

**Stem Cells Workshop (ANAT 7760)**

Spring 2019 (January 7 – April 24)/ Tue &amp; Thu/ 2:00 – 3:30pm

Lecture: 3420 HSEB

Lab: Stem Cell Core Facility (Wintrobe Bldg. 208)

Course components: Lectures, Discussions, and Labs

3 credit hours

Course directors: Alex Shcheglovitov, Ph.D. ([alexsh@neuro.utah.edu](mailto:alexsh@neuro.utah.edu)) and Colin Maguire, Ph.D. ([colin.maguire@utah.edu](mailto:colin.maguire@utah.edu))

Style	Date	Time	Speaker	Topic
	Tue 1-08-2019	2:00-3:30	Colin Maguire/ Alex Shcheglovitov	Introduction
Lecture 1	Thu 1-10-2019	2:00-3:30	Gary Schoenwolf	Specific Aims Page
Lecture 2	Tue 1-15-2019	2:00-3:30	Dean Tantin	Embryonic Stem Cells
Lecture 3	Thu 1-17-2019	2:00-3:30	Colin Maguire	Induced Pluripotent Stem Cells and reprogramming techniques
Lecture 4	Tue 1-22-2019	2:00-3:30	Brad Crains	Epigenetic mechanisms of reprogramming
Lecture 5	Thu 1-24-2019	2:00-3:30	Ben Spike	Cancer Stem Cells and stem cell transcriptomics
<a href="#">Discussion 1</a>	Tue 1-29-2019	2:00-3:30	<a href="#">Student presentation</a>	<a href="#">Embryonic and induced pluripotent stems cells</a>
Lecture 6	Thu 2-31-2019	2:00-3:30	Rich Dorsky	Neural Stem Cells
Lecture 7	Tue 2-5-2019	2:00-3:30	Alex Shcheglovitov	Modeling Neurodevelopmental Disorders using human stem cells
<a href="#">Discussion 2</a>	<a href="#">Thu 2-7-2019</a>	<a href="#">2:00-3:30</a>	<a href="#">Student presentation</a>	<a href="#">Stems cells for modeling brain disorders</a>
Lecture 8	Tue 2-12-2019	2:00-3:30	Joe Yost	Cardiac Development
Lecture 9	Thu 2-14-2019	2:00-3:30	Martin Tristani-Firouzi	Modeling Cardiac Disorders using human stem cells
Lecture 10	Tue 2-19-2019	2:00-3:30	Gabriele Kardon	Skeletal Muscle Development
Lecture 11	Tue 2-21-2019	2:00-3:30	Nick Johnson	Modeling Skeletal Muscle Disorders using human stem cells
<a href="#">Discussion 3</a>	<a href="#">Thu 2-26-2019</a>	<a href="#">2:00-3:30</a>	<a href="#">Student presentation</a>	<a href="#">Stems cells for modeling muscle disorders</a>
Lecture 12	Thu 2-28-2019	2:00-3:30	Matt Rondina	Role of Stem Cells in blood disorders
<b>Specific Aims Draft Due</b>	<b>Tue 3-5-2019</b>	<b>11:59pm</b>		
Lecture 13	Tue 3-5-2019	2:00-3:30	Daniel Couriel	Stem cells in bone marrow transplantation
Lecture 14	Thu 3-7-2019	2:00-3:30	Tara Deans	Bioengineering approaches in Stem Cell Research
Spring Break	Tue 3-12-2019	2:00-3:30		
Spring Break	Thu 3-14-2019	2:00-3:30		

Discussion 5	Tue	3-19-2019	2:00-3:00 3:00-3:30	Student presentation and Specific Aims Page discussion	Stems cells for modeling blood disorders
Lecture 15	Thu	3-21-2019	2:00-3:30	Tom Lane	Modeling Neurodegenerative Disorders
Lecture 16	Tue	3-26-2019	2:00-3:30	Teruo Okano	Tissue Engineering and Regenerative Therapies
Discussion 6	Thu	3-28-2019	2:00-3:30	Student presentation	Tissue engineering for regenerative medicine
Lab 2	Tue	4-2-2019	2:00-3:30	Colin Maguire	Lab work
Lab 3	Thu	4-4-2019	2:00-3:30	Colin Maguire	Lab work
Lab 4	Tue	4-9-2019	2:00-3:30	Colin Maguire	Lab work
Lab 5	Thu	4-11-2019	2:00-3:30	Colin Maguire	Lab work
Specific Aims page Due		4-23-2019	midnight		
Lab 6	Tue	4-23-2019	2:00-3:30	Colin Maguire	Lab work