry, **Marc Padilla Barriento** (FP1.4)

13:00-13:15 Origin of anti-Markovnikov Regioselectivity in Alkene hydroamination catalyzed by Rhodium complexes, **Almudena Couce Ríos** (FP1.5)

13:15 - 16:00 Break

16:00 - 17:30 Flash Presentations II

Chairman: Gregori Ujaque

16:00-16:15 Water defluoridation by Hierarchical Alumina Microspheres, **Sara Gracia Lanás**, (FP1.6)

16:15-16:30 Carboxylated triarylphosphines containing trifluoromethyl groups: synthesis, study of the reaction scope and Applications, **Daniel Herrera Miranda** (FP1.7)

16:30-16:45 Cu-A β (1-16) Systems Related to Alzheimer's Diseases, **Andrea Mirats Arce** (FP1.8)

16:45-17:00 Synthetic approach to azaphenylene alkaloids, **Silvia Alujas Burgos** (FP1.9)

17:00-17:15 Hydrophobic adsorbilization ability of adsorbed surfactant mixtures onto TiO₂ P25, **Minerva Fernandez Blanco** (FP1.10)

17:15-17:30 Controlled Living Anionic Polymerization of Cyanoacrylates, **Rubén Saez Fraile** (FP1.11)

June, 2nd

10:00 - 11:00 Jornades Doctorals Lecture

Chairman: Prof. Manel del Valle

“Organic Bio-electronics for future ultra-high sensitive and low-cost sensing applications” Prof. Luisa Torsi

11:00 - 11:45 Coffee Break and Poster Session

11:45 - 13:00 Flash Presentations III

Chairman: Prof. Ramon Alibés

11:45 - 12:00 The versatility of voltammetric electronic tongue in environmental monitoring, homeland security and wine industry, **Andreu Gonzalez Calabuig** (FP2.1)

12:00 - 12:15 Chiral pH-dependent β -amino acid-based surfactants: synthesis, supramolecular analysis and study as potential new vectors for gene therapy, **Bernat Pi Boleda** (FP2.2)

12:15 - 12:30 New Molecularly Imprinted Polymer for Diclofenac Removal from Water, **Nurlin Abu Samah**, (FP2.3)

12:30 - 12:45 (α 1,4-N-Acetylhexosaminyltransferase EXTL2: The Missing Link for Understanding Glycosidic Bond Biosynthesis with Retention of Configuration, **Maria Fernanda Mendoza Muñoz** (FP2.4)

12:45 - 13:00 Metal-Organic Polymers Made of Cyclodextrins, **Heng Xu** (FP2.5)

13:00 - 16:00 Break

16:00 - 17:30 Flash Presentations IV

Chairman: Prof. Xavier Sala

16:00 - 16:15 Use of neat acetic acid as a solvent for the synthesis of Metal Organic Frameworks based on trimesic acid, **Marta Sanchez Sala** (FP2.6)

16:15 - 16:30 Computational Study of the Reaction Mechanism of Human 5-lipoxygenase, **Patricia Saura Martínez** (FP2.7)

16:30 - 16:45 Selenium significance in wheat plants: Characterization by XAS and XRF mapping with Synchrotron radiation, **Maria Angels Subirana Manzanares** (FP2.8)

16:45 - 17:00 Pd-catalyzed telomerization of 1,3-butadiene with acetic acid: the role of imidazolium acetate ionic liquid and the new trifluoromethylated sulfonated triarylphosphines, **Joao Marcio Balbino** (FP2.9)

17:00 - 17:15 Cis/trans Isomerization of a RuII-Complex Bearing the Pentadentate Polypyridylic Ligand bpy2PYMe, **Marcos Gil Sepulcre** (FP2.10)

17:15 - 17:30 Integrating NMR and SAXS data with coarse grained simulation to describe IDPs, **Susana Barrera Vilarmau** (FP2.11)

June, 3rd

10:00 - 11:15 Flash Presentations V

Chairman: Prof. Félix Busqué

10:00 - 10:15 Wine analyses in centrifugal microfluidic platforms, **Natàlia Sández Fernández** (FP3.1)

10:15 - 10:30 Fluorescent markers for amyloid detection: diagnosing Alzheimer's disease, **Francesca Peccati** (FP3.2)

10:30 - 10:45 Anchoring strategies for highly active ruthenium catalysts using functionalized terpyridines, **Rosa Maria Gonzalez Gil** (FP3.3)

10:45 - 11:00 From CoO to Co₃O₄ nanoparticles: towards a new electro- and photochemical water oxidation catalyst **Jonathan de Tovar Villanueva** (FP3.4)

11:00 - 11:15 New methods in Nuclear Magnetic Resonance (IV) **Nuria Marco Garcia** (FP3.5)

11:15 - 12:00 Coffee Break

12:00 - 13:00 Jornades Doctorals Lecture

Chairman: Prof. Jordi Hernando

“Nanomedicine: dream or reality?” Prof. Luisa De Cola

13:00 - 13:30 Award and closing ceremony

Jornades Doctorals 2016 distinguished Diploma, along with an iPad, will be given to the two best Poster-Flash Presentations. **Prizes awarded by HNA Group**

