The Chemistry and Biology of Natural Products
Symposium XII

Thursday 28th – Friday 29th June 2018
University of Warwick, Zeeman Building, MS.01

#CBNP12
Thursday 28th June

**9:30** Registration, Tea and Poster Set up

**10:30** Welcome & Introduction from NPRONET

**10:40** Eleni Vikeli, John Innes Centre – Wilkinson Group
New antimicrobials produced by Saccharopolyspora strains isolated from fungus-farming tetragonera plant ants

**11:00** Paul Walker, University of Bristol – Willis & Crump Groups
Programmed β-Methyl incorporation in the kalimantacin antibiotics

**11:20** Alex Mullins, Cardiff University – Mahenthiralingam Group
Natural products of the biopesticide *Burkholderia ambifaria*

**11:40** Christian Hobson, Warwick University – Challis Group
A dehydratase domain capable of catalysing consecutive dehydrations in *trans*-AT PKSs

**12:00** Lunch and Posters

**13:30** Rebecca McHugh, University of Strathclyde – Hoskinsson Group
Characterisation of aurodox, a Type III secretion system inhibitor from Streptomyces

**13:50** Alba Iglesias Vilches, Newcastle University – Stach Group
Engineering natural products – The abyssomicins

**14:10** David Heard, University of Bristol – Willis Group
Towards structural elucidation and total synthesis of the fungicidal natural product scytalidin

**14:30** Jehad Aldali, Warwick University – Corre Group
Investigating the role of MmyB-like pathway-specific transcriptional activators in antibiotic production

**14:50** Laia Castano, University of Strathclyde – Duncan Group
Understanding the chemical warfare of actinomycetes across taxonomic and phylogenetic boundaries for accelerated antibiotic discovery

**15:10** Tea Break and Posters

**16:10** Sannia Farooque, University of Leeds – Rayner Group
Purification of bioactive compounds from *Ribes nigrum* and *Streptomyces coelicolor*

**16:30** Rory Little, University of Cambridge – Leadlay Group
Novel ring-forming enzymes in tetronate biosynthesis

**16.50** **Closing Lecture:** Rebecca Goss, University of St. Andrews
Blending synthetic chemistry with synthetic biology to access novel natural products

**17:30** Wine Reception & Hot Buffet Dinner

**19.30-Onwards** Drinks @ Terrace Bar
Friday 29th June

9:00  Simon Vobruba, Czech Academy of Sciences
Deacetylation catalysed by TldD/PmbA family proteins releases lincosamide intermediate from ‘detoxification system’ towards biosynthesis completion

9:20  Piera Marchetti, University of Edinburgh – Campopiano Group
Exploring the tambjamine YP1 biosynthetic pathway

9:40  Hung En Lai, Imperial College London – Freemont Group
Semi-synthetic strategies towards generating bisindole antibiotic violacein analogues

10:00 Thomas Booth, John Innes Centre – Wilkinson Group
Evolution of adenylation-domain specificity in non-ribosomal peptide synthesis

10:20 John Sidda, Warwick University – Grant Group
Unleashing cryptic chemistries from Trichoderma hamatum GD12

10:40 Tea and Posters

11:20 Marcio Dias, University of São Paulo
Gentamicin biosynthesis: structural biology perspectives and insights

11:40 Bernhard Keppinger, Newcastle University – Errington Group
Bioprospecting for lipoteichoic acid synthesis inhibitors

12:00 Yousef Dashti, Warwick University – Challis Group
Discovery and biosynthesis of gladiochelins, novel lipopeptides from Burkholderia gladioli

12:20 Simon Moore, Imperial College London – Freemont Group
Streptomyces cell-free transcription, translation and biosynthesis for natural product discovery

12:40 Closing Lecture: Kate de Mattos-Shipley, University of Bristol
Filamentous fungi as factories – a Bristol perspective

13:20 Lunch and Posters

13:45 Prize announcement

14:00 Close