from RESEARCH to MARKET

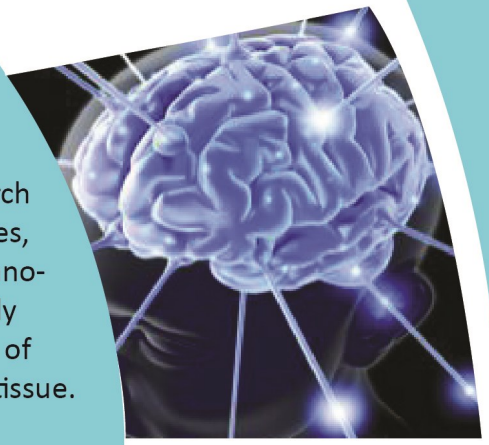
This workshop combines three important aspects for the development of pharmaceuticals, nutraceuticals and cosmeceuticals products. It covers the research on the efficacy, toxicity and delivery systems of the bioactive substances in several research areas such as cosmetics, neurosciences, cancer, bone cartilage etc. To date, nano-technology approaches are extensively studied to improve the bioavailability of bioactive substances to the targeted tissue.

The topics in this workshop will cover:
i) How to choose potential bioactives and their suitable nanoparticles.

ii) Development and characterisation of nanoparticles including a practical session using Zeta Sizer.

iii) In vitro and in vivo toxicity testing, including practical sessions using a flow cytometer instrumentation.

iv) Commercialization initiatives on R & D findings.



WORKSHOP on Nanomedicine & Nanodelivery

19 - 21st MAY, 2015

Venue : Institute of Bioscience, Universiti Putra Malaysia

Organized by:

Laboratory of Molecular Biomedicine (MOLEMED),
Institute of Bioscience, UPM

UPM UNIVERSITI PUTRA MALAYSIA BERILMU BERBAKTI

INSTITUT BIOSAINS

MOLEMED SEMINAR & WORKSHOP SERIES 2015

DAY 1: 19 May, 2015 (Tuesday)

8.15 a.m.	Registration & Breakfast
9.00 a.m.	Welcoming Remarks
9.15 a.m.	**Lecture 1**: Commercialization initiatives on R & D findings Speaker: Prof. Dr. Maznah Ismail, UPM
10.00 a.m.	**Lecture 2**: Bioactives delivery systems: lipid-based nanoparticles in neuroscience Speaker: Prof. Dr. Hamidon Basri, UPM
11.00 a.m.	**Lecture 3**: Bioactives delivery systems: carbon-based nanoparticles Speaker: Prof. Dr. Zobir Hussein, UPM
12.00 p.m.	Lunch
2.00 p.m.	**Lecture 4**: Basic principles of Zeta sizer and its applications Speaker: Application Specialist, DKSH Technology Sdn. Bhd.
3.00 p.m.	**Hands-on 1**: Zeta sizer
4.30 p.m.	End of session & Tea time

DAY 2: 20 May, 2015 (Wednesday)

9.15 a.m.	**Lecture 5**: Bioactives delivery systems: water-based nanoemulsion in nutraceuticals Speaker: Dr. Aminu Ishaka, UPM
10.15 a.m.	Refreshment
10.45 a.m.	**Lecture 6**: Bioactives delivery systems: lipid-based nanoparticles in cosmeceuticals and pharmaceuticals Speaker: Prof. Dr. Mahiran Basri, UPM
11.45 a.m.	**Lecture 7**: Risk assessment of bioactives and nanomaterials: toxicity studies in cells and animals Speaker: Assoc. Prof. Dr. Latifah Saiful Yazan, UPM
12.45 p.m.	Lunch
2.15 p.m.	**Hands-on 2:** Preparation of cells for flow cytometric assays
4.30 p.m.	End of session & Tea time

DAY 3: 21 May, 2015 (Thursday)

8.15 a.m.	Breakfast
9.00 a.m.	**Lecture 8**: Methods on assessment of cytotoxicity by flow cytometer Speaker: Assoc. Prof. Dr. Noorjahan Banu Mohamed Alitheen, UPM
10.00 a.m.	**Hands-on 3**: Flow cytometric evaluation on nanoparticles-mediated cell toxicity – Cell cycle analysis
12.45 p.m.	Lunch
2.15 p.m.	**Hands-on 4**: Flow cytometric evaluation on nanoparticles-mediated cell toxicity - Mitochondrial membrane potential assay
3.15 p.m.	**Hands-on 5**: Flow cytometric evaluation on nanoparticles-mediated cell toxicity – Reactive oxygen species assay
4.15 p.m.	Closing Remarks & Tea time

OBJECTIVES

1. To update researchers and students on the delivery systems of compounds/bioactives/ substances into the biological system through nanotechnology approaches.

2. To provide hands-on experience on zeta sizer and flow cytometer.

3. To enhance knowledge and assist researchers and students in the related researches.

from RESEARCH

WHO SHOULD ATTEND?

Key personnel in related institutions, industries, young scientists, research officers, lecturers, postgraduates students and individuals who are interested in or newly exposed to the research on development of pharma-, nutra- and cosme-ceuticals products which involve the testing on efficacy, toxicity and delivery systems of compounds/bioactives/substances into the biological system.

ORGANIZING COMMITTEE

Advisor: Prof. Dr. Abdul Rahman Omar

Chairperson: Prof. Dr. Maznah Ismail

Secretary I: Ms. Norsharina Ismail

Secretary II: Mdm. Mastura Ab. Ghani

Treasurer: Mdm. Nurul Nazira Mohamed

Committee Members:

Dr. Nor Asma Abd. Razak

Mr. Chan Kim Wei

Mr. Mohd. Hanif Md. Arshad

Ms. Norhayati Yusuf

Mdm. Zainura Mat Hussain

Please return the completed registration form to:

WORKSHOP SECRETARIAT

Laboratory of Molecular Biomedicine

Institute of Bioscience

Universiti Putra Malaysia

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+603-8947 2115 (Mastura)

Fax. No.: +603-8947 2116

Email: norsharina@upm.edu.my

norsharinaibs@gmail.com

REGISTRATION FEE

The workshop registration fee can be paid cash or by Money Order/ Postal Order/ Cheque made payable to "Bendahari Universiti Putra Malaysia". Kindly submit the cash or Money Order/Postal Order/ Cheque to the workshop secretariat on the day of registration.

REGISTRATION FORM

Yes, I would like to attend the workshop:

Category	Fee (RM)	Please tick (/)
UPM	1,500.00	
Outside UPM	1,700.00	

☐ Vegetarian ☐ Non-Vegetarian

Mode of payment: _____

Name: _____

Designation: _____

Department/ Institution:

_____

Address: _____

_____

Tel. No.: _____

Fax. No.: _____

Email : _____

*Note: For UPM participants, kindly fill in the details below.

Research Vote No. : _____

_____

(Supervisor/ Project Leader's)
Signature and official stamp