

Lecture Outline for “Experimental Approaches in Molecular and Cell Biology”

Topic:	Model organism: <i>C. elegans</i>
Lecture:	Dr. Yen-Ping Hsueh
Course Outline:	<ol style="list-style-type: none">I. History of <i>C. elegans</i>II. Genetics and Genomics of <i>C. elegans</i><ul style="list-style-type: none">• Basic concepts of genetics in <i>C. elegans</i>• Forward Genetic Screens• Identification of mutations through Whole Genome Sequencing• Reverse genetics• WormbaseIII. <i>C. elegans</i> as a model for research in diverse fields of biology<ul style="list-style-type: none">• Development• Neurobiology• Ecology and Evolution