



Tissue & Cell Engineering Society Conference

June 18-20th 2025



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Welcome from the Conference Chair

Dear delegates,

It is my great pleasure to be chairing **TCES 2025**, and on behalf of the local organizing committee, I take this opportunity to warmly welcome you all to the city of Bristol this June. We have chosen to host this meeting in the **City Hall**, a Bristol landmark at the bottom of the historic Park Street, sitting adjacent to the beautiful College Green and Bristol Cathedral. We hope that this setting provides an inspiring backdrop for three exciting days of science!

I would like to extend our heartfelt thanks to our distinguished keynote speakers, Professor **Marcy Zenobi Wong**, Professor **Alvaro Mata**, Professor **Vivian Li**, and Professor **Massimo Caputo**. They each bring a wealth of experience across our four themes: enabling technologies, advanced biomaterials, *in vitro* modelling, and clinical tissue engineering, and we are looking forward to hearing their latest discoveries! This year, we have also invited a previous recipient of the TCES Robert Brown Award, Dr **Sam Moxon**, who will deliver a keynote talk on his journey in academia and industry. We hope that this will complement our meet-the-mentor initiative to provide guidance to our large network of early career researchers. We were delighted to see a large number of abstracts submitted by the tissue and cell engineering community – thank you to the **TCES Committee** and our **Scientific Advisory Board** for judging. We are very much looking forward to seeing all of this science on display in the form of podium talks and poster presentations.

Conferences are not all about the science though! We have made sure to build in plenty of breakout time to refuel with caffeine and snacks, and speak with other delegates. Please do also take this opportunity to engage with our sponsors and exhibitors, without whom the conference would not be possible. Last but not least, we have lined up two big networking events: an open drinks reception and DJ set at **Illuminati** on the 18th June and a ticketed dinner and social at the **Bristol Hotel** on the 19th June.

Looking forward to meeting you on the 18th June!

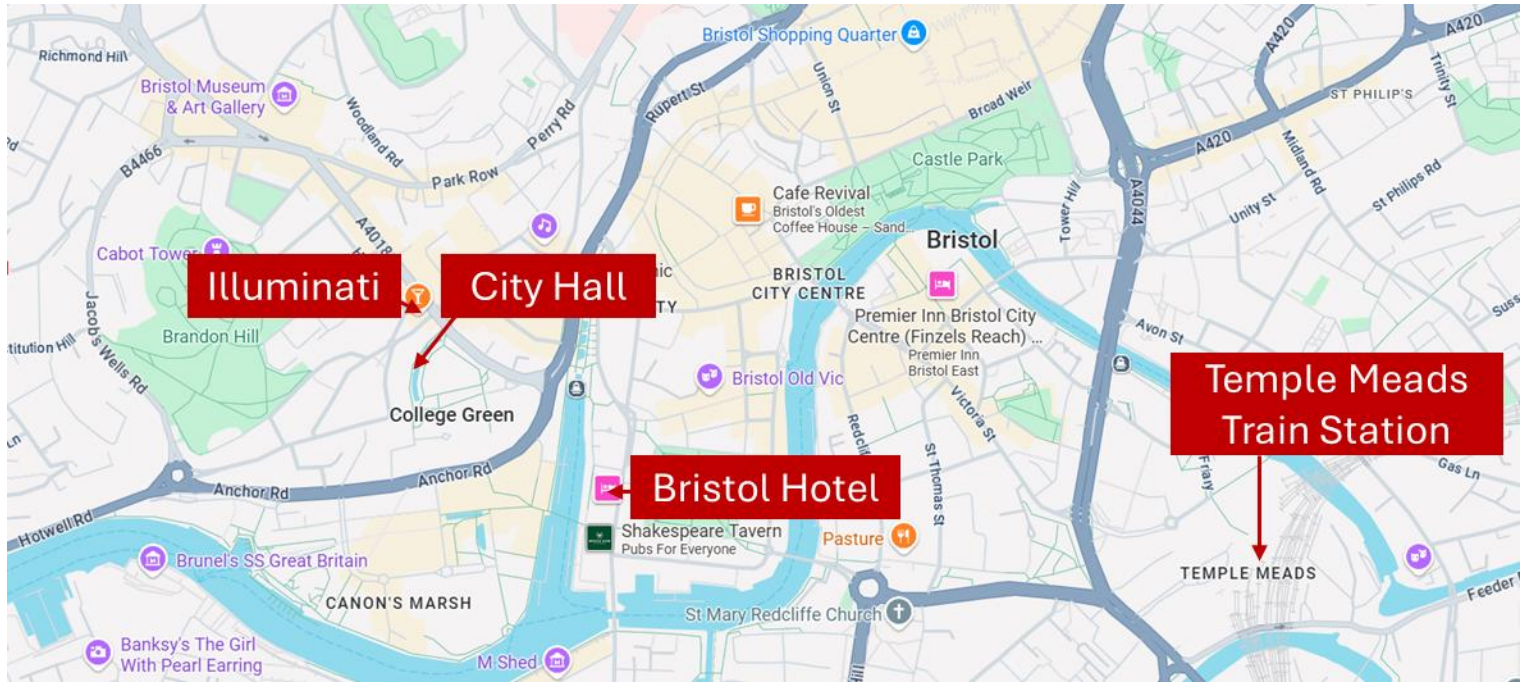


Dr James Armstrong

TCES 2025 Conference Chair

Venue Information

The venues are all located in central Bristol and in close proximity to Temple Meads Train Station. All scientific sessions will be held in the **City Hall** – to enter, please walk up the approach ramp opposite Unity Street and enter *via* the main entrance:



When entering through the main entrance, you will be in the **City Hall Foyer**, where registration will be held alongside posters and refreshments. Opposite the main entrance is the **Queen Elizabeth II Conference Hall**, which will have the scientific talks, exhibitors, posters, and refreshments. To the left of the main entrance is the **Lord Mayor's Reception Room**, in which food will be served. Toilet facilities are available at either end of the foyer.

Wednesday 18th June

12:00 – 13:20	Registration in the City Hall Foyer Lunch served in the Lord Mayor’s Reception Room Poster Set Up (Group 1) in the City Hall Foyer and Queen Elizabeth II Conference Hall	
SESSION 1: ENABLING TECHNOLOGIES - QUEEN ELIZABETH II CONFERENCE HALL Chairs: James Armstrong, Mina Aleemardani		
13:20 – 13:30	James Armstrong University of Bristol Sarah Cartmell University of Manchester	<i>Opening Remarks</i>
13:30 – 14:12	Marcy Zenobi-Wong ETH Zürich	<i>Keynote Talk:</i> Engineering tissues with architected scaffolds
14:12 – 14:24	Emily Atkinson University College London	An immunomodulatory encapsulation system promotes the survival of hiPSC-derived dopaminergic neurons against T cell-mediated death
14:24 – 14:36	Zahra Kafrashian Saarland University	Light-guided drug delivery: multimaterial waveguide biofabrication for remote bacteria activation
14:36 – 14:48	Ioanna Rigou University of Glasgow	Nanovibrational control for chondrogenic differentiation
14:48 – 14:54	Dammy Olayanju PeptiMatrix	<i>Sponsor Talk:</i> PeptiMatrix
14:54 – 15:00	Rania Deranieh Bright Biotech	<i>Sponsor Talk:</i> Bright Biotech
15:00 – 16:00	Refreshments & Posters (Group 1) in the City Hall Foyer and Queen Elizabeth II Conference Hall	
SESSION 2: ENABLING TECHNOLOGIES - QUEEN ELIZABETH II CONFERENCE HALL Chairs: Farnaz Ghorbani, Mina Aleemardani		
16:00 – 16:12	Mallica Pandya University College London	Engineering shape changing light-activated tissues
16:12 – 16:24	Sam Shorthouse University of Bristol	Development of an automated workflow for the characterization and ranking of neural organoid morphology
16:24 – 16:30	Matthew Reynolds Thermo Fisher Scientific	<i>Sponsor Talk:</i> Thermo Fisher Scientific
16:30 – 16:42	Tiangyang Liu University College London	Development of lipid nanoparticles to deliver mRNA into Schwann cells to facilitate nerve regeneration
16:42 – 16:48	Darren Heywood Promega	<i>Sponsor Talk:</i> Promega
16:48 – 17:00	Jinju Chen Loughborough University	Computational tissue engineering to predict cell-biomaterials interactions
17:00 – 17:20	Holly Gregory University College London	<i>Robert Brown Award Shortlist:</i> Delivery of small molecules and growth factors from microparticles and nanofibrous scaffolds for nervous system repair
17:30 – 19:00	Drinks & Buffet Reception & Meet the Mentor Event at Illuminati	
19:00 – 23:59	DJ Set and Dancefloor at Illuminati	

Thursday 19th June - Morning

SESSION 3: ADVANCED BIOMATERIALS - QUEEN ELIZABETH II CONFERENCE HALL

Chairs: Fengyuan Liu, Zhipeng Deng

09:00 – 09:42	Sam Moxon Aegis FibreTech LTD	<i>Keynote Talk:</i> From lab to launch: a journey from academia to advanced materials entrepreneurship
09:42 – 09:54	Laura Sabio University of Glasgow	Probiotic-based living materials with inducible antioxidant properties
09:54 – 10:00	Shaun Ryder, Aimee Parsons Merck Life Science	<i>Sponsor Talk:</i> Merck Life Science
10:00 – 10:12	Mingjing Zhang University College London	Systematic characterization of GPTMS-crosslinked chitosan, collagen, and hybrid scaffolds for cartilage tissue engineering
10:12 – 10:18	Akihiro Suto Nikon Healthcare UK	<i>Sponsor Talk:</i> Nikon Healthcare UK
10:18 – 10:30	Robert Owen University of Nottingham	Harnessing geometry to drive tissue formation in three-dimensions
10:30 – 11:10	Refreshments & Posters (Group 1) in the City Hall Foyer and Queen Elizabeth II Conference Hall	

SESSION 4: ADVANCED BIOMATERIALS - QUEEN ELIZABETH II CONFERENCE HALL

Chairs: Wael Kafienah, Zhipeng Deng

11:10 – 11:22	Nazia Mehrban University of Bath	Smart integrative biomaterials: from regenerative medicine to device envelopes
11:22 – 11:34	Merve Demir University of Nottingham	The re-creation of the intestinal epithelium using induced pluripotent stem cell derived progenitors and 3D bioprinting
11:34 – 11:46	Emma Jackson University of Glasgow	Magnetic hydrogels for bone tissue engineering
11:46 – 11:58	Anabela Moreira University College London	Engineering 3D cellular hydrogels to model dopaminergic neurodegeneration in Parkinson's disease
11:58 – 12:10	Shirin Nour University of Melbourne	The interplay between surface morphology and nanoscale ligand clustering for developing <i>in vitro</i> skeletal muscle tissue models and forming neuromuscular junctions
12:10 – 12:40	Annual General Meeting	Including details of the TCES 2026 Conference
12:40 – 13:15	Lunch served in the Lord Mayor's Reception Room Posters (Group 1) in the City Hall Foyer and Queen Elizabeth II Conference Hall	
13:15 – 13:50	Lunch served in the Lord Mayor's Reception Room Posters (Group 2) in the City Hall Foyer and Queen Elizabeth II Conference Hall	

Thursday 19th June - Afternoon

SESSION 5: ADVANCED BIOMATERIALS - QUEEN ELIZABETH II CONFERENCE HALL

Chairs: Deepali Pal, Norah-Jane Prendergast

13:50 – 14:32	Alvaro Mata University of Nottingham	<i>Keynote Talk:</i> Tissue engineering with bioinspired and biocooperative strategies
14:32 – 14:44	Kozim Midkhatov University of Manchester	Engineered topographically textured micromaterials modulate doxorubicin response in 3D osteosarcoma models: a design of experiments approach
14:44 – 14:56	Ayda Farhoudi University of Melbourne	Determining the geometric factors governing the growth of mesenchymal cells into a 3D structure
14:56 – 15:08	Fatmah Ghuloum University of Manchester	Mechanobiological insights into hedgehog signalling-mediated osteogenesis on engineered 3D topographies: a transcriptomic analysis and translational application
15:08 – 15:20	Andrew Johnston University of Edinburgh	Influence of shear stress on vascular cell types on electrospun scaffolds featuring modified fiber topography via a 3D printed bioreactor
15:20 – 16:00	Refreshments & Posters (Group 2) in the City Hall Foyer and Queen Elizabeth II Conference Hall	

SESSION 6: *IN VITRO* MODELS - QUEEN ELIZABETH II CONFERENCE HALL

Chairs: Oscar Cordero Llana, Norah-Jane Prendergast

16:00 – 16:12	Sneha Ravi University of Edinburgh	Development of a novel ureter model to investigate urinary tract infections
16:12 – 16:24	Eve Tipple University of Manchester	Development of <i>in vitro</i> bladder cancer models to investigate the effects of hypoxia on the tumour microenvironment
16:24 – 16:36	Emmanouela Mitta University College London	A systematic comparative evaluation of the therapeutic efficiency of novel proton beam and conventional photon radiotherapy on advanced multicellular 3D models of pancreatic cancer
16:36 – 16:48	Erly Raras Savitri University of Bristol	Generation of human iPSC-derived lung organoid as a model for SARS-CoV-2 infection
16:48 – 17:00	Kenza Sackho University of Surrey	Development and characterization of a 3D epicardial cardiac model
17:00 – 17:12	Rebecca Downs-Ford University of Manchester	3D bioprinting of bilayered skin models using dextran-based hydrogels
17:12 – 17:24	Meghna Suvarna University of Sheffield	Development of an in vitro 3D bone-muscle co-culture model using emulsion-templated microporous scaffolds
17:24 – 17:36	Hannah Donnelly University of Glasgow	Bioengineered niches that recreate physiological bone marrow extracellular matrix organization to support long-term hematopoietic stem cells, model CAR T cell therapy, and support cancer remodeling
17:36 – 18:00	Delegate photograph on College Green outside the City Hall, then a short walk to The Bristol Hotel for those attending the conference dinner.	
18:00 – 19:00	Drinks reception in the Events Lounge of The Bristol Hotel – this is a ticketed event	
19:00 – 23:59	Formal dinner in the Ballroom Suite of The Bristol Hotel – this is a ticketed event	

Friday 20th June

09:00 – 09:30	Refreshments & Posters (Group 2) in the City Hall Foyer and Queen Elizabeth II Conference Hall	
SESSION 7: CLINICAL TISSUE ENGINEERING - QUEEN ELIZABETH II CONFERENCE HALL Chairs: Panos Maghsoudlou, Srividya Sundararajan		
09:30 – 10:12	Vivian Li Francis Crick Institute	<i>Keynote Talk:</i> Engineering intestinal mucosal grafts for transplantation and modelling
10:12 – 10:24	Caitlin Ryan University of Sheffield	A single-layered angiogenic periosteum substitute to improve delayed bone healing
10:24 – 10:36	Olivia Camilleri University of Bristol	High-concentration collagen granular hydrogels as an injectable biomaterial for bone regeneration
10:36 – 10:48	Michalis Palamas University of Nottingham	Gene therapy via haemostatic and tissue restorative wound packing for accelerated healing of soft tissue
10:48 – 11:00	Justine Clarke University of Glasgow	Engineering the next generation of biologically active vascular grafts
11:00 – 11:12	Rosanna Hood University of Sheffield	Decalcifying and antibacterial bilayer grafts for vascular tissue engineering
11:12 – 11:50	Brunch served in the Lord Mayor’s Reception Room Posters (Group 2) in the City Hall Foyer and Queen Elizabeth II Conference Hall	
SESSION 8: CLINICAL TISSUE ENGINEERING - QUEEN ELIZABETH II CONFERENCE HALL Chair: Giovanni Biglino, Srividya Sundararajan		
11:50 – 12:32	Massimo Caputo University of Bristol	<i>Keynote Talk:</i> The clinical need for tissue engineering research in congenital heart disease
12:32 – 13:00	James Armstrong University of Bristol Sarah Cartmell University of Manchester	Robert Brown Early Stage Investigator Award Poster Prizes Sponsored by <i>Biofabrication</i> Talk Prizes Sponsored by <i>Trends in Biotechnology</i> Closing Remarks

Information for Presenters

Podium presenters please introduce yourself to the session chair in the 20 minutes before the talk, check that your slides are in order, and take a seat on the front row.

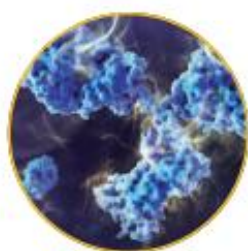
Poster presenters are split into two groups (see page 18-19 for split). Group #1 will have their posters on display for the first half of the conference, Group #2 will have their posters on display for the second half of the conference. **Group #1 please remove their posters promptly at the changeover at 1:15 pm on the 19th June.** Poster judging will take place on the 19th June only - the scientific content, presentation, and ability to describe and discuss the results will be assessed.

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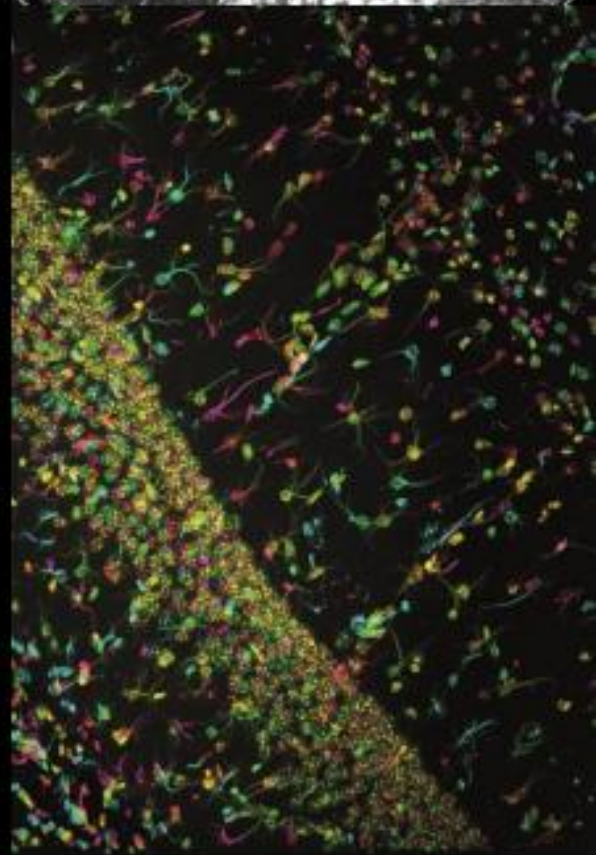
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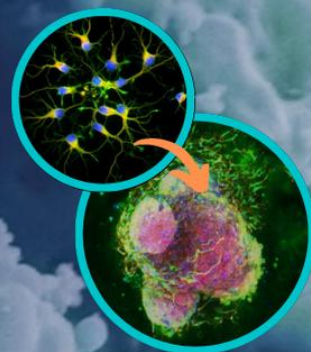
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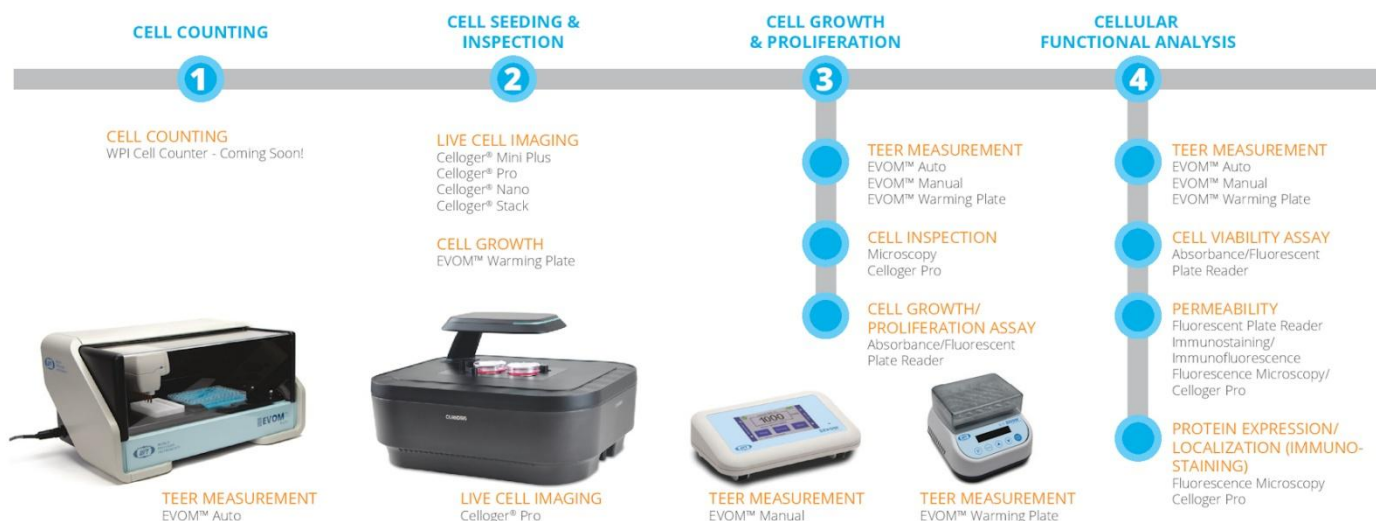


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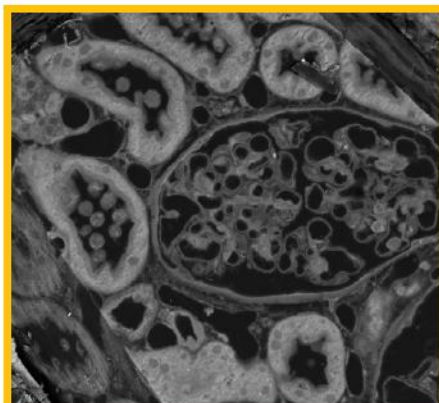
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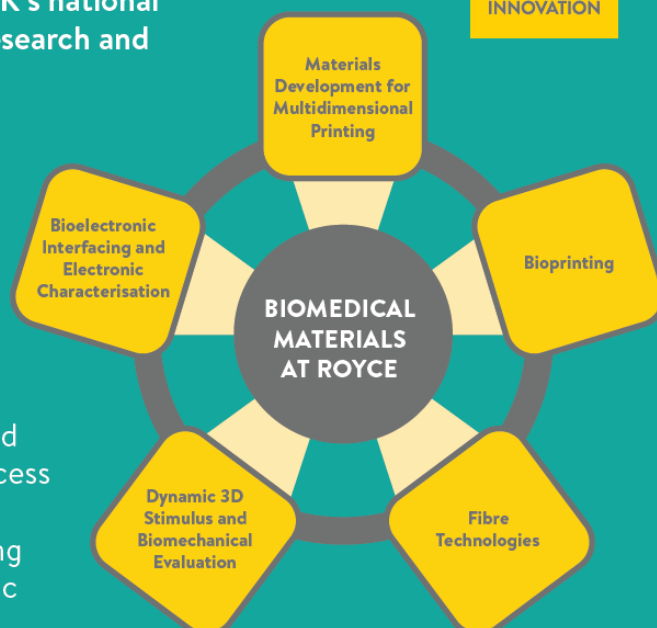
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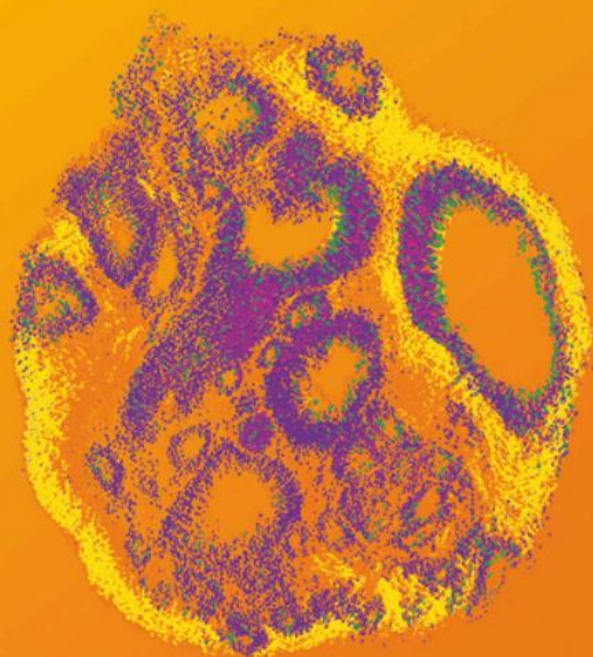
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Poster Group #1: 18-19th June

1	An Nisaa Nurzak University of Nottingham	Designing glucose-responsive non-viral gene therapies for diabetes: a novel approach to insulin regulation and production
2	Udipt Ranjan Das University of Glasgow	Nanovibrational stimulation of mesenchymal stromal cell osteogenesis – investigating the relationship between osteogenesis and inflammation
3	Adel Alshammari Cardiff University	Evaluating the antimicrobial, mechanical and physiochemical properties of drug-loaded liposomes in resin-based composite
4	Nan Tao University College London	Mechanical stimulation study of 3D printed porous structure on the osseointegration of mandibular prosthesis
5	David Chau University College London	Immortality in a bag: a cold chain-free, animal material-free, and DMSO-free alternative to enhanced cell storage and delivery
6	Lucy Wilkinson University of Bath	Lupin protein isolates in serum free media development for cultivated meat
7	Samira Malekmohammadi Henry Royce institute	AI-enhanced smart scaffolds for ultrasound-responsive bone regeneration and controlled drug delivery
8	Alexandra Medeea Nagy University of Manchester	Capacitive electric stimulation enhances the osteogenic potential of periodontal ligament stem cells
9	Michelle Li University of Southampton	Measurement of ultrasound-responsive microbubble perfusion during non-union bone fracture healing
10	Balint Macsuga University of Manchester	Evaluation of electrostimulation-mediated bone healing using an in vitro model
11	Dariusz Kosk University of Southampton	Perfusion chamber for the investigation of microbubble response to ultrasound and localised drug delivery in bone fractures
12	Emily Atkinson University College London	Linear peptide mimetics of glial cell line-derived neurotrophic factor (GDNF) activate PI3K signalling and have applications in regenerative medicine
13	Thomas Green Cardiff University	Orthopaedic consideration of the influence of laser surface texturing on functional surface properties of bulk metallic glass
14	Farnaz Ghorbani University of Bristol	GelMA–polydopamine bioinks with enhanced printability and mineralization for bone tissue engineering
15	Louis Johnson University of Sheffield	An emulsion electrospun nanofibrous scaffold with glial cell line-derived neurotrophic factor for nerve regeneration
16	Caroline Taylor University of Leeds	Versatile twin layer macromolecular fibres for advanced tissue engineering applications
17	Yanni Lu Cardiff University	Effect of titanium alloy Ti-6Al-4V surface topography on human neutrophil morphological responses
18	Samantha Heslop University of Manchester	The development of a ‘functionalised tendon repair augmentation device’ using electrospun polycaprolactone
19	Matthew Maple Nottingham Trent University	Effect of laser ablation and nanoparticle deposition on the biocompatibility of PEEK
20	Woming Gao University of Sheffield	Enhanced strength, biocompatibility, and printability for artificial bone tissue materials: nano-scale investigation into citric acid carbon dots (CA CDs)/polymerized trimethylolpropane triacrylate (PTMPTA) composites
21	Chrisdina Sari University College London	Fibre-reinforced hydrogel: novel composite biomaterials for dental implant
22	Zeming Cheng University of Sheffield	Berberine-loaded PHA electrospun films as potential bone tissue engineering scaffolds
23	Norshazliza Ab Ghani University of Malaya	Next-Gen 3D biocomposite scaffolds: fucoidan-infused PLGA/nCS for bone tissue engineering
24	Mia Crowther Queen Mary University of London	Computational modelling of preterm fetal membranes
25	Genevieve Schleyer University of Liverpool	Characterising the effects of protein interactions on nanoparticle diffusion in complex in vitro environments
26	Mia Massaad University of Bristol	Robust and bioactive double-network GelMA-PDA bioinks for bone tissue engineering

Poster Group #2: 19-20th June

27	Finlay Thomas University of Southampton	Ultrasound-responsive microbubbles for delivery of Wnt protein for bone healing
28	Hussain Jaffery University of Glasgow	An axis of Wnt and proinflammatory signals underlies mechanically driven osteogenesis
29	Lidija Gradisnik University of Maribor	Isolation and characterisation of human nucleus pulposus, annulus fibrosus and cartilage endplate cells for <i>in vitro</i> cell models
30	Tomaz Velnar UMC Ljubljana	Neurosurgical approaches for harvesting intervertebral disc tissue for cell culture
31	Ilyas Khan Swansea University	The formation of Benninghoff's arcades in immature articular cartilage occurs through reconfiguration of the existing collagen fibril network
32	Zhaoqiang Zhang University of Manchester	Enhancing osteoclastic differentiation of human monocyte cell line THP1 for in vitro bone resorption modeling
33	Celia Ribes Balanza University of Glasgow	Bioengineered 3D hydrogels to model the human bone marrow leukemic niche
34	Priyanka Gupta University of Roehampton	Evaluating the relevance of dynamic flow on the drug response of a biomimetic advanced model of pancreatic cancer
35	Sanaa Alhazaimeh University of Leeds	Understanding the mechanism of pathology induced by type 2 diabetes on stem cells regeneration ability
36	Rachel Wandless University College London	Investigating the migratory capacity of SHED cells in different mechanical environments
37	Norah-Jane Prendergast University of Bristol	Impact of matrix viscosity on astrocyte reactivity in 3D tissue models
38	Antonios Giannopoulos Loughborough University	Impact of tissue architecture on corneal myofibroblasts behaviour in fibrin hydrogels
39	Hannah Donnelly University of Glasgow	Bioengineered 3D models of lymph node stroma to understand the biomechanics of immune ageing
40	Kubra Yigit University of Edinburgh	Investigating fiber diameter impact for N-acetylcysteine-loaded polycaprolactone scaffolds on oxidative stress induced-osteoarthritis
41	Jeyapriya Thimukonda Jegadeesan University of Manchester	Exploring the influence of charge and stiffness on osteosarcoma cell behaviour in tuneable peptigel systems
42	Prarthana Mistry University of Sheffield	Development of PolyHIPE Scaffolds as an intervention for medication-related osteonecrosis of jaw
43	Mina Aleemardani University of Bristol	Polyphenolic granular hydrogels with enhanced shear mechanics
44	Nevena Slavova University of Sheffield	Tissue engineered blood vessels
45	Zhipeng Deng University of Bristol	Coagulative granular hydrogels for endogenous tissue repair
46	Peter Goulding University of Sheffield	Developing functionalised electrospun scaffolds to exploit neural–stromal interactions in wound healing
47	Elliot Amadi University of Sheffield	3D printed bacterial cellulose/alginate hydrogel scaffolds, for potential use in chronic wound therapy
48	Simin Ni University College London	Evaluating the cartilage regeneration after stem cell therapy through MRI segmentation for predicting clinical outcomes
49	Srividya Sundararajan University of Bristol	Patient-derived ovarian cancer organoids to inform chemotherapy
50	Sharon Oyhanart University College London	Nanoparticle-enriched eggshell membranes: an egg-cellent alternative for guided bone regeneration
51	Valeria Sandoval Torres University of Bristol	Exploring artificial membrane-binding proteins for NK cell functionalization
52	Inmaculada De Dios Pérez University of Birmingham	Optimising and evaluating thermosensitive decellularized ECM-based hydrogels for enhanced arteriovenous graft integration