

HANDS-ON WORKSHOP: EXPLORING IN VITRO AND ALTERNATIVE ANIMAL MODELS

(January 27 - February 05, 2025)

Sponsored by
Doerenkamp Zbinden Foundation for Animal Free Research, Switzerland (DZFS)
Organized by

Mahatma Gandhi Doerenkamp Centre (MGDC)

for Alternatives to Use of Animals in Life Science Education

National Centre for Alternatives to Animal Experiments (NCAAE) &

Society for Alternatives to Animal Experiments- India (SAAE-I)

Dept. of Animal Science, Bharathidasan University, Tiruchirappalli-620 024, Tamil Nadu, India.

In vitro

Co-culture, Exposure of cells to toxicants/therapeutics, Transfection, miRNA Primer Designing, Time-lapse imaging, Fluorescent staining (Hoechst/DAPI), Mitochondria/Lysosomes localization assays, Colony formation assay, MTT assay, Comet assay, Flow cytometry.

Hydra

Hydra media preparation, Artemia harvesting, Acute toxicity testing & Morphological alteration, LC50 & Sublethal dose calculations, Feeding, Regeneration, Reproduction, Comet -assays & Fluorescent staining (AO).

Drosophila

Fly-rearing and handling techniques, Mutant analysis, Genetic crossing experiments, Transgenic techniques to generate human disorder models, Toxicity analysis, Chromosome analysis, Reproductive assays and Behavioural assays

Zebrafish

Toxicity exposure in both embryos & adults, Behavioral studies, Regeneration & pattern formation, Fish growth parameters, Embryo collection & Tetragenic activity.

EXPERTS



Dr. M. A. AKBARSHA
National College, Trichy
Doerenkamp Chair - MGDC
In vitro 3D culture & Hydra model



Dr. B. KADALMANI
Co-ordinator
NCAAE
In vitro 2D culture



Dr. S. ACHIRAMAN
Professor
Environmental Biotechnology
Zebrafish



Dr. H.P. GURUSHANKARA
Assistant Professor
Department of Zoology,
Central University of Kerala
Drosophila

Eligibility

M.Sc./M.D./M.V.Sc./Ph.D/ Research Scholars, Post-docs, Early Career Faculty and Industrial Persons.

Registration Fee

Participants from Industry (CRO) :	Rs. 12,000/-
Faculty :	Rs. 9,000/-
Research Scholars & PG Students :	Rs. 7,000/-



Registration Scan Me

Registration link: <https://forms.gle/5qi8BBGYHVB5wt1jZ>

Important Dates

- After the registration, the shortlisted candidates will be intimated via email on 15.01.2025.
- The shortlisted candidates should pay the registration fee and confirm the registration on or before 20.01.2025.
- Working Lunch will be provided.
- Accommodation will be arranged for outstation participants at an affordable cost.

Contact Details

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