



Congratulations to all the winners of the
BES 8th Scientific Meeting
Saturday, 17th May 2014

DESIGN COMPETITION

Winner

Andy Tay Kah Ping

“Inertial Microfluidic Device for Malaria Parasites Enrichment”
National University of Singapore, Biomedical Engineering

Runner-up

Sow Wan Ting

(Mentored by Ng Kee Woei)

“Developing a Viable Wound Dressing from Human Hair”
Nanyang Technological University, Materials Science & Engineering

Merit Awards

**Royston Tan, Sharon Lee, Teo Zhan Teng, Isaac Lin, Beryl Yee
and Ankshita Prasad**

*“Novel Glaucoma Drainage Device That Will Allow for Objective and
Reversible Control of Intraocular Pressure”*

National University of Singapore, Biomedical Engineering

Phang Ye Sheng and Ning Xiao Yu

“Effective and Efficient Diagnosis of Spinal Cord Injury”

Ngee Ann Polytechnic, Electronic & Computer Engineering

**Thoriq Salafi, Russel Koh, Gao Zheng Yang, Gordon Ko,
and Jaryl Ng**

(Mentored by James Kah)

“The Shrink: Wearable Low-Cost Stress Monitoring Device”

National University of Singapore, Biomedical Engineering

Ken Lai, Sophia Phang, and Chayut Orapinpatipat

(Mentored by Chua KP)

“Sentinel Active Monitoring”

Ngee Ann Polytechnic, Biomedical Engineering



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PLATFORM PRESENTATION

JUNIOR COLLEGE/HIGH SCHOOL

Gold Award

Teh Feng Kun

(Mentored by Kunn Hadinoto Ong)

*“Refining the Roles of Probiotics in Functional Foods beyond Dairy
Products”*

Anderson Junior College

Silver Award

Teoh Zhihui, Lim Li Feng, and Tan Jin De

(Mentored by Wen Feng)

“Tendon Tissue Engineering”

Anderson Junior College

POLYTECHNIC

Gold Award

Chin Chia Joo and Du Tie Hua

“Development of a System to Detect Falls in Elderly Patients in a Healthcare Environment (Phase 1)”
Nanyang Polytechnic, Biomedical Engineering

Silver Award

Ang Kian Kai Gerald and Chang Hengky

“Development of Bioactive/Bioresorbable Nanofiber Membrane Scaffold for Tissue Engineering Application”
Nanyang Polytechnic, Biomedical Engineering

Bronze Award

Cheong Soon Wai

“Self-Setup Wireless Vital Sign Monitoring System- A Resource Multiplier System for [Resource]-scarce Communities”
Nanyang Polytechnic, School of Engineering

UNDERGRADUATE

Gold Award

Teo Li Ting Lynette, Ren Hongliang, and Liao Wu

“Robotic Endoscopy System for Natural Orifice Transluminal Endoscopic Surgery”
National University of Singapore, Mechanical Engineering

Silver Award

**Daryl Tan, Tan Jian'An Daryl, Neo Puay Yong,
James Cho-Hong Goh, and Toh Siew Lok**

“Development of a Novel Anisotropic Composite Silk Scaffold for Annulus Fibrosus Tissue Engineering”
National University of Singapore, Biomedical Engineering

Bronze Award

Su Chengxun, Yu Kang, and Sierin Lim

“Display of Chikungunya Epitope on Protein Cage for Potential Application as Vaccine”

Nanyang Technological University, Bioengineering

GRADUATE

Gold Award

Neo Puay Yong, Pujiang Shi,

James Cho-Hong Goh, and Siew Lok Toh

“Intervertebral Disc Tissue Engineering: Towards Complete Disc Replacement with Silk/PVA Hydrogels”

National University of Singapore, Biomedical Engineering

Silver Award

Nishanth V Menon, Yon Jin Chuah, Ying Zhang, Yingnan Wu, Ann Charlene Lee, Ghim Hian Goh, Vincent Chan, Yilei Zhang, and Yuejun Kang

“Synergic Effect of Substratum Properties on Human Mesenchymal Stem Cells Differentiation”

Nanyang Technological University, Bioengineering

Bronze Awards

Vishal Mogal, Chaw Su Yin, and Terry W. J. Steele

“Radical Based ‘On-demand’ Soft Tissue Adhesives”

Nanyang Technological University, Materials Science & Engineering

Yap Hong Kai, Raye Yeow Chen Hua, and James Cho-Hong Goh

“Design and Characterization of Soft Bending Actuator for Rehabilitation Application”

National University of Singapore, Biomedical Engineering



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POSTER PRESENTATION

JUNIOR COLLEGE/HIGH SCHOOL

Best Poster

Carmen Chia Jia Yun, Isabelle Tan, and Teoh Wei Shan

*“Investigating the Suitability of Modified Nanofibres as Antimicrobial
and Biodegradable Sutures”*

River Valley High School

Merit Award

Rachel Genevieve Law Rui Qi

“Ambient Activity Monitoring and Fall Prevention for the Elderly”

River Valley High School

POLYTECHNIC

Best Poster

Ignacius Tay, Lee Bee Chan, Crystal Hay, and Saji George

*“Understanding the Mechanism of Silver Resistance in Pathogenic
Bacteria”*

Nanyang Polytechnic, Chemical and Life Sciences

Merit Award

Joel Goh En Ting

“Development of Flexible Electrodes for Muscular Therapy”

Nanyang Polytechnic, Biomedical Engineering

UNDERGRADUATE

Best Poster

**Muhammed Abdurrahiem Bin Abdul Rahman,
Jean-Yves Dewavrin, and Michael Raghunath**

*“Generating Gradients of Architecture of Collagen I Hydrogel via
Macromolecular Crowding”*

National University of Singapore, Biomedical Engineering

Merit Awards

**Kian Ping Chan, Yang Gao, Eugenia L. L. Yeo, Dewi Susanti,
and James C. Y. Kah**

*“Development of an In Vitro Cell Lysate System to Enhance the
Translation of Insulin”*

National University of Singapore, Biomedical Engineering

**Koh Yong Chun, Xu Jiayue, Yang Zhaolin,
and Ren Hongliang**

“A Study of Motion Control Patterns in Biorobotic Spiders”
National University of Singapore, Biomedical Engineering

GRADUATE

Best Poster

Pornteeera Pawijit, Zhou Yan, and Henry Yu

“Role of Kinectin in Drug-Induced Liver Injury”

National University of Singapore, Physiology

Merit Awards

**Wu Yuanyuan, Zhou Yubin, Terry W.J. Steele, Vladislav Papper,
and Robert Marks**

*“Photochrome Aptamer Switch Assay for Small Molecule Detection
and Quantification”*

Nanyang Technological University, Materials Science & Engineering

**Koh Wee Ling, Leo Hwa Liang, Hanry Yu,
and James Chen Yong Kah**

*“Understanding Hepatic Effect of Gold Nanoparticles to Facilitate
Cancer Therapy”*

National University of Singapore, Biomedical Engineering
