JC Cateogry / Morning Session

Room: A207

Time: 1015 - 1200 h

Name To Yi Hui

Title of Abstract Spinal muscular atrophy: Identifying rare mutations in patients and

detecting gene copy number carriers through a novel droplet digital PCR

approach

Authors To Yi Hui and Lai Poh San (Mentor)

Name Cao Shuo

Title of Abstract Fall Detection System Usin Arduino Fio

Authors Cao Shuo

Name Xue Guanying

Title of Abstract Wearable Sensors with Potential Integration with Middleware like

Handphones

Authors Xue Guanying, Ji Yaqi, Holden Li King Ho

Name Yap Dian Ang

Title of Abstract Click Reactions and Application in New Molecular Materials

Authors Yap Dian Ang, Su Mengyue and Dr. Bai Shi-qiang

Name Lim Pei Ying

Title of Abstract Beyond the Skin: Establishing a Novel Method for CEA delivery

Authors Lim Pei Ying, Bill Chang Rong Qin, Tak Hyoseo, Dr. Tan Tuan Lin, Dr Alvin

Chua, Dr Low Kai Leng

Name Chew Xin Hui

Title of Abstract 3D Printed Prosthetic Hand

Authors Chew Xin Hui, Daryll Wong Ye Qi, Christabelle Tee Jie Ying

JC Category / Afternoon Session

Room: A207

Time: 1400 - 1600 h

Name Leonard Sim Jun Jie

Title of Abstract Properties Enhancements of Waterborne Polyurethane by introducing

Dopamine-modified Graphene Oxide

Authors Leonard Sim Jun Jie, Chua Chong Er, Chen Hui Ting Rachel

Name Low Cher-Lyn

Title of Abstract Cell-based therapy for Parkinson's disease via transplantation of induced

pluripotent stem cell-derived dopaminergic progenitors

Authors Low Cher-Lyn, Zhang Chengwu, Chai Chou, Lim Kah Leong

Name Valerie Koh Suan Yun

Title of Abstract Development of a Multiplex TaqMan Real-Time RT-PCR Assay to

Differentiate all known Ebolavirus Species

Authors Valerie Koh Suan Yun

Name Choi Yun Young

Title of Abstract Role of septal GABAergic mechanisms in modulating indices of nociceptive

processing in the formalin model of persistent pain

Authors Choi Yun Young, Dr Andy Lee Thiam Huat

Name Huang Yanxi

Title of Abstract Adding simvastatin to conventional chemotherapy to improve cell kill in

breast cancer cells

Authors Huang Yanxi

Polytechnics Category / Morning Session

Room: A208

Time: 1030 - 1200 h

Name Yvonne Goh Ai Qin

A Micro Motion Sensing System for Real-Time Tremor Compensation and

Title of Abstract Assessment

Yvonne Goh Ai Qin, Low Wei Ming, Tan Wen Ling, Bervyn Chong Han

Authors Xiang, Dr. Win Tun Latt

Name Chua De Jun

Title of Abstract Antibacterial Insoles

Authors Chua De Jun

Name Kee Wei Jie

Active Rehabilitation of Lower Limbs using Exoskeleton: Predicting Leg

Title of Abstract Movement via EMG

Authors Kee Wei Jie & Lee Fang Ting. Mentor: Chua Kok Poo

Name Vijay Kevin Solomon

Title of Abstract PMT Test RIg

Authors Vijay Kevin Solomon, Edwin Tan, Dr Chua Kuang Chua and Mr Ong Wai Sing

Name Michelle chan

Title of Abstract Development of a point-of-care diagnostics for Hand, Foot & Mouth

Disease (HFMD) utilizing Surface Enhanced Raman Spectroscopy (SERS) to

detect HDMD-causing virus: EV71

Authors Michelle Chan, Quach Quang Huy, Ang Swee Kim, Justin Chu Jang Hann,

James Chen Yong Kah,

Name Karthik Raj Naidu V

Title of Abstract Internet-of-Things (IoT): Remote Healthcare Monitoring

Authors Karthik Raj Naidu V, Sum Wei Hao Alston

Undergraduates Category / Morning Session

Room: A209

Time: 1030 - 1200 h

Name Chua Ing Loon, Sean

Bone Marrow-on-a-chip as a Haematopoietic Niche for the Capture of

Title of Abstract Leukemic Cells

Chua Ing Loon Sean, Nishanth V. Menon, Chong Seow Khoon Mark, Kang

Authors Yuejun, Teoh Swee Hin

Name Zhang Jingling

vessel-on-a chip: An in vitro 3D model to study endothelial dysfunction and

Title of Abstract leukocyte migration

Authors Zhang Jingling, Hou Hanwei

Name Koh Yi Ting

Surface engineering of Polydimethylsiloxane with Polydopamine to

Title of Abstract Support Long-Term Cell Culture

Yi Ting Koh, Yon Jin Chuah, Kaiyang Lim, Menon Venugopal Nishanth,

Authors Yingnan Wu, Yuejun Kang

Name Raditya Anggara

Long Term Tracking of Mesenchymal Stem Cells Differentiation to

Title of Abstract Adipocytes with Photostable Fluorescent Biodegradable Nanoparticles

Authors Raditya Anggara, Shiying Liu, Li Min Tay, Yuejun Kang

Name Tan Wei Ling

The study of human bone marrow derived stem cells proliferation and

Title of Abstract multi-lineage differentiation in various spatial parameter microwells

Wei Ling Tan, Yingnan Wu, Yon Jin Chuah, Menon Venugopal Nishanth,

Authors Yuejun Kang

Name Lim Chee Seong

Title of Abstract The Role Of Topography In The Micro-Fabrication Of An Intervertebral Disc

Chee Seong Lim, Yon Jin Chuah, Yingnan Wu, Menon Venugopal Nishanth,

Authors Yuejun Kang

Name Tan Ching Fen

Controlling of Stem Cell Fate Through Geometrical Micropillars during Cell

Title of Abstract Expansion

Authors Ching Fen Tan, Yon Jin Chuah, Yingnan Wu, Yuejun Kang

Undergraduates Category / Afternoon Session

Room: A209

Time: 1400 - 1600 h

Name Esther Hee Xuan Yi

Cells and Matrix Alignment through Micro-topographies and its influence on

Title of Abstract later lineage differentiation

Authors Xuan Yi Esther Hee, Yon Jin Chuah, Yingnan Wu, Yuejun Kang

Name Cheong Mei Ling, Shirlynn

The development of an annulus fibrosus in vitro tissue model with ascorbic

Title of Abstract acid induced mesenchymal stem cells

Mei Ling Cheong Shirlynn, Yon Jin Chuah, Yingnan Wu, Yan Qing Chia, Yuejun

Authors Kang

Name Cuebong Wong

The Formation of Trajectories for Post-Stroke Patients During Visual and Non-

Title of Abstract Visual Human Locomotion

Authors Cuebong Wong (Author), Quang-Cuong Pham (Mentor)

Name Wong Cyndia

PRE-SURGICAL PLANNING OF BONE FRACTURE FIXATION USING 3D PRINTING

Title of Abstract TECHNOLOGY

Authors Wong Cyndia, Dr Desmond Chong, Dr Choo Jian Huei, Dr Gen Foo

Name Shen Shen

Title of Abstract Magnetic Actuated Microrobotics for Biomedical Applications

Authors Shen SHEN; Hongliang REN; Jun LI

Name Jaclyn Chong Shu Yeen

Adapting the Layer-by-Layer Deposition Technique using Silk Fibroin and

Title of Abstract Chitosan for Annulus Fibrosus Tissue Engineering.

Authors Jaclyn Shu Yeen Chong, Puay Yong Neo, Siew Lok Toh, James Cho-Hong Goh

Name Tan Jenn Sern Gabriel

Portable single-lead ECGs with built-in wireless connectivity and in-house

Title of Abstract developed diagnosis algorithm

Prof.Raye Yeow(mentor), Peter Wong, Gabriel Tan, Tang Jing En, Teoh Zhi Hao,

Authors Zanelle Lee

Name Chng Yuxuan Mark

Title of Abstract Development of a Dysphagia Rehabilitation Trainer (DRT)

Mark Yuxuan Chng, Ernest Xuan-Hao Tan, Hee-Youn Shim, Huai-Zhi Goh, Fang-

Authors Ming Lim, Eng-Keng Soh

Postgraduates Category / Morning Session

Room: A210

Time: 1030 - 1200 h

Name BUDHOTA AAMANI

EMG in the loop: using muscular motor synergies for real-time control of

Title of Abstract rehabilitation robots Authors Budhota Aamani

Name Ho Yan Teck

Title of Abstract Microfluidic platform for the probing of nanoparticle permeability in vitro

Authors Yan Teck Ho, Sebastian Beyer, Giulia Adriani, Roger D Kamm, James Chen Yong

Kah.

Name Ho Yan Teck

Title of Abstract A study on how different serum proteins affect the colloidal stability of

nanoparticles.

Authors Yan Teck Ho, Gokce Engudar, James Chen Yong Kah

Name Ajay Tijore

Title of Abstract Modulating Human Mesenchymal Stem Cell Plasticity Using Micropatterning

Technique

Authors Ajay Tijore, Feng Wen, Chee Ren Ivan Lam, Chor Yong Tay and Lay Poh Tan

Name Chuah Yon Jin

Title of Abstract Microfabrication Strategy for Intervertebral Disc Tissue Engineering

Authors Yon Jin Chuah, Yingnan Wu, Chee Seong Lim, Hwan Tak Hee, Yuejun Kang

Name Mridul Sarker

Title of Abstract Investigation on the Surface Activity of E2 Protein Nanocage at Liquid-Liquid

Interface

Authors Mridul Sarker, Dr. Nikodem Tomczac, Dr. Sierin Lim

Name Shreyas Kuddannaya

Title of Abstract Neuro-glial culture on PDMS through chemically functionalized extracellular

matrices

Authors Shreyas Kuddannaya, Zhang Yilei

Postgraduates Category / Afternoon Session

Room: A210

Time: 1400 - 1600 h

Name Christian Wiraja

Title of Abstract Non-Invasive Nanosensor Monitoring of Stem Cell Gene Expression

Authors Christian Wiraja, David Yeo, and Xu Chenjie

Name Sathya moorthy Bhaskar

Title of Abstract PROTEIN NANOCAGES FOR CUTANEOUS DELIVERY

Authors Sathya moorthy Bhaskar, Sierin Lim

Name Natalie Sheng Jie Lim

Title of Abstract Advanced Wound Care Strategy to Enhance Angiogenesis combining a Proly

Hydroxylase Inhibitor with Lysophospholipid

Authors Natalie Sheng Jie Lim, Sei Hien Lim, Sham Wai Fong Adeline, Chee Ming Ling Stella,

Roger D. Kamm, Casey Chan, Michael Raghunath

Name Li Liang

Title of Abstract Diagnostic biomarker and therapy development using integrated analysis platform

for infection-induced pneumonia

Authors Li Liang, Prof Martin Buist, Prof Vincent Chow, Prof Andrew Tan

Name Yap Hong Kai

Title of Abstract Soft Robotic Actuators: Towards a Wearable Exoskeleton for Hand Assistive and

Rehabilitation Applications

Authors Yap Hong Kai, Lim Jeong Hoon, James Goh Cho Hong, Raye Yeow Chen Hua

Name Aishwarya Bandla

Title of Abstract Dynamic Neural Integrity Changes during rtPA Thrombolysis in a Photothrombotic

Hyperacute Ischemia Rat Model

Authors Aishwarya Bandla, Yu-Hang Liu, Nitish Thakor and Lun-De Liao

Name Karthik Kannan

Title of Abstract Seymour Shield – An Operative Adjunct Device for Maintaining Visualization during

Laparoscopic Surgery

Authors Karthik Kannan, Leo Hwa Liang, Justin Phoon, Perline Teo, Ng Tze Kiat, Luke Tay

Name CHAN CHOW KHUEN

Individuals: Kinetics and Kinematics

Authors C.K. Chan, C.H. Yeow