

Program Schedule

Themes	Advances Stem Cell Differentiation and Developmental Biology
	Biomaterials and Cell-based Products In Regenerative Therapy and Tissue Engineering
	Modelling Development and Disease
	Clinical Transplantation: Lesson from Adult Stem Cells

March 30				
0845 – 0900	Opening Ceremony			
0900 – 1000	Keynote I–Associate Professor Dr Harald Ott Massachusetts General Hospital, Harvard Medical School, USA Title: Organs on Demand – Solving Chronic Disease with Stem Cells and Organ Engineering			
1000 – 1100	Session 1 Clinical Transplantation	Session 2 Stem Cell Differentiation for Therapy and Disease Modelling	Session 3 Tissue Engineering in Modeling Diseases	Session 4 Stem Cell Differentiation and Quality Control
1100 – 1200	Chair: Dr Zarina Thasneem Zainudeen Speakers Prof Azlan Husin Dr Mohamed Najib Mohamed Unni Dr Sharifah Shahnaz bt Syed Abd Kadir Dr Masita Arip (Full Schedule on Page I)	Chair: Assoc Prof Dr Leong Pooi Pooi, Dr Teoh Hoon Koon Speakers Dr Chanchao Lorthongpanich Ms Nalini Devi Verusingam Dr Amy Siak Yi Hsan Assoc. Prof. Dr Teoh Peik Lin (Full Schedule on Page I)	Chair: Assoc Prof Dr Chua Kien Hui, Dr Ng Sook Luan Speakers Assc Prof. Dr Chua Kien Hui Dr Suzana Makpol Dr Mohd Heikal Mohd Yunus Dr Ng Sook Luan (Full Schedule on Page II)	Chair: Dr Nurul Ain Nasim Mohd Yusof; Dr Tengku Faris Speakers Dr. Tenneille Ludwig Dr Adrian Teo Dr. Lazaros Fotopoulous Dr. Jordan Thorpe (Full Schedule on Page II)
1200 – 1230	Session 5 SYIS Poster Presentation	Session 6 SYIS Oral Presentation	Session 7 SYIS Oral Presentation	Session 8 Free Paper Oral presentation
1230 – 1300	(Full Schedule on Page VI)	(Full Schedule on Page VI)	(Full Schedule on Page VI)	(Full Schedule on Page VII)
1300 – 1400	Session 9 Lunch Talk by the Platinum Sponsor (CBR) Connecting Stem Cell Science to Bedside : How to not work in silos?			

8th MALAYSIAN TISSUE ENGINEERING AND REGENERATIVE MEDICINE SCIENTIFIC MEETING (MTERMS) 2022

1400 – 1500	Session 10 Clinical Transplantation II Chair: Dr Ille Fadzilah Hashim Speakers Professor Hany Ariffin Dr Reem Ahmed Abdelmoneim Elfeky Dr Intan Juliana Abd Hamid Dr Mary Slatter (Full Schedule on Page II)	Session 11 Biomaterials in Cardiovascular tissue engineering Chair: Dr Sara Pahlavan Speakers Dr Sara Pahlavan Dr. Sarah Rajabi Dr. Hamid Sadegi Abandansari Dr. Fatemeh Radmanesh (Full Schedule on Page III)	Session 12 SYIS Oral Presentation (Full Schedule on Page VII)	Session 13 SYIS Oral Presentation (Full Schedule on Page VII)
1500 – 1600				
1600 – 1700	Keynote II: Professor Lim Sai Kiang Institute of Molecular and Cell Biology, A-Star Singapore Title: Current State of the Art in MSC Exosome Research			

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March 31			
0845 – 0900	Registration		
0900 – 1000	Keynote III: Professor John Rasko University of Sydney Australia Title: Advances in CAR-T cells and its Clinical Applications		
1000 – 1100	Session 14 Ethics and Regulation in Cell Transplantation Chair: TBC; Dr. Tan Sik Loo Speakers Professor Lim Sai Kiang Dr Chau Deming Dr Firdaus Dr Evelyn Loh (Full Schedule on Page III)	Session 16 MSCs in Clinical translation Chair: Dr Jezamine Lim; Dr Abid Nordin Speakers Dr Gabriel Salgo Dr Pawan Gupta Dr Uday Kumar Dr Suresh Kannan (Full Schedule on Page III)	Session 17 Potential Clinical Application of Adult Stem Cells and The Way Forward with Artificial Intelligence Chair: Assoc Prof Dr Mok Pooi Ling; Dr Lim Moon Nian Speakers Assoc Prof Dr Nor Azian Abdul Murad Dr Lim Moon Nian Prof Dr Suresh Subbiah Kumar Assoc Prof Dr. Saraswathi (Full Schedule on Page IV)
1100 – 1200			
1200 – 1230	Session 18 SYIS Poster Presentation (Full Schedule on Page VIII)	Session 19 SYIS Oral Presentation (Full Schedule on Page VIII)	Session 20 SYIS Oral Presentation (Full Schedule on Page VIII)
1230 – 1300			
1300 – 1400	Lunch Break		
1400 – 1500	Session 22 Stem Cell Differentiation for Therapy and Disease Modelling Chair: Assoc Prof Dr Norshariza Nordin; Assoc Prof Dr Michael Ling Speakers Dr Chan Wai Kit Assoc Prof Dr Pallab Bhattacharya Assoc Prof Dr Norshariza Nordin Assoc Prof Dr Michael Ling (Full Schedule on Page IV)	Session 23 Biomaterials and Cell Based Products in Regenerative Therapy and Tissue Engineering Chair: Professor Antonella Motta; Assoc Prof. Dr Mh Busra Fauzi Speakers Prof Masaya Yamamoto Dr Lucie Low Prof Tony Weiss Assistant Professor Dr Rui Domingues (Full Schedule on Page IV)	Session 24 Biomaterials and Cell-Based Products in Regenerative Therapy and Tissue Engineering Chair: Dr Law Jia Xian; Assoc Prof. Dr Angela Speakers Dr. Foo Jhi Biau Dr Looi Qi Hao Prof Alireza Fazeli Dr Oksana Kehoe (Full Schedule on Page V)
1500 – 1600			
1600 – 1700	Keynote IV: Professor Alicia El-Haj University of Birmingham, United Kingdom Title: Ethics and regulation for Tissue Engineered Medical Products		
1700 – 1730	Award Presentation and Closing Ceremony		



Date: 30 March 2022

Session 1: Clinical Transplantation: Lesson from Adult Stem Cells

Chair	Dr Zarina Thasneem Zainudeen, <i>Universiti Sains Malaysia</i>
1000 – 1030	Professor Dr Azlan Husin , <i>Universiti Sains Malaysia</i> Is Autologous Hematopoietic Stem Cell Transplantation Still Relevant?
1030 – 1100	Dr Mohamed Najib Mohamed Unni , <i>Tunku Azizah Hospital Kuala Lumpur</i> Allogeneic Hematopoietic Stem Cell Transplant in Wiskott-Aldrich Syndrome
1100 – 1130	Dr Sharifah Shahnaz bt Syed Abd Kadir , <i>Ampang Hospital</i> Shrinking Family Size - Alternative Donors to Make Stem Cell Transplant Possible In Adults
1130 – 1200	Dr Masita Arip , <i>Institute for Medical Research NIH</i> Update on Haematopoietic Stem Cell Donation in Malaysia

Date: 30 March 2022

Session 2: Stem Cell Differentiation for Therapy and Disease Modelling

Chair	Associate Professor Dr Leng Pooi Pooi, <i>Universiti Tunku Abdul Rahman</i>
Co-Chair	Assistant Professor Dr Teoh Hoon Koon, <i>Universiti Tunku Abdul Rahman</i>
1000 – 1030	Dr Chanchao Lorthongpanich , <i>Mahidol University, Bangkok, Thailand</i> Lab-Grown Blood Cells Towards Transfusion Therapy
1030 – 1100	Dr Nalini Devi Verusingam , <i>Universiti Tunku Abdul Rahman</i> Establishment of In vitro 3D Lung Organoid Co-Culture System to Investigate the Impact of EGFR-TKI Resistance on Tumour Microenvironment of Non-Small Cells Lung Cancer
1100 – 1130	Dr Amy Saik Yi Hsan , <i>Universiti Tunku Abdul Rahman</i> Monocytic Cells Derived From AML-M5-Specific Ipscs: A Suitable Disease Model?
1130 – 1200	Dr Teoh Peik Lin , <i>Universiti Malaysia Sabah</i> Modulation of Mesenchymal Stem Cell Fate with Biomaterial

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Date: 30 March 2022	
Session 3: Tissue Engineering in Modelling Diseases	
Chair	Associate Professor Dr Chua Kien Hui, <i>Universiti Kebangsaan Malaysia</i>
Co-Chair	Dr Ng Sook Luan, <i>Universiti Kebangsaan Malaysia</i>
1000 – 1030	Associate Professor Dr Chua Kien Hui , <i>Universiti Kebangsaan Malaysia</i> Hepatocytes Injuries Model and Human Mesenchymal Stem Cell Repair Mechanism
1030 – 1100	Dr Suzana Makpol , <i>Universiti Kebangsaan Malaysia</i> Construction of Human Skin Model For Chemical Or Cosmetic Testing
1100 – 1130	Dr Mohd Heikal Mohd Yunus , <i>Universiti Kebangsaan Malaysia</i> Human Osteoarthritic Chondrocyte Model and Natural Product with Anti-Osteoarthritis Property
1130 – 1200	Dr Ng Sook Luan , <i>Universiti Kebangsaan Malaysia</i> Acanthamoeba Keratitis Cellular Model and Its Treatment

Date: 30 March 2022	
Session 4: Stem Cell Differentiation and Quality Control	
Chair	Dr. Nurul Ain Nasim Mohd Yusof, <i>Institute for Medical Research Malaysia</i>
Co-Chair	Dr. Tengku Faris, <i>International Islamic University Malaysia</i>
1000 – 1030	Dr. Tenneille Ludwig , <i>WiCell Stem Cell Bank, United States of America</i> The Road to Cell Therapies: Building strong foundations and avoiding roadblocks
1030 – 1100	Dr Adrian Teo , <i>National University of Singapore</i> Modelling Human Pancreas Development to Study Diabetes Disease Mechanisms
1100 – 1130	Dr. Lazaros Fotopoulous , <i>King's College London, United Kingdom</i> Stem Cell Phenotyping Facility: “The Stem Cell Hotel” Projects & Science Translation
1130 – 1200	Dr. Jordan Thorpe , <i>Victor Chang Cardiac Research Institute, Australia</i> Generating Atrial Engineered Heart Tissue for Investigation of Cardiac Arrhythmia

Date: 30 March 2022
Session 9: Sponsored Lunch Talk: Connecting Stem Cell Science to Bedside : How to not work in silos?

Date: 30 March 2022	
Session 10: Stem Cell Transplantation II	
Chair	Dr Ille Fadzilah Hashim, <i>Universiti Sains Malaysia</i>
1400 – 1430	Dr Intan Juliana Abd Hamid , <i>Universiti Sains Malaysia</i> Challenges and success of allogeneic HSCT for Inborn Errors of Immunity (IEI) patients in Malaysia.
1430 – 1500	Professor Hany Ariffin , <i>University of Malaya Medical Centre</i> HLA-haploidentical HSCT for children: Experience from UMMC
1500 – 1530	Dr Reem Ahmed Abdelmoneim Elfeky , <i>Bristol Royal Hospital for Children, UK</i> Cord donor HSCT in Inborn Errors of Immunity
1530 – 1600	Dr Mary Slatter , <i>Great North Children's Hospital, Newcastle upon Tyne, UK</i> Mismatched Donors for Inborn Errors Of Immunity: A New Perspective

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Date: 30 March 2022	
Session 11: Biomaterials in Cardiovascular Tissue Engineering	
Chair	Dr Sara Pahlavan, <i>Royan Institute for Stem Cell Biology and Technology, Iran</i>
1400 – 1430	Dr Sara Pahlavan , <i>Royan Institute for Stem Cell Biology and Technology, Iran</i> Upgrading Treatment Strategies of Cardiovascular Diseases Using Biotechnology: Are We Still There
1430 – 1500	Dr. Sarah Rajabi , <i>Royan Institute for Stem Cell Biology and Technology, Iran</i> Conductive Biomaterials In Cardiac Tissue Engineering
1500 – 1530	Dr. Hamid Sadegi Abandansari , <i>Royan Institute for Stem Cell Biology and Technology, Iran</i> Injectable Hydrogels in Cardiac Tissue Engineering
1530 – 1600	Dr. Fatemeh Radmanesh , <i>Royan Institute for Stem Cell Biology and Technology, Iran</i> Introduction Of Novel Polymeric Congugates as Delivery System For RNA Therapy In Cardiovascular Regenerative Medicine

Date: 31 March 2022	
Session 14: Ethics and Regulation in Cell-based Product/Cell Therapy	
Chair	TBC
Co-Chair	Dr Tan Sik Loo, <i>University of Malaya</i>
1010 – 1030	Dr Evelyn Loh , <i>National Pharmaceutical Regulatory Agency, Malaysia</i> Recent updates in the regulations of Cell and Gene Therapy Products (CGTP) in Malaysia - Perspective of Regulator
1035 – 1055	Dr Mohammad Firdaus bin Abdul Aziz , <i>University of Malaya</i> Ethical And Legal Aspects of Stem Cell Therapy In Malaysia: Where Are We Now?
1100 – 1120	Professor Dr Lim Sai Kiang , <i>Institute of Molecular and Cell Biology, A-Star Singapore</i> Regulatory Challenges in Translating MSC Exosomes
1125 – 1145	Dr Chau Deming , <i>Universiti Putra Malaysia</i> Stem Cells & Regenerative Medicine Researchers: What you need to know about Malaysia MCRCR & RCR Framework
1150 – 1210	Panel Discussion. Moderator: TBC Professor Lim Sai Kiang, Dr Evelyn Loh, Dr Mohammad Firdaus, Dr Chau Deming

Date: 31 March 2022	
Session 15: Biomaterials and Cell-Based Products in Regenerative Therapy and Tissue Engineering	
Chair	Dr Law Jia Xian, <i>Universiti Kebangsaan Malaysia</i>
Co-Chair	Associate Professor Dr Angela Ng, <i>Universiti Kebangsaan Malaysia</i>
1000 – 1030	Dr Foo Jhi Biau , <i>Taylor's University</i> Potential of MSC-Extracellular Vesicles for Glucose Regulation and Diabetes Management- A Preclinical Study
1030 – 1100	Dr Looi Qi Hao , <i>My CytoHealth Sdn Bhd</i> Clinical Case Series: Safety and Efficacy Data of Human Umbilical Cord MSCs Derived Extracellular Vesicles For Medial Aesthetic Applications
1100 – 1130	Dr Oksana Kehoe , <i>Keele University, United Kingdom</i> Mesenchymal stem cell therapy for inflammatory arthritis: from the cells to its extracellular vesicles
1130 – 1200	Professor Alireza Fazeli , <i>the University of Sheffield, United Kingdom</i> Communication is a Life Necessity

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Date: 31 March 2022	
Session 16: MSCs in Clinical Translation	
Chair	Dr Jezamine Lim, <i>Cellbiopreutics Resources</i>
Co-Chair	Dr Abid Nordin, <i>Cellbiopreutics Resources</i>
1000 – 1030	Dr Gabriel Salgo , <i>Cellbiopreutics Resources</i> First Allogeneic Mesenchymal Stromal Cells Product Stempeucel® - approved for marketing by the Indian FDA for Critical Limb Ischemia Management
1030 – 1100	Dr Pawan Gupta , <i>Stempeutics India-CellBiopreutics Resources</i> Allogeneic, Off The Shelf, Bone Marrow derived, Pooled, Mesenchymal Stromal Cells – A Potential Break through Therapy for Grade II & III Osteoarthritis Knee Management
1100 – 1130	Dr Uday Kumar <i>Stempeutics India-CellBiopreutics Resources</i> Translating Research to Clinical Manufacturing
1130 – 1200	Dr Suresh Kannan <i>Stempeutics India-CellBiopreutics Resources</i> How Best to Achieve Effective Potency Testing for Cell therapy Product

Date: 31 March 2022	
Session 17: Potential Clinical Application of Adult Stem Cells and The Way Forward with Artificial Intelligence	
Chair	Associate Professor Dr Mok Pooi Ling, <i>Universiti Putra Malaysia</i>
Co-Chair	Dr Lim Moon Nian, <i>Institute for Medical Research, NIH Malaysia</i>
1000 – 1030	Associate Professor Dr Nor Azian Abdul Murad , <i>Universiti Kebangsaan Malaysia</i> Endothelial Cell Differentiation from Induced Pluripotent Stem Cells (iPSCs): A Lesson from Embryogenesis
1030 – 1100	Dr Lim Moon Nian , <i>Institute for Medical Research, NIH Malaysia</i> The Emerging Role of MSC-Derived Exosome in Regenerative Medicine
1100 – 1130	Professor Dr Suresh Subbiah Kumar , <i>Bharath Institute of Higher Education and Research, India</i> The Potential Use of Stem Cells for Dengue Treatment
1130 – 1200	Associate Professor Dr D. Saraswathi , <i>Manakula Vinayar Institute of Technology, India</i> Application of Artificial Intelligence in Stem Cell and Developmental Study

Date: 31 March 2022	
Session 22: Stem Cell Differentiation for Therapy and Disease Modelling	
Chair	Associate Professor Dr Norshariza Nordin, <i>Universiti Putra Malaysia</i>
Co-Chair	Associate Professor Dr Michael Ling, <i>Universiti Putra Malaysia</i>
1400 – 1430	Dr Chan Wai Kit , <i>University of Edinburgh, United Kingdom</i> Investigating the functions of PAX6 in human Neural Development using Cerebral Organoids
1430 – 1500	Associate Professor Dr Pallab Bhattacharya , <i>National Institute of Pharmaceutical Education and Research (NIPER), India</i> The Use of Stem Cells as a Model to Decipher the Role of Mitochondria as Prospective Treatment for Stroke
1500 – 1530	Associate Professor Dr Michael Ling , <i>Universiti Putra Malaysia</i> Neurodevelopmental Aberrations in hiPSC-Derived Alzheimer's Disease Models
1530 – 1600	Associate Professor Dr Norshariza Nordin , <i>Universiti Putra Malaysia</i> Neuroregeneration of <i>Centella asiatica</i> (L.) using Oxidative Stress-Induced Stem Cell-derived Neural Cells

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Date: 31 March 2022	
Session 23: Biomaterials and Cell Based Products in Regenerative Therapy and Tissue Engineering	
Chair	Professor Antonella Motta, <i>University of Trento, Italy</i>
Co-Chair	Associate Professor Dr Mohd Fauzi bin Mh Busra, <i>Universiti Kebangsaan Malaysia</i>
1400 – 1430	Professor Masaya Yamamoto , <i>Tohoku University, Japan</i> Cellular interaction with biomaterials.
1430 – 1500	Dr Lucie Low , <i>National Center for Advancing Translational Science, NIH, USA</i> Microphysiological Systems as Tools For Precision Medicine Research
1500 – 1530	Professor Tony Weiss , <i>The University of Sydney, Australia</i> Elastin Technology for Tissue Engineering Applications.
1530 – 1600	Assistant Professor Dr Rui Domingues , <i>University of Minho, Portugal</i> Bioengineered systems for tendon regeneration and in vitro modeling



Student & Young Investigators (SYIS) Oral, Free Paper and Poster Presentations

Date: 30 March 2022		
Session 5: Poster Presentation		
Chair	Elancheleyen Mahindran	
1200 – 1205	Opening	
1205 – 1210	MTERMS2022-0009	Nur Amalia Ra'oh <i>Elucidation of the Cytocompatibility of Corneal Epithelial Cells with Ovine Collagen Hydrogel.</i>
1210 – 1215	MTERMS2022-0010	Thayaalini Subramaniam <i>The Development of Nanofiber Dressing Encapsulated with Calcium for Wound Healing</i>
1215 – 1220	MTERMS2022-0056	Nashihah Ab Karim <i>Fabrication and Characterization of Carrageenan/Gelatin Hydrogel for Future Use in Airway Epithelium In Vitro Model</i>
1220 – 1225	MTERMS2022-0063	Safa Tahri <i>Human Epidermal Keratinocytes Interaction Seeded on Gelatin Hydrogel for Future Application in 3-Dimensional Skin In Vitro Model</i>
1225 – 1230	MTERMS2022-0067	Nazeha Ahmat <i>Elucidating the Multi-Approach Treatments at Different Targeted Stages of Bone Healing Progression.</i>
1230 – 1235	MTERMS2022-0078	Asmak Abdul Samat <i>In Vitro Evaluation of Three-Dimensional Printed Thermoplastic Polyurethane and Polylactic Acid Scaffold for Tracheal Tissue Engineering</i>

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1235 – 1240	MTERMS2022-0051	Amirah Syamimi Jusop <i>Understanding The Mode of Transduction of Integrase-Free Lentivirus Vectors In The Establishment of Human-Induced Pluripotent Stem Cells</i>
1240 – 1245	MTERMS2022-0069	Elancheleyen Mahindran <i>Musculoskeletal Anti-Frailty Effects of Wharton's Jelly Mesenchymal Stem Cell and its Derived Small Extracellular Vesicles Transplantation in Aging Mice</i>
1245 – 1250	MTERMS2022-0007A	Miriam V. Flores-Merino <i>Evaluation of an Antioxidant-Hydrogel System as A Dressing for Chronic Wounds</i>
1250 – 1255	MTERMS2022-0010A	Elena Iulia Oprita <i>Biodegradable Cross-linked Composite Hydrogels based on Natural Components and Si-βTCP Enriched with Icaritin for Osteochondral Regeneration</i>
1255 – 1300	MTERMS2022-0011A	Farhan Delavar <i>Fabrication Of a Nerve Conduit with Piezoelectric Properties Containing Curcumin in Gellan Substrate for Nerve Tissue Repair.</i>
1300 - 1305	MTERMS2022-0055	Muhammad Firdaus Fairuz Izan <i>Development And Characterization Of In Vitro Airway Epithelium Layer on Nasal Fibroblast Secretome Loaded Hydrogel: A Concept Paper</i>
Closing Remarks		

Date: 30 March 2022		
Session 6: SYIS Oral Presentation		
Chair	Yu Ling Tan	
1200 – 1205	Opening	
1205 – 1220	MTERMS2022-0019	Illayaraja Krishnan <i>Recommendations on Regulatory Requirements for Extracellular Vesicles (EV) as Therapeutic Agents</i>
1220 – 1235	MTERMS2022-0027	Umar Muhammad Adamu <i>Moringa oleifera Ethanolic Leaf Extract Prevents Oxidative Stress-Induced Senescence of Mesenchymal Stem Cells.</i>
1235 – 1250	MTERMS2022-0044	Yu Ling Tan <i>Priming Wharton Jelly's Mesenchymal Stem Cells Enhance Immunosuppressive Properties and Angiogenic Potential</i>
1250 – 1305	MTERMS2022-0071	Mohd Nor Ridzuan Abd Mutalib <i>Interleukin-17A Enhances Osteogenic Differentiation Through the Activation of OPG/RANKL and ERK/MAPK Signaling Pathways In Stem Cells From Human Exfoliated Deciduous Teeth</i>
1305 – 1310	Closing remarks	

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Date: 30 March 2022		
Session 7: SYIS Oral Presentation		
Chair	Alvin Chan	
1200 – 1205	Opening	
1205 – 1220	MTERMS2022-0065	Alvin Chan <i>Pre-clinical Safety Study of Wharton's Jelly-derived Mesenchymal Stem Cells Delivered via Systemic Administration.</i>
1220 – 1235	MTERMS2022-0068	Muhammad Najib Fathi Hassan <i>Morphology and Characteristic of WJ-MSC Expanded With Different Growth Mediums</i>
1235 – 1250	MTERMS2022-0070	Mazlee Bin Mazalan <i>A Computational analysis of Surface Acoustic Wave (SAW) device on Collective Cell migration</i>
1250 – 1305	Closing remarks	

Date: 30 March 2022		
Session 8: Free Paper Presentation		
Chair	Nur Izzah Md Fadilah	
1200 – 1205	Opening	
1205 – 1220	MTERMS2022-0006	Siti Aminah Muhammad Imran <i>The Intra- and Extra-Telomeric Role of TRF2 in the DNA Damage Response</i>
1220 – 1235	MTERMS2022-0029	Nur Izzah Md Fadilah <i>Effect of Multiple Cycle Collection of Dermal Fibroblast Conditioned Medium (DFCM) towards In Vitro Wound Healing Model</i>
1235 – 1250	MTERMS2022-0054	Yogeswaran Lokanathan <i>Efficacy study of allogeneic Mesenchymal Stem Cell Therapy for the treatment of Metabolic Syndrome in Animal Model</i>
1250 – 1305	MTERMS2022-0100	Farid Nazer <i>Defined Serum-Free Three-Dimensional (3D) Culture Of Umbilical Cord-Derived Mesenchymal Stem Cells Yields Exosomes That Promote Fibroblast Proliferation And Migration In Vitro</i>
1305 – 1310	Closing remarks	

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Date: 30 March 2022		
Session 12: SYIS Oral Presentation		
Chair	Wan Chiew Ng	
1400 – 1405	Opening	
1405 – 1420	MTERMS2022-0007	Siti Aisyah Nadirah Ja'apar <i>In Vivo Cytotoxicity Analysis of Bioceramic Root Canal Sealers on Zebrafish Embryo.</i>
1420 – 1435	MTERMS2022-0013	Nusaibah Sallehuddin <i>In Vitro Evaluation of Thymoquinone Incorporated Collagee Wound Dressing for Future Use in Full-Thickness Wound Healing</i>
1435 – 1450	MTERMS2022-0066	Loai Elfawy <i>Multifunctionalized-human Collagen Type I Vs. Ovine Collagen Type I Biomatrix for Skin Burn: A Comparative Study</i>
1450 – 1505	METRMS2022-0015	Wan Chiew Ng <i>Fabrication of Genipin-crosslinked Gelatine Hydrogel for Glottic Insufficiency</i>
1505 – 1520	MTERMS2022-0024	Yt Jun Cheah <i>A Study on Characterisation of Gelatin-Cellulose-Chitosan Bioscaffold as A Potential Wound Dressing</i>
1520 – 1535	Closing	

Date: 30 March 2022		
Session 13: SYIS Oral Presentation		
Chair	Lohashenpahan Shanmuganantha	
1400 – 1405	Opening	
1405 – 1420	MTERMS2022-0032	Atiqah Salleh <i>Functionalised Dual Layer Cellulose-Gelatin/Collagen Scaffold for Full-Thickness Skin Injury</i>
1420 – 1435	MTERMS2022-0038	Ali Smandri <i>Human Skin Decellularized Extracellular Matrix Nanoparticles-incorporated Gelatin Bioinks for Full-thickness Wound Dressings</i>
1435 – 1450	MTERMS2022-0041	Nor Syafira Mohd Masri <i>Hybrid Gelatin-PVA Bioink for Chronic Wound Healing via 3D- Bioprinting (Extrusion-Based Approach): Characterization and Preparation</i>
1450 – 1505	MTERMS2022-0042	Izzat Zulkiflee <i>Dual-Layer Hybrid Biomatrix for Potential Use in Infected Cutaneous Wound</i>
1505 – 1520	MTERMS2022-0072	Nor Amirrah Ibrahim <i>Ovine tendon collagen type I (OTC-I) with antibacterial plasma coating as a potential wound healing biomaterial for full thickness skin loss</i>
1520 – 1535	MTERMS2022-0074	Lohashenpahan Shanmuganantha <i>Osseointegration of Titanium Ceramic Composite in New Zealand White Rabbit Models</i>
1535 – 1550	MTERMS2022-0034	Vieralynda Vitus <i>Biocompatibility Study of Human Hair Waste on Wharton's Jelly-derived Mesenchymal Stem Cells</i>
1550 – 1600	Closing	

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Date: 31 March 2022		
Session 18: Poster Presentation		
Chair	Chiew Yong Ng	
1200 – 1205	Opening	
1205 – 1210	MTERMS2022-0020	Vinoothini Karunnamithy <i>Shelf-life and Safety Evaluation of The Dermal Fibroblast Conditioned Medium (DFCM) for Future Skin Regeneration</i>
1210 – 1215	MTERMS2022-0022	Genieve Ee Chia Yeo <i>Elucidating The Effects of Wharton's Jelly-Derived Mesenchymal Stem Cell and Its Extracellular Vesicle Transplantation On The Immune System In Ageing Mice</i>
1215 – 1220	MTERMS2022-0023	Yun Yan Foo <i>Unravelling the Neurogenic Potential of Neurotrophic Factors Secreting Human Dental Pulp Stem Cells</i>
1220 – 1225	MTERMS2022-0028	Li Ting Kee <i>Development Of A Gel Formulation With Human Umbilical Cord Mesenchymal Stem Cell-Derived Exosomes (UC-MSC-Exo) For Cosmetic Applications</i>
1225 – 1230	MTERMS2022-0033	Chiew Yong Ng <i>Potential of Small Extracellular Vesicles in Articular Cartilage Regeneration</i>
1230 – 1235	MTERMS2022-0036	Noor Anastasha Balqis Binti Noor Azlan <i>Reusing Umbilical Cord Tissue Sample for Explant Extraction and Isolation of Wharton's Jelly Mesenchymal Stem Cells: A Qualitative Study</i>
1235 – 1240	MTERMS2022-0043	Izyan Mohd Idris <i>Generation Of Induced Pluripotent Stem Cells By Lentiviral Reprogramming With Six Transcription Factors.</i>
1240 – 1245	MTERMS2022-0059	Shamsul Sulaiman <i>A Human Osteoarthritis Cartilage Explant Model for BMSCs Conjugated Antibody Micromass Delivery</i>
1245 – 1250	MTERMS2022-0079	Syahidatulamali Che Shaffi <i>The Effect of Airway Stem Cells in 3D Organoid Culture After Exposure to Cigarette Smoke in Mice Model of COPD</i>
1250 – 1255	MTERMS2022-0011	Arief Faisal Azmi <i>The Effectiveness of Cord Blood-Platelet Lysate and Peripheral Blood-Platelet Lysate for In Vitro Oral Wound Healing</i>
1255 – 1300	MTERMS2022-0018	Maimonah Al-Masawa <i>Efficacy Of Umbilical Cord Mesenchymal Stem Cell Derived Small Extracellular Vesicles In Treatment Of Atopic Dermatitis</i>
1300 – 1305	MTERMS2022-0077	Muhammad Dain Yazid <i>Minidystrophinδ2-R19 Improves Akt Expression and P70 S6 Kinase Activation During Dystrophin-Deficient Myoblasts Differentiation</i>
Closing remarks		

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Date: 31 March 2022		
Session 19: SYIS Oral Presentation		
Chair	Nur Zawani Mazlan	
1200 – 1205	Opening	
1205 – 1220	MTERMS2022-0031	Nurul Atiqah Maaruf <i>Optimization of Fibrin Concentration in 3D-Printed Scaffold for Bone Angiogenesis and Osteogenesis</i>
1220 – 1235	MTERMS2022-0045	Nur Zawani Mazlan <i>Hybrid Quercetin-Gelatin Injectable Hydrogel as Provisional Bio template for Future Application: In vitro Evaluation</i>
1235 – 1250	MTERMS2022-0050	Reva Subramaniam <i>The Effect of Nanohydroxyapatite Incorporated With Micro RNA 21 To regulate Osteogenesis.</i>
1250 – 1305	MTERMS2022-0064	Maheswary @Suzanna Thambirajoo <i>Bilayered Woven Cellulose-Collagen Bioscaffold as Acellular Skin Substitute for Future Use In Diabetic Ulcer Treatment</i>
1305 – 1310	Closing remarks	

Date: 31 March 2022		
Session 20: SYIS Oral Presentation		
Chair	Anam Anjum	
1200 – 1205	Opening	
1205 – 1220	MTERMS2022-0035	Nurul Husna Abd Razak <i>Characterization of Schwann cell phenotype in culture for Diabetic Peripheral Neuropathy study</i>
1220 – 1235	MTERMS2022-0053	Nor Alia Abd Aziz <i>Inducing Neuronal Injury on NSC-34 Motor Neuron-Like Cells by Kainate Receptor Excitotoxicity.</i>
1235 – 1250	MTERMS2022-0060	Amiza Shahira Zainey <i>In Vitro Modelling for Studying Schwann Cell Myelination</i>
1250 – 1305	MTERMS2022-0061	Anam Anjum <i>Development of In Vitro Mechanical Spinal Cord Injury Model In Differentiated NSC-34 Cells</i>
1305 – 1310	Closing remarks	