



## 4: Enzymatic reaction mechanisms in natural product biosynthesis

Tuesday, January 23, 2018

1:00 PM - 4:45 PM

Hilton Clearwater Beach - Salons F-G, lobby level

## Convener

[Ikuro Abe](#)Graduate School of Pharmaceutical  
Sciences, The University of Tokyo[Rebecca Goss](#)

University of St. Andrews

## Papers

- 1:00 PM **S20** Co-dependent enzyme complexes of oxidatively rearranged polyketide natural products  
*Jürgen Rohr, University of Kentucky, Lexington, KY, USA*
- 1:30 PM **S21** Living GenoChemetics: Blending synthetic chemistry and synthetic biology in vivo to enable access to new to nature natural products  
*Rebecca Goss, University of St. Andrews, St Andrews, United Kingdom*
- 2:00 PM **S22** Biosynthesis and engineering of cyclic peptide antibiotics  
*Prof. Wilfred van der Donk, Howard Hughes Medical Institute and the University of Illinois at Urbana-Champaign, Urbana, IL, USA*
- 2:30 PM Break
- 2:45 PM **S23** Biosynthesis of  $\beta$ -amino acid containing macrolactam antibiotics  
*Fumitaka Kudo, Tokyo Institute of Technology, Tokyo, Japan*
- 3:15 PM **S24** Discovery of a PLP-dependent transaldolase and monooxygenase-decarboxylase involved in capuramycin biosynthesis  
*Steven G. Van Lanen, University of Kentucky, Lexington, KY, USA*
- 3:45 PM **S25** N-terminal nucleophile-hydrolase activity of gamma-glutamyltranspeptidase homologs in Actinobacteria for carbon-carbon bond cleavage  
*Guannan Zhong and Wen Liu, Shanghai Institute of Organic Chemistry, Shanghai, China*
- 4:15 PM **S26** Unusual enzyme reactions in fungal meroterpenoid biosynthesis  
*Ikuro Abe, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan*  
 - Downloadable files available

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