



Chemistry-Biology Interface

Chemistry-Biology Interface theme issue

This theme issue covers topical areas at the chemistry–biology interface from a chemical perspective. The biological consequences of specific molecular interactions have long been a part of scientific (and non-scientific) activities throughout human history. The last century witnessed a myriad of discoveries in the life sciences at molecular detail, and the associated growth of the pharmaceutical and biotech industries. This century has seen a further growth in the field with a resultant increase in publications and journals.

Reviews include:

Nucleic acid encoding to program self-assembly in chemical biology

Zbigniew L. Pianowski and Nicolas Winsinger

Chemical technologies for probing embryonic development

Ilya A. Shestopalov and James K. Chen

Interspecies and interkingdom communication mediated by bacterial quorum sensing

Colin A. Lowery, Tobin J. Dickerson and Kim D. Janda

Small molecule inhibition of microbial natural product biosynthesis—an emerging antibiotic strategy

Justin S. Cisar and Derek S. Tan

Identification of the cellular targets of bioactive small organic molecules using affinity reagents

Benjamin J. Leslie and Paul J. Hergenrother

Expanding dialogues: from natural autoinducers to non-natural analogues that modulate quorum sensing in Gram-negative bacteria

Grant D. Geske, Jennifer C. O'Neill and Helen E. Blackwell

Guest editor:



David Spring
University of Cambridge, UK

"The interface with biology is a fertile scientific pursuit for chemists"

060833

See also:

Molecular BioSystems issue 6, 2008 – Emerging Investigators theme issue

For more details see www.molecularbiosystems.org/ei

RSC Publishing

www.rsc.org/chemsocrev/cbi

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42nd IUPAC CONGRESS Chemistry Solutions

2-7 August 2009 | SECC | Glasgow | Scotland | UK

On behalf of IUPAC, the RSC is delighted to host the 42nd Congress (IUPAC 2009), the history of which goes back to 1894. RSC and IUPAC members, groups and networks have contributed a wealth of ideas to make this the biggest UK chemistry conference for several years.

As well as a programme including more than 50 symposia, a large poster session and a scientific exhibition, we are planning a series of social and satellite events to enhance networking and discussion opportunities.

Sponsored by  Schering-Plough

Call for abstracts

This is your chance to take part in IUPAC 2009. Contributions are invited for oral presentation by 16 January 2009 and poster abstracts are welcome until 5 June 2009.

Themes

- Analysis & Detection
- Chemistry for Health
- Communication & Education
- Energy & Environment
- Industry & Innovation
- Materials
- Synthesis & Mechanisms

Plenary speakers

Peter G Bruce, University of St Andrews
Chris Dobson, University of Cambridge
Ben L Feringa, University of Groningen
Sir Harold Kroto, Florida State University
Klaus Müllen, Max-Planck Institute for Polymer Research
Sir J Fraser Stoddart, Northwestern University
Vivian W W Yam, The University of Hong Kong
Richard N Zare, Stanford University

For a detailed list of symposia, keynote speakers and to submit an abstract visit our website.



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www.iupac2009.org

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