

present

# GENETIC TESTING — OUR FUTURE CHOICES

## THE WHAT, HOW AND WHY OF PREVENTING GENETIC DISEASES. 3 DAY WORKSHOP

This unique 3 day journey into the world of gene testing will allow your students to understand **what** a genetic test involves, **how** they are conducted in the lab and importantly **why** they could be part of everyone's future.

Students will be asked to complete a questionnaire before and after the workshop which will provide data being sought by UWA PhD candidate Royston Ong.

Formal ethics approval has been sought prior to this workshop being offered. (Full details of PhD project/Ethics Approval can be supplied).

The 3 day Workshop includes

- ◆ information sessions / lectures
- ◆ authentic laboratory techniques guided by research scientists
- ◆ tours to sequencing and pathology laboratories at QE II precinct
- ◆ discussions with affected families, research staff

**VENUE:** Harry Perkins Institute of Medical Research, QE II Nedlands

**COST:** \$350/student (inc GST) - cost includes morning/afternoon tea  
NB. Lunch not provided

**TIME:** 9am – 4pm (must attend full 3 days)

**DATES:** TERM 4

Week 3: Tue 24 Oct - Thu 26 Oct  
or

Week 4: Wed 1 Nov - Fri 8 Nov  
or

Week 5: Wed 8 Nov - Fri 10 Nov  
or

Week 6: Wed 15 Nov - Fri 17 Nov

(See page 2 for full program)



## PROGRAM:

**DAY 1** Introduction and overview of genetics/complete questionnaire.  
LAB Introduction (PC2 rules/pipetting)

### **Step 1: The Genetic Test – Providing the sample**

LAB: DNA extraction

Lunch

LAB: Purification of DNA /Tour of Lab HP

LECTURE: How do they get enough DNA to work with? PCR for beginners

LAB: PCR

TOUR: Path West – Collection Dept

### **DAY 2 Step 2: The Genetic Test : Analysing the sample for genetic mistakes**

Gel Electrophoresis and Sanger Sequencing

TOUR: AGRF – Sequencing facility

Lunch

LAB: Other techniques – Histochemical Staining for accurate diagnosis

### **DAY 3 Step 3: What happens to the information and why should we care?**

Case Study Exploration – families face the results.

PRESENTATION: Receiving genetic testing results and what then?

Lunch

Discussion led by Roystyn Ong PhD candidate – “Preconception Carrier Screening” – what is it and the importance of informed choices.

Complete questionnaire and evaluation.

## FOR BOOKINGS AND FURTHER INFORMATION:



[education@perkins.uwa.edu.au](mailto:education@perkins.uwa.edu.au)



6151 0811

