Organ-on-a-Chip Technologies Network Session

5 September 2019

BioMedEng19, Imperial College London

Programme

	8.30 – 9.30: BioMedEng19 Conference Registration, Queens Tower Rooms, Sherfield Building See BioMedEng19 programme for welcome ceremony, plenary session and rapid fire presentations https://www.biomedeng19.com/conference-schedule
11.15	Network update: Hazel Screen, OOACT Network Director/QMUL
11.23	Organ on a Chip Technologies Network Sabbatical Projects Chair: Martin Knight, QMUL (12 minute presentation + 4min Q&A): Next-Generation Material for high-volume production of Sustainable, Biocompatible Organ-On-Chip devices **Presenter:** Alfredo Ongaro, Heriot-Watt University Development of an immune-responsive 3D skin model **Presenter:** Ana Laly Aguedo, Queen Mary University of London Microfluidic model of human pulmonary artery: vascular cell positioning under flow **Presenter:** Beata Wojciak Stothard, Imperial College London Transcriptional development of human primary osteocytes in a 3D bone organ **Presenter**: Philippa Hulley, University of Oxford Development of vascular models on chips **Presenter:** Julien Gautrot, Queen Mary University of London **Room: EEE 509,** Electrical and Electronic Engineering Building
12.45	Lunch, BioMedEng19 posters & Networking **Queens Tower Room,** Sherfield Building

13.45	Organ-on-a-Chip Technologies Special Interest Groups Chair: Hazel Screen, **Public engagement project update** (12 mins) Paul Holloway, University of Oxford Reviews: 2min presentations: **Neurovascular disease on a chip** Paul Holloway, University of Oxford **Newly Emerging Technology for OOAC** Blerina Ahmetaj, Imperial College London **Commercially available OOAC platforms** Virginia Pensabene, University of Leeds Special Interest Groups: 5 - 8 min presentations: **Commercially available OOAC platforms** Malcolm Haddrick, Medicines Discovery Catapult **Brain on a chip** Paul Holloway, University of Oxford **Label free real-time monitoring – translation to OOAC model** Pierre Bagnaninchi, University of Edinburgh **Patient involvement in OOACT** Blerina Ahmetaj, Imperial College London Followed by round table discussions including the above subjects. **Room: EEE 509**
15.00	BioMedEng19 Poster session, tea & coffee break **Queens Tower Room,** Sherfield Building
15.30	Organ on a chip & artificial organs **Keynote speaker:** Professor Fran Balkwill, Queen Mary University of London Vivek Thacker, EPFL,- 'Lung-on-a-chip microtechnologies for studies of host-pathogen interactions in Tuberculosis' Dharaminder Singh,CN-bio, - 'Microfluidic enabled in vitro analysis of the PK/PD/efficacy relationship of PI3K inhibitors' Alexander J Ainscough, Imperial College London, - 'Modelling Pulmonary Arterial Hypertension using the pulmonary artery-on-a-chip' Nuria Roldan, AlveoliX, - 'Mirroring the alveolus in vitro: applications of a human breathing alveolus-on-chip' Roisin M Owens, University of Cambridge, - 'A 3D bioelectronics model of the gut-brain axis' **Room: EEE 509,** Electrical and Electronic Engineering Building
17.00	**Plenary session:** David Hughes, CEO, CN Bio **Great Hall,** Sherfield Building