Small Brain, Big Ideas PLUS: Biomedical Insights from Invertebrate.
Practical Activities

Titles of Laboratory practices:

2. Handling and husbandry.
3. Specialized database mining.
5. RNAi in C.elegans
6. Visualizing neural circuits in Drosophila and C. elegans nervous system using live transgenic animals labeled with GFP and by immunohistochemistry of specific markers.
7. Observation and quantification of basic behaviors in Drosophila (geotaxis, locomotion in larvae, olfactory test) and C. elegans (touch response and drug response): comparison between wild type and mutant strains.
8. Spontaneous and evoked currents in the Drosophila larval neuro-muscular junction. Extracellular recordings in the Drosophila eye (Electroretinograms). Recordings from wild type and mutants.
10. Axon degeneration assay using fly olfactory system (MacDonald et al, Neuron, 2006)
11. Mosaics. Clones generation and visualization in Drosophila