Topics in Neuroimmunology- CBNP5140Q

February 28 – April 18, 2022
Monday 5:00-6:50PM
Wednesday 4:00-5:50PM

Monday, February 28 - Introduction and Organization of the Course
Overview of the Immune System
Microglia, Neurons, Oligodendrocytes and Astrocytes

Wednesday, March 2 - History of Neuroimmunology
Immune Privilege

Monday, March 7 - Cytokines and chemokines in the CNS

Wednesday, March 9 - Immune Privilege
Student presentation and discussion

Monday, March 14 - Viral, bacterial and parasitic infections in the CNS

Wednesday, March 16 - Cytokines and chemokines in the CNS
Student presentation and discussion

Monday, March 21 - Immunopathogenesis of Multiple Sclerosis

Wednesday, March 23 - Viral, bacterial and parasitic infections in the CNS
Student presentation and discussion

Monday, March 28 - Immune response in neurodegenerative diseases

Wednesday, March 30 - Immunopathogenesis of multiple sclerosis
Student presentation and discussion

Monday, April 4 - Immune response in traumatic brain and spinal cord injury

Wednesday, April 6 - Immune response in neurodegenerative diseases
Student presentation and discussion

Monday, April 11 - Role of inflammation in epilepsy and autism

Wednesday, April 13 - Immune response in traumatic brain and spinal cord injury
Student presentation and discussion

Monday, April 18 - Role of inflammation in epilepsy and autism
Student presentation and discussion

- This course is half didactic and half based on student presentations.

- Course grade is based on the two presentations (60%), final 5-6 page paper (25%) and class participation (15%).

- Lecture Powerpoints will be posted on course website by noon of day of lecture.

- Class presentations (30 minutes) – journal articles will be selected by course director and provided a week before class presentation. Presentation (Powerpoint) should include rationale of study, background, methods used, results and discussion. Student should also comment on whether paper achieved its goal or were there any deficiencies or additional work that needed to be done.

- All students need to prepare two questions to ask during each presentation.