

Tissue Engineering & Regenerative Medicine International Society - AP Chapter and the 7th Asian Biomaterials Congress  
 MONDAY 14 October 2019 - THURSDAY 17 October 2019  
 Brisbane Convention & Exhibition Centre

\*Please note this program is current as of 11 October and is subject to change.

Monday, 14 October 2019

	Plaza Terrace Room	P1	P2	P3	P4
08:00	Registration Open				
08:00	TERMIS-AP Council Meeting				
10:00	10:00 - 12:00 - P1				
11:00	TERMIS Global President's Talk - Prof Geoff Richards				
12:00	Plaza Terrace Room Opening Ceremony				
12:40	Plaza Terrace Room Plenary Session				
13:20	Plaza Terrace Room Plenary Session				
13:35	Synthetic Elastic Biomaterials Prof Tony Weiss				
13:35	TERMIS 2021 Prof Lorenzo Moroni				
14:10	Plaza Terrace Room Plenary Session				
14:15	Biomaterials for Endogenous Regeneration: Opportunities and Challenges in Tissue Engineering Prof Changsheng Liu				
14:15	Plaza Terrace Room Plenary Session				
14:50	Afternoon Tea				
	Plaza Terrace Room	P1	P2	P3	P4
15:20	<b>3D Printing of Biomaterials</b>	<b>Biomaterials in Translational Medicine - The Future and Reality</b>	<b>Extracellular Vesicles (EV) as Diagnostic Biomarkers and Regenerative Medicine</b>	<b>Recent Progress on Cell and Tissue Manufacturing Technology</b>	<b>BMSCs to Skeletal Tissue</b>
	Chairperson: Chengtie Wu, Sean Powell	Chairperson: Haobo Pan, Zhuofan Chen	Chairperson: Carlos Salomon, Antonio Salgado	Chairperson: Tatsuya Shimizu, Masahiro Kino-oka	Chairperson: Travis Klein, Michael Doran
15:20	3D Printing of Biomimetic Bioactive Scaffolds for Oro-dental Regeneration <b>Prof Chengtie Wu</b>	3D-printed Scaffolds with Magnesium Microenvironment for Bone Regeneration <b>A/Prof Kelvin Yeung</b>	SPARC Promotes Proliferation and Metastasis of OSCC <b>A/Prof Yanhong Ni</b>	A Novel Concept of Cell Manufacturability and its Impact for Cell Producing <b>Prof Masahiro Kino-Oka</b>	Identifying Drivers of Hypertrophy in Bone Marrow Stromal Cells (BMSC) During in Vitro Chondrogenic Induction <b>Dr Kathryn Futrega</b>
15:35	High Resolution 3D Printed Custom Scaffolds for Oro-dental Regeneration <b>Dr Michal Bartnikowski</b>	Ionic Peripheral Tissue Microenvironment From Xenograft Driven by Fluoride Incorporation Contribute to Enhanced Bone Regeneration <b>Prof Zhuofan Chen</b>	Profiling Exosomes Present in Maternal Circulation during Gestation - Potential use as Biomarkers for Complication of Pregnancy <b>Dr Carlos Salomon</b>	Manufacturing of Functional Three-Dimensional Tissues <b>Prof Tatsuya Shimizu</b>	Harnessing Mechanotransductive miRNA Signalling for Bone Tissue-engineering <b>Dr Jessica Frith</b>
15:50	3D-printed Scaffolds With Photothermal Effect For Bone Tumor Therapy <b>Miss Yaqin Liu</b>	Key and Future Role of Biomaterials in Tissue Engineering and Regenerative Medicine <b>Prof Yasuhiko Tabata</b>	Salivary Small Extracellular Vesicles as Diagnostics for Periodontal Disease <b>Dr Pingping Han</b>	Microenvironment Process Modelling to Control Blood and Bone Manufacturing <b>Dr Mark Allenby</b>	A Small Molecule-Based Culture System to Prevent Replicative Senescence and Promote Osteogenic Properties of Mesenchymal Stem Cells <b>Prof Li Liao</b>
16:00	Core-shell Drug Loaded Tablets for Personalized Medicine via High-throughput Micro-fabrication <b>Prof Kibret Mequanint</b>			Quantitative Ultrasound Imaging of Cell-laden Hydrogels and Printed Constructs <b>Dr Andres Ruland</b>	974: Immunoregulatory Role of Exosomes Derived from Differentiating Mesenchymal Stromal Cells on Inflammation and Osteogenesis <b>Mr Fei Wei</b>
16:05	Standardized Rat Burr Hole Defect Model to Study Maxillofacial Regeneration <b>Dr Guanqi Liu</b>			Mechanoculture - Applications of Dynamic Pressure in Manufacturing Cell Therapies. <b>Dr James Henstock</b>	The Use of BMP2 and EZH2 Inhibition to Stimulate Osteogenesis <b>Dr Hayman Lui</b>
16:10	3D Printed Biphasic Scaffolds with Admixture of Biomimetics for Customized Osteochondral Tissue Engineering <b>Dr Amrita Natarajan Jyotsna</b>			An Automated, High-throughput Workstation to Manufacture and Screen Extracellular Matrices for 3D In Vitro Disease Models <b>Mr Sebastian Sebastian Eggert</b>	Effects of Minimally Manipulated Bone Marrow Cells on Regeneration of Bone and Cartilage <b>Dr Maryam Tamaddon</b>
16:15	Advanced Manufacturing for Burn Injury Treatment: An Evaluation of Materials and Methods <b>Dr Sean Powell</b>	PIC/PLGA Hydrogel to Sustained Release of Lipoxin/doxycycline <b>Miss Bing Wang</b>	High-fidelity Probing of the Structure and Heterogeneity of Extracellular Vesicles <b>A/Prof Wojciech Chrzanowski</b>	Modular Microfluidic Systems for Mimicking Multi-Organ Interactions <b>Dr Yi-Chin Toh</b>	Biofabrication of the Musculoskeletal Tissue Niche: Tissue Spheroid and Bioink Platforms <b>Prof Tim Woodfield</b>
16:25	ACRO Biocomera: From Bench to Clinic Bedside <b>Dr Fan-Wei Tseng</b>	Standardized Rat Burr Hole Defect Model to Study Maxillofacial Regeneration <b>Dr Guanqi Liu</b>	Impact of Stem Cells Secretome in the Injured and Degenerating Central Nervous System <b>Dr Antonio Salgado</b>	Development of Recellularized Acellular Porcine Intestine with Human Cells as a Human Implantable Vascular Bed <b>Mr Yusuke Tobe</b>	Impaired Osteogenic Differentiation of Bone Marrow Mesenchymal Stromal Cells (BMSC) Microtissues Exposed to BMP-2 <b>Dr Eman Mosaad</b>
16:30	A Bioprinting Approach to Regenerate Cartilage for Microtia <b>Dr Johnson Chung</b>	MT1-MMP Responsive Transarterial Chemo-embolic Microbeads for Image-guided Hepatic Cancer Therapy <b>Prof Sugeun Yang</b>	Stem Cells Secretome Combined with Pharmacotherapies as a Multimodal Strategy for Parkinson's Disease Regenerative Medicine <b>Dr Fabio Teixeira</b>		
16:35	Microvalve-Based Biofabrication of 3D Liver Parenchymal Microtissue <b>Mr Roopeesh R Pai</b>	Multi-effect Nano-engineered Poly-ethyl-oxazoline for Bone Regeneration <b>Miss Peina Huang</b>			
16:40					
16:45					
16:50					
16:55	Plaza Terrace Room Plenary Session				
16:55	Biomaterials Enabled Translational Regenerative Medicine Prof Shyni Varghese				
17:30	Welcome Reception				
17:30	17:30 - 19:30				
18:30	Plaza Terrace Foyer				

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Tuesday, 15 October 2019

	Plaza Terrace Room	P1	P2	P3	P4	P5	M5 + M6
08:30	TERMIS-AP Industry Committee Meeting 8:30 - 10:00 - P1						
08:50	Plaza Terrace Room Plenary Session						
08:50	Idea Brewing and Research Design: The Experience of Concept Cooking to Final Design Dr Feng-Huei Lin						
09:25	Plaza Terrace Room Plenary Session						
09:25	Design of New Nanoparticles - The Importance of Understanding Nanoparticle Properties to Help Appreciate their Biological Activities Prof Martina Stenzel						
10:00	Morning Tea						
	Plaza Terrace Room	P1	P2	P3	P4	P5	M5 + M6
10:30	<b>ISBF Session: Biofabrication in Clinical Translation</b>	<b>Biomaterials for Therapeutic Delivery 1</b>	<b>Cartilage Regenerative Medicine</b>	<b>Anti-infective Coatings for Medical Devices</b>	<b>3D Tissue Engineered Cancer/Disease Models 1</b>	<b>Soft Tissue Reconstruction and Glycobiology of Stem Cells Regenerative Medicine</b>	<b>Low-Cost, Open-Access Tools and Technologies for Advanced Biomaterials</b>
	Chairperson: Khoon Lim, Lorenzo Moroni	Chairperson: Dezhong Zhou, Ki Su Kim	Chairperson: Jin Ke, Prabha Nair	Chairperson: Helmut Thissen, Chiaki Yoshikawa	Chairperson: Subhas Kundu, Rui Reis	Chairperson: Joe Tiralongo, Justin Copper-White	Chairperson: Mia Woodruff, Mark Allenby
10:30	Converging Tissue Spheroid Biofabrication and Microphysiological Organ-on-a-chip Technologies for High Throughput Screening Prof Tim Woodfield	Linear-Branched Hybrid Poly(β-Amino Ester) as Safe and Efficient Gene Delivery Vectors to Fibroblasts Prof Dezhong Zhou	The Role of TLR4 on a CFA Injection- or Discectomy-induced TMJOA Model Dr Jin Ke	Development of Antimicrobial Contact Lenses Prof Mark Willcox	3D Vascularized Models to Study Cell Interactions in Diseased Environments Dr Matteo Moretti	Glycome of Stem Cells: From Structural Analysis to Social Implementation Dr Hiroaki Taneno	Remote Control Assembly of 3D Multi-cellular Structures using Magnetic Fields A/Prof Andrea O'Connor
10:45	From Rapid Prototyping to Bioprinting Prof Lorenzo Moroni	Nano-Engineered Titanium Dental Implants for Enhanced Local Therapeutic Action Dr Karan Gulati	In Situ Neocartilage Biofabrication in a Human Osteo-Chondral Model Dr Serena Duchì	Angiogenesis and Bone Regeneration By Using Bioactive Biodegradable Scaffolds Dr Oliver Bissinger	3D Silk Biomaterial Scaffolds, Extracellular Matrices and Skin Tissue Repair Prof Deirdre Coombe	Protein Glycosylation - An Overlooked Feature Impacting Stem Cell Factor and Stem Cell Factor Receptor Function A/Prof Daniel Kolarich	Nano Genome Atlas (NGA) of Body Wide Organ Response by HLLA-Seq Dr Bingbing Wu, Miss Yu Li
10:55			Can Stem Cell and Their Conditioned Medium Assist Chondrocytes Recovery? Dr Yu-Chun Chen	Coatings Providing Multiple Layers of Defence Against Medical Device-associated Infections Dr Helmut Thissen			Developing Universal Bioreactors for Culturing Large Tissue Substitutes Mr David Forrestal
11:00	To Print or Not To Print: Effects On The Properties of Engineered Cartilage Prof Marcy Zenobi-Wong	Abraxane® Delivery Using Photocrosslinkable Gelatin Methacryloyl Hydrogels Miss Margaux Vigata	Treatment of Clinically Significant Cartilage Defects in One Surgical Biofabrication Procedure Dr Sam Francis	Advanced Surface Coating with Low Fouling Property and Good Biocompatibility via Colloidal Self-assembly Dr Yue Shi	Collagen-based Scaffolds as 3D Tumour Models for Breast Cancer Research Dr Caroline Curtin	Bioengineered Proteoglycan-based Growth Factor Delivery Biomaterials For Vascular Applications Prof John Whitelock	Design of a 3D Printing Biofabricator for Extrusion and Electrohydrodynamic based Bioprinting Techniques Mr Matthew Lanaro
11:05		Non-invasive Transdermal Nanomedicine Using Hyaluronate Derivatives Prof Ki Su Kim	A Natural Glycosaminoglycan Polymer Based Injectable Hydrogel Containing Karyogenin (KGN) For Cartilage Tissue Engineering Prof Prabha Nair				
11:10							
11:15	Co-axial Printing of Islets with Supporting Cells Dr Zhilian Yue	Therapeutic Potential Of Gallium In Bone Reconstruction After Bone Tumor A/Prof Elise Verron	Surface Markers for the Characterization of Polydactyl-derived Chondrocyte Sheets Mr Takumi Takahashi	Designing Antimicrobial Surface Coatings: What Works, What Doesn't. Dr Bryan Coad			
11:20							
11:25	Functional Living Organ Manufacture For Skin Regeneration Mr Feifei Zhou	Hybrid 3D Printed Scaffold with Nanofibers for Breast Reconstruction Surgery Prof Wooyeol Baek	Guided In Vitro Chondrogenesis of Bone Marrow-derived Stromal Cells using Small Molecules Rose Ann Franco	Release of Antibacterial Drugs Triggered by Enzymatic Reactions Prof Henning Menzel	2D vs 3D: Does Cell Physical Microenvironment Affect Dendritic Cell Functions? Dr Jiranuwat Sapudom	Exploring Surface Glycosylation of Glioblastoma, their Cancer Stem Cell Counterparts, and Normal Human Neural Stem Cells Mr Brody Mallard	In-situ Evaluation for Tribological Maturation Process of Tissue-engineered Cartilage Cultured under Shear Stimulation Mr Ryoya Sato
11:30			TGFβ1-binding Heparan Sulfate Affects TGF-mediated Chondrogenesis Dr Xiaoman Luo				
11:35	Exploiting Ruthenium-catalyzed Redox-initiated Crosslinking for Cytocompatible Bioprinting of Low-viscous Bioinks Mr Bram George Soliman	Graphene Oxide Adjusts Drug Release to Improve Osteoporotic Bone Metabolism Mr Yuyang Zeng, Dr Muran Zhou					
11:40				Titania Nanotube Formation on Additive Manufactured Titanium Substrates for Simultaneous Delivery Biofilm Inhibitors and Promotion of Osteogenic Differentiation Capacity Mr Jun Li	Engineering of Osteoblastic Metastases Reveals Osteomimicry of Patient-derived Prostate Cancer Xenografts Dr Nathalie Bock	Developing Autologous Regenerative Therapies for Genetic Muscle Disease Prof Robert Kapsa	
11:45	3D Melt-electrowriting: Hollow, Free-standing, and Highly Porous Reinforcement Architectures Through Convergence With 3D Printing Dr Cathal Oconnell	290: Targeted Camptothecin-loaded Nanoparticles Against Breast Cancer in Vivo Miss Marietta Landgraf		RAFT Derived Polymer Coatings to Prevent Medical Device Related Infection Mr Fei Huang		All-Printed 3D Human Skin Equivalents for Wound Healing Ms Ju An Park	
11:50		339: A Novel Drug Delivery System for Tissue Regeneration Prof Arman Saporov					
11:55		Human Platelet Lysate-based Bioink for Wound Healing Application Miss Luciana Yumiko Daikuara			Dissecting the Molecular and Cellular Mechanisms of Angiogenesis in a Bioengineered Microenvironment Model of Prostate Cancer Ms Anna Jaeschke		

Sponsored lunch session - Pacific Laboratory Products - P1

Lunch Break

Plaza Terrace Room  
Plenary Session

In Situ Forming and Reactive Oxygen Species-Controlling Hydrogels for Tissue Regeneration and Drug Delivery  
**Prof Ki Dong Park**

	Plaza Terrace Room	P1	P2	P3	P4	P5	M5 + M6
13:35	<b>Bio-3D Printing for Tissue Engineering</b>	<b>Biomaterials for Therapeutic Delivery 2</b>	<b>Cartilage Repair, Regeneration and Replacement</b>	<b>Silk Materials for Biomedical Applications</b>	<b>3D Tissue Engineered Cancer/Disease Models 2</b>	<b>Nanostructured Biomaterials and Porous Scaffolds 1</b>	<b>Organoids Culture for Personalized Therapy</b>
	Chairperson: Tim Woodfield, James Yoo	Chairperson: Xiaojuan Hao, Yang Jen Ming	Chairperson: Chaozong Liu, Joaquim Miguel Oliveria	Chairperson: Lin Wang, Jelena Rnjak-Kovacina	Chairperson: Subhas Kundu, Matteo Moretti	Chairperson: Rui Reis, Nuno Neves	Chairperson: Gianluca Ciardelli, Jagannmohan Jangamreddy
13:35	Bioprinting: Translational Pathway to the Bedside <b>Dr James Yoo</b>	Development of Magnetic Stimuli Drug Release System Based on Dendrimer/gadolinium Iron Oxide Complex <b>Prof Jen Ming Yang</b>	Cartilage Tissue Engineering <b>Dr J. Miguel Oliveira</b>	Sericin in Cancer Biology <b>Prof Zheng Wang</b>	Tumor-on-chip Platform to Study Heterotypic Cell-cell Interactions and T cell Recruitment <b>Prof Shyni Varghese</b>	Porous Silicon Nanoparticles for Two-Photon In Vivo Imaging <b>Prof Dokyoung Kim</b>	Recreating 3D Living Environments in Vitro: Materials, Technologies, Perspective Impact in the Clinical Field <b>Prof Gianluca Ciardelli</b>
13:50	Advanced Bioprinting. A Surgeon's Perspective <b>Dr Claudia Di Bella</b>	Strategies of Converting Small Molecule Anticancer Drugs Into Nanomaterials Using Biocompatible RAFT Polymers <b>Dr Xiaojuan Hao</b>	3D Bioprinting of Cartilage-Binding Bioink for Chondral Regeneration <b>Dr Khoon Lim</b>	Biomimetic Silk Fibroin Materials Toward Tissue Regeneration <b>Dr Jelena Rnjak-Kovacina</b>	Biomimetic Biomaterials for in Vitro Cancer Microenvironment Modeling <b>Prof Subhas Kundu</b>	Structural Engineering of Nanoporous Anodic Alumina as a Model Biomaterial Platform <b>Dr Abel Santos</b>	Biomaterials Mimicking Tumour Microenvironment for Retinoblastoma Organoid Cultures <b>Dr Jagannmohan Reddy Jangamreddy</b>
14:05	3D Cell Printing of Implantable Vascularized Pancreatic Construct using iPSC-derived IPC for T1D <b>Mr Jaewook Kim</b>	Dual Targeted Polysaccharide/Lipid Nanoparticles for Oral Combination Therapy Delivery against Colon Cancer <b>Prof Hsin-Cheng Chiu</b>	In Vitro Cartilage Regeneration and its Clinical Translation - From Bench to Bed-side <b>Prof Guangdong Zhou</b>	Sericin in Tissue Engineering and Regenerative Medicine <b>Prof Lin Wang</b>	Development of a 3D Co-culture Model for Studying Adipocyte-breast Cancer Cell Interactions and Response To Paclitaxel Treatment <b>Ms Jessica Wise</b>	Modulation of Macrophages Differentiation by Nanoscale-Engineered Geometric and Chemical features <b>Dr Akash Bachhuka</b>	Geometrically Structured 3D Printed Microtumours <b>Dr Kristopher Kilian</b>
14:15	Biofunctionality Of Bioprinted Osteoblasts In Gelatin Methacryloyl Hydrogel <b>Mr Nimal Thattaruparambil Raveendran</b>	Development of Photo-responsive Hydrogel for Ophthalmic Protein Delivery <b>Dr Tim Hughes</b>	Bioactivity of Extra-/Pericellular Matrix from Human Adult Stem Cells for Cartilage Repair <b>A/Prof Yangzi Jiang</b>	Enhancing Enthesis using Silk-based Constructs <b>Prof James Goh</b>	Investigation of Bladder Tumor Heterogeneity by Inkjet-Printing Single Cell-Derived Organoids <b>Dr Hwa-Rim Lee</b>	Nano-particles and -Fibrous Scaffolds and Stem Cells for Advanced Therapies <b>Prof Nuno Neves</b>	Antioxidant and Glucose Influence on ROS Production and Insulin Secretion of Pancreatic β-cell Spheroids Cultured in Polydimethylsiloxane Microwell Array Device <b>Dr Dina Myasnikova</b>
14:20	All-Inkjet-Printed Alveolar Barrier Model <b>Prof Sungjune Jung</b>	A New Approach for Conjugating Alendronate to PLGA Nanoparticles towards Future Applications in Targeted Drug Delivery <b>Dr Anitha Kumar</b>	Using Tissue Engineered Cartilage to Investigate Diabetes-induced Osteoarthritis <b>Dr James Henstock</b>	Evaluation of Hydroxyproline Incorporation in Bacterial Collagen From Streptococcus Pyogenes <b>Ms Yong Peng</b>	A Novel Method for Cryopreservation of Complex Tissues <b>Mr Siddharth Muralidharan</b>	Inflammatory Liver Disease Culture Model Derived from Murine ES Cells in Consideration of an Immune-cell Response <b>Dr Miho Tamai</b>	
14:35	Non-destructive, Bulk Sterilisation Of Methacrylated Bio-ink Hydrogels <b>Dr Cathal Oconnell</b>	Dendritic Mesoporous Bioactive Glass Nanospheres: Drug Controlled Release and Specific Tumor Suppression via Calcium-Triggered Apoptosis <b>Dr Baiyan Sui</b>	Studying Fibrocartilage Stem Cells in Cartilage Defect Repairing <b>Dr Ruiye Bi</b>	Fibrillated Collagen Coating Process on PCL Structure for Enhancing Myotube Formation <b>Mr Jiun Lee</b>	Engineering Bone Microenvironment of Epidermal Growth Factors for Studying Bone Metastasis of Breast Cancer <b>Dr Chao-Ming Su, Mr Yen-Fu Lee, Dr Guo-Chung Dong</b>	Nanotools, Hydrogels and Porous Scaffolds Combined with Stem Cells for the Engineering of Different Tissues <b>Prof Rui Reis</b>	Engineering Anteroposterior Axis in 3D Human Neuroepithelium Tissue Guided by Mesendoderm <b>Miss Shu-Yung Chang</b>
14:45	Development of Platform Bioinks and Bioresins for Biofabrication in Regenerative Medicine <b>Prof Tim Woodfield</b>						Olimutinib (B1482694/HM61713, A Novel Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitor, Reverses ABCG2-mediated Multidrug Resistance in Cancer Cell Lines <b>Prof Wei Zhang</b>
14:50							
15:00							

15:05	Afternoon Tea						
	Plaza Terrace Room	P1	P2	P3	P4	P5	M5 + M6
15:35	<b>Preclinical Animal Models in TE&amp;RM</b>	<b>Decellularized Extracellular Matrix for Tissue Engineering</b>	<b>Application of Regenerative Medicine Principals in Wound Healing</b>	<b>Endogenous Tissue Repair Through Cells Instructive Biomaterials</b>	<b>Intervertebral Disc Regeneration</b>	<b>Nanostructured Biomaterials and Porous Scaffolds 2</b>	<b>Advanced Metallic Biomaterials for Musculoskeletal Disease Treatments</b>
	Chairperson: Abbas Shaffie, Nuno Silva	Chairperson: Tetsuji Yamaoka, Takashi Hoshiba	Chairperson: Nai-Chen Cheng, Sadanori Akita	Chairperson: Antonio Salgado, Ng Kee Woel	Chairperson: Bin Li, Qiang Yang	Chairperson: Tushar Kumeria, Jinmyoung Joo	Chairperson: Yufeng Zheng, Kelvin Yeung
15:35	Humanized Mouse Model for Cancer Metastasis <b>Dr Abbas Shafiee</b>	Three-dimensional Bioprinting using Tissue-specific Decellularized Extracellular Matrix <b>Prof Jin-Hyung Shim</b>	Engineering 3D Adipose-derived Stem Cell Sheet to Enhance Wound Healing <b>Dr Naichen Cheng</b>	Biomimicking Fiber Platforms for Understanding the Roles of Extracellular Matrix Topography and Biochemical Signaling on Neural Cell Fate <b>A/Prof Sing Yan Chew</b>	Multimodal Mechano-Regulation Toward Annulus Fibrosus Regeneration <b>Prof Bin Li</b>	Photoluminescent Porous Silicon for Tissue Microenvironment Monitoring <b>Prof Jinmyoung Joo</b>	Comparative Study On Biodegradable Zinc Alloy For Usage Within Bone <b>Prof Yufeng Zheng</b>
15:50	Animal Models in Spinal Cord Injury Regenerative Medicine <b>Dr Nuno Silva</b>	Cell Secreted Matrices - Superior Cell Culture Substrates for MSCs <b>Dr Daniel Heath</b>	Adipose-Derived Stem Cells Successfully Treat Rat Hindlimb Ischemia <b>Prof Sadanori Akita</b>	Biomaterials For Endogenous Regenerative Medicine: Coaxing Stem Cell Homing and Beyond <b>Dr Fa-Ming Chen</b>	Engineering a biomimetic integrated scaffold for intervertebral disc Replacement <b>Prof Qiang Yang</b>	Beta TiZrNb Alloy Scaffold Fabricated Using SLM For Orthopedic Applications <b>A/Prof Yuncang Li</b>	Titanium Gyroid Scaffolds Manufactured By Selective Laser Melting For Bone Implant Applications <b>Prof Cui Wen</b>
16:00							
16:05	Humanized bone and effects of Zoledronic acid on prostate cancer in vivo <b>Miss Marietta Landgraf</b>	Development of a Supercritical Carbon Dioxide Decellularization Method <b>Dr Lisa White</b>	Extracellular Matrices for Skin Regeneration and Keloid Therapy <b>Prof Lynn L.H. Huang</b>	Prolonged In Vitro Precultivation Alleviates Postimplantation Inflammation and Promotes Stable Subcutaneous Cartilage Formation in a Goat Model <b>Prof Yu Liu</b>	PCL/PLCL Regulates Annulus Fibrosus Cell Metabolism by Caveolin-1 <b>Dr Weidong Zhang</b>	Micro/Nano-CaP Biomimetic Scaffolds Induce Multi-tissue Regeneration <b>Prof Shengmin Zhang</b>	Designing In Vitro Tests Towards the Realisation of Medical Devices <b>Dr Akiko Yamamoto</b>
16:10	A humanised orthotopic bone-organ for preclinical multiple myeloma research <b>Mr Alvaro Sanchez</b>						
16:15	Mechanical and biological fixation of osteochondral scaffold enhanced formation of healthy cartilage: in-vivo model evaluation <b>Dr Maryam Tamaddon</b>	Network Formation of Endothelial Cells on Hydrogels Derived From Decellularized Matrices <b>Prof Tsuyoshi Kimura</b>	Facilitated Transdermal Drug Delivery Using Electroconductive Hydrogel Coupled with Reverse Electrodialysis (RED) <b>Prof Nathaniel Hwang</b>	Keratin Biomaterials For Tissue Regeneration and Functional Recovery <b>Dr Luke Burnett</b>	"Self-gated" Release of BMP-2 Peptide from MnO <sub>2</sub> /GelMA for Bone Repair <b>A/Prof Fengxuan Han</b>		
16:20						Controlling the Fate of Human Umbilical Vein Endothelial Cells (HUVECs) in Vitro Using Calcium-Rich Hydroxyapatite Phosphate Scaffolds <b>Dr Qinghao Zhang</b>	Polypeptide Co-photo-crosslinked Gelatin Hydrogel for Bone Regeneration <b>Dr Qin Shi</b>
16:25							
16:30	Fat extract improves random pattern skin flap survival in a rat model <b>Dr Wei Li</b>	Stepwise Myogenesis-mimicking Matrices for Myoblast Maturation Regulation <b>Dr Takashi Hoshiba</b>		Targeting Renal Fibrosis using Self-assembled Nanoparticles and Injectable Hydrogels <b>Dr Joan Li</b>	Lyz-imprinted NPs on PDA-modified TiO <sub>2</sub> Using Ionic Liquid as a Stabilizer <b>Dr Caihong Zhu</b>	Lanthanides Doped Hydroxyapatite for Exploratory Biomedical Tracking <b>Dr Xiyu Li</b>	Degradation, Osteogenesis and the Removal of Degradation Products of Pure Mg Implants in Vivo <b>Mrs Hua Lu</b>
16:35		3D Bioprinted Liver Tissue Models Using a Porcine Liver Bioink <b>Mr Matthew Mail</b>	Calcitonin Gene-Related Peptide Released by Peripheral Sensory Neurons Promotes Tissue Regeneration via Immune Modulation <b>Dr Yen-Zhen Lu</b>	Pre-Clinical Evaluation of Foreign Body Response to Stem Cell boosted Degradable Nanostructured Mesh for Urogynecological Treatment Surgery <b>Dr Shayanti Mukherjee</b>	Effect of Molecular Weight of Poly(2-methoxyethyl acrylate) on Interfacial Structure and Biocompatibility <b>Dr Daiki Murakami</b>		
16:40		Do-it-yourself: How to Make Extracellular Matrix for TERM Approaches <b>A/Prof Anna Blocki</b>				Peptide-decorated Nanoparticles for Direct Transportation to Cell Nucleus <b>Prof Kazuhiko Ishihara</b>	
16:45			Growth Factor-bound Cryogels Accelerate Skin Regenerative Healing in Mice <b>A/Prof Shiro Jimi</b>		Biological Remodelling of the Postoperative Intervertebral Disc Allograft <b>Dr Yongcan Huang</b>		
16:50						Antibacterial Efficacy and Biocompatibility Study of Silver Nanoparticles Doped Poly (2-Hydroxyethyl methacrylate) For Potential Applications in Tissue Engineering. <b>Mrs Praveen Praveen</b>	
16:55			Rapid Gelation of Collagen Adhesive for Sutureless Corneal Wound Repair <b>Dr Qin Zhang</b>			3D-Printed Multifunctional Scaffolds for Bioengineering Applications <b>Ms Tara Shabab</b>	
17:00							
17:05							
17:10							
17:15							
17:45	TERMIS General Assembly						
19:00	Congress Dinner 19:00 - 23:00 Boulevard Room						
23:00							

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Wednesday, 16 October 2019

	Plaza Terrace Room	P1	P2	P3	P4	P5	M5	M6
08:50	<b>Plaza Terrace Room Plenary Session</b>							
08:50	Enhancing Chondrogenesis and Supporting Hyertrophy in Human MSCs Through Optimising 3D Culture Conditions and Modulating Wnt/Catenin Signaling <b>Prof Rocky Tuan</b>							
09:25	<b>Plaza Terrace Room Plenary Session</b>							
09:25	Medical Devices Developed During My Kidney Disease Life of Over 32 Years <b>Prof Tsutomu Furuzono</b>							
10:00	<b>Morning Tea</b>							
	Plaza Terrace Room	P1	P2	P3	P4	P5	M5 + M6	M7
10:30	<b>BoneTec-Clinical Challenges in Bone Tissue Engineering</b>	<b>Functional Biomaterials and Surfaces for Biomedical Applications 1</b>	<b>Biomaterials for Cardiovascular Applications</b>	<b>Bioactive Immunomodulatory Materials</b>	<b>Advanced Technologies for Cell Culture and Delivery</b>	<b>Regenerative Biomaterials and Scaffolds 1</b>	<b>Nature Inspired Biomaterials Towards Tissue Regeneration 1</b>	<b>Cellular and Tissue Biomechanics</b>
	Chairperson: Karl-Heinz Schuckert, Martijn Van Griensven	Chairperson: Guoping Chen, Tetsushi Taguchi	Chairperson: Tony Weiss, Xiumei Mo	Chairperson: Richard Tan, Simon Wei	Chairperson: Neil Cameron, Jess Frith	Chairperson: Shufang Zhang, Sandra Camarero-Espinosa	Chairperson: Yangzi Jiang, Xin Zhao	Chairperson: Chia-Ching Wu, Masaya Yamamoto
10:30	Neutrophil-Mediated Bone Regeneration <b>A/Prof Bee Tin Goh</b>	Development of Hydrophobically-modified Fish Gelatin-based Adhesive <b>Dr Tetsushi Taguchi</b>	Effect of Implantation Site on Outcome of Tissue-Engineered Vascular Grafts <b>Prof Beat Walpoth</b>	Infection: Waiting at the Door for Translation of TERM to the Patient <b>Prof Geoff Richards</b>	Microfluidic Encapsulation of MSCs in Gelatin Microspheres for Bottom Up Assembly of Cartilage Tissue <b>Prof John Forsythe</b>	Micro/Nano-CaP Biomimetic Scaffolds Induce Multi-tissue Regeneration <b>Prof Shengmin Zhang</b>	Accelerated Formulation of Lung Tumor-Derived Organoids in Water-Oil-Water Double Emulsions <b>Prof Megan Ho</b>	Multiscale Biomechanics Approach to Understanding Roles Forces in Multicellular Tissue Morphogenesis <b>Prof Taiji Adachi</b>
10:45	Lessons Learned from Reconstruction of a 33 cm Human Femur Defect using 3D Printed Bioresorbable Scaffold <b>Dr Sultan Maskari</b>	Gene Transfection into Mesenchymal Stem Cells on Micropatterned Surfaces <b>Dr Naoki Kawazoe</b>	Cardiovascular Tissue Engineering for Use in Congenital Heart Surgery <b>Kevin Blum</b>	Bioactive Materials Facilitating Targeted Local Modulation of Inflammation <b>Dr Steven Wise</b>	Building the Toolboxes to Create 4D Cell Culture Systems <b>Prof Sally Mearthur</b>	Self-assembled Biomaterials To Control Cell Fate <b>Dr Sandra Camarero-Espinosa</b>	Human Hair Keratins - A Nature Derived & Versatile Biomaterial Platform <b>A/Prof Kee Woei Ng</b>	Ha-Rasv12 Overexpression Causes Loss of Cyclic Stretch-induced Perpendicular Alignment in MDCK Cells <b>Prof Ming Jer Tang</b>
10:50								
11:00								
11:05	Bone Morphogenic Proteins and their Receptors in Bone and Cardiovascular Diseases <b>Prof Peter Ten Dijke</b>	Conductive, Piezoelectric Materials with Stimulus-responsive Drug Release <b>Prof Joo Ong</b>	Electrospun Nanofibrous Bilayered Scaffold for Vascular Tissue Engineering <b>Prof Xiumei Mo</b>	Functional Design of Biomaterials to Target Early Inflammatory Response for Tissue Repair and Regeneration <b>Prof Yin Xiao</b>	Engineering Pro-vascular Microenvironments for Tissue Regeneration <b>Dr Jelena Rnjak-Kovacina</b>	Exosome-integrated Titanium Nanotubes for Bone Regeneration <b>Dr Yinghong Zhou</b>	Layered biomaterials maintain the self-renew of mouse embryonic stem cells <b>Prof Rongrong Zhu</b>	Mechanical and Material Interfaces on Differentiation Dynamics for Adipose-derived Stem Cells <b>Prof Chia-Ching (Josh) Wu</b>
11:10		Rapid Synthetic Vascular Graft Re-endothelialisation Driven by Fibrillin-1 <b>Mr Bob Shih-Liang Lee</b>						Magnetic Force - Assisted Sandwich Culture for Epithelial Cells <b>Prof Masaya Yamamoto</b>
11:15								
11:20	Bone Development in Vertical Dimension - A Special Challenge in Oral Surgery <b>Dr Karl-Heinz Schuckert</b>	Influence of Porous Gelatin Hydrogels on Chondrocyte Functions <b>A/Prof Xiaomeng Li</b>	Evolution of Metallic Biomaterials for Cardiovascular Stents <b>Prof Donghui Zhu</b>	Combinatorial Surface Roughness effects on Osteoclastogenesis and Osteogenesis <b>Dr Yang Zhang</b>	Bioreactor derived human fetal mesenchymal stem cell secretion promote diabetic skin wound healing <b>Prof Gang Li</b>	A Natural ECM-based Hydrogel for Multi-tissue Adhesion and Hemostasis with Massive Hemorrhage <b>A/Prof Shufang Zhang</b>	NO-generating Cardiovascular Stent Coatings for Thrombosis Prevention <b>Mr Qiang Zhang</b>	Volume adaptation controls stem cell mechanotransduction/differentiation <b>Dr Yu Suk Choi</b>
11:25								
11:30		The Role of Neurogenesis in Bone Regeneration <b>Dr Lan Xiao</b>						
11:35	Co-morbidities Influence Regeneration of Critical Defects in Long Bones <b>Dr Martijn Van Griensven</b>		Novel Polymeric Heart Valves With Improved Low-fouling Properties <b>Prof Xing Zhang</b>	Bioactive Coatings of M-CSF Mitigate the Foreign Body Response <b>Mr Nianji Yang</b>	Placental Cell Therapy for the Treatment of Muscle Trauma: From Preclinical Models to clinical Phase III <b>Dr Tobias Winkler</b>	3D Cartilage Substitutes Scaffolds for Articular Chondrocytes Culture and Cartilage Defect Regeneration in vivo <b>Dr Yih-Wen Tarrg</b>	Purification of Human Hair Keratin Subtypes for Functional Studies <b>Miss Hui Ying Lai</b>	Mechanical stimulation for tissue engineering: Characterising load-induced changes by the 'collagen barcode' <b>Dr James Henstock</b>
11:40			Biomimetic Engineered Vascular Niche for improved Vascular Grafts <b>Mrs Shouyuan Jiang</b>	Immune-instructive Materials for Modulating Dendritic Cell Function; Novel Tools for Immunotherapy <b>Prof Amir Ghaemmaghami</b>				Design and Fabrication of Biomimetic Composites for Soft Tissue Engineering Application <b>Miss Mina Mohseni</b>
11:45	Bone Substitutes with Osteoconductive Microarchitectures to Avoid Non-union <b>Prof Franz Weber</b>		Towards Patient-Specific Bioresorbable Stents: Tubular Melt Electrowritten Poly( $\epsilon$ -caprolactone) Scaffolds Mechanically Enhanced with Graphene Oxide <b>Mr Trent Brooks-Richards</b>		Engineered Nano-Bio Interfaces for Intracellular Delivery <b>Ms Crystal Chen</b>	Bioprinting of Human Endometrial Stem Cell (eMSC) on 3D Melt Electrospun meshes Induce Anti-inflammatory Response in a Mouse Model <b>Mr Kallyanashis Paul</b>	Bioinspired Protein-Based Laser-Activated Nanotherapy for Cancer Treatment <b>Ms Yeonsu Jeong</b>	Functional Mechanical Testing of Native Human Distal Femoral Articular Cartilage <b>Mr Waffiq Kabir</b>
11:50								
11:55					Vitrification of spheroids by using polyampholytes without liquid nitrogen <b>Prof Kazuki Matsumura</b>			



14:30	Afternoon Tea							
	Plaza Terrace Room	P1	P2	P3	P4	P5	M5 + M6	M7
15:00	<b>BoneTec: Bio-Inspired Matrices for Bone Tissue Engineering</b>	<b>Functional Biomaterials and Surfaces for Biomedical Applications 3</b>	<b>Tissue Interface and Bone Tissue Engineering</b>	<b>Dental Stem Cells: Therapeutic Potential and Beyond</b>	<b>Recapitulating Human Vasculature for Translational Medicine</b>	<b>Regenerative Biomaterials and Scaffolds 3</b>	<b>Nature Inspired Biomaterials Towards Tissue Regeneration 2</b>	<b>Engineering Multiscale Vasculature for Tissue and Organ Engineering</b>
	Chairperson: Simon Cool, Swee-Hin Teoh	Chairperson: Wei Liu, Guangdong Zhou	Chairperson: Yin Xiao, Xinqun Jiang	Chairperson: Kanika Jain, Saso Ivanovski	Chairperson: Laura Bray, Jelena Rnjak-Kovacic	Chairperson: Jiang Chang	Chairperson: Hyung Joon Cha, Tiago Silva	Chairperson: Tatsuya Shimizu, Khoon Lim
15:00	Cryoprotectant Enables Structural Control of Porous Scaffolds for Exploration of Cellular Mechano-responsiveness in 3D <b>Prof Yanan Du</b>	Nanoengineered Surfaces for Medical Devices and Diagnostics <b>Prof Krasimir Vasilev</b>	New strategies for vascularized tissue regeneration in oral and maxillofacial regions <b>Prof Xinqun Jiang</b>	Gingival Fibroblast: A Kind of Neural Crest Stem Cells <b>A/Prof Benjamin Fournier</b>	In vitro assembly of human capillary networks derived from human induced pluripotent stem cell-derived endothelial cells (hiPSC ECs) for tissue flap bio-engineering <b>A/Prof Geraldine Mitchell</b>	Bindarit Alleviates Diabetic Periodontitis by Suppressing Inflammatory Monocyte Infiltration and Reshaping Resident Macrophage Properties <b>Prof Zhengmei Lin</b>	Mussel protein biogluce-based delivery systems for stem cells and drugs <b>Prof Hyung Joon Cha</b>	Creation of Multi-scale Vascular Networks in Engineered Tissues <b>A/Prof Jeroen Rouwkema</b>
15:15	Osteogenic Programming by Inhibiting Epigenetic Suppression <b>Prof Andre Van Wijnen</b>	Near-Infrared Light Control of Bone Regeneration with Biodegradable Photothermal Osteoimplant <b>Prof Huaiyu Wang</b>	Gelatin-based bioadhesives for meniscus repair <b>A/Prof Travis Klein</b>	Harnessing the Power of Functional Genomics <b>Dr Luis Fernando Malaver</b>	From Bench to Bedside: A Translational Practice of Silk Fibroin Biomaterial in Wound Healing <b>Dr Xiaohui Zou</b>	Biomimetic Biphasic Hydrogel Improved Osteochondral Regeneration <b>A/Prof Jinfeng Liao</b>	Marine Biotechnology on Tissue Engineering: some key-enabling tools <b>Dr Tiago H. Silva</b>	Rapid Endothelialization of Small Diameter Silk Vascular Grafts <b>Dr Steven Wise</b>
15:25						Bone Regeneration in Osteoporotic Model via Alendronate Loaded Calcium Phosphate Granule <b>Prof Daniel Oh, Prof Chunsik Bae</b>		
15:30						Behaviors of Mesenchymal Stem Cells on Graphene Attached Soft Material Structure <b>Prof Masahito Ban</b>	Coagulation on Immobilised Liquid Surfaces <b>Dr Anna Waterhouse</b>	
15:35	Biomimetic Glycosaminoglycan Matrices for Enhanced Bone Tissue Regeneration <b>Prof Simon Cool</b>	A Quest for Reproducibility - Automation and High-throughput Processing of In Vitro Disease Models <b>Dr Nathalie Bock</b>	Aesthetic correction of nasal lobule using 3D PCL meshes <b>Prof Eunsoo Park</b>	Placental Stem Cell Treatment to Protect the Growth Restricted Newborn Brain <b>Dr Julie Wixey</b>	Cancer-associated fibroblasts influence endothelial cell vessel-like formation in a 3D mammary microenvironment model <b>Ms Maria Koch</b>			Engineering Three-dimensional Tissues Using Cell Sheet Technology and Collagen-based Vasculature Bed <b>A/Prof Katsuhisa Sakaguchi</b>
15:40					VEGF-mediated Vasculature of 3D Bioprinted Human Heart Tissues <b>Dr Carmine Gentile</b>		: The Role of Mechanical Stimulation in Engineered Tendon Repair with HA Coated Composite Scaffold. <b>Mr Wenbo Wang</b>	
15:45						Regeneration of Human Ear Shaped Cartilage with Acellular Cartilage Matrix Biomimetic Scaffold <b>Prof Litao Jia</b>		
15:50	Reconstruction of Amputated Bone by Teriparatide with OCP/Collagen <b>Prof Shinji Kamakura</b>	Controlled Phagocytosis of Thermoresponsive Core-corona Type Nanoparticles <b>Prof Akihiko Kikuchi</b>	Fabrication of Bioactive Multilayered Composite Scaffold Presenting Native Bone Mimicking Biochemical and Biophysical Features for Regeneration of Vasculatured Bone Tissue <b>Mr Farhad Sohelimghaddam</b>	Buccal Fat Pad: An Untapped Source of Stromal/stem Cells for Regenerating the Oral and Dental Periodontal Tissues <b>Dr Kanika Jain</b>	Brain Tissue-like 3D Microfluidic Brain Chip <b>Ms Jin Kim</b>		Bovine Tendon Extracellular Matrix Modified Nanofibers Promote Tenogenic Differentiation of MSCs in Vitro and Rat Achilles Tendon Repair in Vivo <b>Mr Tian Tu</b>	In Vivo Vasculature for Tissue and Organ Fabrication <b>Dr Hidekazu Sekine</b>
15:55								
16:00	Biomaterial-guided Immobilization and Osteoactivity of BMP-2 <b>Dr Baolin Huang</b>	A Self-assembled PEM Film to Fabricate a Neuron-rich Model from NSPCs <b>A/Prof Yi-Chen Li</b>	Micro-structured Hydrogels for Growing Peripheral Nerve Endoneurial Sheath <b>Dr Ulises Aregueta</b>			Asiaticoside Loading Enhances the Anti-inflammatory Capacity of PLGA Nanofiber by Mediating the Polarisation of Macrophage <b>Prof Jia Huang</b>		
16:05	Highly Porous Polymer Scaffolds Fabricated by Digital Light Processing for Bone Tissue Engineering <b>Mr Shengrong Du</b>	Polycaprolactone Nanofibers containing Vascular Endothelial Growth Factor-encapsulated Gelatin Particles enhance Mesenchymal Stem Cell Differentiation and Angiogenesis of Endothelial Cells <b>Dr Yong-Chao Jiang</b>	Development of tailorable 3D printed scaffolds for urological applications <b>Dr Cynthia Wong</b>	Clinical Efficacy of Autologous BMMSC Grafting for Severe Alveolar Defect <b>Xin Tong</b>	Vasculogenesis in Hydrogels and Strategies to Prevent Predated Vascular Network Disintegration <b>A/Prof Sebastian Beyer</b>		Grape Seeds-Inspired Hydrogel Scaffolds for Melanoma Therapy and Wound Healing <b>Miss Hongshi Ma</b>	Priming hMSCs for Improved Neo-vascularization using Engineered ECMs <b>Dr Sara Romanazzo</b>
16:10	Development of Electroactive Scaffolds for Bone Tissue Engineering <b>Ms Yibing Dong</b>			Nitric Oxide Release Coating for Blood Contacting Devices <b>Ms Jayanti Mendhi</b>				On-demand Extracellular Matrix Reinforcement Produces Stable Capillary-like Networks in Vitro <b>Dr Christoph Meinert</b>
16:15		Tannic Acid Film for Label-free, Chemical Capture of Circulating Tumor Cells <b>Ms Lulu Han</b>						
16:20								
16:25		Acid-Degradable Polyrotaxanes Prevent LPS-Induced Fulminant Hepatitis <b>Dr Atsushi Tamura</b>		Osteogenic Differentiated Dental Follicle Stem Cells induce Periodontal Regeneration via Exosome-dependent Immunoregulation <b>Dr Lan Xiao</b>				





Tissue Engineering & Regenerative Medicine International Society - AP Chapter and the 7th Asian Biomaterials Congress				
MONDAY 14 October 2019 - THURSDAY 17 October 2019				
Brisbane Convention & Exhibition Centre				
*Please note this program is current as of 11 October and is subject to change.				
Thursday, 17 October 2019				
	Plaza Terrace Room	P1	P2	P3
08:50	Plaza Terrace Room Plenary Session			
08:50	Impact and Scope of Smart Electrospun Nanotextiles in Healthcare Dr Deepthy Menon			
09:25	Morning Tea			
	Plaza Terrace Room	P1	P2	P3
10:00	Corneal, Nerve and Induced Pluripotent Stem Cells	Functional Hydrogels for Cellular and Tissue Engineering 1	Injectable Biomaterials for Translational Medicine 1	Regenerative Medicine for Joint Diseases
	Chairperson: Damien Harkin, Mark Daniell	Chairperson: Justin Cooper-White, Liming Bian	Chairperson: Wenjie Zhang, Phong Tran	Chairperson: Xing Long, Indra Prasadam
10:00	Corneal Bioengineering: reducing the burden of corneal blindness Prof Gerard Sutton	Dynamic hydrogels for enhanced mechanosensing of stem cells in 3D Prof Liming Bian	Fibre-reinforced Hydrogels: Composites Following Nature's Blueprints Dr Onur Bas	Intra-articular injections of hyaluronic acid for Temporomandibular disorders Prof Xing Long
10:15	Proliferative capacity of corneal endothelial progenitor cell spheres Dr Karl Brown	Mussel-inspired cardiovascular stent coatings to prevent thrombosis Dr Xin Zhao	Microscale Porosity and Its Roles In Regenerative Medicine Dr Phong Tran	The Role of Squid Type II Collagen for Relieving Degenerative Osteoarthritis via Inhibiting STAT1 in Pro-inflammatory Macrophages Prof Jiao Sun
10:30	The Impact of Limbal Mesenchymal Stromal Cells on the Healing of Acute Ocular Surface Wounds, is Improved by Pre-cultivation and Implantation in the Presence of Limbal Epithelial cells Prof Damien Harkin	Tissue-specific hydrogel for reprogramming and organoid technology Prof Seung-Woo Cho	Degradable injectable thermogelling polymers for adhesion prevention Prof Yuichi Ohya	Stable Ectopic Chondrogenesis by Chondromodulin-1 Up-regulation Dr Wei Fang
10:40			New Biodegradable Thermoresponsive Adhesive Material For Ophthalmic Applications Mr Muthana T. Alsadoun	
10:45	Curcumin-loaded Gelatin Scaffold for Corneal Tissue Engineering Miss Pei-Chen Li	Improving mechanical properties of gelatins by polyrotaxane crosslinkers Mr Dae Hoon Lee	Injectable, Non-diffusible and Pre-filled Type Bone Pastes Mr Xi Chen	Optical biomarkers for the early diagnosis of osteoarthritis Dr Joana Magalhaes
10:50				
10:55	TATk Fusion Proteins of Oct-3/4, Klf4 And Sox2 for safer iPSC generation Ms Ubashini Vijakumaran	Microgel-Driven Angiogenesis in Self-assembling Ultrashort Peptide Hydrogels Mr Gustavo Ramirez	The Biosafety of Injectable Cartilage Prof Lin Yao	Delivery of HAS2 by biodegradable nanoparticles to increase HA production Miss Huimin Li
11:00				
11:05	CRISPR-based Activation of Endogenous Neurotrophic Genes in Adipose Stem Cell Sheets to Stimulate Peripheral Nerve Regeneration Dr Mu Nung Hsu	Combination of Cellular Therapy with Gellan Gum Hydrogels for the Treatment of Cervical, Thoracic and Lumbar Spinal Cord Injuries Mr Eduardo Gomes		Immunomodulatory role of macrophages in synovial chondromatosis of TMJ Mr Yingjie Li
11:10				
11:15	Fluidity of supported lipid bilayers influences neural stem cells fate Prof Yanyan Chen	Combining large and small molecule self assembly to form peptide hydrogels for muscle tissue engineering Dr Richard Williams		
11:20				
11:25		CoAssembled Peptide/Gelatin Methacrylate (GelMA) Enhanced Bioinks for Myotube Bioprinting Ms Kate Firipis		

11:30	Lunch Break			
	Plaza Terrace Room	P1	P2	P3
12:30	<b>Innovative Technology for Genetic Engineering in Regenerative Medicine</b>	<b>Functional Hydrogels for Cellular and Tissue Engineering 2</b>	<b>Injectable Biomaterials for Translational Medicine 2</b>	<b>Technologies for Tendon and Muscle Tissue Engineering</b>
	Chairperson: Yu-Chen (Andy) Hu, Guei-Sheung Liu	Chairperson: Yin Xiao, Zhengmei Lin	Chairperson: Liming Bian, Lei Yang	Chairperson: Tatsuya Shimizu, Hironobu Takahashi
12:30	Development of cell reprogramming technology to generate human photoreceptors using CRISPR activation <b>Dr Raymond Wong</b>	A Polyphenol-based Dynamic and Multi function Hydrogel Via High-Affinity Enzyme Crosslinking <b>Prof Nathaniel Hwang</b>	Self-assembled injectable nanocomposite hydrogels for tissue engineering <b>Prof Liming Bian</b>	Cardiac cell sheet for understanding heart failure and cardiac maturation <b>Dr Katsuhisa Matsuura</b>
12:45	CRISPR Technology for Tissue Regeneration <b>Prof Yu-Chen (andy) Hu</b>	Dual-therapeutic Hydrogels with Sequential Release Microcapsules for Regeneration of Dental Pulp <b>Yimin Sun</b>	An injectable nanocomposite for the augmentation of pedicle screw fixation <b>Prof Lei Yang</b>	Engineering myofiber constructs for studies of skeletal muscle physiology <b>Dr Hironobu Takahashi</b>
12:55				
13:00	Comparison of CRISPR/Cas Endonucleases for Targeted Gene Editing in the Retina <b>Dr Guei-Sheung Liu</b>	Soft Hydrogel Improve Cell Reprogramming by Modulating Distinct Phases of Reprogramming <b>Dr Mohammad Chowdhury</b>	An injectable construct for enhancing osteochondral regeneration <b>Dr Haiyan Li</b>	Muscle-on-Chip with a Mechanically Tunable 3D Microenvironment <b>Mr Chak Ming Leung</b>
13:05				
13:10				
13:15	Chemically modified RNA encoding BMP-2 and VEGF-A improves bone defect repair in rat model <b>Prof Wei Fu</b>	Peptide hydrogels as scaffolds for long-term 3D primary neuronal cultures Dr Adam Martin	A viscoelastic adhesive epicardial patch for treating myocardial infarction <b>A/Prof Xiao Lin</b>	Textile Reinforced Hydrogels for Muscle Tissue Engineering Applications <b>Mrs Nikola Glimpel</b>
13:20		Supramolecular nanofibers with superior bioactivity to IGF-1 <b>A/Prof Jie Gao</b>	Spatial micropatterning of hyaluronic acid entrapped rhBMP-2 for regulation of cellular behaviors <b>Ms Hongyan He</b>	Bioprinting skeletal muscle for neuroprosthetic interfacing <b>Dr Catherine Ngan</b>
13:25	An all-in-one dual function CRISPRai platform for calvarial bone healing <b>Mr Anh Vu Truong</b>			Tissue engineered hydrogel scaffolds to study bone-tendon interface development <b>Miss Ilze Donderwinkel</b>
13:30				
13:35	CRISPR Activation of Long Non-Coding RNA Dancr Promotes Chondrogenic Differentiation of Adipose-derived Mesenchymal Stem Cells and Bone Regeneration <b>Miss Thi Kieu Nuong Nguyen</b>			Integrin/TGF-b Signaling Crosstalk Mediates the Protenogenic Effect of Tendon Extracellular Matrix in Human Adipose-derived Stem Cells <b>Prof Dan Wang</b>
13:40				
13:45				
13:50				
14:00	<b>Plaza Terrace Room</b> <b>Closing Ceremony and Awards Ceremony</b>			
14:00	TERMIS Awards Ceremony			
14:30	TERMIS-AP + ABMC7 2019 Awards Ceremony			
14:45	Congress Handover TERMIS-AP			
14:55	Congress Handover ABMC			
15:05	Closing Words of Congress			