

NIS colloquium

"Biomolecules on surfaces: from abiotic polymerization to biosensors"

Torino, 14th January 2014

*Aula Magna del Dipartimento di Scienze della Vita e Biologia dei Sistemi
via Accademia Albertina 13, Torino*

Scientific and Local Organizing Committee: F. Rua, C. Deiana, Y. Sakhno
Dipartimento di Chimica, Dipartimento di Scienze della Vita e Biologia dei Sistemi and NIS,
Università degli Studi di Torino

The attendance to the Colloquium is free, but registration is requested: please, send an e-mail to francesco.rua@unito.it or chiara.deiana@unito.it or sakhnoyura@mail.ru

Program	
09:00-9:15	Registration
9:15-9:30	Gianfranco Gilardi - Head of the Department of DBios and NIS, University of Torino <i>Welcome message</i>
9:30-10:15	Mike Hughes - Director of Centre for Biomedical Engineering, University of Surrey, UK <i>Electrophysiology is everywhere</i>
10:15-10:40	Francesca Valetti - DBios and NIS, University of Torino <i>Hydrogenase on nano-structured TiO₂ semi conductors for hydrogen production</i>
10:40-11:05	Diego Millo - Faculty of Science, Vrije Universiteit, Amsterdam, The Netherlands <i>Electron transfer in bacterial cells gathering electricity from wastewater</i>
11:05-11:35	<i>Coffee Break</i>
11:35-12:00	Andrea Rossi - Istituto Nazionale di Ricerca Metrologica (I.N.R.I.M.), Torino <i>P450-based porous silicon biosensor for arachidonic acid detection</i>
12:00-12:25	Silvia Castrignano - DBios, University of Torino <i>Coating human flavin-containing monooxygenase 3 on nanostructured electrodes</i>
12:25-13:00	Francesco Rua - DBios, University of Torino <i>Enhanced activity of engineered CYP2C20 in the presence of AuNps</i>
Lunch	
Chair:	Piero Ugliengo - Department of Chemistry and NIS, University of Torino
14:30-14:50	Gianmario Martra - Department of Chemistry and NIS, University of Torino <i>Introduction to the Colloquium and dedication to Luca Daveggio</i>
14:50-15:40	Raffaele Saladino - Department of Agrobiologia and Agrochimica, Università della Tuscia, Viterbo <i>Prebiotic synthesis models based on minerals/formamide system</i>
15:40-16:05	Albert Rimola - Department of Chemistry, Universitat Autònoma de Barcelona - Mariona Sodupe, Piero Ugliengo <i>Theoretical studies on the abiotic formation of biomolecules on inorganic surfaces</i>
16:05-16:35	<i>Coffee break</i>
16:35-17:00	Thomas Georgelin - Laboratoire de Réactivité de Surface, Université Pierre et Marie Curie, Paris - Houssein Bazzi, Maguy Jaber, Jean-Francois Lambert <i>Prebiotic activation of amino-acids and nucleotides on silica surface</i>
17:00-17:25	Bice Fubini - Department of Chemistry, NIS and Interdepartmental Centre Scansetti, University of Torino - Ingrid Corazzari, Ivana Fenoglio, Cristina Pavan, Maura Tomatis, Francesco Turci <i>Depletion of antioxidant defenses - ascorbic acid and glutathion- at the nanoparticle surface contributes to oxidative stress</i>
17:25-17:50	Yuriy Sakhno - Department of Chemistry and NIS, University of Torino - Ilvis Barberis, Chiara Deiana, Marco Fabbiani, Gianmario Martra <i>Formation and self-assembly of long prebiotic oligomers produced by the condensation of unactivated amino acids on oxide surfaces</i>
17:50-18:00	Conclusion