

The course will be a combination of hands-on experiments, lectures, on-line computer workshops and demonstrations.

Hands-on experiments

- PCR.
- Computer analysis of sequence data.
- Multiplex ready markers.
- SNPs analysis.
- Microsatellite analysis.
- QTL mapping.
- Comparative bioinformatics.
- HTP DNA Extraction.

Lectures/Workshops

- DNA structure and genetic markers.
- PCR.
- Implementation of molecular markers in plant breeding.
- Multiplex ready markers.
- SNPs.
- Microsatellites.
- DNA sequencing and database searching.
- Applications of mapping techniques to plants breeding and animal production.
- QTL mapping.
- Comparative geonomics.

Demonstrations

- Robotic workstation for PCR preparation.

Tour of the WA State Agricultural Biotechnology Centre

University Credit:

Four points of University credit towards a Postgraduate Certificate or Diploma in Applied Molecular Biology Techniques can be applied for after successful completion of the assessment.

There is an additional charge of \$200 (+ GST) for the accredited assessment, which is scheduled approximately three weeks after the workshop. Please contact Prof. Mike Jones, Program Chair of Postgraduate Studies, Biological Sciences and Biotechnology, Murdoch University on Ph: 9360 2424 for more information.

Sponsors:



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Molecular Mapping Techniques in Diagnostic Biotechnology

A five-day course with hands-on experiments in molecular mapping techniques, bioinformatics and applications to the latest research in plant breeding and diagnostics. This course can be taken for University credit

To be held:

12th - 16th February 2007

Organised on behalf of:



And supported by



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