

An NC3Rs/BBSRC Symposium – Tissue engineering: a new dimension to animal replacement

1 – 2 April 2009, Central London – Venue to be confirmed

Agenda

Day One – 1 April 2009			
	13.00 – 14.00	REGISTRATION and COFFEE	
Chair: Professor Sheila MacNeil, University of Sheffield	Introduction	14.00 – 14.10	Welcome and introduction <i>Professor Sheila MacNeil, University of Sheffield</i>
		14.10 – 14.20	Introduction to the NC3Rs <i>Dr Anthony Holmes, NC3Rs</i>
		14.20 – 15.00	Keynote : Translation and commercialisation of tissue engineered products <i>Dr Stefan Przyborski, Reinnervate Ltd.</i>
	Session 1 – Commercial application of tissue engineering	15.00 – 15.25	Use of 3D and stem cell organotypic CNS models in drug discovery <i>Professor Lars Sundstrom, Capsant</i>
		15.25 – 15.45	COFFEE
		15.45 – 16.10	Liver test systems: 3D liver cell model and vascularized liver cell module <i>Professor Heike Mertsching, Fraunhofer Institute for Interfacial Engineering and Biotechnology</i>
		16.10 – 16.35	A multi-chamber bioreactor system for disease modelling, toxicity screening, and stem cell research <i>Dr J Malcolm Wilkinson, Kirkstall Ltd.</i>
		16.35 – 17.00	Developing a 3D tissue engineering model of the human lung for safety testing <i>Dr Kelly Berube, Cardiff University</i>
		17.00 – 17.20	Closing remarks
	17.30 – 21.00	POSTER VIEWING and BUFFET DINNER	
Day Two – 2 April 2009			
Chair: Professor Eileen Ingham, University of Leeds	Session 2 – Tissue engineered models of disease	09.00 – 09.40	Keynote : Tissue engineered approaches to modelling the nervous system <i>Dr James Phillips, The Open University</i>
		09.40 – 10.05	The development of an in vitro model of CNS injury to identify factors which promote repair <i>Professor Sue Barnett, University of Glasgow</i>
		10.05 – 10.30	A tissue engineered model of osteoarthritis <i>Dr Ali Mobasher, University of Nottingham</i>
		10.30 – 11.00	COFFEE
		11.00 – 11.25	Using a novel three-dimensional cell culture model to investigate sepsis-induced renal failure <i>Professor Tom Evans, University of Glasgow</i>
		11.25 – 11.50	Development of a cell-based diabetic wound bioassay <i>Professor Phil Stephens, Cardiff University</i>

		11.50 – 12.15	Tissue engineered oral mucosa: a multi-faceted tool for studying oral health and disease <i>Professor Martin Thornhill, University of Sheffield</i>
		12.15 – 13.15	LUNCH
Chair: Dr Vivek Mudera, University College London	Session 3 – Poster presentations	13.15 – 13.30	Selected oral poster presentation <i>TBC</i>
		13.30 – 13.45	Selected oral poster presentation <i>TBC</i>
		13.45 – 14.00	Selected oral poster presentation <i>TBC</i>
		14.00 – 14.15	Selected oral poster presentation <i>TBC</i>
	Session 4 – Stem cells and tissue engineering	14.15 – 14.35	Keynote: Opportunities and challenges in the use of stem cells in early drug development <i>Dr Philip Wright, Stem Cells for Safer Medicines</i>
		14.35 – 14.55	COFFEE
		14.55 – 15.20	Human IPS cell models of Huntington’s disease <i>Dr Nick Allen, Cardiff University</i>
		15.20 – 15.45	Use of cardiomyocytes derived from human embryonic stem cells for safety assessment <i>Dr Peter Sartipy, Cellartis AB</i>
		15.45 – 16.10	Generation of three dimensional tissue structures with targeted gene deletions using mesenchymal stem cells <i>Dr Paul Genever, University of York</i>
		16.10 – 16.35	Keynote: Tissue engineering, challenges and opportunities for product exploitation <i>Professor Dame Julia Polak, Imperial College London</i>
		16.35 – 16.45	CLOSE

Please note that this programme is subject to change