

Multiscale biofabrication for sustainability and 'engineering' biology

Prof Shery Huang

Professor of Bioengineering, Department of Engineering
co-Director of EPSRC CDT Sensor Technology, University of Cambridge

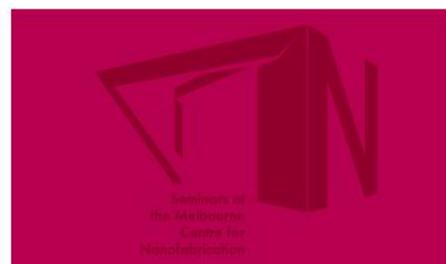
11:00am, 06/02/2026

Melbourne Centre for Nanofabrication

151 Wellington Road, Clayton, 3168

Zoom link: [click here](#)

Meeting ID: 852 6793 0566 and passcode: 584987



Multiscale biofabrication for sustainability and 'engineering' biology

Prof Shery Huang
Department of Engineering
University of Cambridge
Email: yysh2@cam.ac.uk



Abstract: The impact of technology on the life science and biomedical field has been truly remarkable. Whilst these innovations have direct health and economic benefits in the near and intermediate terms, current life science discovery and medical research development could be resource and carbon intensive, which might not be sustainable in the long term. This presentation will illustrate my group's research work on three themes (i) organ-on-a-chip, organoid, tumoroid bioassembly; (ii) 3D printing of soft and biological materials; and (iii) fibre biofabrication for wearable sensors and bioelectronics. I will also discuss an outlook on how multiscale biofabrication can be harnessed to broaden the impacts of system 'engineering biology' - through creating more complex in vitro models, and to make sustainable e-textile or imperceptible bioelectronic interfaces for living systems.



About the speaker:

Shery Huang is Professor of Bioengineering, at Department of Engineering, and co-Director of EPSRC CDT Sensor Technology, University of Cambridge. She is a recipient of BioMedEng Innovation Award, and a fellow of the Institute of Fellow of the Institute of Materials, Minerals and Mining. She holds editorial roles at ACS Applied Materials and Interfaces, Bioactive Materials, and Biodesign and Manufacturing.