

## Synthetic Biology approaches and its applications

18 November 2022, Hybrid meeting

Venue: University of Osaka, Department of Biotechnology

Zoom link:

Time: November 18 03:00 PM JST / 06:00 AM GMT

Join a ZOOM meeting:

<https://us02web.zoom.us/j/84549257043?pwd=Nk9hUzhWM2Y1d1ZERFRFaWxjSEtydz09>

Meeting ID: 845 4925 7043

Passcode : 057136

UKRI (UK Research and Innovation), BBSRC UK-Japan partnering award sponsored  
University Osaka, Department of Engineering, Bioresource Engineering Laboratory, Prof E Fukusaki  
University of Manchester, Manchester Institute of Biotechnology, Prof E Takano

- 15:00-15:30 **Keynote: Ikuro Abe**, Graduate School of Pharmaceutical Sciences, The University of Tokyo,  
*"Unusual Enzyme Reactions in Natural Product Biosynthesis"*
- 15:30-15:45 **Francesco Del Carratore**, Department Chemistry, MIB, The University of Manchester  
*"Computational methods for systems and synthetic biology"*
- 15:45-16:05 **Sastia Putri**, Department of Biotechnology, Graduate School of Engineering, University of  
Osaka  
*"Metabolomics-driven approach for microbial strain improvement"*
- 16:05-16:25 **Daisuke Kiga**, Department of Electrical Engineering and Bioscience, Waseda University  
*"Directed evolution of proteins using engineered genetic codes"*
- 16:25-16:45 **Andrew Pitt**, Department Chemistry, MIB, The University of Manchester  
*"Lipids, proteins and high throughput screening: mass spectrometry for biotechnology"*
- 16:45-16:55 Break
- 16:55-17:15 **Hiroyasu Onaka**, Department of Biotechnology, Graduate School of Agricultural and Life  
Sciences, University of Tokyo  
*"RiPPs: ideal compounds for drug discovery of medium molecular weight compounds"*
- 17:15-17:30 **Jack Connolly**, Department Chemistry, MIB, The University of Manchester  
*"Harnessing intercellular signals to engineer the soil microbiome"*
- 17:30-17:50 **Shuichi Shimma**, Department of Biotechnology, Graduate School of Engineering, University  
of Osaka  
*"Mass Spectrometry Imaging - Application in medical sciences and microbe analysis"*
- 17:50-18:05 **Erik Hanko**, Department Chemistry, MIB, The University of Manchester  
*"Development of novel and optimised biosynthesis pathways by integrating retrosynthesis  
and rapid prototyping approaches"*

18:05-18:35 *Keynote: **Akihiko Kondo**, Graduate School of Science, Technology and Innovation, Kobe University*  
*“Development of biofoundry platform for rapid construction of microbial cell factories”*

