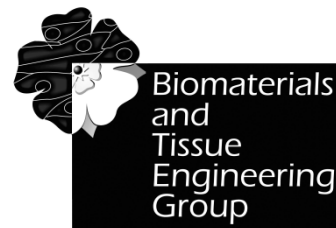


Biomaterials & Tissue Engineering Group
22nd Annual White Rose Work in Progress Meeting



Thursday 17th December 2020
Virtual Online Event
Hosted by the University of Leeds

PROGRAMME

TIME	SPEAKER	TITLE
9:15-9.50	JOINING OF DELEGATES TO ONLINE CONFERENCE	
9.50-10.00	Welcome by Dr Anthony Herbert, University of Leeds	
	Session 1: Chair - TBC	
10:00-10:15	Joe Woodley	Understanding fibroblast behaviour in 3D fibrous biomaterials
10:15-10:30	David Ramos	The inclusion of microtopographical cues in electrospun scaffolds to mimic the rete ridges stem cell microenvironment
10:30-10:45	David Alexander Gregory	3D printing of Polyhydroxyalkanoates for biomedical applications
10:45-11:00	Caroline Taylor	Aligned Polyhydroxyalkanoate Blend Fibres for Peripheral Nerve Repair
11:00 - 11:30	TEA/COFFEE AND POSTER PITCHES 1-5	
	Session 2: Chair - TBC	
11:30-12:00	Zhan Yuin Ong	Bioinspired Design of Monodisperse Nanomedicines for Stimuli-Responsive Drug Delivery Applications
12:00-12:15	Amy Harding	Determination of chemical sensitising potential using a defined gene signature set using tissue-engineered human skin equivalents
12:15-12:30	Megan Sharrock	Haemarthrosis in Haemophilia: A Proposed Pathway for the Multifactorial Pathogenesis of Blood-Induced Arthritis
12:30-13:00	Inmaculada Barragan Vazquez	Development of an in vitro immunocompetent human tissue-engineered model of atopic dermatitis
13:00-14:00	LUNCH AND POSTER PITCHES 6-12	
14:00-14:30	Plenary Talk: Redefining Identity of Disease, Tissues and Cells – a Biomaterials Paradigm Professor Abhay Pandit Director, CÚRAM - SFI Research Centre for Medical Devices; National University of Ireland; Galway, Ireland	
	Session 3: Chair - TBC	
14:30-14:45	Daniel White	A PhD from the Kitchen: Design and Fabrication of a Novel Gel Electrophoresis System for Gene-Activated Matrix Production
14:45-15:00	Samuel Higginbotham	Can Myofibroblast Differentiation be Reversed with Secreted Factors from Adipose Tissue?
15:00-15:30	TEA/COFFEE AND POSTER PITCHES 13-17	
	Session 4: Chair - TBC	
15:30-15:45	Kern Cowell	Development and initial testing of a novel automated decellularisation system
15.45-16:00	Debora Morgante	Onlay grafts of acellular matrix to augment the peri-urethral tissue bed for hypospadias repair
16:00-16:15	Patrick Statham	Permeabilising decellularised osteochondral scaffolds for improved chondrocyte penetration

16:15-16:30	Carmen Piras	Self-assembled multicomponent microgels for biological applications
16:30-16:45	Prizes and presentations	
16:45	CLOSE	

POSTER PITCHES

POSTER	PRESENTER	TITLE
1	William Sanderson	Lack of Standardisation in Mechanical Testing of the Patella Tendon: A Review and Guide
2	Lakshmi Tripathi	Optimisation and Characterisation of Bacterial Cellulose produced by <i>Gluconacetobacter xylinus</i>
3	Emmanuel Asare	A next generation bioinspired device for effective peripheral nerve regeneration
4	Annabelle Fricker	Cardiovascular Tissue Engineering using Natural Polymers
5	Ana Sandoval-Castellanos	Delivery of immobilised NGF and BDNF via a bioactive surface to enhance neurite outgrowth
6	Alexander Boyadjiev	Development of Technologies to Support the Robust and Reproducible Growth of Complex Bioengineered Human Skin Equivalents
7	Ana Jimenez-Franco	Drop-on-demand inkjet printing of self-assembled peptide on regenerated silk fibroin surfaces to promote cell attachment and proliferation
8	Asma El Howati	Development of a multi-cellular tissue engineered model of oral lichen planus
9	Syed Mohammad Daniel Syed Mohamed	Kidney Tissue Engineering using Polyhydroxyalkanoates
10	Jonathan Hinchliffe	Semi-artificial pancreas for the treatment of Type 1 diabetes: Perspectives, challenges and solutions
11	Laetitia Raynal	Increasing the potency of biomaterials for tissue growth
12	Nicholas Rose	A Dynamic Biomaterial-ligand Tethering Strategy for Tissue Engineering
13	Fahad Alhamoudi	The HA Particle size and quantity effect on the chemical and Biological Behaviour of Polyurethane and hydroxyapatite scaffolds
14	Jacqueline Solis	Modification of Decellularisation Methods to Assess the Effects of Swelling on the Mechanical Properties of Porcine Tendon
15	Jake Edmans	Delivery of Therapeutic Fab Antibody Fragments for the Treatment of Oral Mucosal Inflammatory Diseases Using Electrospun Polymer Patches
16	Kern Cowell	The development of a 20-year economic model for the cost-effectiveness analysis of using decellularised bone versus fresh-frozen allograft as an acetabular impaction bone graft during a revision hip arthroplasty
17	Sara Memarpour Hobbi	Native nerve cell-derived extracellular matrix for peripheral nerve regeneration