

## Future Leaders in Regenerative Medicine: Joint Conference CDTs and UKSB 15<sup>th</sup>-17<sup>th</sup> June 2021

### DAY 1

09:15	<b>Arrival online and admittance to conference</b> <b>Zoom link:</b> <a href="#">Future Leaders in Regenerative Medicine: Joint CDT and UKSB Conference</a> <b>Meeting ID:</b> 914 7557 8436, <b>Passcode:</b> 727658	
09:30	<b>Welcome:</b> Prof Matthew Dalby (Director, EPSRC-SFI Joint Centre for Doctoral Training in Engineered Tissues for Discovery, Industry and Medicine)	
09:40-10:25	<b>Keynote speaker:</b> Dr Núria Montserrat Pulido, ICREA Research Professor at the Institute for Bioengineering of Catalonia University (IBEC). Title: How to Engineer human pluripotent stem cells to model tissue development and disease	
10:25-10:35	<b>Move to sessions using breakout rooms (10 min break)</b>	
10:35-12:00	<p><b>Cell and Gene Therapies</b></p> <p><b>Chairs:</b> Mirella Ejiugwo and Aleksandar Atanasov</p> <p><b>Patrick Stratham:</b> Recellularising Decellularised Osteochondral Scaffolds for Cartilage Tissue Engineering</p> <p><b>Naomi Phillips:</b> Investigating the Molecular Identity of Cardiac Progenitor Cells for Applications In Heart Disease</p> <p><b>Lydia Beeken:</b> Assessing the Therapeutic Potential of Corneal Mesenchymal Stem Cells for Ocular Surface Disorders</p> <p><b>Matthew Sullivan:</b> Creation of A Linear Covalently-Closed Hairpin Expression Construct Capable of Effective Gene Transfer Within A Gene Activated Matrix (Gam)</p> <p><b>Roxana Sava:</b> Developing a Potential Combination Therapy for Ischaemic Stroke Using Hydrogel-Delivered Therapeutic Proteins</p> <p><b>Poster flashes:</b> Sebastian Doherty-Boyd Rebecca Davies</p>	<p><b>Bioengineered Models 1</b></p> <p><b>Chair:</b> Elliot Croft and Ahranee Canden</p> <p><b>Hannah Lamont:</b> Development of an <i>in vitro</i> 3D Trabecular Meshwork Model</p> <p><b>Devon Crouch:</b> Cryo-Electrospinning with Poly(E-Caprolactone) Supports Trabecular Meshwork Cell Attachment and Infiltration</p> <p><b>Hugo Bell:</b> Comparing Strut-Based and Sheet-Based Designs in Scaffolds to Enhance Osteoblastogenesis</p> <p><b>Nicola Contessi Negrini:</b> Bioorthogonal Crosslinking and Adhesion of Gelatin Hydrogels</p> <p><b>Poster flashes:</b> Eileen Reidy Caitlin Jackson Jessica Wiseman Lauren Hope Idris Kalokoh Maria Laura Vieri</p>
12:00-14:00	<b>Break followed by Poster Viewing and Networking via Gather town:</b> <a href="https://gather.town/app/3j1kvU0B2S3qVyOC/JointCDTConference2021">https://gather.town/app/3j1kvU0B2S3qVyOC/JointCDTConference2021</a> Student will be virtually standing next to their poster.	

**DAY 2**

09:15	<b>Arrival online and admittance to conference</b> <b>Zoom link:</b> <a href="#">Future Leaders in Regenerative Medicine: Joint CDT and UKSB Conference</a> <b>Meeting ID:</b> 914 7557 8436, <b>Passcode:</b> 727658	
09:30	<b>Welcome:</b> Prof Abhay Pandit (Deputy Director, EPSRC-SFI Joint Centre for Doctoral Training in Engineered Tissues for Discovery, Industry and Medicine)	
09:35-10:20	<b>Keynote speaker:</b> Christine-Maria Horejs, PhD. Chief Editor at Nature. <b>Title:</b> Scientific writing and publishing – insights from a Nature editor	
10:20-10:30	<b>Move to sessions using breakout rooms (10 min break)</b>	
10:30-12:00	<b>Clinical Advances and Patient Benefits of Applications</b>	<b>Enabling technologies</b>
	<p><b>Chair:</b> Louise Hopkinson and Graeme Pitt</p> <p><b>Ralph Murphy:</b> Targeting and Refining Peripheral Nerve Injury Treatment and Development of Novel Outcome Measures</p> <p><b>Sandra Grañana Castillo:</b> In Silico Modelling for the Prediction of Drug Interactions</p> <p><b>Lisa Duff:</b> A Methodological Framework for AI-Assisted Diagnosis of Active Aortitis Using Radiomic Analysis of FDG PET-CT</p> <p><b>Trisha Vikranth:</b> Decellularised Pleural Membrane Patches for Prolonged Alveolar Air Leaks</p> <p><b>Kathryn Malpas:</b> Unravelling Chitinase-Like Proteins Role in Tissue Remodeling and Regeneration</p> <p><b>Poster flashes:</b> Beatriz (Jacqueline) Solis Davide Verdolino Rebecca Hanson Kathryn Dickins Raissa Barroso</p>	<p><b>Chair:</b> Miguel Ferreria and Mitra Soorani</p> <p><b>Naomi Northage:</b> Efficacy of Plasma Activated Water Disinfection of Flexible Endoscopes</p> <p><b>Kern Cowell:</b> Further Development and Testing of a Novel Automated Decellularisation System</p> <p><b>Soraya Williams:</b> Comparison of Extracellular Vesicle Isolation Processes for Applications in Skeletal Muscle Tissue Engineering</p> <p><b>Liam Johnson:</b> Printed, Skin-Compliant Electrophysiology Electrodes for the Mouse Model</p> <p><b>Elfriede Derrer-Merk:</b> Mitigating Social Connectivity and Support Paradox Through Technology for Older Adults During the Covid-19 Pandemic</p> <p><b>Francesco Bacchi:</b> A Label-Free Biophysical Assay for QC on 3D Cell Cultures</p> <p><b>Poster flashes:</b> Lynsey Steel Gregor Mack Kieran Davies</p>
12:00-14:00	<b>Break followed by Poster Viewing and Networking via Gather town:</b> <a href="https://gather.town/app/3j1kvU0B2S3qVyOC/JointCDTConference2021">https://gather.town/app/3j1kvU0B2S3qVyOC/JointCDTConference2021</a> Student will be virtually standing next to their poster.	

**DAY 3**

09:15	<b>Arrival online and admittance to conference</b> <b>Zoom link:</b> <a href="#">Future Leaders in Regenerative Medicine: Joint CDT and UKSB Conference</a> <b>Meeting ID:</b> 914 7557 8436, <b>Passcode:</b> 727658	
09:30	<b>Welcome:</b> Prof Manuel Salmeron-Sanchez (Deputy Director, EPSRC-SFI Joint Centre for Doctoral Training in Engineered Tissues for Discovery, Industry and Medicine)	
09:35-10:20	<b>Keynote speaker:</b> Dr Eileen Gentleman, Reader in Bioengineering at Kings College London. <b>Title:</b> Modular Hydrogels in Organoid-Based Disease Modelling	
10:20-10:30	<b>Move to sessions using breakout rooms (10 min break)</b>	
10:30-12:10	<b>Material Nanopatterning and Properties</b>	<b>Bioengineered Models 2</b>
	<p><b>Chair:</b> Lisa Duff and Lauren Hope</p> <p><b>Lydia Styliani Marinou:</b> Advanced Bioactive Coating for the Bio-Integration of Synthetic Vascular Grafts</p> <p><b>Joseph Barnes:</b> Design, Manufacture and Characterisation of a Dual Antimicrobial-Osteoinductive 'Bone Wrap'</p> <p><b>Matthew Culbert:</b> Advancing Peptide Hydrogels for Intervertebral Disc Repair</p> <p><b>Mitra Soorani:</b> Molecular Dynamics Simulations of Bioactivity Changes Associated with the Incorporation of Copper In Silicate-Based Glasses For Tissue Engineering</p> <p><b>Graeme Pitt:</b> Antimicrobial Coatings for the Prevention of Catheter-Associated Urinary Tract Infections</p> <p><b>Poster flashes:</b> Marcin Gwiazda Thomas Jepson Dominic Mosses</p>	<p><b>Chair:</b> Devon Crouch and Elaine Ma</p> <p><b>Leona Ogene:</b> Graphene Based Bioinks for 3D Orienting Bioactive Articular Cartilage Implants</p> <p><b>Kirsten Ligat:</b> Novel Models of Mammalian Wound Healing and Regeneration</p> <p><b>Elliot Croft:</b> Dissolving Microneedle Arrays: Effect of Polymer Composition on Physiochemical Properties</p> <p><b>Kirsty Rooney:</b> Investigation of Hnf1b-Associated Renal Disease in A Human Kidney Organoid Model</p> <p><b>Annamarija Raic:</b> Round, Reliable Cell Spheroids for Reproducible Cell-Based Assays</p> <p><b>Poster flashes:</b> Aleksandar Atanasov Rachel Furnidge Chanelle McGuinness Laurissa Havins Rebecca Steele Ibrahim Erbay</p>
12:00-13:15	<b>Break followed by Poster Viewing and Networking via Gather town:</b> <a href="https://gather.town/app/3j1kvU0B2S3qVyOC/JointCDTConference2021">https://gather.town/app/3j1kvU0B2S3qVyOC/JointCDTConference2021</a> Student will be virtually standing next to their poster.	
13:15-14:00	<b>Closing session</b>	
	<p><b>Chair:</b> Dr Paul Roach</p> <p><b>Gabriel Harrington:</b> Reproducible Research: Why Should We Care?</p> <p><b>Bioactive Materials Journal:</b> Dr Yang Liu</p> <p><b>Award of Prizes and Close</b></p>	