



Vaidyaratnam P. S. Varier's  
**Arya Vaidya Sala, Kottakkal**  
Centre for Medicinal Plants Research  
Kottakkal, Malappuram, Kerala - 676503

**Kottakkal**  
ayurveda

# Hands on Training in Plant Tissue Culture & Molecular Biology techniques

Conducted by  
Crop Improvement &  
Biotechnology Division

April 20-24, 2026  
(5 days)



## Plant Tissue Culture (TC)

### Theory Sessions

- Introduction to plant tissue culture
- Types of tissue cultures & regeneration pathways
- Micropropagation and its commercialization
- Quality checking & certification of tissue-cultured plants

### Practical Sessions

(Medicinal species as model system)

- Familiarization with PTC lab facilities
- Preparation of stock solutions & media
- Culture initiation with different explants
- Subculture, multiplication, rooting & hardening
- Planting out & establishment (lab to land)

### Who Can Participate

- Graduates/Postgraduates (Ongoing/completed),
- Research Scholars (JRF/SRF etc), Technical assistant etc.
- Scientists & Faculty in Botany, Life Sciences, Biotechnology, and allied subjects

### Training Fee

- Rs. 2,950/- (₹ 2,500 + 18% GST) for TC
- Rs. 3,540/- (₹ 3,000 + 18% GST) for MB

### Registration Details

- Number of participants: 10 (TC), 6 (MB)
- Participants will be selected on a first-come, first-served basis, ensuring maximum diversity across institutions, regions, and disciplines

### Contact Us

- Email: [trainingcmpr@gmail.com](mailto:trainingcmpr@gmail.com)
- Phone: 0483-2806211  
(Mon-Sat; 9.00 am-5.00 pm)

## Molecular Biology (MB)

- DNA isolation & RNA isolation
- DNA/RNA quantification
- DNA barcoding for plant authentication
- Polymerase Chain Reaction (PCR)
- Agarose gel electrophoresis
- PCR product purification from agarose gel
- Bioinformatics for phylogenetic analysis
- DNA fingerprinting techniques: RAPD/ISSR

### Registration Link:

- <https://forms.gle/EjtpJ7TnmiFP9sQw7>



Last Date for Registration: 5<sup>th</sup> April 2026

### Terms and conditions

- All applicants will be informed of their selection status via email on or before April 10<sup>th</sup>, 2026.
- Payment instructions will be provided in your selection email.
- Fees once paid are non-refundable and non-transferable under any circumstances.
- Participants will need to make their own arrangements for food, travel and accommodation (*contact details of nearby facilities will be provided*).
- The participants are expected to be at the centre between 9.00 am-5.00 pm during all the 5 days of the training.
- Certificates will be issued upon successful completion of the training programme.

The Institute is located within 15 kms radius from the Tirur railway station and 27 kms away from the Calicut airport. The Institute is located on the NH66 and within the campus of Arya Vaidya Sala Out Patient (OP) Department, behind the AVS square (Changuvetty) Bus stop.



Location