ASBTE 2022 Poster Listing

Current as of 20 April 2022

THEME / SUB THEME	TITLE	POSTER PRESENTER	POSTER SESSION	Number	Poster Number Ref
Bioengineered tissue models	Bioengineering Humanized Fatty Bone Metastatic Niche Models	Agathe Bessot	Session 1 - Wednesday 20 April 2022	4	W4
Other	Immunomodulatory, pro-regenerative and anti-cancer effects of TMS-like magnetic fields	Anna Guller	Session 1 - Wednesday 20 April 2022	19	W19
Biofabrication	Plasma immersion ion implantation of porous tubular structures for tissue engineering applications	Anyu Zhang	Session 1 - Wednesday 20 April 2022	13	W13
Biointerfaces	Directing differentiation of stem cells using cell-imprinted culture platforms	Azadeh Hashemi	Session 1 - Wednesday 20 April 2022	15	W15
Clinical and commercial translation	Fabricating 3D printed metamaterials towards patient-specific reactive cushioning for rehabilitation	Dilpreet Singh	Session 1 - Wednesday 20 April 2022	16	W16
Bioengineered tissue models	Assessment of hydrogels for culture of tissue engineered skin dermal layer: a focus on hydrogel effects upon cellular behaviour	Elizabeth Footner	Session 1 - Wednesday 20 April 2022	5	W5
Biofabrication	Bone-cartilage interfaces via printing of ceramic ink in stem cell-laden microgel suspensions	Gagan Jalandhra	Session 1 - Wednesday 20 April 2022	10	W10
Tissue engineering	Investigating Hybrid Peptide-Hyaluronic acid Hydrogels for the Controlled Release of Proteins	Gareth Boer	Session 1 - Wednesday 20 April 2022	23	W23
Bionanmaterials	Nanoparticle-enhanced infrared modulation of retinal ganglion cells	James Begeng	Session 1 - Wednesday 20 April 2022	27	W27
Biointerfaces	Mimicking endothelium function via a multifunctional thin film coating with antioxidant and anti-inflammatory properties	Jessie Clare	Session 1 - Wednesday 20 April 2022	14	W14
Drug delivery	Sulfated Alginate Nanogels for Local Delivery of Lactoferrin	Jiankun Yang	Session 1 - Wednesday 20 April 2022	17	W17
Bioengineered tissue models	Universal method for the incorporation of extracellular matrix into microphysiological models	Katherine Nelson	Session 1 - Wednesday 20 April 2022	9	W9
Biofabrication	Silk fibroin-based hybrid hydrogels for cardiovascular applications	Laura Vettori	Session 1 - Wednesday 20 April 2022	12	W12
Tissue engineering	Investigating the effect of varying sulphation degree of marine derived sulphated polysaccharides on growth factor interactions	Long Nguyen	Session 1 - Wednesday 20 April 2022	25	W25

Biofabrication	Development of an alginate bioink cured through visible light-initiated click chemistry for 3D bioprinting applications	Matthew Mail	Session 1 - Wednesday 20 April 2022	11	W11
Tissue engineering	Towards improved in vitro models of skeletal muscle: Development of magnetic microspheres for controlled stimulation of myoblasts	Michael Maier	Session 1 - Wednesday 20 April 2022	24	W24
Scaffolds	Autologous constructs for muscle engineering and repair	Peiqi Yang	Session 1 - Wednesday 20 April 2022	21	W21
Bioengineered tissue models	Development of a translational bioengineered microenvironment model to advance pre-clinical acute myeloid leukaemia research.	Philip Holloway	Session 1 - Wednesday 20 April 2022	6	W6
Tissue engineering	Gradient microbead generation of hydrogels using a microfluidic system	Sabrina Taylor	Session 1 - Wednesday 20 April 2022	26	W26
Stem cells and cell therapy	Migration of Neural Stem Cell Originating from the Subgranular Zone	Samaneh Mirzaei	Session 1 - Wednesday 20 April 2022	22	W22
Antimicrobial materials	The influence of peptide adsorption conditions onto selenium nanoparticles for antimicrobial applications	Shaveen Sasanka Bogahapitiya Gamage	Session 1 - Wednesday 20 April 2022	1	W1
Antimicrobial materials	Immobilization of the Antimicrobial Peptide Melimine on Medical-Grade Polycaprolactone Scaffolds for the Prevention of Biomaterial-Related Infections	Silvia Cometta	Session 1 - Wednesday 20 April 2022	2	W2
Scaffolds	Dual surface polypropylene hernia mesh for side specific performance in abdomen wall repair	Tanushree Saha	Session 1 - Wednesday 20 April 2022	20	W20
Bioengineered tissue models	Human bone mesenchymal/stromal cells (hBMSCs)-laden microgels for cartilage regeneration	Thuy Phuong Thi Nguyen	Session 1 - Wednesday 20 April 2022	7	W7
Tissue engineering	Challenges of growing large-scale cochlea-like in vitro cell constructs using soluble PVA moulds	Ulises Aregueta	Session 1 - Wednesday 20 April 2022	28	W28
Bioengineered tissue models	A 3D printed microfluidic system for osteosarcoma modelling (3D-OSM)	Wiktor Zywicki	Session 1 - Wednesday 20 April 2022	8	W8
Immunomodulatory biomaterials	Neuropeptide Calcitonin Gene-Related Peptide Engineered to Bind the Extracellular Matrix Improves Diabetic Wound Healing via Immunoregulation	Yen-Zhen Lu	Session 1 - Wednesday 20 April 2022	18	W18
Antimicrobial materials	Illuminating the Biochemical Interaction of Antimicrobial Few-Layer Black Phosphorus with Microbial Cells Using Synchrotron macro-ATR-FTIR	Zo Shaw	Session 1 - Wednesday 20 April 2022	3	W3
Scaffolds	A soft electroactive hydrogel for electrical stimulation of cells based on GelMA and Graphene Oxide	Alexandre Xavier Mendes	Session 2 - Thursday 21 April 2022	21	T21

Bioengineered tissue models	Bioengineered 3D neuron models for studying cell-material interactions	Anu Sabu	Session 2 - Thursday 21 April 2022	5	T5
Biofabrication	Fabrication of artificial vascular pedicles exhibiting hierarchal bifurcation	Cathal O'Connell	Session 2 - Thursday 21 April 2022	9	T9
Bioengineered tissue models	Incorporation of arginine-glycine-aspartic acid (RGD) ligands into diphenylalanine (FF) nanofibre scaffolds and exploration of nanoscale properties for tissue engineering	Christopher Chong	Session 2 - Thursday 21 April 2022	2	T2
Biofabrication	Fabricating Multi-material Tissue Engineering Scaffolds using Janus Bioprinting	Eileen Wallace	Session 2 - Thursday 21 April 2022	10	T10
Bioengineered tissue models	Development of 3D cell culture models for evaluating real-time stimulation & sensing techniques	Emma Gill	Session 2 - Thursday 21 April 2022	3	T3
Tissue engineering	Neurite patterning and differentiation on anti-fouling lubricin surfaces	Errol Phuah Phuah	Session 2 - Thursday 21 April 2022	24	T24
Biofabrication	A versatile xanthan gum based supportive medium compatible with multiple crosslinking stimuli for extrusion 3D bioprinting and characterisation of functionality	Guanyu Lai	Session 2 - Thursday 21 April 2022	8	T8
Tissue engineering	Fabrication of multilayer tissue-engineered vascular grafts	Hazem Alkazemi	Session 2 - Thursday 21 April 2022	22	T22
Scaffolds	Photocrosslinked silk hydrogels for biomedical applications: understanding complex gelation mechanisms	Hien Tran	Session 2 - Thursday 21 April 2022	19	T19
Tissue engineering	Stem Cells for Personalised Tissue Engineering	James Collins	Session 2 - Thursday 21 April 2022	23	T23
Biofabrication	Biofabrication of miniaturised, patient-specific free-standing hydrogel vessels	Jorge Amaya Catano	Session 2 - Thursday 21 April 2022	7	T7
Bioengineered tissue models	Validating the Potential of StarPEG-Heparin Hydrogels as an ex vivo Drug Screening System for Breast Cancer	Julien Clegg	Session 2 - Thursday 21 April 2022	6	T6
Clinical and commercial translation	Translation from bench to bedside: how a novel antimicrobial peptidomimetic is progressing in the antibiotic development pipeline	Katrina Browne	Session 2 - Thursday 21 April 2022	14	T14
Biointerfaces	Engineering the Interface: Hydrogel-based Surface Modification of 3D Printed Bone Implants	Leon Pope	Session 2 - Thursday 21 April 2022	13	T13
Antimicrobial materials	Antibacterial and Antifungal Titanium Nanostructured Surfaces Post-Functionalised with Silver for Drug Resistant Pathogens	Louisa Huang	Session 2 - Thursday 21 April 2022	1	T1
Drug delivery	Safe sanctuary microenvironment for insulin-secreting islet transplants	Mathew Harty	Session 2 - Thursday 21 April 2022	15	T15

Antimicrobial materials	Endophytic fungi solvent extracts as a novel source of bioactive compounds in electrospun polycaprolactone wound dressing	Meysam Firoozbahr	Session 2 - Thursday 21 April 2022	28	T28
Bioengineered tissue models	Standardisation of 3D cell culture models for nanoparticle biosensing	Miriam Kael	Session 2 - Thursday 21 April 2022	4	T4
Scaffolds	In situ preparation of alendronate-loaded zif-8 nanoparticles on electrospun nanofibers for accelerating early osteogenesis in osteoporosis	Mohammed Al-Baadani	Session 2 - Thursday 21 April 2022	18	T18
Drug delivery	Manufacture of 3D printed microneedles for pharmacological drug delivery	Rachael Wood	Session 2 - Thursday 21 April 2022	17	T17
Scaffolds	Development and Biomechanical Optimisation of a Small Diameter Vascular Graft	Rumbidzai Zizhou	Session 2 - Thursday 21 April 2022	20	T20
Biointerfaces	Enhancing neurite outgrowth employing light-induced oxygen terminated nitrogen-doped ultrananocrystalline diamond	Samira Falahatdoost	Session 2 - Thursday 21 April 2022	11	T11
Biointerfaces	Designing gradient bioinks for the musculoskeletal interface	Sithmie De Silva	Session 2 - Thursday 21 April 2022	12	T12
Drug delivery	Cellular Uptake Pathways of Lyotropic Liquid Crystalline Lipid Nanoparticles	Sue Lyn Yap	Session 2 - Thursday 21 April 2022	16	T16
Antimicrobial materials	The advanced antibacterial coating of Zn nanoparticles for biomedical application.	Vijay Sisarwal	Session 2 - Thursday 21 April 2022	25	T25
Bioengineered tissue models	Understanding biological responses to plasma activated coatings: developing cell instructive microphysiological systems	Aaron Gilmour	Session 3 - Friday 22 April 2022	3	F3
Tissue engineering	The Development of Solid-hydrogel Hybrid Structures as Versatile Nerve Guide Conduits	Bingyan Liu	Session 3 - Friday 22 April 2022	14	F14
Biofabrication	Development of Geometric Melt Electrowritten Polycaprolactone Scaffolds to Optimise In Vitro Cellular Growth for Rapid Tissue Regeneration	Brenna Devlin	Session 3 - Friday 22 April 2022	5	F5
Stem cells and cell therapy	Tuning the bioactivity of MSC-secreted ECM by controlling of substrate stiffness	Daniel Heath	Session 3 - Friday 22 April 2022	19	F19
Biointerfaces	Validation of a platinum cochlear electrode model for preclinical electrical and biological performance evaluation	Dhyey Shah	Session 3 - Friday 22 April 2022	7	F7
Stem cells and cell therapy	The role of growth factors expressed in healing tendons in driving tenogenesis in resident stem cells	Eleonore Bolle	Session 3 - Friday 22 April 2022	13	F13
Bioengineered tissue models	A microfluidic model of endothelial dysfunction	Jasneil Singh	Session 3 - Friday 22 April 2022	4	F4
Biofabrication	Development of a novel cellulose-binding spider-silk fusion protein	Kai Mayer	Session 3 - Friday 22 April 2022	17	F17

Mechanobiology	Temporal analysis of human mesenchymal stem cells under external stimulation	Kaiwen Zhang	Session 3 - Friday 22 April 2022	11	F11
Clinical and commercial translation	Surveillance, review and investigation activities for medical devices in Australia: statistics and case studies	Kelly Tsang	Session 3 - Friday 22 April 2022	10	F10
Tissue engineering	Tissue-derived click-chemistry hydrogels for enhanced 3D cell culture	Laura Milton	Session 3 - Friday 22 April 2022	15	F15
Scaffolds	Shape Transforming Scaffolds for Bone Tissue Engineering	Nasim Sabahi	Session 3 - Friday 22 April 2022	12	F12
Bionanomaterials	Cyclic poly(2-oxazoline)s and related compounds as biomaterials – challenges to scale-up	Nick Huettner	Session 3 - Friday 22 April 2022	8	F8
Antimicrobial materials	Novel antimicrobial strategies for bioceramic-based bone substitute biomaterials	Sudip Chakraborty	Session 3 - Friday 22 April 2022	1	F1
Biointerfaces	Evaluating medical device thrombosis under clinically relevant flow conditions	Tiffany Goh	Session 3 - Friday 22 April 2022	6	F6
Tissue engineering	Challenges of growing large-scale cochlea-like in vitro cell constructs using soluble PVA moulds	Ulises Aregueta	Session 3 - Friday 22 April 2022	16	F16
Antimicrobial materials	Assessing the impact of sterilisation methods on the stability and functionality of antimicrobial selenium nanoparticles	Xin Li	Session 3 - Friday 22 April 2022	2	F2
Bionanomaterials	Therapeutic delivery of miRNA by novel carbon-based plasma polymerised nanoparticles in diabetes	Yuen Ting Lam	Session 3 - Friday 22 April 2022	9	F9