

CAMB 697: Biology of Stem Cells

Course Directors: Paul Gadue and Pantelis Rompolas

Syllabus 2019

Class meets Mondays at 3:30 PM in BRB 253. Class alternates between lectures given by the instructors and journal club presentations by the students.

Date	Speaker	Day	Class Type	Topic
Sept 9	First class	MON		Organizational
Sept 16	Anguera	MON	Lecture	Epigenetics of Stem Cells
Sept 23	Anguera	MON	JC	Epigenetics of Stem Cells
Sept 30	Gadue	MON	Lecture	ES and iPS Cells
Oct 7	Gadue	MON	JC	ES and iPS Cells
Oct 14	Dyment	MON	Lecture	Bioengineering
Oct 21	Dyment	MON	JC	Bioengineering
Oct 28	Vaughan	MON	Lecture	Lung Progenitors and Regeneration
Nov 4	Vaughan	MON	JC	Lung Progenitors and Regeneration
Nov 11	Tong	MON	Lecture	HSCs
Nov 18	Tong	MON	JC	HSCs
Nov 25	Lengner	MON	Lecture	Organoids
Dec 2	Lengner	MON	JC	Organoids
Dec 9	Rompolas	MON	Lecture	Epithelial Stem Cells
Dec 16	Rompolas	MON	JC	Epithelial Stem 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, and epithelial stem cells, tissue regeneration, and tissue engineering. 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.