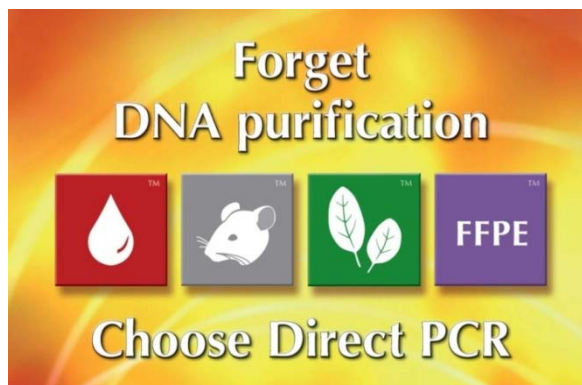


Research Instruments invites you to our workshop:

THERMO SCIENTIFIC DIRECT PCR WORKSHOP



Presented by:

Mr. Timo J. Tumelius, Channel Sales Manager, Thermo Fisher Scientific Genomics

Venue:	INBIOSIS UKM
Date:	22 nd Sept 2011 (Thursday)
Time:	Session - 8:30am to 2:30pm

SEMINAR ABSTRACT:

DNA extraction and purification from plant and animal sources adds time and expense to PCR protocols, and increases the risk of cross contamination and human error. Thermo Scientific has developed Direct PCR protocols using Phusion® High-Fidelity and Phire® Hot Start DNA Polymerases that work well with a variety of different starting materials. Due to the unique nature of these engineered enzymes, many samples such as whole blood, or small amounts of plant or animal tissues may be added directly to the PCR reaction with excellent results. When a larger sample of tissue is used, or when multiple PCR reactions are to be run from a single sample, we have also developed suitable protocols employing a brief pre-incubation, after which an aliquot of the treated sample can be used directly in PCR reactions. Some samples, (e.g. mouse tissue) can create a complex with the amplified PCR product that inhibits migration into agarose gels. We have developed DNARElease® Additive, a product that can be added to gel loading dye to disrupt these complexes and allow clean gel electrophoresis even when the PCR reaction contains a great deal of tissue.

In the Direct PCR workshop a detailed technical lecture for Thermo Scientific Direct PCR method will be presented with comparisons to traditional approaches. In subsequent Direct PCR demonstration a small piece of solid sample material is taken as for template to Direct PCR reaction followed by fast PCR cycling using Thermo Scientific Piko Thermal Cycler 24-well System.

ABOUT THE SPEAKER:

Mr. Tumelius has collected 18 years of biotechnology experience as a research scientist in University of Oulu, a product specialist at Kebo Lab, a product manager and export manager at Finnzymes Oy, and a channel sales manager in Thermo Fisher Scientific. He has been managing the marketing and sales of products from world's leading biotechnology companies in Finnish market and also in Central and East Europe, Asia and Australia through distributor network. He obtained his M.Sc. Biochemistry and Molecular Biology from University of Oulu.

FOR MORE INFORMATION AND REGISTRATION:

Please email to faridda@ukm.my for registration before **20th Sept 2011**. Workshop fees: RM100 including meals and certificate.

Registration Form

Thermo Scientific Direct PCR Workshop

22nd September 2011



Name : _____

Institution : _____

Address : _____

Tel No. : _____

Fax No. : _____

Email : _____

Attendance confirmation should be made before 20th September 2011 (**Tuesday**) and sent to:

Institute of Systems Biology
Universiti Kebangsaan Malaysia
43600 UKM Bangi or
faxed to 03-8921 3398

**As places are limited, early registration is recommended.*

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For more information please contact:

03 8921 4558 /4549

(Cik Faridda Hannim / General)

Or email:

faridda@ukm.my/ fida82@ukm.my