

# Workshop on Basics of Tissue Culture

Date: February 7 -11, 2023

Venue: Aravind Medical Research Foundation (AMRF), Madurai

Aravind Eye Care System (AECS) is an umbrella organization comprising of components which include clinical care (Aravind Eye Hospitals), training (Lions Aravind Institute of Community Ophthalmology), research (Aravind Medical Research Foundation) and manufacturing (Aurolab). AECS aims to integrate all these diversified components to achieve its mission of eradicating needless blindness globally.

Aravind Medical Research Foundation encompasses the departments of Molecular Genetics, Microbiology, Immunology, Stem Cell Biology, Proteomics, Bioinformatics and Ocular Pharmacology. Since the basic requirement for translational research is validation using tissue culture, all laboratories at AMRF have a tissue culture facility. The cell/tissue culture models are being used to understand the disease pathogenesis, including ocular infections, sight threatening complications like cataract, glaucoma, retinal degenerative diseases as well as to evaluate the action and efficacy of novel drugs. It is also applied extensively in adult ocular stem cell research with a major thrust on identification, characterization, molecular regulation, changes with ageing and in diseased condition - limbal epithelial stem cells in relation to corneal surface disorders, trabecular meshwork stem cells in primary open angle glaucoma, lens epithelial stem cells in age-related cataract and retinal pigment epithelial stem cells in age-related macular degeneration.

## About the workshop

This workshop on the basics of tissue culture aims to train the participants with the techniques essential for culturing and maintaining cells. Therefore, the training provided by the workshop would help them to establish their own tissue culture facility. The lectures and hands-on training will be on:

- Basic Infrastructure, Sterility
- Media Preparation
- Cell culture - adherent, suspension
- Cell count and cell viability
- Cell line - revival, freezing
- Cell proliferation assay - MTT, wound healing assay
- Cytospin and Giemsa staining
- Mycoplasma testing

## Participants

M.Sc./M. Tech Life Science, Research Scholars and Junior Faculty from colleges/universities.

## How to apply

- Link for submitting the application: [Click Here](#)
- **Last date for receipt of filled in Application form- 21<sup>st</sup> January, 2023.**
- Shortlisted applicants will be informed by mail on or before 31<sup>st</sup> January 2023.

## Registration Information

Selected applicants alone have to pay the registration fees (payment details will be shared later)

**Registration Fee: Rs.1500/ +18% GST**

The registration fee includes workshop material and food (Lunch and tea/coffee only) for all the 5 days of the workshop.

## Accommodation

Accommodation can be arranged at our new hostel, Inspiration which is just 2 minute walk away from AMRF. It has got both single and double AC/non - AC rooms with the necessary facilities. Travel, food and other personal expenses have to be borne directly by the participants.

## Tariff

	*Twin Sharing Non AC	Single Non AC	* Twin Sharing AC	Single AC	Twin Sharing as single occupancy
Daily Tariff	392	560	784	1,120	1,232

*Above rates are inclusive of room rent, free internet and complimentary breakfast*

*\* Twin sharing rooms will be allotted based on the availability of the other sharing partner.*

**AMRF** Aravind Medical  
Research Foundation  
Dr. G. Venkataswamy Eye Research Institute

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