

Syllabus BIOL-GA 1011 Advanced Immunology: Neuroimmunology
Spring 2021 Via Zoom
Tuesdays 8-10:30 AM
Carol Shoshkes Reiss, PhD

This is a 4-credit lecture and seminar format course intended for advanced undergraduate Biology majors and graduate students who have had a basic course in molecular and cellular biology. *If you have not had a recent Immunology course, I strongly recommend you devote time to reading Janeway's Immunobiology, which is available in print (you may be able to acquire a used version, try to obtain the 9th Edition) or Kindle versions; there is a freely available version, but it is 20 years old, and this is inappropriate, as far too out of date.*

This syllabus may be subject to change. These are challenging and unprecedented times and we must be flexible to address changing needs. Many students will be participate remotely (whether continuously or discontinuously) rather than the standard of all in one physical classroom.

Reading assignments and slide sets: Readings will consist of review articles and peer reviewed research articles; these will be assigned weekly and posted on NYU Classes in the Resources folder. You are expected to read every paper, preferably before the class session. Slides for each session will also be posted before the lectures.

Assessment: Students are expected to participate in class discussions (5% of grade). Additional evaluations will be based on a **Midterm** (30% of grade; 3/16/21), **10-minute power point presentation** in class (either 4/27/21 or 5/4/21; 30% of grade) and a **Final exam** (35% of class grade; date 5/11/21). Some students will be taking exams and giving presentations at a time different from the regularly scheduled class in NYC; this accommodation will be negotiated individually. Any student who needs additional academic accommodations must be registered through the Moses Center, which assesses the individual's need and notifies the instructor.

NYU policy for absences due to illness is to a) notify the professor prior to class/exam and b) to provide a doctor's note indicating illness prevents attendance.

Office hours: Prof. Reiss is available for a Zoom conference by appointment, please email carol.reiss@nyu.edu and provide several days/times when you are available.

Student Presentation: The topic of the power point presentation must be submitted in writing and be approved by the Course Director by 3/16/21 and the slide set submitted by 3PM Eastern time on **Friday 4/23/21**. A guide to developing the talk is at the end of this syllabus. The Course Director will determine the order and date of presentations.

Synchronous and non-synchronous participation: Given the extraordinary circumstances of the Spring 2021 semester, many students may not be in NYC and may be participating from another time zone and/or country. We will try to

accommodate the needs of students for the examinations and the presentations.

Academic Integrity: Students are expected to know and understand the policies on academic integrity, including University, GSAS <<http://gsas.nyu.edu/content/nyuas/gsas/aboutgsas/policies-and-procedures/gsas-statement-on-academic-integrity.html>>, and CAS policies: <<https://www.nyu.edu/about/policies-guidelines-compliance/policies-andguidelines/academic-integrity-for-students-at-nyu.html> ; <https://cas.nyu.edu/content/nyuas/cas/academic-integrity.html>>.

If a student is caught cheating or plagiarizing, the Instructor may, at her or his discretion, give the student an academic sanction, which may include a warning and/or reduction of the grade on an assessment item (e.g. exam) or even the final course grade (in consultation with the Director of Undergraduate/Graduate Studies, who may meet with the faculty and the student to discuss the nature of the offense). Depending on the severity of the infraction, this could even mean failure of the student in the course. The student may appeal any grade reduction to the Director of Undergraduate/Graduate Studies. The departmental decision is final. In addition, any substantial case brought to the Director of Undergraduate/Graduate Studies must be referred to the Dean's office for possible disciplinary action.

If you have any questions or uncertainties about these policies, please consult the Instructor, Director of Undergraduate Studies, Director of Graduate Studies, or the Dean's office.

Date	Speaker	Affiliation	Topic
2/2/21	Carol Shoshkes Reiss (CSR)	NYU, Biology	Introduction- Immunology review, cells in the Central nervous system
2/9/21	CSR		Inflammation, Blood brain barrier
2/16/21	CSR		Acute viral infections
2/23/21	Esteban Mazzoni	NYU Biology & Neuroscience Institute	Amyotrophic lateral sclerosis
3/2/21	CSR		Persistent & Latent viral infections
3/9/21	David Zagzag	NYU Langone, Pathology	Neuro-oncology
3/16/21	Midterm exam 8-9am CSR Lecture 9-10:30		Antibody-mediated autoimmune diseases
3/23/21	Juan Lafaille	NYU Langone, Skirball Institute	Multiple sclerosis
3/30/21	Alison Goate	Icahn Mount Sinai Medical School Neurology	Alzheimer's disease
4/6/21	CSR		Gut-brain, autism, chronic

			fatigue
4/13/21	CSR		Bacterial and fungal infections
4/20/21	Cristina Alberini	NYU, Neural Sciences & Neuroscience Institute	Stress, Molecular basis of learning & memory
4/27/21	Student talks #1		
5/4/21	Student talks #2		
5/11/21	Final Exam 8-10am		Final Exam

Instructions for Student Power Point Presentations

1. Think of a topic, start doing some preliminary reading. The topics should not be too broad or too narrow in focus. It should be timely.
2. Choose a title, write a short paragraph, and support it with 3 recent (published after December, 2017) peer reviewed research (not review articles) citations. Provide these by email to Dr Reiss (carol.reiss@nyu.edu)
3. There usually is a dialog between students and Dr Reiss before topics are approved. Topics must be approved on or before Tuesday, March 16 at 3pm.
4. Develop a ten-minute Power Point presentation. Your presentation should be 10-12 slides, in general. Sources of all material (ideas and data) must be explicitly acknowledged.
5. *If you know you have a calendar conflict* on either April 27 or May 4, please inform Dr Reiss as soon as this is apparent, but before April 20, 2021.
6. This must be emailed to Dr Reiss on or before 3 pm on Friday April 23. There will be no revisions in the presentations after they are submitted.
7. A schedule will be circulated with the order of student talks on or before April 23.
8. Students will have the opportunity to:
 - a) ask a few questions of the presenter (if enrollment permits)
 - b) vote on the Student Choice Award for each date of presentations.
9. **Grading criteria** are the 10 minute time limit, effectiveness of slides, effectiveness of verbal presentation, and analysis of the topic.

10/26/20 revised