

BME 178 Syllabus (tentative), Winter Quarter 2015

Tuesday/Thursday, 10-11.45 am, Baskin Engineering 372

Course instructor: Camilla Forsberg, Professor, Biomolecular Engineering

<u>Class #</u>	<u>Date</u>	<u>Lecture</u>
1	Jan 5	Intro: what are stem cells?
2	Jan 7	Hematopoietic stem cells I
3	Jan 12	Bone marrow transplantation for autoimmune disease
4	Jan 14	Hematopoietic stem cells II
5	Jan 19	Regenerative medicine: Hematopoietic transplantation therapies
6	Jan 21	Early development, embryonic stem cells, and transgenic technologies
7	Jan 26	<i>Midterm I</i>
8	Jan 28	Epigenetics
9	Feb 2	Stem cells to cure cancer
10	Feb 4	Reprogramming and iPS cells
11	Feb 9	Stem cells and cancer I
12	Feb 11	Stem cells and cancer II
13	Feb 16	Tissue-specific stem cells I
14	Feb 18	<i>Midterm II</i>
15	Feb 23	Tissue-specific stem cells II
16	Feb 25	Model organisms in stem cell research
17	Mar 1	Stem cells and DNA repair
18	Mar 3	<i>Student Debate</i>
19	Mar 8	Gene therapy
20	Mar 10	Aging and degenerative disease
-	Mar 14	<i>Final Exam, 12 noon-3 pm (Monday)</i>