

Parallel Session Schedule

Monday, October 23rd, 2023

Time	Session	
09.00 - 10.10	1a. Clinical & Health Management	1b. Medical Devices
10.10 - 11.15	2a. Biomaterial & Tissue Engineering	2b. Medical Devices
11.15 - 12.15	3a. Biomaterial & Tissue Engineering	3b. Medical Devices
13.00 - 17.00	Opening Ceremony, Keynote Speaker, Plenary Session	

Tuesday, October 24th, 2023

Time	Session	
08.00 - 09.00	4. Clinical & Health Management	
09.00 - 09.55	Poster Session	
09.55 - 10.55	5. Biomaterial & Tissue Engineering	
10.55 - 11.55	6. BTE, MD, and DDD	
13.00 - 14.00	7a. Drug Delivery and Development	7b. Coaching Makara Journal Technology
14.00 - 15.00	8a. Drug Delivery and Development	8b. Coaching Makara Journal Technology

Invited speaker: 25 minutes for each speaker (including discussion)

Regular speaker: 12 minutes for each speaker (including discussion)

Notes: Time in WITA (Central Indonesian Time, UTC+08:00)

Parallel Session Schedule (Oral Presentation)

Monday, October 23rd, 2023

Session 1a. Clinical & Health Management

Session Chair: Dr. dr. Puspita Angraini Katili (UI)

Room: Graha Paruman 04

Time	Paper ID	Title	Authors
09.00 - 09.25	<p style="text-align: center;">Invited Speaker: Prof. John Forsythe</p> <p style="text-align: center;">Kick-starting and translating healthcare led medical technologies: Experience of the Monash Institute of Medical Engineering</p>		
09.25 - 09.37	27	Detection of Atrial Fibrillation using a Feedforward Sequential Model	Jan Michael A. Santos, Edison B. Anit, Catherine Manuela L. Ramos, Nilo T. Bugtai, Army C. Sy
09.37 - 09.49	33	Association of rs9939609 FTO Gene Polymorphism as a Risk Factor of Obesity in Adults	Tiar M Pratamawati, Angel Angriani Elma BS, Gara Samara Brajadenta, Donny Nauphar
09.49 - 10.01	37	Association Between AdipoQ (Rs1501299) SNP with Insulin Resistance in Indonesian Type 2 Diabetes Mellitus Patients	Donny Nauphar, Robby Irham MA, Gara Samara Brajadenta, Tiar M Pratamawati

Parallel Session Schedule (Oral Presentation)

Monday, October 23rd, 2023

Session 1b. Medical Devices

Session Chair: Silvy, M. Sc (UI), Dr. Afzan (UiTM)

Room: Graha Paruman 10

Time	Paper ID	Title	Authors
09.00 - 09.12	5	3D vascular distribution imaging of posterior auricular artery using optical coherence tomography	Juyeon Hong, Daewoon Seong, Dongwan Kang, Hyunmo Kim, Jeong Hun Jang, Mansik Jeon, Jeehyun Kim
09.12 - 09.24	16	A 2023 Review on the Safety Evaluation of Lower Limb Rehabilitation Robots	Enrique Mariano S. Perez, Jenica Charlyze L. Chua, Martina A. Fortuna, Czaryn Diane Ompico, Julius Noel Banayo, Francisco Emmanuel T. Munsayac Jr. III, Armyn C. Sy, Nilo T. Bugtai
09.24 - 09.36	30	Effects of Sparkling Water Stimulation on Gastric Electrical Response Activity	Basitha Febrinda Hidayatulail, Takahiro Emoto, Yumi Goto, and Takeyuki Haraguchi
09.36 - 09.48	36	Implementation of CNN Classification Method for Improving Personalized Clavicle Plate Implant Design	Dita Ayu Mayasari, Ihtifazhuddin Hawari, Sheba Atma Dwiyantri, Nathasya Reinelda Noviyadi, Dinda Syaqla Andryani, Muhammad Satrio Utomo, Talitha Asmaria
09.48 - 10.00	44	Development of Patient-Specific Adaptive Assistive Devices for Brachial Plexus Injury	Chyesia Moses Haremy, Ahmad Dzuharuddin Othman, Natiara Mohamad Hashim, Nor Aiman Nor Izmin, Helmi Rashid, Abdul Halim Abdullah

Parallel Session Schedule (Oral Presentation)

Monday, October 23rd, 2023

Session 2a. Biomaterial & Tissue Engineering

Session Chair: Dr. Ahmad Zakiyuddin (UI)

Room: Graha Paruman 04

Time	Paper ID	Title	Authors
10.10 - 10.22	24	Effect Zirconium Dioxide Filler Addition on the Diametral Tensile Strength of Light-Activated Polymethyl-Methacrylate	Muhammad Fathulkhair Al-Azhari, Veni Takarini, Vita Mulya Pasa Novianti
10.22 - 10.34	35	Preliminary Reactor Process Condition Analysis for Production of Cellulose Acetate from Oil Palm Empty Fruit Bunches	Indira Rizky Sukmaputri, Leon Lukhas Santoso, Andrei Bernadette, Dewi Tristantini
10.34 - 10.46	74	Physical and Chemical Characterization of Collagen/Alginate/Poly (Vinyl Alcohol) Scaffold with the Addition of MWCNT, rGO, TiO ₂ , and ZnO Materials	Rusyda Fajarani, Azizah Intan Pangesty, Siti Fauziyah Rahman, Puspita Anggraini Katili, Basari, Don-Hee Park
10.46 - 10.58	79	Characterization and Potential of Micro-fibrillated Cellulose Extracted from Rice Husk Waste for Biomedical Applications	Nurhayati, Hari Eko Irianto, Rini Riastuti, Azizah Intan Pangesty, Adam F. Nugraha, Mitsugu Todo, Mochamad Chalid
10.58 - 11.10	22*	Effect of Silanized Zirconium Oxide (ZrO ₂) Filler on Hardness of Acrylic-Based Denture Teeth	Hubbi Hikmatul Ilma, Fahri Rihan Ashary, Fachri Kurniawan Asghar, Ardista Izdhihar Kaloka, Bramantyo Airlangga, Sumarno

Parallel Session Schedule (Oral Presentation)

Monday, October 23rd, 2023

Session 2b. Medical Devices

Session Chair: Dr. Basari (UI), Dr. Roy Francis Navea (De La Salle University)

Room: Graha Paruman 10

Time	Paper ID	Title	Authors
10.00 - 10.25		Invited speaker: Giorgio Bonmassar Metamaterial Deep Brain Stimulation Electrodes for Magnetic Resonance Imaging	
10.25 - 10.37	17	The Effects of the Advancements of Different Kinds of Robotics Rehabilitation in World Economy	Czaryn Diane Ompico, Juliah Faye Dela Vega, Enrique Mariano S. Perez, Julius Noel Banayo, Francisco Emmanuel T. Munsayac Jr. III, Armyn C. Sy, Nilo T. Bugtai
10.37 - 10.49	38	Design and Prototyping of a 3D-Printed Syringe Pump	Christopher Salendu Erwin, Ibnu Roihan, Raldi Artono Koestoer
10.49 - 11.01	40	Design and Prototyping Low-Cost Portable Oxygen Concentrator for Infant	Fashal Firdaus Amarullah, Cornelia Christiani Vianney, Arbi Riantono, Ibnu Roihan, Raldi A. Koestoer
11.01 - 11.13	47	Effect of Tibial Malrotation on Anterior and Posterior Cruciate Ligaments in Bi-cruciate Retaining Total Knee Arthroplasty (BCR-TKA)	Muhammad Saakeereen Sa'audi, Abdul Halim Abdullah, Solehuddin Shuib, Muhammad Azim Mat Raffei, Mohd Fairudz Mohd Miswan, Mohd Afzan Mohd Anuar

Parallel Session Schedule (Oral Presentation)

Monday, October 23rd, 2023

Session 3a. Biomaterial & Tissue Engineering

Session Chair: Dr. Siti Fauziah Rahman (UI), Dr. Francisco Emmanuel Munsayac Jr. III (De La Salle University) **Room:** Graha Paruman 04

Time	Paper ID	Title	Authors
11.15 - 11.27	8	Human Umbilical Vein Endothelial Cell Behaviour on Hyaluronic Acid-based Hydrogel Obtained via Hydrogen Peroxide -Mediated Crosslinking and Degradation	Kelum Elvitigala, W. Mubarak, I. Horiguchi, M. Kojima, S. Sakai
11.27 - 11.39	10	Anti-Mycobacterial activity of secondary metabolites from the marine sponge <i>Agelas</i> sp	Wilmar Maarisit, Sonny D. Untu, Yessie K. Lengkey, Hiroyuki Yamazaki, Michio Namikoshi, Fitje Losung, Veibe Warouw
11.39 - 11.51	62	Isolation of Crystalline Microcellulose Fibers Based on Sorghum (<i>Sorghum Bicolor</i>) Stalks	Dina Fransiska, Fernando, Dedi Priadi, Hari Eko Irianto, Azizah Intan Pangesty, Mochamad Chalid
11.51 - 12.03	68	Modular Geometry Development of a Transforaminal Lumbar Interbody Fusion (TLIF) Spine Cage Implant	Karmila Putri Maulidya, Puspita Anggraini Katili, Yudan Whulanza, Ahmad Jabir Rahyussalim, Joshua Yoshihiko Tampubolon, Septian Indra Wicaksana
12.03 - 12.15	69	Geometry Benchmarking of Transforaminal Lumbar Interbody Fusion (TLIF) Spine Cage Design	Wafa Husnayaini, Puspita Anggraini Katili, Siti Fauziah Rahman, Yudan Whulanza, Sugeng Supriadi, Ahmad Jabir Rahyussalim, Joshua Yoshihiko Tampubolon, Septian Indra Wicaksana, Abdul Halim Abdullah

Parallel Session Schedule (Oral Presentation)

Monday, October 23rd, 2023
Session 3b. Medical Devices

Session Chair: Dr. Sugeng Supriadi (UI), Dr. Helmi (UiTM)

Room: Graha Paruman 10

Time	Paper ID	Title	Authors
11.15 - 11.40	<p style="text-align: center;">Invited Speaker: Dr. Tomy Abuzairi Open-source Medical Devices for Innovation, Education, and Global Health</p>		
11.40 - 11.52	64	Doppler Ultrasound Quality Assurance Protocol: A Review	Meby Petraca, Basari
11.52 - 12.04	51	The Static Structural and Explicit Dynamic Analysis on Different Topology Optimization Transtibial Prosthetic Leg	Mohd Hazwan Mohamed Norli, Abdul Halim Abdullah, Ahmad Kamil Adib Sukimi, Jamaluddin Mahmud
12.04 - 12.16	75	Manufacturing Process of Hybrid Porous Dental Implant Screw through Metal Injection Molding using Titanium Core	Amirah Salsabila Widad Putri, Daniel Jones, Agung Shamsuddin Saragih, Sugeng Supriadi

Parallel Session Schedule (Oral Presentation)

Tuesday, October 24th, 2023

Session 4. Clinical & Health Management

Session Chair: Dr. Kenny Lischer (UI)

Room: Graha Paruman 01

Time	Paper ID	Title	Authors
08.00 - 08.12	72	Microscopic Detection Model on Malaria Parasite Plasmodium Falciparum Using Convolutional Snapshot Ensemble Algorithm	Muhammad Ihsan Nurhadi, Basari
08.12 - 08.24	25	A Comparative Study on The Physiological and Psychological Effects on The Different Genres of Music using EEG and ECG	Edison Anit, Reign Bersamina, Robert Kerwin Billones, Ira Valenzuela, Nilo Bugtai, Nicanor Roxas, Jr, Renann G. Baldovino
08.24 - 08.36	18	Optimizing Sit-to-Stand Training: A Key Intervention for Enhancing Rehabilitation Outcomes in Post-Stroke Patients	Czaryn Diane S. Ompico, Ruaina Lily Hope G. Moreno, Julius Noel Banayo, Enrique Mariano S. Perez, Francisco Emmanuel T. Munsayac Jr., Armyn C. Sy, Nilo T. Bugtai
08.36 - 08.48	42*	The Role of Education about the Effect of Cigarettes on Periodontal Tissue Health Adolescents Aged 15-19 Years	Rahma Elfira, Nita Nurniza, Chaerita Maulani

Parallel Session Schedule (Oral Presentation)

Tuesday, October 24th, 2023

Session 5. Biomaterial & Tissue Engineering

Session Chair: Dr. Retno Wahyu Nurhayati (UI)

Room: Graha Paruman 01

Time	Paper ID	Title	Authors
09.55 - 10.20		Invited Speaker: Prof. Shinji Sakai 3D bioprinting technologies based on enzymatic hydrogelation	
10.20 - 10.32	2	PCR Annealing Temperatures Optimization Using Specific SNP Molecular Markers in Rodent Tuber (<i>Typhonium flagelliforme</i> Lodd.) Mutant Plants	Nesti Fronika Sianipar, Zidni Muflikhati, Khoirunnisa Assidqi, Dwiyantari Widyaningrum
10.32 - 10.44	23	The Effect of Intra-Articular Adipose Mesenchymal Stem Cell-Derived Exosomes in the Treatment of Low-Grade Osteoarthritis in Animal Model: Radiological and Histological Evaluation	Jessica Fiolin, Ludwig Andre Pontoh, Ismail Hadisoebroto Dilogo, Marcel Prasetyo, Radiana Dhewayani Antarianto, Jennifer Tantry
10.44 - 10.56	41	Signal Peptides for Optimization Secretion of Recombinant Protein in Mammalian Cells: An Innovation to Produce Bone Morphogenetic Protein in Mesenchymal Stem Cell	Nuzli Fahdia Mazfufah, Retno Wahyu Nurhayati, Ismail Hadisoebroto Dilogo, Dian Anggraini, Wildan Mubarok

Parallel Session Schedule (Oral Presentation)

Tuesday, October 24th, 2023

Session 6. Biomaterial & Tissue Engineering, Medical Devices, and Drug Delivery and Development

Session Chair: Dr. Ibnu Maulana H (UI)

Room: Graha Paruman 01

Time	Paper ID	Title	Authors
10.56 - 11.08	48	Strategy of sgRNA design for survivin knockout genome editing using CRISPR/Cas9 system	Resda Akhra Syahrani, Sekar Arumsari, Septelia Inawati Wanandi, Yukihide Watanabe, Seiya Mizuno
11.08 - 11.20	80	Preliminary Study on the Measurement of Fat Thickness using Ultrasound of the Fetal Doppler Transducer	Dara Azka, Tomy Abuzairi
11.20 - 11.32	81	Development of Alginate based Antimicrobial Hemostatic Dressing	Ankita Sharma, Chetna Verma, Samrat Mukhopadhyay, Amlan Gupta, Bhuvanesh Gupta
11.32 - 11.44	34	Anti-inflammatory Activity Potential on Adem Panas Herb Mixture Solid Extract with In Silico Analysis Approach	Keisha Nabila Zalfa Zahirah, Leon Lukhas Santoso, Andrei Bernadette, Dewi Tristantini
11.44 - 11.56	55*	Unveiling Khellin as $\alpha 7$ nAChR agonist via in silico molecular docking and bioavailability predictions: Implications for Alzheimer's disease	Kushagra Nagori, Madhulika Pradhan, Kartik T. Nakhate

Parallel Session Schedule (Oral Presentation)

Tuesday, October 24th, 2023

Session 7a. Drug Delivery and Development

Session Chair: Dr. Apriliana Cahya Khayrani (UI), **Room:** Graha Paruman 01

Time	Paper ID	Title	Authors
13.00 - 13.12	4	The effect of ethanolic extracts of <i>Andrographis paniculata</i> leaves on biochemical and hematological variations associated with DOX-induced toxicity	Oluebube Magnificent Eziefule, Wawaimuli Arozal, Septelia Inawati Wanandi, Melva Louisa, Puspita Eka Wuyung, Yulia Ratna Dewi, and Deya Adiby Nabillah
13.12 - 13.24	65	Purification and Antioxidant Activity Assay of ~10 kDa, 58.6 - 66.1 kDa, and 101.1 kDa Protein from <i>Scorpaenopsis diabolus</i> Toxin	Engelina Melissa, Indria Puti Mustika, Muhamad Sahlan, Dini Wahyu Kartika Sari, Kenny Lischer
13.24 - 13.36	20	Investigation of Chemical Compounds from <i>Phomopsis</i> Extract as Anti-Breast Cancer Using LC-MS/MS Analysis, Molecular Docking and Molecular Dynamic Simulations	Husnawati, Kusmardi, Rini Kurniasih, AE Zainal Hasan, Dimas Andrianto, Heddy Julistiono, Bambang Pontjo Priosoeryanto
13.36 - 13.48	60	Exploration of Natural Compounds for Treatment of Uterine Fibroids based on Molecular Docking and Network Pharmacology	Diah Dwi Darma, Heri Setiawan, Ika Widiawati, Habiburrahman, Berna Elya
13.48 – 14.00	52*	Revolutionizing Psoriasis Treatment: Innovating a Flavonoid-Enriched Liposomal Gel to Optimize Therapeutic Efficacy in a Pre-Clinical Model	Madhulika Pradhan, Krishna Yadav

Parallel Session Schedule (Oral Presentation)

Tuesday, October 24th, 2023

Session 8a. Drug Delivery and Development

Session Chair: Dr. dr. Puspita Anggraini Katili (UI)

Room: Graha Paruman 01

Time	Paper ID	Title	Authors
14.00 - 14.12	6	Polymer-based Composite as a Local Drug Delivery System for Periodontitis Therapy: A Brief Review	Agustina Dewi, Sunarso, Ellyza Herda
14.12 - 14.24	9	Protective Effect of <i>Acalypha indica</i> Root Ethanol Extract on Obese Sprague-Dawley Rats	Rani W. Hakim, Dewi Sukmawati, Nur Rahadiani, Fadilah, Agian J. Barinda, Dwi Ramadhani, Adisti Dwijayanti, Muhammad Roil Bilad, Tri Juli Edi Tarigan, Sri Widia A Jusman, Erni H Purwaningsih
14.24 - 14.36	66	Iron Bioavailability of Jelly Food Fortified with Microencapsulated Iron Gluconate and Dietary Supplements	Elsa Anisa Krisanti, Ervina Kalinda, Kamarza Mulia
14.36 - 14.48	43	New Design of An Inhibitory Ligand Based on Biosimilar Candidates Anti Interleukin-6 Receptor For Disruption And Inhibition Of Interleukin-6 Receptor Alpha	Engla Merizka, Septelia Inawati Wanandi, Budiman Bella, Silvia Tri Widyaningtyas, Fadhila
14.48 - 15.00	53*	Design, development, and characterization of Nanovesicles for the transepidermal delivery bioactive for treatment of psoriasis	Krishna Yadav, Madhulika Pradhan

15.00 - 15.12	54*	Mosquito larvicidal potential and comparative evaluation of Asian weeds Lantana camara Linn and Ocimum gratissimum Linn	Mukesh Sharma, Ajazuddin
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Parallel Session Schedule (Oral Presentation)

Tuesday, October 24th, 2023

Session 7b-8b. Coaching Makara Journal Technology

Session Chair: Dr. Ayomi, Syahrul, M.T., Dr. Basari (MAKARA Journal Technology)

Room: Sawangan 1A

Time	Paper ID	Title	Authors
13.00 - 13.10		Coaching MJT Welcome Speech and Opening Ceremony	
13.10 - 13.30	67	Enhanced the Osseointegration Characteristics of Transforaminal Lumbar Interbody Fusion (TLIF) Implants using Platinum Sputter Method	Afrah Faadhila, Puspita Anggraini Katili, Yudan Whulanza, Delly Chipta Lestari, Siti Fauziyah Rahman
13.30 - 13.50	73	Electrochemical Glucose Sensor based on Zinc Oxide Composite Modified Carbon Paste Electrode	Siti Fauziyah Rahman, Grace Priscilla, Siti Hanafiah, Basari, Don-Hee Park
13.50 - 14.10	47	Effect of Tibial Malrotation on Anterior and Posterior Cruciate Ligaments in Bi-cruciate Retaining Total Knee Arthroplasty (BCR-TKA)	Muhammad Saakeereen Sa'audi, Abdul Halim Abdullah, Solehuddin Shuib, Muhammad Azim Mat Raffei, Mohd Fairudz Mohd Miswan, Mohd Afzan Mohd Anuar

14.10 - 14.30	35	Preliminary Reactor Process Condition Analysis for Production of Cellulose Acetate from Oil Palm Empty Fruit Bunches	Dewi Tristantini, Indira Rizky Sukmaputri, Leon Lukhas Santoso, Andrei Bernadette
14.30 - 14.40	Coaching MJT Closing Ceremony and Photo Session		

Parallel Session Schedule (Poster Presentation)

Tuesday, October 24th, 2023

Poster Session: 09.00 – 09.55 WITA

Track	Paper ID	Title	Authors
BTE	31	Review: Enhancement of Bone Morphogenetic Proteins' Secretion in Mesenchymal Stem Cells	Assyafiya Salwa, Retno Wahyu Nurhayati, Jeanne Adiwinata Pawitan, Masrina Mohd Nadzir
DDD	45	The Role of Pegagan (<i>Centella asiatica</i>) and Mangosteen (<i>Garcinia mangostana</i>) on Acne Vulgaris: A Review	Wilzar Fachri, Erni Hernawati Purwaningsih, Raditya Iswandana, Lili Legiawati
BTE	46	Design of sgRNA for SOD2 Knockout Efficiency in Breast Cancer Stem Cells	Sekar Arumsari, Septelia Inawati Wanandi, Resda Akhra Syahrani, Yukihide Watanabe, Seiya Mizuno
DDD	49	Investigation of Biological Activity and Pharmacological Properties the Morus Sp Bioactive Compounds by Computational Study	Rizky Clarinta Putri, Rani Wardani Hakim, Wilzar Fachri, Fadilah, Desak Gede Budi Krisnamurti, Joseph Edwardo Agnar, Rizki Fitriani, Euis Holisotan Hakim, Dewi Wulansari
BTE	5	3D vascular distribution imaging of posterior auricular artery using optical coherence tomography	Juyeon Hong, Daewoon Seong, Dongwan Kang, Hyunmo Kim, Jeong Hun Jang, Mansik Jeon, Jeehyun Kim
BTE	59	Preparation of Composite Reinforced Agent from Sorghum bicolor (L.) Moench Fiber through Glow Discharge Electrolysis Plasma	Achmad Nandang Roziyanto, Nofrijon Sofyan, Mochamad Chalid
BTE	67	Enhanced the Osseointegration Characteristics of Transforaminal Lumbar Interbody Fusion (TLIF) Implants using Platinum Sputter Method	Afrah Faadhila, Puspita Anggraini Katili, Yudan Whulanza, Delly Chipta Lestari, Siti Fauziyah Rahman
MD	73	Electrochemical Glucose Sensor based on Zinc Oxide Composite Modified Carbon Paste Electrode	Siti Fauziyah Rahman, Grace Priscilla, Siti Hanafiah, Basari, Don-Hee Park
BTE	76	Effect of the Addition of Manganese in Zinc and Zirconium-based Alloys on Mechanical Properties and Corrosion Behavior on Revised SBF (r-SBF) Solution	Siti Hanafiah, Ahmad Zakiyuddin, Siti Fauziyah Rahman