



Full Syllabus



Course Title

Zebrafish as a Model in Biomedical Research

Lecturer

Yoav Gothilf and Francesco Argenton (a visiting professor)

Semester

B

Course requirements

Final grade components

30% participation, 70% assay/research proposal

Course schedule

Class no. / Date	Subject and Requirements (assignments, reading materials, tasks, etc.)
April 18	Lecture - Introduction
April 18-22	Laboratory – zebrafish development
May 2	Lecture - Zebrafish as a model for neurodegenerative disease
May 9	Lecture - Studying the circadian clock using zebrafish as a model
May 9-15	Laboratory – sleep and circadian clock analysis
May 16	Lecture - Transgenic zebrafish reporter lines for studying physiology and development
May 16-18	Laboratory – Use of CRISPR
May 21-24	Laboratory – Use of reporter zebrafish lines
May 23	Lecture – Quantitative imaging principles
May 28-31	Laboratory – analyzing zebrafish mutant lines
May 30	Lecture – Sleep research in zebrafish
June 6	Lecture – Development of the hypothalamic GnRH system
June 13	Lecture – Modeling Cancer in zebrafish
June 20	Lecture – The serotonergic system
June 27	Lecture – The zebrafish as an animal model to crack the neural code

Required course reading

Optional course reading

Comments



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This is the first time that this course is provided. The subject may change from year to year.