

TENTATIVE PROGRAMME

Day 1 (15 December 2008, 8.30 -5.30 pm)

- Registration and Opening ceremony
- Activation of Agro culture of RNAi GFP , TCV-CP, HcPro, P19, AV2 and PVX GFP
- Agroinfiltration of PVX GFP in *Nicotiana benthamiana* plants and rest on 16-C plants
- RNA isolation from 16-C and *Nicotiana benthamiana* plants
- Quantification of RNA
- Preparation of denaturing Formaldehyde gel and sample run
- Transfer of the gel on nylon membrane (over night)

Day 2 (16 December 2008, 8.30-5.30 pm)

- Cross linking of Northern Blot
- siRNA isolation from total RNA
- Quantification of siRNA
- Preparation of acrylamide gel and siRNA sample running
- Preparation of probe by PCR for Northern blot using DIG PCR kit
- Transfer of siRNA from gel to membrane and cross linking
- Hybridization of Northern blot using GFP probe
- Observation of inoculated plants

Day 3 (17 December 2008, 8.30-5.30 pm)

- Washing and Developing of Northern blot
- Preparation of oligo probe for siRNA/miRNA detection
- Hybridization of siRNA blot
- Observation of inoculated plants

Day 4 (18 December 2008, 8.30-5.30 pm)

- Washing and development of siRNA/miRNA blot
- Observation of inoculated plants
- *Ambion: The total solution for RNAi*
- Closing ceremony

INBIOSIS

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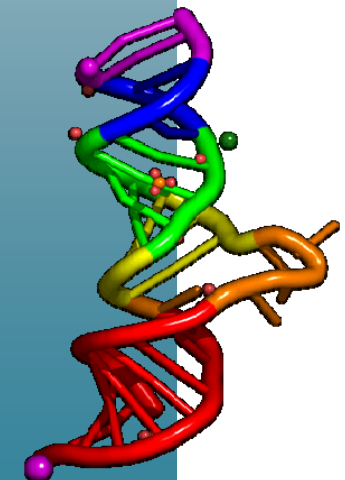
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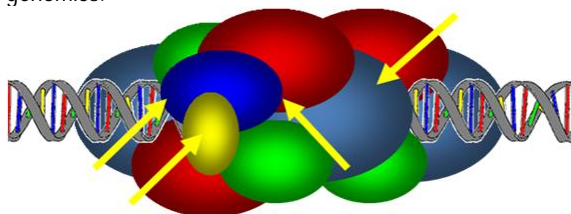
Workshop: RNAi Technology and Application

15~18 December 2008
Centre for Gene Analysis and Technology
Institute of Systems Biology
Universiti Kebangsaan Malaysia
Bangi, Selangor



INTRODUCTION

RNAi has emerged as an important mainstream tool for both basic and applied research, and it has revolutionized the novel discipline known as functional genomics. RNAi is ubiquitous in eukaryotes and currently is the preferred tool for investigating the regulation of gene expression in plants, animals, and fungi. This method is becoming increasingly popular because of its wide-ranging applicability in research, which results from compatibility with cell culture and *in vivo* models. Comparatively speaking, RNAi is much faster and more economical than creating knock-out animals in order to study the function of specific genes. The resulting precision silencing of specific genes also makes RNAi an attractive platform for the discovery and development of life-saving pharmaceuticals. Realizing the important of this emerging technology, The Institute of Systems Biology (INBIOSIS), Universiti Kebangsaan Malaysia and National Institute of Biotechnology and Genetic Engineering, (NIBGE), Pakistan, will be organizing a training workshop on "RNAi Technology and Application", to be held at Center for Gene Analysis and Technology, INBIOSIS, UKM from 15 to 18 December 2008. This workshop will provide hands-on technical training for siRNA, experimental design, troubleshooting and measuring knockdown effects. Featured lectures will provide in depth discussion on the fundamentals of RNAi as well as cutting edge applications for drug discovery and target validation. The workshop is specially designed for post-graduate students, academicians and scientists who are working on the field of molecular biology/virology and functional genomics.



GUEST SPEAKER

Dr. Shahid Mansoor

Principle Researcher
Head of Plant Biotechnology Unit,
National Institute of Biotechnology and Genetic Engineering
Faisalabad, Pakistan

FACILITATORS

Dr. Imran Amin Muhammad Amin,

Senior Scientist,
Plant Biotechnology Unit,
National Institute of Biotechnology and Genetic Engineering
Faisalabad, Pakistan

Assoc. Prof. Dr. Zamri Zainal

Coordinator,
Center for Plant Biotechnology
Institute of Systems Biology
Universiti Kebangsaan Malaysia

DETAILS

Date : 15-18 December 2008
Venue : Centre for Gene Analysis and Technology
Institute of Systems Biology (INBIOSIS)
Universiti Kebangsaan Malaysia

****As places are limited to 20 participants, early registration is recommended.***

ACCOMODATION

Participants are advised to book their own accommodation. Accommodation nearby UKM campus are Puri Pujangga, UKM (tel :03-89213361/3362), Hotel Equatorial Bangi (tel: 03-82102222/89251111, website:www.equatorial.com/bng/)

ENQUIRIES

For more information please contact:
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zz@ukm.my
03-89215694

REGISTRATION

Name _____

Address _____

Tel _____

Fax _____

Email _____

*Attendance confirmation should be made before
5 December 2008 and sent to
Institute of Systems Biology (INBIOSIS),
Universiti Kebangsaan Malaysia,
43600 UKM Bangi,
Selangor Darul Ehsan or
faxed to 03-89213398*

Workshop fees: RM 1, 500.00

Registration fee covers workshop materials, tea and lunch must be paid in full prior to or on the day of registration.

METHOD of PAYMENT:

- Check
- Money Order
- Postal Order

All payment made payable to "Bendahari Universiti Kebangsaan Malaysia"