

Sunday 1st March – Session 1

Chairman: *Peter Leadlay*

17:30 - 17:40 *Opening Remarks*

17:40 - 18:30 **Guy Carter**, Wyeth Research, USA

Macrocyclic immunophilin ligands as neuroprotective agents

18:30 - 19:00 **Nigel Simpkins**, University of Birmingham, UK

Synthetic studies towards heterocyclic bridged natural products

19:00 *Dinner reception*

Monday 2nd March – Session 2

Chairman: *Chris Willis*

08:30 - 09:20 **David O'Hagan**, University of St Andrew's, UK

RSC Natural Products Report Lecture 2009:

Enzymatic C-F bond formation. The fluorinase, does it have biotechnological prospects?

09:20 - 09:45 **Rebecca Goss**, UEA, UK

Novel Halogenated Natural Products

09:45 - 10:10 **Hai Deng**, Marine Diversity Centre, University of Aberdeen, UK

New halogenated bioactives from the Atacama desert

10:10 - 10:35 **Paul Floreancig**, University of Pittsburgh, USA

Oxidative cleavage reactions in natural product synthesis

10:35 - 12:30 *Beachside poster session*

12:30 - 16:30 *Lunch, beachtime!!*

Session 3

Chairman: *Craig Townsend*

16:30 - 17:20 Dale Poulter, University of Utah, USA

The isoprenoid fold. building carbon skeletons in the isoprenoid pathway

17:20 - 17:45 William Setzer, University of Alabama, USA

Non-intercalative triterpenoid inhibitors of topoisomerase II

17:45 - 18:10 John Boukouvalas, Laval University, Canada

Discovery and synthesis of ottensinin- a novel labdane diterpenoid from Zingiber ottensii

18:10 - 18:30 Refreshment break

18:30 – 18:55 Ruedi Allemann, Cardiff University, UK

Exploiting Class I terpene synthases for directed organic synthesis

18:55 -19:20 Kevin Walker, Michigan State University, USA

Production of novel diterpenoids with taxus-derived catalysts

19:30 Dine-around (choice of hotel restaurant)

Tuesday 3rd March – Session 4

Chairman: *Peter Leadlay*

08:30 - 09:20 Joern Piel, University of Bonn, Germany

Natural products from marine symbioses

09:20 - 09:45 Russell Cox, University of Bristol, UK

Kinetic analysis of the act PKS proteins

09:45 - 10:10 Chris Boddy, University of Ottawa, Canada

Identification and characterisation of a conserved transcriptional activator for expression of bacterial polyketide biosynthesis pathways

10:10 - 10:35 Luis Quadri, Cornell University, USA

Biosynthesis and small molecule inhibition of mycobacterial polyketide virulence factors

10:35 - 11:00 *Refreshment break*

11:00 - 11:25 **Bernard Rawlings**, University of Leicester, UK

Production of amphotericin B analogues in vivo

11:25 – 11:45 **Nestor Carballeira**, University of Puerto Rico

Synthesis and biological activity of a new class of acetylenic fatty acids with potent antimalarial and antifungal properties

11:45 - 12:35 **Brad Moore**, California, USA

Genomic exploration and exploitation of marine bacteria for natural products

12:35 - 17:00 *Lunch and beachtime!!*

Session 4

Chairman: *Ian Paterson*

17:00 - 17:50 **Steve Martin**, University of Texas, USA,

Recent advances in the synthesis of complex heterocyclic natural products

17:50 - 18:15 **Reinhard Neier**, University of Neuchatel, Switzerland

Synthetic chemistry as a tool to understand biosynthesis: porphobilinogen synthase as a case study.

18:15 - 18:40 **Hans-Joachim Knolker**, Technical University of Dresden, Germany

Synthesis of biologically active carbazole alkaloids

18:40 - 19:05 **Olivier Ploux**, ENSCP, Paris, France

Identification of the gene cluster responsible for the biosynthesis of anatoxin-a in cyanobacteria

19:05 - 19.30 **Mark O'Neil-Johnson**, Sequoia Sciences Inc., USA

Bringing back Nature to a drug discovery program

19:30 *Beachside group dinner*

Wednesday 4th March – Session 5

Chairman: *David O'Hagan*

09:00 - 09:50 **Craig Townsend**, Johns Hopkins University, USA

Structural and mechanistic understanding of type I iterative polyketide synthases and the potential for unnatural product synthesis

09:50 - 10:15 **Carmen Galan**, University of Bristol, UK

Novel synthetic approaches toward mucin type O-glycans

10:15 - 10:40 **Yuhui Sun**, University of Cambridge, UK

One-pot biosynthesis of RK-682: insight into tetronate ring formation in tetronate antibiotics

10:40 - 11:10 *Refreshment break*

Chairman: *Chris Willis*

11:10 - 11:35 **Sergey Zotchev**, NTNU, Trondheim, Norway

New and improved anti-fungal polyene macrolides through biosynthetic and chemical engineering

11:35 - 12:25 **Ian Paterson**, University of Cambridge, UK

Synthesis and stereochemical assignment of the spirastrellolides

12:25 - 12:30 *Closing Remarks: Chris Willis*

12:30 *Lunch, departures*