

## REGISTRATION FORM

Complete the following form and mail or fax to the workshop administration. Please type or write clearly.

Name:.....  
Designation:.....  
Dept./Institution:.....  
Address:.....  
.....  
.....  
Tel. No.: .....  
Fax No.:.....  
E-mail:.....  
Signature:..... Date:.....

Meal Choice:  Vegetarian  
 Non-vegetarian

Mode of payment:

Cash  
 Money Order/Postal order/Cheque

### **Note:**

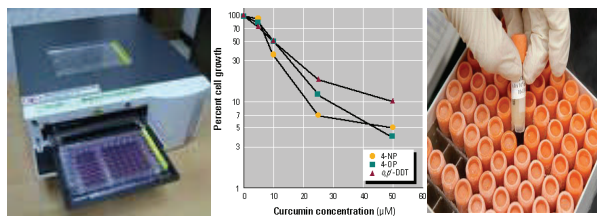
For UPM participants, if registration fee is paid through research grant:

Research vot. No.: .....

.....  
(Supervisor/Project Leader's signature and official stamp)

## ORGANIZING COMMITTEE

Prof. Dr. Maznah Ismail (Advisor)  
Assoc. Prof. Dr. Sharida Fakurazi (Chairperson)  
Mdm. Norhaszalina Md. Isa (Secretary)  
Ms. Siti Aisyah Mohd Suboh (Treasurer)  
Mdm. Nancy Liew Woan Charn (Committee Member)  
Dr. Tan Sheau Wei (Committee Member)  
Ms. Norsharina Ismail (Committee Member)  
Mr. Chan Kim Wei (Committee Member)  
Mdm. Norhafiza Azwa Ghozali (Committee Member)



Please return the completed registration form to:

### Workshop Secretariat

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Institute of Bioscience  
Universiti Putra Malaysia

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# ANIMAL CELL CULTURE WORKSHOP

21st - 23rd June 2011



Organized by:

Laboratory of Molecular Biomedicine  
Institute of Bioscience  
Universiti Putra Malaysia

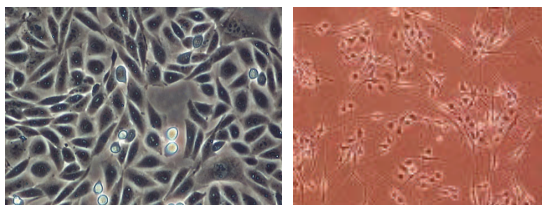
## INTRODUCTION

Cell Culture has become one of the major tools used in cell and molecular biology. Some of the important areas in which cell culture is currently a major role are cancer research, toxicity testing, virology, model system, drug screening and development, cell-based manufacturing, genetic counseling, genetic engineering and gene therapy.

The advancement of cell culture technique has provided an interesting perspective on its multi-applications in research.

However, cell culture requires a certain amount of skill. Therefore there is a need for researchers and those who are involved in life sciences to have a solid understanding of and the ability to manipulate animal cells through culture.

This workshop is designed to educate and train participants in proper cell culture practice and technique. Included in this workshop are AO and PI staining, primary culture technique (hepatocytes), stem cell culture and also cell proliferation and cytotoxicity assay.



## Objectives of the workshop

- To introduce the applications of animal cell culture in scientific fields.
- To promote proper techniques and skills in cell culture practice.
- To provide solid information of basic animal cell culture
- To expose participants to safe handling of animal cell culture

## Who Should Attend?

Young Scientists, Research Officer, postgraduate students and individuals who are interested in pursuing animal cell culture in their scientific fields.

## Registration Fee

The workshop registration fee is **RM1,200.00**. It can either be paid **cash** or by **Money Order/Postal order/Cheque** made payable to “**Bendahari Universiti Putra Malaysia**”. Kindly pass the cash or Money Order/Postal order/Cheque to the **Workshop Secretariat** on the day of registration.

## Due Date for Registration

Participations for this workshop will be on a first-come-first-serve basis. Only the first 20 registrations will be accepted. Please note that the due date for registration is **10 June 2011 (Friday)**.

## WORKSHOP SCHEDULE

### 21 June 2011, Tuesday

8:30-9:00AM	Registration
9:00-9:15AM	Welcoming Remarks
9:15-10:15AM	<b>Lecture 1:</b> Setting up a cell culture laboratory and safety
10:15- 10:45AM	Tea Break
10:45- 11:45AM	<b>Lecture 2:</b> Cell environment: media, supplements and choice of growth matrix
11:45-12:45PM	<b>Lecture 3:</b> Basic cell culture technique and maintenance of cell lines
12:45-2:00PM	Lunch
2:00-3:00PM	<b>Hands-On 1:</b> Subculture and trypsinization of cell lines and cryopreservation
3:00-4:00PM	<b>Hands-On 2:</b> Cell counting and evaluation of viable cells
4:00-5:00PM	<b>Hands-On 3:</b> Cell Seeding for MTT assay and AO/PI staining Method
5:00-5:30PM	Tea Break

### 22 June 2011, Wednesday

9:00-10:00AM	<b>Lecture 4:</b> Contamination and microbial testing
10:00-10:30AM	Tea Break
10:30- 11:30AM	<b>Lecture 5:</b> Cell Death
11:30- 12:30PM	<b>Lecture 6:</b> Cytotoxic and Proliferation Assays
12:30- 2:00PM	Lunch
2:00-3:30PM	<b>Hands-On 4:</b> Cell Treatment for MTT Assay
3:30-5:00PM	<b>Hands-On 5:</b> Cell Treatment for AO/PI Staining Method
5:00-5:30PM	Tea Break

### 23 June 2011, Thursday

9:00-10:00AM	<b>Lecture 7:</b> Primary Culture
10:00-10:30AM	Tea Break
10:30- 11:30AM	<b>Lecture 8:</b> Stem Cell Culture
11:30- 12:30PM	<b>Hands-On 6:</b> MTT Assay
12:30- 1:30PM	<b>Hands-On 7:</b> AO and PI Staining Method
1:30-2:30PM	Lunch
2:30-4:30PM	<b>Hands-On 8:</b> Primary Culture (Hepatocytes)
4:30-5:00PM	Presentation of Certificates & Closing Remarks
5:00-5:30PM	Tea Break