

## **Session Program**

**27-29 Nov 2016**



## **NanoThailand 2016**

### ***Heron 2***

THE GREENERY RESORT KHAO YAI  
[www.greeneryresort.com](http://www.greeneryresort.com) Nakhon Ratchasima, Thailand

# Sunday 27 November

15:15

## Heron 2: Session 1: Nano-agriculture

**Session** | **Location:** Greenery, Room3, --

15:15–15:35

### Synthesis and fabrication of nanomaterials for applications in food and agriculture

**Speaker**

Prof. Mongkol Sukwattanasinitt

15:35–15:55

### Enhanced Production and Selected Use of Nanocellulose from Fruit and Vegetable Residues: A Brief Review

**Speaker**

Prof. Sakamon Devahastin

15:55–16:15

### Discovery of biological self-assembling systems that have potential for incorporation into nanodevices and sensors

**Speaker**

Prof. Robert Robinson

16:15–16:30

### Production of Nanocellulose from Lime Residues Using Chemical-free Technology

**Speaker**

Ms Saranya Jongaroontaprangsee

16:30–16:45

### Antimicrobial and Antioxidant Activity of Caffeic Acid Phenethyl Ester Nanoparticles

**Speaker**

Ms Suparak Saelo

16:45

# Monday 28 November

10:15

## Heron 2: Session 2: Nano-medicine & biotechnology

**Session** | **Location:** Greenery, Room3, --

10:15–10:35

### Development of Theranostic Nanoparticles for Cancers

**Speaker**

Dr Sith Sathornsumetee

10:35–10:55

### Nanotechnology based delivery systems for peptides and vaccines

**Speaker**

Prof. Istvan Toth

10:55–11:15

### Nanotechnology and Health

**Speaker**

Dr Teerapol Srichana

11:15–11:35

### Highly Sensitive Nucleic Acid and Antibody Based Electrochemical Detection by Using of Nanomaterials as Signal Amplification Elements

**Speaker**

Werasak Surareungchai

11:35–11:50

### Evaluation of immunochromatographic-gold nanoparticle based assay efficacy in the detection of protease inhibitor in HIV-1 infected patient's plasma

**Speaker**

Ms Weeraya Thongkum

11:50

13:00

## Heron 2: Session 3: Environmental nanotechnology

**Session** | **Location:** Greenery, Room3, --

13:00–13:20

### Nanocatalysts for Biorefinery and Advanced Biofuel Applications

**Speaker**

Dr Kajornsak Faungnawakij

13:20–13:35

### The electrochemical properties of NiO/NFs electrode induced by UV light irradiation

**Speaker**

Ms Supansa Musikajoen

13:35–13:50

### Deoxygenation of oleic acid to produce bio-hydrogenated diesel over molybdenum oxide catalysts on supported alumina under inert atmosphere

**Speaker**

Ms Navapat Krobkrong

13:50–14:05

**An innovative application of magnetic field for CO<sub>2</sub> hydrogenation reaction on Fe and Cu supported MCM-41 catalyst****Speaker**

Ms Sirapassorn Kiatphuengporn

14:05–14:20

**The Increased Durability of Natural Dye on the SiO<sub>2</sub>-Modified Paper****Speaker**

Radchada Buntam

14:20–14:35

**Efficient visible light-induced photocatalytic degradation of Rhodamine B over chlorophyll and Mg co-modified P25 nanoparticles****Speaker**

Ms Thanaree Phongamwong

14:55

15:00

**Heron 2: Session 4: Nano-agriculture, Environmental nanotechnology & Other related topics****Session** | **Location:** Greenery, Room3, --

15:00–15:20

**Smart Farm System : Case Studies in Thailand****Speaker**

Teerakiat Kerdcharoen

15:20–15:35

**The effect of green synthesized gold nanoparticles on rice germination and roots****Speaker**

Mr Nji Tsi

15:35–15:50

**Turn-On Fluorescent Sensor from Indolium Salt for Cyanide Detection****Speaker**

Mr Apiwat Promchat

15:50–16:05

**Styryl-Functionalized BODIPY as Fluorescent Probe For Metal Ions Detection in Aqueous Media****Speaker**

Mr Suthikorn Jantra

16:05–16:20

**Water disinfection using silver nanoparticles impregnated coffee grounds: Escherichia coli and Staphylococcus aureus killing in batch-mode****Speaker**

Ms CHONLADA POKHUM

16:20–16:35

**Cassava root materials composited with PEDOT:PSS used as low cost counter electrodes in dye-sensitized solar cells****Speaker**

Mr Seksan Lowpa

16:35-16:50

**Metal Phthalocyanine and Metal Oxide Modifying Multiwall Carbonnano Tube Paste Sensors for Classification of Sweet Taste**

**Speaker**

Mr Theerasak Juagwon

16:50

## Tuesday 29 November

10:15

### Heron 2: Session 5: Nano-medicine & biotechnology

**Session** | **Location:** Greenery, Room3, --

**10:15–10:35** **Domain-Exchanged Antibody with Potentiated Effector Functions**

**Speaker**

Florian Ruker

**10:35–10:55**

**Use of nanobodies in developing a bacterial antibody production platform**

**Speaker**

Prof. Mehmet Berkmen

**10:55–11:15**

**Bionanomaterials for Diagnostics, Imagine and Drug delivery**

**Speaker**

Uracha Ruktanonchai

**11:15–11:35**

**Nanomaterials for analytical detection**

**Speaker**

Prof. Orawon Chailapakul

**11:35–11:50**

**Selective Permeability of Antimicrobial Agents through the Protein Nanopore of the Highly-Drug Resistant Melioidosis Bacterium Burkholderia pseudomallei**

**Speaker**

Mr Anuwat Aunkham

**11:50–12:05**

**Oriented antibody conjugation on dye-doped silica nanoparticles for targeted in vivo fluorescent imaging**

**Speaker**

Ms Kiatnida Treerattrakoon

**12:05–12:20**

**Development of cellular platform for enhancing neuron differentiation**

**Speaker**

Ms Suthiwan Udomrat

12:20

13:30

### Heron 2: Session 6: Nano-medicine & biotechnology

**Session** | **Location:** Greenery, Room3, --

**13:30–13:50** **Cosmeceutical based nanotechnology: the beauty from nature**

**Speaker**

Dr Mattaka Khongkow

**13:50–14:10**

**Nanomedicine-based drug delivery systems for anti-cancer targeting and treatment.**

**Speaker**

Teerapong Yata

14:10–14:25

**Electrochemical aptasensor for glycated albumin in Diabetes mellitus diagnosis and monitoring****Speaker**

Dr Sasinee Bunyarataphan

14:25–14:40

**Development of novel silica-coated superparamagnetic iron oxide nanoparticles for highly efficient magnetofection and molecular imaging.****Speaker**

Dr Jeerapond Leelawattanachai

14:40–14:55

**Synthesis and Fabrication of Silicon Nitride Nanopore Device for Biomolecule Detection****Speaker**

Dr Thitikorn Boonkoom

14:55