Challenges in Organic and Bioorganic Chemistry

23–26 June 2009, Paris, France

The Tenth Tetrahedron Symposium and the 50th Anniversary of Tetrahedron Letters will be celebrated in Paris from 23–26 June 2009. Seventeen exceptional speakers, including three Nobel Laureates, will present their latest research findings during this key organic chemistry event for 2009.

Participants at this meeting will be able to:
• learn from internationally renowned researchers in a comprehensive and wide-ranging program covering all aspects of organic synthesis; bioorganic, medicinal, and computational chemistry; molecular recognition, and the organic chemistry of materials
• understand the current state of research and the challenges to future discovery
• present the latest research at poster sessions
• network with the editors of the Tetrahedron journals, meet with international colleagues, visit the trade stands, and make new alliances

The Tenth Tetrahedron Symposium is organized by Elsevier in association with the Tetrahedron group of journals.

www.tetrahedron-symposium.elsevier.com

Biological Surfaces and Interfaces

27 June–2 July 2009, Sant Feliu, Spain

Interfaces between synthetic materials and biological systems—biointerfaces—constitute one of the most dynamic and expanding fields in science and technology. The field is driven both by a number of growing industrial and clinical applications—medical implants, biosensors and biochips, regenerative medicine, drug screening and targeting—and by the desire to understand biointerface processes at a fundamental level. It is by definition highly interdisciplinary, spanning the disciplines of physics, materials science and engineering, chemistry, biology, bioinformatics, and medicine. Education of today’s students in a stimulating environment and with an interdisciplinary approach is a key factor for propelling this field forward.

The main approach in biointerfacial science involves preparation and characterization of functional surfaces for specific interactions with bio-systems, in vivo and in vitro, and studies of the molecular and kinetic processes occurring at such interfaces, ranging from small molecule and biomolecular interactions, to cell adhesion, differentiation, and tissue formation at the interface. As such, the Biological Surfaces and Interfaces Symposium, 27 June–2 July 2009, Sant Feliu, Spain, will span a wide range of topics including biomimetic surface platforms, biomembrane and supramolecular materials, nanotechnology, controlling cellular responses by designed surfaces with switchable properties, stem cells, cellular and molecular biomechanics, neural networks, optical, magnetic and mechanical detection systems with single molecule sensitivity, bioarrays and DNA, peptides, proteins, and enzymes at interfaces.

The program is organized into invited presentations by internationally renowned researchers, complemented by shorter contributed oral presentations and poster sessions by young scientists. Selected after-dinner keynote speakers have been invited to put the biointerface field in a larger scientific, clinical, and social context. A small group discussion session is planned to address social and ethical issues arising from the technologies and scientific knowledge being developed and used in this area. The conference will include short talks selected from the submitted abstracts as well as poster presentations.

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