

Future Leaders in Regenerative Medicine: Joint Conference CDTs and UKSB 15th-17th June 2021

DAY 1

09:15	Arrival online and admittance to conference	
09:30	Welcome: Prof Matthew Dalby (Director, EPSRC-SFI Joint Centre for Doctoral Training in Engineered Tissues for Discovery, Industry and Medicine)	
09:40-10:25	Keynote speaker: Dr Núria Montserrat Pulido, ICREA Research Professor at the Institute for Bioengineering of Catalonia University (IBEC). Title: TBC	
10:25-10:35	Move to sessions using breakout rooms (10 min break)	
10:35-12:00	<p>Cell and Gene Therapies</p> <p>Chairs: Mirella Ejiugwo and Aleksandar Atanasov</p> <p>Patrick Stratham: Recellularising Decellularised Osteochondral Scaffolds for Cartilage Tissue Engineering</p> <p>Naomi Phillips: Investigating the Molecular Identity of Cardiac Progenitor Cells for Applications In Heart Disease</p> <p>Lydia Beeken: Assessing the Therapeutic Potential of Corneal Mesenchymal Stem Cells for Ocular Surface Disorders</p> <p>Matthew Sullivan: Creation of A Linear Covalently-Closed Hairpin Expression Construct Capable of Effective Gene Transfer Within A Gene Activated Matrix (Gam)</p> <p>Roxana Sava: Developing a Potential Combination Therapy for Ischaemic Stroke Using Hydrogel-Delivered Therapeutic Proteins</p> <p>Poster flashes: Sebastian Doherty-Boyd Rebecca Davies</p>	<p>Bioengineered Models 1</p> <p>Chair: Elliot Croft and Ahranee Canden</p> <p>Hannah Lamont: Development of an <i>in vitro</i> 3D Trabecular Meshwork Model</p> <p>Devon Crouch: Cryo-Electrospinning with Poly(E-Caprolactone) Supports Trabecular Meshwork Cell Attachment and Infiltration</p> <p>Hugo Bell: Comparing Strut-Based and Sheet-Based Designs in Scaffolds to Enhance Osteoblastogenesis</p> <p>Nicola Contessi Negrini: Bioorthogonal Crosslinking and Adhesion of Gelatin Hydrogels</p> <p>Poster flashes: Eileen Reidy Caitlin Jackson Jessica Wiseman Lauren Hope Idris Kalokoh Maria Laura Vieri</p>
12:00-14:00	Break followed by Poster Viewing and Networking via Gather town: Student will be virtually standing next to their poster.	

DAY 2

09:15	Arrival online and admittance to conference	
09:30	Welcome: Prof Matthew Dalby (Director, EPSRC-SFI Joint Centre for Doctoral Training in Engineered Tissues for Discovery, Industry and Medicine)	
09:35-10:20	Keynote speaker: Christine-Maria Horejs, PhD. Chief Editor at Nature. Title: Scientific writing and publishing – insights from a Nature editor	
10:20-10:30	Move to sessions using breakout rooms (10 min break)	
10:30-12:00	Clinical Advances and Patient Benefits of Applications	Enabling technologies
	<p>Chair: Louise Hopkinson and Graeme Pitt</p> <p>Sandra Grañana Castillo: In Silico Modelling for the Prediction of Drug Drug Interactions</p> <p>Lisa Duff: A Methodological Framework for AI-Assisted Diagnosis of Active Aortitis Using Radiomic Analysis of FDG PET-CT</p> <p>Ralph Murphy: Targeting and Refining Peripheral Nerve Injury Treatment and Development of Novel Outcome Measures</p> <p>Trisha Vikranth: Decellularised Pleural Membrane Patches for Prolonged Alveolar Air Leaks</p> <p>Kathryn Malpas: Unravelling Chitinase-Like Proteins Role in Tissue Remodeling and Regeneration</p> <p>Poster flashes: Beatriz (Jacqueline) Solis Davide Verdolino Rebecca Hanson Kathryn Dickins Raissa Barroso</p>	<p>Chair: Lisa Duff and Mitra Soorani</p> <p>Naomi Northage: Efficacy of Plasma Activated Water Disinfection of Flexible Endoscopes</p> <p>Kern Cowell: Further Development and Testing of a Novel Automated Decellularisation System</p> <p>Soraya Williams: Comparison of Extracellular Vesicle Isolation Processes for Applications in Skeletal Muscle Tissue Engineering</p> <p>Liam Johnson: Printed, Skin-Compliant Electrophysiology Electrodes for the Mouse Model</p> <p>Elfriede Derrer-Merk: Mitigating Social Connectivity and Support Paradox Through Technology for Older Adults During the Covid-19 Pandemic</p> <p>Francesco Bacchi: A Label-Free Biophysical Assay for QC on 3D Cell Cultures</p> <p>Poster flashes: Lynsey Steel Gregor Mack Kieran Davies</p>
12:00-14:00	Break followed by Poster Viewing and Networking via Gather town: Student will be virtually standing next to their poster.	



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09:35-10:20	Keynote speaker: Dr Eileen Gentleman, Reader in Bioengineering at Kings College London. Title: Modular Hydrogels in Organoid-Based Disease Modelling	
10:20-10:30	Move to sessions using breakout rooms (10 min break)	
10:30-12:10	Material Nanopatterning and Properties	Bioengineered Models 2
	<p>Chair: Miguel Ferreira and Lauren Hope</p> <p>Lydia Styliani Marinou: Advanced Bioactive Coating for the Bio-Integration of Synthetic Vascular Grafts</p> <p>Joseph Barnes: Design, Manufacture and Characterisation of a Dual Antimicrobial-Osteoinductive 'Bone Wrap'</p> <p>Matthew Culbert: Advancing Peptide Hydrogels for Intervertebral Disc Repair</p> <p>Mitra Soorani: Molecular Dynamics Simulations of Bioactivity Changes Associated with the Incorporation of Copper In Silicate-Based Glasses For Tissue Engineering</p> <p>Graeme Pitt: Antimicrobial Coatings for the Prevention of Catheter-Associated Urinary Tract Infections</p> <p>Poster flashes: Marcin Gwiazda Thomas Jepson Dominic Mosses</p>	<p>Chair: Devon Crouch and Elaine Ma</p> <p>Leona Ogene: Graphene Based Bioinks for 3D Orienting Bioactive Articular Cartilage Implants</p> <p>Kirsten Liggat: Novel Models of Mammalian Wound Healing and Regeneration</p> <p>Elliot Croft: Dissolving Microneedle Arrays: Effect of Polymer Composition on Physiochemical Properties</p> <p>Kirsty Rooney: Investigation of Hnf1b-Associated Renal Disease in A Human Kidney Organoid Model</p> <p>Annamarija Raic: Round, Reliable Cell Spheroids for Reproducible Cell-Based Assays</p> <p>Poster flashes: Aleksandar Atanasov Rachel Furnidge Chanelle McGuinness Laurissa Havins Rebecca Steele Ibrahim Erbay</p>
12:00-13:15	Break followed by Poster Viewing and Networking via Gather town: Student will be virtually standing next to their poster.	
13:15	Closing session	
14:00	<p>Chair: Dr Paul Roach</p> <p>Gabriel Harrington: Reproducible Research: Why Should We Care?</p> <p>Bioactive Materials Journal: Dr Yang Liu</p> <p>Award of Prizes and Close</p>	