

Postgraduate Certificate Course on Techniques and Applications in Molecular Microbiology

Offered by Board of Study in Plant Protection, Postgraduate Institute
of Agriculture,
University of Peradeniya
November - December, 2018

Course fee
Rs. 30,000

Five
course
modules

12 working
days (24
hours of
lectures and
60 hours of
practical

Competent
group of
resource
persons

Hands-on
laboratory
experience

Specially for
Academics, Researchers and
Graduates in
Biological Sciences

Awarding of
a certificate
upon
successful
completion

For
graduates
of
Biological
Sciences



Course will cover five modules which include theory and hands-on experience

- DNA and RNA extraction from culturable and unculturable microbes, analysis of quality, quantity and integrity of nucleic acids
- Standard PCR and different versions of PCR
 - Optimization of PCR conditions, gradient PCR, RT-PCR, qPCR, nested PCR
- Nucleic acid hybridization techniques
 - Probe preparation, Southern hybridization (Dot blots, Colony blots, Gel blots), Northern hybridization, Differential hybridization
- Applications of molecular methods in microbiology
 - Detection and identification of microbes, determination of genomic variations, metagenomic approaches, screening of recombinants,
- Handling and application of sequenced data
 - Designing of primers, DNA homology search, Phylogenetic analysis, depositing DNA in databases

⇒ Offered during weekends
⇒ Limited number of seats
available



Contact - Prof. Devika de Costa (Coordinator)

Mobile: 0714430542

Email: devikadecosta@gmail.com