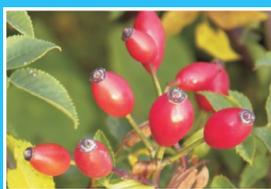
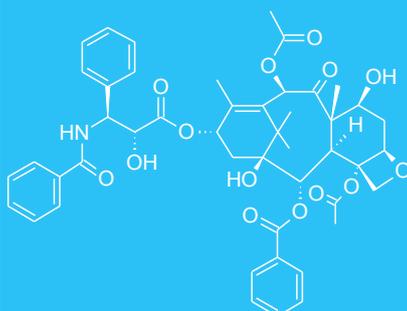
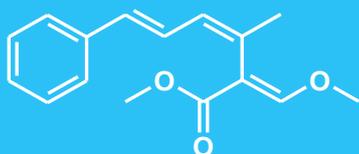


RSC | Advancing the  
Chemical Sciences

Biotechnology  
Group

# Functional Molecules from Natural Sources

Magdalen College, Oxford, UK  
6–8 July 2009



<http://www.confsec.co.uk/conferences.htm>

## Programme

**Monday 6 July 2009, 09:00 start**

### Session 1

Chairman - Bob Thomas (University of Sussex, UK)

- Welcome and Introductory Remarks
- **David Newman** (National Cancer Institute, USA)  
*Antitumour Agents from Nature*
- **Neville Nicholson** (Consultant, UK)  
*From Natural Products to Medicinal Chemistry*
- **Guy Carter** (Wyeth, USA)  
*New Approaches for Drug Discovery with Natural Products*
- **Jason Micklefield** (University of Manchester, UK)  
*Biosynthesis and Biosynthetic Engineering of Nonribosomal Lipopeptides*

### Session 2

Chairman - Stephen Wrigley (Hypha Discovery Ltd., UK)

- **Sheo Singh** (Merck, USA)  
*Title to be announced*
- **Dwight Baker** (Cubist, USA)  
*Why Natural Product Discovery Won't Meet the Requirements of Market-Driven Economics*
- **Andrew Mearns Spragg** (Aquapharm Bio-Discovery Ltd, UK)  
*Marine Natural Products; From the Seabed to the Hospital Bed*
- **Mike Dawson** (Novacta Therapeutics, UK)  
*Development of Lantibiotics for Treatment of Nosocomial Infections*

### Poster Session

**Tuesday 7 July 2009**

### Session 3

Chairman – Martine Verhoeyen (Unilever R&D, Colworth Science Park, UK)

- **Robert Nash** (Summit Wales Ltd, UK)  
*Imino Sugars: A Major New Group of Therapeutic Agents*
- **John Casey** (Unilever R&D, Colworth Science Park, UK)  
*Well, Naturally*

### Session 4

Chairman – Colin Bedford (University College London, UK)

- **Jurgen Rohr** (University of Kentucky, USA)  
*Modifying Oxidation and Glycosylation Events in the Biosynthesis of Natural Product Anticancer Drugs – Challenges for Combinatorial Biosynthesis*
- **Richard Jarvest** (GlaxoSmithkline, UK)  
*Pleuromutilins: Antibiotic Optimisation for Human Therapeutic Use*

### Session 5

Chairman – Martin Hayes (AstraZeneca, Sweden)

- **Gerhard Bringmann** (University of Würzburg, Germany)  
*Acetogenic Anthraquinones and Alkaloids - Online Structural Elucidation, Biosynthesis, Bioactivities and Total Synthesis*
- **Tony Buss** (Merlion Pharmaceuticals, Singapore)  
*Finding New Antibacterials: Opening a Window on the Black Box of Natural Product Discovery*
- **Jacob Midiwo** (University of Nairobi, Kenya)  
*Potential Plant Natural Products for Management of Neglected Diseases*

Two short presentations selected from poster abstracts

**Conference Dinner at 19:30**

**Wednesday 8 July 2009**

### Session 6

Chairman – Sir Jack Baldwin, Emeritus Fellow of Magdalen College, Oxford

- **Peter Leadlay** (University of Cambridge, UK)  
*Chemical Diversity by Other Means: The Biosynthesis of Polyketide Drugs*
- **Tom Simpson** (University of Bristol, UK)  
*Structural, Synthetic and Biosynthetic Studies on an 'Acyl Transferase-Less' Polyketide Antibiotic, Mupirocin*
- **John Pickett** (Rothamsted, UK)  
*Switching on Defence Genes with Plant Secondary Metabolites*
- **John Clough** (Syngenta, UK)  
*Natural Products as Leads for New and Innovative Crop Protection Chemicals*

**Close of conference 12:45**

## Introduction

Naturally-occurring compounds have been, and continue to be, an important source of new leads and of commercially successful products for various industrial sectors, notably pharmaceuticals and agrochemicals. The last decade has, however, seen many challenges as well as new opportunities for the industrial utilization of molecules from natural sources, including the birth of 'nutraceuticals' and 'cosmeceuticals'. This conference follows two earlier successful meetings organized by the Biotechnology Group at the University of Sussex in 1996 and at the University of St Andrews in 1999 and aims to highlight current trends, challenges and successes in the exploitation of natural products.

### Venue and Travel

The conference will be held in Magdalen College, Oxford, a celebrated and exceptionally attractive venue. The College is located at the end of the High Street, 10 minutes walk from the centre of the city, and sits amidst a hundred acres of woodlands, riverside walks and lawns, including the famous deer park. The earliest college buildings date from 1458 and buildings added in sympathetic styles through the centuries combine into an exceptional arrangement of historic and modern accommodation and meeting rooms.

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 availability of car parking at the College and delegates arriving by car are advised to use the Park and Ride facilities that are available on all main roads entering the City.

### Accommodation

Single study bedrooms are available in Magdalen College at a cost of £216 (en suite) or £180 (standard) for bed and breakfast on 5, 6 and 7 July. Standard rooms have washbasins and share toilet and shower facilities with other rooms close by. En-suite rooms have their own shower, basin and toilet, and will be made available on a first-come first-served basis.

### Posters and Presentation Opportunities

Participants who would like to present their work as a poster are invited to submit an abstract by 13 March 2009. Please send a one-page abstract in Microsoft Word as an e-mail attachment to [esw@confsec.co.uk](mailto:esw@confsec.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 bursaries for full-time postgraduate students who are able to present a poster. Preference will be given to RSC student members. Enquiries should be addressed to the conference secretariat.

### Social Events

A Wine Reception will coincide with the poster session on Monday 6 July, after which an optional evening meal will be available. The conference dinner will be held on Tuesday 7 July.

### Registration and Fees

Application should be made on the enclosed form. An early bird discount applies until 31 March 2009.

The fees, listed below, include attendance at all sessions, abstracts, lunches and refreshments. Dinner on the evening of Monday 6 July and the Conference Dinner on the evening of Tuesday 7 July are optional and can be ordered on the application form.

	Early Bird Before 31 March	Standard After 31 March
RSC Members	£310	£360
Non-members	£410	£460
RSC student/retired members	£135	£185
Non-member students	£235	£285

A late-booking fee of £30 will apply after 29 May.

### Sponsorship

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

- The RSC for student bursaries
- RSC's Chemistry and Biology Interface Forum
- Unilever R&D, Colworth Science Park, Bedford
- Advanced Chemistry Development, ACD Labs

### Organising Committee

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

- Dr Colin Bedford (University College London)
- Dr Martin Hayes (AstraZeneca, Sweden)
- Mr Neville Nicholson (Consultant, Harlow)
- Prof. Bob Thomas (*Chair*, University of Sussex)
- Dr Martine Verhoeven (Unilever R&D, Colworth Science Park, Bedford)
- Dr Stephen Wrigley (Hypha Discovery Ltd., London)

### Secretariat

Elaine Wellingham, Conference Secretariat  
Field End House, Bude Close, Nailsea, Bristol, BS48 2FQ, UK  
Email: [esw@confsec.co.uk](mailto:esw@confsec.co.uk)

## IMPORTANT DATES

**31 March 2009**  
**29 May 2009**

end of "Early Bird" discount and deadline for poster abstract submissions  
late booking fee applies after this date

## APPLICATION FORM

**Please note that a late application fee applies after 29 May**

*This form should be completed clearly and returned with your remittance to:*  
 Conference Secretariat, Field End House, Bude Close, Nailsea, Bristol BS48 2FQ.  
 Fax: +44 (0)1275 853311. Email: esw@confsec.co.uk.

**Details for correspondence:**

Title (Prof, Dr etc): .....

First Name: ..... Last (Family) Name: .....

Organisation: .....

Address: .....

..... Postcode.....

E-mail: (for acknowledgement and List of Participants)

.....

Tel and Fax (for contact by us).....

**Special needs:** Please inform us in advance of any dietary requirements, access or other facilities which may be required.

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**Fees:** (Please tick as appropriate)

<b>Registration:</b>	Up to 31 March	31 March to 29 May
Members	£310 <input type="checkbox"/>	£360 <input type="checkbox"/>
Non-members	£410 <input type="checkbox"/>	£460 <input type="checkbox"/>
Student members	£135 <input type="checkbox"/>	£185 <input type="checkbox"/>
Non-member students	£235 <input type="checkbox"/>	£285 <input type="checkbox"/>
Add Late Booking fee after 29 May		£30 <input type="checkbox"/>

**Accommodation**

Package: Bed & Breakfast  
 single room in Magdalen College  
 Nights of 5, 6 and 7 July

En-suite @ £216   
 or  
 Standard @ £180

**Evening meals**

College dinner	6 July	£20 <input type="checkbox"/>
Conference Dinner	7 July	£45 <input type="checkbox"/>

**TOTAL** £ \_\_\_\_\_

Signed .....

Date .....

Payment information is overleaf.

## Payment Methods

### 1. Cheque

I enclose a cheque payable to **RSC Biotechnology Group** for £ .....

### 2. Bank Transfer

Payments can be made by BACS, please contact Conference Secretariat for the details. All charges must be paid by the sender. Please include the delegate name as the reference in the instruction and send a copy with the application form.

### 3. Credit Card

Please charge my MASTERCARD, VISA or AMEX card for £ .....

Card No: \_ \_ \_ \_ \_

Expiry Date: \_ \_ / \_ \_      Card Security Code \_ \_ \_

The Security Code is the last three digits on the signature strip (or 4 digits on the front of AMEX cards).

Cardholder's signature .....

Cardholder's name (please print) .....

Cardholder's billing address (if different to overleaf)

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..... Postcode .....

DATA PROTECTION: The information you supply will be used for the administration of the meeting. A List of Participant names and email addresses will be distributed at the conference. If you DO NOT wish your address to be included, please tick the box.