

Nervous System Injury & Repair - Winter / Spring 2019 (NGG 618)

Barchi Tue/Thurs 9:30-11am

Week 1 (Jan 17)	Overview (Epidemiology, Injury Mechanisms, Clinical Presentation & Diagnosis, Models) – Cohen/Cullen
<i>Sabrina</i> Week 2 (Jan 22 & 24)	Brain Injury Excitatory-Inhibitory (E-I) Imbalance – Cohen
<i>Adam</i> Week 3 (Jan 29 & 31)	TBI Biomechanics (Sports Concussion, Military/Blast TBI) – Cullen
<i>Eirin</i> Week 4 (Feb 5 & 7)	Diffuse Axonal Injury (DAI) & Chronic Neurodegenerative Sequelae (CTE) – Victoria Johnson
<i>Ellen</i> Week 5 (Feb 12 & 14)	Excitotoxicity – Mike Robinson
<i>Sarah</i> Week 6 (Feb 19 & 21)	Spinal Cord Injury – George Smith
<i>Colin</i> Week 7 (Feb 26 & 28)	Blood Brain Barrier (BBB) Breakdown Kelly Jordan-Sciotto
Week 8 (Mar 5 & 7)	Peripheral Nerve injury – Steve Scherer Inflammation &
Week 9 (Mar 12 & 14)	Oxidative Stress/Free Radical biology – Harry Ischiropoulos
Week 10 (Mar 19 & 21)	Neurogenesis & Cell Death – Eisch
Week 11 (Mar 26 & 28)	Secondary Injuries & Prevention – M. Sean Grady
Week 12 (Apr 2 & 4)	TBI-Induced Sleep Disturbances – Danielle Sandsmark
Week 13 (Apr 9 & 11)	Treatment (Brain Cooling, Fish Oil, Exercise, BCAAs) – Cohen
Week 14 (Apr 16 & 18)	Deep Brain Stimulation/Electroconvulsive Therapy (DBS/ECT) – Isaac Chen
Week 15 (Apr 23 & 25)	Gene Therapy & Stem Cells – John Wolfe
Week 16 (Apr 30 & May 2)	Neural Tissue Engineering & Regenerative Medicine – Cullen