



Laboratory of Animal Structure Development

The Laboratory of Animal structure development supports teaching and research on the anatomy, histology and animal development. Equipped with modern instruments, it provides facilities for developing technical competencies, applying scientific methods, and fostering innovations in animal structure development.



Lecturers



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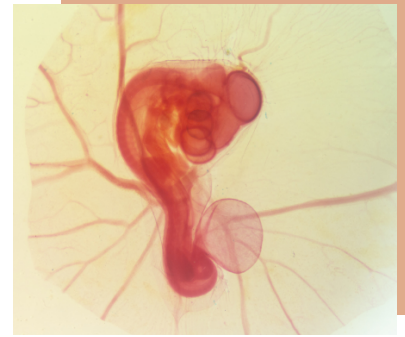
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Scope of Expertise

- ✓ Structure and Development of Aquatic Animals
- ✓ Animal Cell Biology and Histology
- ✓ Structure and Development of Terrestrial Animals
- ✓ Biology of Animal Behavior
- ✓ Morphology and Development of Marine Animals
- ✓ Evolutionary Development of Animals
- ✓ Animal Structural Adaptation



Research Topic

- ✓ Animal embriology, Histology and anatomy
- ✓ Biomedical Science
- ✓ Regeneration
- ✓ Animal Bioacoustic and camouflage
- ✓ Locomotion and Biomechanic
- ✓ Animal Adaptation
- ✓ Marine Aquaculture
- ✓ Nutrition by using animal models (i.e. fish, chicken, reptile, mouse, and rat)
- ✓ Human/Animal Cell Culture



Main Laboratory Equipment



Fluorescence microscope



Stereo microscope with Optilab



Microscope with camera



Oven for Paraffin



Microtome and waterbath



Hot plate



Laminar Air Flow

Photo : Personal Documentation



Public Service

- ✓ Training on Histological Specimen Preparation by Paraffin Method
- ✓ Training on Immunohistochemistry (IHC)
- ✓ Training on Fish Otolith Preparation
- ✓ Training on Whole-Mount Chicken Embryo and Skeletal Staining
- ✓ Training on Taxidermi
- ✓ Provision of counseling and outreach in animal developmental structure, aligned with the laboratory's research focuses.
- ✓ Preparation of histological specimens, including paraffin-embedded sections, whole-mount chick embryos, bone clearing and staining, and frog embryos.