



**BIOMEDICAL ENGINEERING SOCIETY'S 10TH
SCIENTIFIC MEETING**

*14th May 2016 (Saturday)
Nanyang Technological University, Singapore*

LIST OF AWARDEES

*Congratulations to all the winners of the
BES 10th Scientific Meeting*

BES10SM



**BIOMEDICAL ENGINEERING SOCIETY'S 10TH
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DESIGN COMPETITION

WINNER

YEOW BOK SENG

(National University of Singapore)

*A magnetically actuated guide-wire steering system towards
arteriovenous fistula angioplasty procedures.*

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JC / HIGH SCHOOL (PODIUM)

MERIT AWARDS

ALOYSIUS TEOW & JAMES ZHENG

(Anderson Junior College)

*The development of scalable and modular intelligent systems for
natural language processing*

LIN HONG YI, FONG KEI SEN & AZNIKAH BTE ABDUL NIZAR

(Anderson Junior College)

*On-demand texture dialling of VO₂ M/B-phase nano-structured films
using scanning focused laser irradiation.*

CHAN YAN ZHI & CHEW HONG EE BENJAMIN

(Victoria Junior College)

*Surface Enhanced Raman Spectroscopy (SERS) based Point-of-Care
Diagnostics for Hand, Foot and Mouth Disease (HFMD).*

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POLYTECHNIC (PODIUM)

GOLD

YEW MAN XUAN CHLOE

(Singapore Polytechnic)

Study of Uniaxial Stretched 3-Dimensional Anisotropic Geometric Scaffolds for Human Mesenchymal Stem Cells (HMSCs) Tendon Genesis.

MERIT AWARDS

NUR SYAFIQAH AMIRAH ZAKARIA

(Nanyang Polytechnic)

Development and Testing of Biodegradable Polymer prototypes used in Packaging.

CHONG JIA HAO & GOH MING CHANG

(Nanyang Polytechnic)

Development of Bus Stop Announcement and Bus Destination Notification System for the Visually Handicapped.

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UNDERGRADUATE (PODIUM)

GOLD

WEE SOON NAN

(Nanyang Technological University)

A multifactorial strategy for scaffold-free engineered tendon developed from mesenchymal stem cell-derived cell sheet technology.

SILVER

NWE NWE LINN OO

(Nanyang Technological University)

In vitro bone marrow environment for Recruitment and Expansion of Leukemic Stem Cells.

BRONZE

ALYSSA TOH LIYU

(National University of Singapore)

Integrated Mueller Matrix Imaging and Point-wise Spectroscopy for Early Colon Cancer Detection.

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UNDERGRADUATE (PODIUM)

MERIT AWARDS

MIGUEL REYES

(National University of Singapore)

*An Aggregation-based SERS Scheme for the Rapid Detection of
Enterovirus 71.*

KHAING MON NANDA KYAW (ISABELLA TAN)

(Nanyang Technological University)

*Combinatorial effect of micropatterning and extracellular matrix in
mesenchymal stem cell based cell sheet engineering.*

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GRADUATE (PODIUM)

GOLD

HO YAN TECK

(National University of Singapore)

An in vitro microfluidic platform for probing nanoparticle permeability.

SILVER

EUGENIA YEO LI LING

(National University of Singapore)

Enhancement of Photodynamic Therapy by Chlorin e6 using Gold Nanorods with an Apolipoprotein E Corona.

BRONZE

PADMAJA ANAND

(Nanyang Technological University)

FRET-Based Method for Detection of Drug-Induced Apoptosis in a 3D Breast Tumor Model.

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GRADUATE (PODIUM)

MERIT AWARDS

GERALDINE CHIEW

(Nanyang Technological University)

Development of a co-culture model representative of tumor angiogenesis and generation of its 3D spheroidal model for drug screening.

CHAN CHOW KHUEN

(National University of Singapore)

Modification of the Lower Limb Muscle Type Recruitment in Forward Gait Performed at Different Speeds among Young and Elderly Individuals.

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JC / HIGH SCHOOL (POSTER)

BEST POSTER

NICOLE YOW WEI

(Raffles Institution Junior College)

*Gold Nanostar (AuNS) Platform for Detection of Carbapenemase
Producing Enterobacteriaceae (CPE) in the Healthcare Setting.*

MERIT AWARDS

THNG ZHENG HUAN, JAVIER

(NUS High School of Mathematics and Science)

*Exploiting the photoprotection capabilities of anthocyanin for human
use.*

REBECCA SIM SHU YU

(National Junior College)

Inhaled Delivery Formulation of Curcumin Nanoparticle Complex.

LI JIABAO

(Anderson Junior College)

Personalised Performance Assessment Using Users' Engagement.

BEST POSTER



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JC / HIGH SCHOOL (POSTER)

MERIT AWARDS (CONTINUED)

NICOLE LAI YUN-KI & SIN KAH KEK KELLY

(Victoria Junior College)

*Synthetic Alkaloid Enzymology for Anti-Ageing Therapeutic
Development.*

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POLYTECHNIC (POSTER)

BEST POSTER

MALCOLM PANG QING HAN

(Ngee Ann Polytechnic)

A QR Code Or NFC Tag Based Prescription Reader For The Visually Impaired.

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UNDERGRADUATE (POSTER)

BEST POSTER

CHUA LE TENG SHERRY

(National University of Singapore)

*A Study of the Neuroprotective Effect of Peripheral Sensory
Stimulation in the Hyperacute Phase of a Photothrombotic Ischemia
Rat Model.*

MERIT AWARDS

LEE JI CHAO TRISTAN

(National University of Singapore)

*Effect of Nuclear Localization Signal on Cationic Polymer Based Gene
Transfection of Non-Dividing Cells.*

KEW KOK WEN

(Nanyang Technological University)

Development of Clinical Photoacoustic Imaging System.

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GRADUATE (POSTER)

BEST POSTER

MA SHIJUN

(Nanyang Technological University)

Shear stress stimulates migration and extravasation of tumor cells.

MERIT AWARDS

AKSHAYA SRINIVASAN

(National University of Singapore)

Substrate stiffness affects the multipotency of neural crest derived ectomesenchymal stem cells.

GEETIKA SAHNI

(National University of Singapore)

Micropatterned Human Embryonic Stem Cell Cultures for Modelling Neural Tube Defects.

LIU YI

(National University of Singapore)

Enhanced mRNA delivery by Influenza A Virus Non-Structural Protein 1 for non-vaccine applications.

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GRADUATE (POSTER)

MERIT AWARDS (CONTINUED)

UMA RAMU *

(Singapore University of Technology and Design)

Virtual Vision

[Note: Abstract was presented for BES Design Award as well.]*

TRAN THE THIEN

(Nanyang Technological University)

Enhanced Solubility of Capsaicin by Using Self-Assembled Capsaicin-Chitosan Microplex Complex.

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For any queries, contact:

BES Student Chapter –

studentchapter@bes.org.sg

Javid Naseem, Chairperson of BES10SM –

mohamedj002@e.ntu.edu.sg

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