

Workshop:

RNAi Technology and Application

15~18 December 2008

Centre for Gene Analysis and Technology
Institute of Systems Biology
Universiti Kebangsaan Malaysia

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
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Assoc. Prof. Dr. Zamri Zainal

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

Workshop fees: RM 1, 500.00

Registration fee covers workshop materials, tea and lunch.

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

ENQUIRIES

For more information please contact:

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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 (overnight)

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

ORGANIZED BY



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