

Drosophila and Zebrafish Model Organisms

SKILL DEVELOPMENT CENTER

Daulat Ram College “Skill Development Center in Drosophila and Zebrafish Model Organisms” was established in 2023 with the seed grant of RS. 10 lakhs received from Skill Enhancement Courses committee (SEC), University of Delhi.

Vision and Mission of the Centre

- Create skill trained pool of students who are future ready to embark on a career path in biomedical research labs, and Pharma and Biotechnology Industry.
- Skill trained in animal husbandry, breeding , handling and application of Drosophila, and zebrafish model systems as research models.
- Provide research Internship opportunities to students to gain research experience and upgrade skill sets in research methodologies and Data analysis and presentation.
- Develop commercially viable tool kits for Bio-materials and technology transfer.
- To develop and maintain stocks and mutant strains of animal model systems.
- Center would serve as a Central resource center providing technical support, bio-materials, and tool kits to other colleges and institutes to perform advance experiments in Cell Biology, Developmental Biology, neurobiology, genetics, toxicology, Molecular Biology, drug discovery etc.
- The Center for Skill Development would collaborate with advance research Institutes and labs such as, Institute of Genomics and Integrative Biology, AIIMS, JNU, ACBR etc. for collaborative work and sharing of advance research facilities.

Achievements

- Successfully running the Skill enhancement course (SEC) course under UGCF 2020 since 2023 in each semester.
- Skill trained more than 1000 students from DRC, SVC, DBC, SRCASW and NIET (Pharmacy College), Noida in Drosophila and Zebrafish model systems.
- Published **Practical Lab Manual** for the SEC course: Drosophila and Zebrafish Model Organism in Biological Studies, authored by Prof. Padmshree Mudgal, Dr. Neeru Dhamija, and Dr. Anita Goel (Department of Biochemistry, Daulat Ram College, University of Delhi) in 2024. This Practical lab Manual would serve as a resource material for the teaching faculty and provide ready hand out material for students to refer and record their practicals.
- The students and faculty associated with the Skill Development Center participated in Skill, Startup and Entrepreneurship Expo in DU, Oct. 4-6th Oct 2024. The Center was awarded **The Potential for Excellence Award**.

Faculty and staff Associated with Skill Development Center:

Prof. Padmshree Mudgal

Dr. Neeru Dhamija

Dr. Radhika Gupta

Dr. Anita Goel

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