

## The Specialist Centre for Biotechnology Training

### ***Molecular Methods for Industry***

**Dates: 11<sup>th</sup> & 12<sup>th</sup> Feb 2009  
30<sup>th</sup> Jun & 1<sup>st</sup> July 2009**

#### **Course Description**

##### **Course Objective**

This 2 day workshop provides practical hands-on experience for a range of essential molecular biology techniques used in contemporary life science laboratories.

##### **Course Outline**

- Hands-on laboratory sessions
- Nucleic Acid Extraction Methodology (includes first principles and troubleshooting)
- PCR (methodology and troubleshooting)
- Reverse transcription and Real Time PCR
- Electrophoresis (principles and methodology)

##### **For Whom**

- Science graduates looking for 'wet-lab' skills (ie. no experience)
- Lab staff not trained in molecular biology
- Lab staff seeking to update their skills
- Post-graduate students
- People looking for a change of career
- Industry Sales and Service Representatives

##### **Certificate of Participation**

- Awarded to participants who have achieved 75% attendance for the course.

#### **Outcomes**

- An introduction to widely used molecular biology techniques
- Practical experience in nucleic acid extraction, purification, quantitation, enzymes, PCR and electrophoresis
- How to interpret and troubleshoot methodology outcomes

#### **Course Leader – Dr Paula J Bray**

Dr Paula Bray holds a PhD in Molecular and Vascular Cell Biology from the Baker Medical Research Institute, Monash University. Following her PhD studies Dr Bray was appointed a Post-doctoral Research Fellow at Cornell University Medical College, New York. During this time she was awarded the prestigious Charles H. Revson Foundation Fellowship in Biomedical Research. Dr Bray returned to Australia as a Senior Research Officer at the Genomic Disorders Research Centre and was awarded a National Heart Foundation Fellowship. Dr Bray has many research publications and has presented her research findings to numerous scientific bodies, both national and international.

#### **Course information**

Course code:	BIO 01
Course fee (incl GST):	\$990.00 (2 days)
Maximum class size:	15 participants
Time:	9.00am – 4.00pm
Total course duration:	2 x 7 hours (inc. lunch)

#### **Venue:**

Building 8, Level 3, Room to be advised  
Box Hill Institute,  
465 Elgar Road, Box Hill