

CAMB 697: Biology of Stem Cells

Course Directors: Paul Gadue and Pantelis Rompolas

Syllabus 2022

Class meets Mondays at 3:30 PM in BRB 0801. Class alternates between lectures given by the instructors and journal club presentations by the students.

Date	Speaker	Day	Class Type	Topic
Sept 12	First class	MON		Organizational
Sept 19	Song	MON	Lecture	Neuronal Stem Cells
Sept 26	Song	MON	JC	Neuronal Stem Cells
Oct 3	Anguera	MON	Lecture	Epigenetics of Stem Cells
Oct 10	Anguera	MON	JC	Epigenetics of Stem Cells
Oct 17	Rompolas	MON	Lecture	Epithelial Stem Cells
Oct 24	Rompolas	MON	JC	Epithelial Stem Cells
Oct 31	Tong	MON	Lecture	Hematopoietic stem cells
Nov 7	Tong	MON	JC	Hematopoietic stem cells
Nov 14	Vaughan	MON	Lecture	Lung Progenitors and Regeneration
Nov 21	Vaughan	MON	JC	Lung Progenitors and Regeneration
Nov 28	Lengner	MON	Lecture	Organoids
Dec 5	Lengner	MON	JC	Organoids
Dec 12	Gadue	MON	Lecture	ES and iPS Cells
Dec 19	Gadue	MON	JC	ES and iPS Cells

Description: The goal of this course is to introduce graduate students to the field of stem cell biology through lectures and reviews of important contributions from the literature. Topics include embryonic stem cells, epigenetics and reprogramming, tissue specific stem cells such as hematopoietic, neuronal and epithelial stem cells, and organoids. The future potential and challenges in stem cell and regeneration biology will be discussed. Important aspects of stem cell identification and characterization utilizing multiple model systems will also be a focus. Offered Fall Semester. Limited to 14 students.