

CAMB 697: Biology of Stem Cells

Course Directors: Paul Gadue and Pantelis Rompolas

Syllabus 2021

Class meets Mondays at 3:30 PM in BRB 1412. Class alternates between lectures given by the instructors and journal club presentations by the students.

Date	Speaker	Day	Class Type	Topic
Sept 13	First class	MON		Organizational
Sept 20	Gadue	MON	Lecture	ES and iPS Cells
Sept 27	Gadue	MON	JC	ES and iPS Cells
Oct 4	Vaughan	MON	Lecture	Lung Progenitors and Regeneration
Oct 11	Vaughan	MON	JC	Lung Progenitors and Regeneration
Oct 18	Tong	MON	Lecture	HSCs
Oct 25	Tong	MON	JC	HSCs
Nov 1	Rompolas	MON	Lecture	Epithelial Stem Cells
Nov 8	Rompolas	MON	JC	Epithelial Stem Cells
Nov 15	Song	MON	Lecture	Neuronal stem cells
Nov 22	Song	MON	JC	Neuronal stem cells
Nov 29	Anguera	MON	Lecture	Epigenetics of Stem Cells
Dec 6	Anguera	MON	JC	Epigenetics of Stem Cells
Dec 13	Lengner	MON	Lecture	Organoids
Dec 20	Lengner	MON	JC	Organoids

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.