BIOL-GA 1011 Advanced Immunology: Neuroimmunology

Instructor: Carol Shoshkes Reiss

Course Description: Focuses on the mechanisms that govern the immune response and also trains students in reading and evaluating primary research articles that are published in peer-reviewed journals.

Pre-requisite: Immunology (BIOL-UA 50) or equivalent

Textbook and Required Materials: Review articles & peer-reviewed research articles provided weekly

Grading:
- Exams 65%
- Class presentation 30%
- Participation 5%

Topics:
- Inflammation, blood brain barrier
- Acute viral infections
- Amyotrophic lateral sclerosis
- Persistent & latent viral infections
- Bacterial & fungal diseases
- Antibody-mediated autoimmune diseases
- Gut-brain, autism, depression chronic fatigue
- Alzheimer’s disease
- Multiple sclerosis
- Neuro-oncology
- Stress, molecular basis of learning & memory