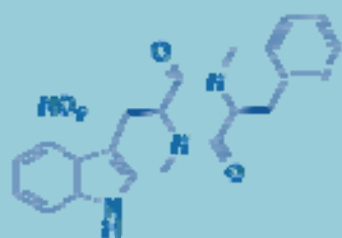
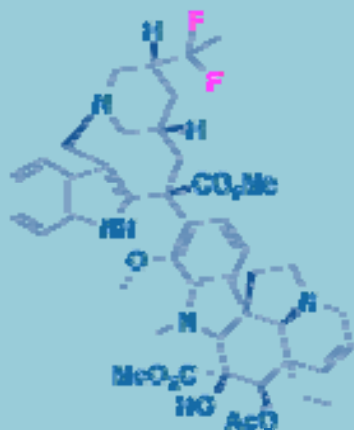
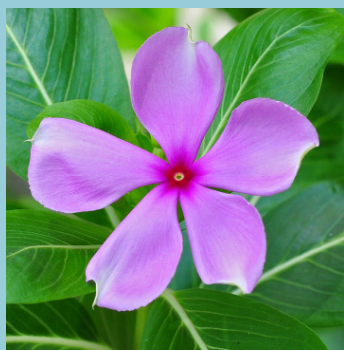


Bioactive Natural Products:

Translating Promise into Practice



Biotechnology
Group



St. Catherine's College
University of Oxford, UK
11-13 July 2016



Second Circular and Call for Papers

Provisional programme

Monday 11 July

Session 1 *Chair: Dr Colin Bedford*

- 08:55 Welcome
Prof Joe Sweeney Conference chair
- 09:00 *How natural products can inspire drug discovery*
Prof Herbert Waldmann Max Planck Institute, Dortmund, Germany
- 09:50 *New catalytic strategies for natural product synthesis*
Prof Matthew Gaunt University of Cambridge

10:40 Refreshment break

- 11:00 *The bio-origin of bioactive bacterial pyrrolizidine alkaloids*
Dr Hai Deng University of Aberdeen, UK
- 11:50 *Mining the genomes of Burkholderia bacteria for novel antibiotics*
Dr Cerith Jones University of Cardiff, UK

12:40 Lunch

Session 2 *Chair: Prof Joe Sweeney*

- 13:50 *Harnessing natural product biosynthesis*
Prof Sarah O'Connor John Innes Institute, UK
- 14:40 *ECR 1*
- 15:00 *ECR 2*
- 15:20 Refreshment break
- 15:50 *Using Nature's chemical diversity as a stepping stone for drug discovery*
Dr Phillipp Krastel Novartis, Switzerland
- 16:40 POSTER SESSION 1

19:00 Dinner

Tuesday 12 July

Session 3 *Chair: Dr Irene Francois*

- 09:00 *From artemisinin to a tetraoxane-based antimalarial drug candidate that circumvents K13- dependent clinical artemisinin resistance*
Prof Paul O'Neill University of Liverpool, UK
- 09:50 *New paradigms and challenges of natural products drug discovery programs*
Prof Bruno David Pierre Fabre Research Institute, France

Tuesday 12 July (cont.)

10:40 Refreshment break

- 11:10 *Marine natural product drug discovery: leads for treatment of inflammation, cancer, infections, and neurological disorders*
Dr Lena Gerwick Scripps Institute of Oceanography, La Jolla, USA

12:15 Lunch

Session 4 *Chair: Dr Paul Race*

- 13:30 *Using natural products to invent new chemicals for crop protection*
Dr John Clough Syngenta, UK

14:20 *ECR talk 3*

14:40 *ECR talk 4*

15:00 Refreshment break

- 15:30 *Diversity and diversification: microbial chemistry for discovery and development*
Dr Stephen Wrigley Hypha Discovery, UK
- 16:30 *The challenge of exploiting microbial sources to deliver novel bioactive natural products*
Prof Olga Genilloud Fundación Medina, Grenada, Spain
- 17:10 POSTER SESSION 2

19:00 Dinner

Wednesday 13 July

Session 5

Chair Dr Neville Nicholson

- 09:00 *Efficient ways to investigate plant and microorganism metabolomes for the search of new lead compounds of natural origin*
Prof Jean-Luc Wolfender University of Geneva, Switzerland
- 09:55 *Lichen symbioses as a bioresource for natural products*
Dr Martin Grube University of Graz, Austria

10:40 Refreshment break

- 11:10 *Exploiting new biotechnologies for discovery and development of bioactive natural products*
Prof Gregory Challis University of Warwick, UK

12:00 Close of conference

12:30 Lunch

Introduction

The RSC Biotechnology Group and sponsors invite you to a residential conference focused on contemporary scientific research which will facilitate the therapeutic use of small molecules derived from natural sources.

The tradition of using naturally occurring small molecules as medicines is thousands of years old, but many front-line pharmaceuticals and agrochemicals in contemporary use owe their origins to natural sources. Modern research methods have brought back into the spotlight the concept of developing novel biomedical and agrochemical products from so-called *natural products*.

This conference, which follows three earlier successful meetings organized by the Biotechnology Group at the University of Sussex in 1996, at the University St Andrews in 1999 and most recently at Magdalen College, Oxford in 2009, will highlight the current trends, challenges and successes in the industrial exploitation of natural products from a global perspective. The event will bring together key academic and industry interdisciplinary scientists, to disclose recent progress in this field, identify new perspectives and promote networking to facilitate the use of bioactive natural products in medical, agrochemical and related areas of societal need.

We warmly invite you to Oxford in 2016 to participate in this vibrant and timely event.

Venue and Travel

The conference will be held in St Catherine's College, Oxford, a celebrated and exceptionally attractive venue, featuring famed contemporary architecture, designed by Arne Jacobsen. The College is located in Manor Road, 15 minutes walk from the centre of the city. Oxford has excellent motorway access and is well-served by regular train and coach services from many parts of the UK. Four major airports are within 90 minutes travel – London Heathrow, London Gatwick, London Stansted and Birmingham International – and all are connected by direct coach services to Oxford. Please note that there is no car parking available at the College and delegates arriving by car are advised to use Park and Ride facilities that are available on all main roads entering the City.

Accommodation

Single bedroom en suite accommodation is available in St Catherine's College at a cost of £320 for bed and breakfast on 10, 11 and 12 July. En-suite rooms have their own shower, basin and toilet. Dinner on Monday 11 and Tuesday 12 July is also included.

Posters and Presentation Opportunities

PhD students and early career researchers who would like to present their work as a poster are invited to submit an abstract by 11 March 2016.

Please send a one-page abstract in Microsoft Word as an e-mail attachment to maggi@maggichurchouseevents.co.uk. Some of these will be selected by the organising committee for short oral presentations.

Student Bursaries

The organisers are able to offer a number of travel bursaries for full-time postgraduate students and post-doctoral fellows who are able to present a poster and who are RSC student members. Enquiries should be addressed to the conference secretariat.

Social Events

A Wine Reception will coincide with the poster session on Monday 11 July.

Registration and Fees

Application should be made on the enclosed form. An early bird discount applies until 18 March 2016.

The fees, listed below, include attendance at all sessions, abstracts, lunches and refreshments.

	Early Bird Before 18 March	Standard After 18 March
RSC Members	£350	£400
Non-members	£450	£500
RSC student	£250	£300
/retired members		
Non-member students	£300	£350

A late-booking fee of £30 will apply after 3 June.

Sponsorship

The organisers are grateful to the following for support of the meeting:

- The RSC for student travel bursaries
- BBSRC
- Syngenta

Organising Committee

The conference is being organised by the following committee members of the RSC Biotechnology Group:

Prof Joe Sweeney (Chair) University of Huddersfield
 Dr Colin Bedford, University College London
 Mr Neville Nicholson, Consultant
 Dr Irene Francois, Consultant
 Dr Paul Race, University of Bristol

Conference secretariat

Maggi Churchouse, Conference Secretariat, 3 Fast Barn, Market Weston Road, Theltham, Diss, IP22 1JJ, UK
 Email: maggi@maggichurchouseevents.co.uk

Prof Joe Sweeney (Chair)
University of Huddersfield