

Programme

The full programme, including presentation titles and times, will be available on the website shortly after the call for oral abstracts deadline. A list of poster presentations will be made available on the website shortly after the poster abstract deadline.

Registration

Registration will open online in Spring 2010. Accommodation is not included in the registration fee; this should be booked directly with Durham University. Please see the website for further details.

Co-sponsor

We are grateful to the Sociedade Brasileira de Química (SBQ) for their co-sponsorship support of Directing Biosynthesis 2010. Members of the SBQ are eligible to register for the conference at RSC member rate.



Bursaries

Financial support is available for students and recent graduates. The bursary application form will be available online when registration opens.

Sponsorship and Exhibition

A number of opportunities are available for promoting your organisation at Directing Biosynthesis 2010. If you are interested in sponsoring or exhibiting, please contact RSC Conferences for further information.

Further Information

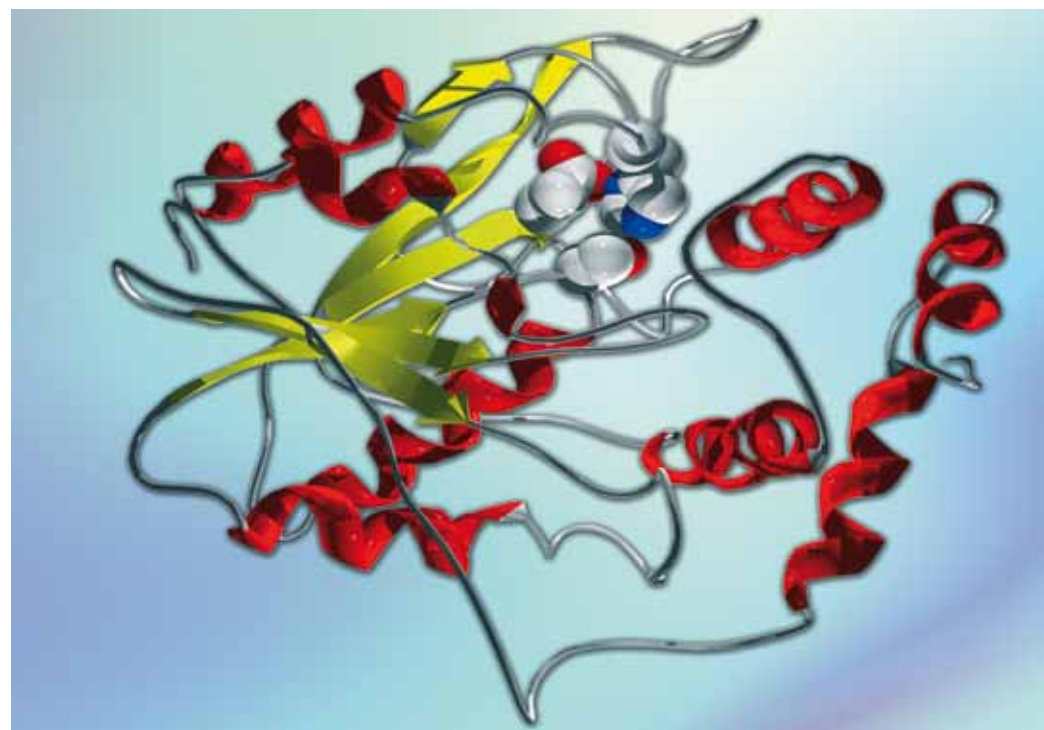
If you need more information on any aspect of Directing Biosynthesis 2010, please do not hesitate to contact RSC Conferences.

CALL FOR PAPERS

Directing Biosynthesis: Discovery, Evolution, Function

15 – 17 September 2010

Durham University, United Kingdom



Following the 2006 edition of the RSC's Directing Biosynthesis meeting, the subject area has broadened and matured, and the area of understanding and directing biosynthesis has become highly topical.

Understanding of biosynthetic gene clusters in bacteria, fungi, plants and marine organisms has grown quickly since whole genome (and metagenome) sequencing efforts began in the early 2000s. The area is populated by chemists, geneticists, microbiologists, medicinal chemists, chemical engineers and many others. Understanding of protein structures, catalysis and selectivity have all improved to the extent that in some cases the likely chemical function of a biosynthetic gene cluster can be predicted from gene sequence alone. In other cases new and sometimes exotic types of biosynthetic transformations are coming to light, and there has been a broadening of the definitions of previously narrow areas such as 'polyketide biosynthesis' and 'terpene biosynthesis' so that much overlap is now evident. In particular, it is becoming more common for genetic pathways to be altered rationally or built from scratch (so called biosynthetic engineering) and biosynthetic pathways are being 'directed' with increasing frequency and success to create new compounds.

It is envisaged that Directing Biosynthesis 2010 will feature the best of the worlds of terpene, alkaloid, non-ribosomal peptide and polyketide biosynthesis, with a focus on understanding and redirecting pathways in a wide variety of organisms.

Themes

- Discovery of new natural products and biosynthetic pathways
- Biosynthesis and enzymology
- Structural biology/directed evolution
- Pathway engineering, semi-synthetic products and synthetic biology



Scientific Committee

Russell Cox
University of Bristol, UK

Greg Challis
University of Warwick, UK

Steven Cobb
Durham University, UK

Jason Micklefield
University of Manchester, UK

Anne Osbourn
John Innes Centre, UK

Barrie Wilkinson
Biotica, UK

Keynote Speakers

Richard Baltz
Cubist, USA

Jon Clardy
Harvard Medical School, USA

Seiichi Matsuda
Rice University, USA

Joseph Noel
The Salk Institute for Biological Studies, USA

Ben Shen
University of Wisconsin-Madison, USA

Jon Thorson
University of Wisconsin-Madison, USA

Sheryl Tsai
University of California, Irvine, USA

Wilfred van der Donk
University of Illinois-Urbana/Champaign, USA

Invited Speakers

The following speakers have been invited to deliver lectures as members of the Natural Product Reports editorial board:

Andreas Kirschning
Leibniz University of Hannover, Germany

Bradley Moore
University of California, San Diego, USA

Kira Weissman
University of Saarland, Germany

Call for Papers

Offers of abstracts for both oral and poster presentation are invited. Deadlines are listed on this page.

Abstracts for both oral and poster presentation should be sent as email attachments to RSC Conferences (conferences@rsc.org) with 'Directing Biosynthesis abstract' in the subject header. Please include your full name, address and contact details in the email and state whether you are submitting your work for oral or poster presentation.

Abstracts should be no longer than one A4 page in portrait layout.

Deadlines

Abstracts for oral presentation
12 February 2010

Abstracts for poster presentation
16 July 2010

Early bird registration
16 July 2010

Standard registration
13 August 2010

Venue

Directing Biosynthesis 2010 will take place on the Science Site at Durham University. Durham is a spectacular city which boasts a Norman cathedral and castle, a designated World Heritage site. The University was founded in 1832 and comprises of 16 colleges. The accommodation and conference dinner will be located within Grey College, which occupies landscaped grounds adjacent to the University's botanical gardens and benefits from fantastic views over the city.