

# Practical Workshop

## ***DNA methylation measurement using bisulphite based technologies***

29 – 30 November 2009

### **Workshop Details:**

- *Venue:* Level 9, Murdoch Childrens Research Institute, Royal Children's Hospital, Flemington Road, Parkville, Victoria.
- *Practical Workshop:* strictly 20 participants.
- *Registration fee:* AUD 550 (incl. GST) per person.
- *Contact Organising Committee:*  
Convenor: Dr Benjamin Ong (Benjamin.ong@mcri.edu.au)  
Dr Jeff Craig (jeff.craig@mcri.edu.au),  
Dr Richard Saffery (richard.saffery@mcri.edu.au),  
Dr Dr Nick Wong (nick.wong@mcri.edu.au)

DNA methylation is the most widely studied epigenetic modification and has been unequivocally linked to proper growth and development as disruption of methylation profile has been linked to several diseases, including cancer. This two-day practical workshop offers researchers an opportunity to acquire knowledge and experience in current technologies used to profile DNA methylation in mammals. Experts in the field will discuss different technologies with hands-on practical component on bisulphite sequencing and mass spectrometry-based DNA methylation analyses (Sequenom MassARRAY Epiotyping).

# Program

## Sunday 29 November 2009

- 08.30 - 09.00 Registration and Coffee (provided)
- 09.00-09.10 Welcome and introduction  
*Dr Richard Saffery, MCRI*
- 09.10 - 10.00 DNA Methylation and Epigenetics  
*Dr Jeff Craig, MCRI*
- 10.00 – 10.30 Tea and Coffee break (provided)
- 10.30 - 11.30 **Lab:** PCR set up
- 11.30 – 13.00 Assay design – bisulphite sequencing and Sequenom  
*Dr Darryl Irwin, Sequenom and Dr Nick Wong, MCRI*  
Bisulphite conversion: Tips and tricks discussion  
*Dr Nick Wong, MCRI*
- 13.00 - 14.00 Lunch (provided)
- 14.00 – 14.30 **Lab:** SAP treatment
- 14.30 – 15.30 Bisulphite sequencing - Tips and tricks discussion  
*Dr Nick Wong, MCRI*
- 15.30 – 16.30 **Lab:** *In-vitro* transcription and MassCleave
- 16.30 – 17.30 **Lab:** Introduction to Sequenom platform

## Monday 30 November 2009

- 08.30 - 09.00 Registration and Coffee (provided)
- 9.00 - 11.00 **Lab:** Mass spectrometry analysis
- 11.00 – 11.30 Tea and Coffee break (provided)
- 11.30 – 12.30 Bisulphite sequencing data analysis  
*Dr Nick Wong, MCRI*
- 12.30 - 13.30 Lunch (provided)
- 13.30 – 14.30 Sequenom data clean-up and analysis  
*Dr Darryl Irwin, Sequenom and Dr Nick Wong, MCRI*
- 14.30 – 16.00 Sequenom data analysis  
*Dr Darryl Irwin, Sequenom and Dr Nick Wong, MCRI*
- 16.00 – 16.30 Epigenetic silencing in gastric cancer  
*Dr Trevelyan Menheniott, MCRI*
- 16.30 - 17.00 Discussion and Close

## Practical Workshop

### ***DNA Methylation Measurement using Bisulphite related Technologies***

29 – 30 November 2009

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- *Venue:* Level 9, Murdoch Childrens Research Institute, Royal Children's Hospital, Flemington Road, Parkville, Victoria.
- *Registration fee:* AUD 550.00 (incl. GST) per person.
- *Participants are require to bring a laptop for data analysis*

## **REGISTRATION FORM**

Name: .....	
Organisation: .....	
Address: .....	
.....	Postcode .....
Phone (W): .....	(H): .....
Email: .....	

Yes, I would like to attend the workshop: *DNA Methylation Measurement using Bisulphite related Technologies from 29-30 November 2009*

Registration fee: AUD 550.00 (incl. GST) per person

#### **Registration fee can be made by:**

**Cheque** – made payable to Murdoch Childrens Research Institute.

Please send cheque (#.....) and filled in registration form to Dr Benjamin Ong, MCRI, The Royal Children's Hospital, Flemington Road, Parkville, Victoria 3052 AUSTRALIA

**EFT** - (quote workshop name and Institution as reference)

Bank: National Australia Bank

Branch Address: 221 Drummond Street, Carlton, VIC, Australia 3053

Account Name: Murdoch Childrens Research Institute

BSB: 083-355 Acct Number: 02-748-1596

**Credit card** – please complete the details below.

Mastercard/VISA/Diners/American Express (please circle) Card No: .....

Expiry Date: ..... Amount: AUD .....

Cardholder's Signature: .....

Cardholder's Name: .....

For EFT and Credit card payment, please email filled in registration form to [benjamin.ong@mcri.edu.au](mailto:benjamin.ong@mcri.edu.au) or Fax this page of the registration form to Dr Benjamin Ong, MCRI FAX: (03) 8341 6212.

**Closing date Monday, 16 November 2009**

*"This registration form becomes a tax invoice upon receipt of payment".*

We gratefully acknowledge the support of our Sponsors:

- Sequenom Inc Asia Pacific
- Integrated Sciences
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