BIOL-GA 1032 Metabolic Disorders

Instructor:
Dr. Nataliya Galifianakis

Course overview
During the semester, we will discuss how normal physiological processes of the human body are disrupted by disease. We will cover the cellular and molecular basis of physiological disorders such as the triad of metabolic syndrome (obesity, hypertension, and diabetes) and discuss how diseases such as cancer affect and interact with physiological systems. Class time will be a combination of lecture and discussion.

Pre-requisite:
Molecular and Cellular Biology II (BIOL-UA 22)

Textbook:
There is no required textbook assigned for this course; links to review articles and research papers covering the topics of the lectures will be posted on NYU LMS.

Grading.
Midterm – 20%
Final – 20%
Assignments – 20%
Project – 20%
Discussion boards postings – 10%
Participation/Attendance – 10%

Topics:
Regulation of Metabolism
Immune System and Metabolism
Metabolic Syndrome: Obesity
Metabolic Syndrome: Diabetes
Metabolic Syndrome: Cardiovascular Diseases
Hallmarks of Cancer
Cancer Metabolism
Cancer Immunotherapy
The Role of Microbiome
Metabolic Disorders and Circadian Rhythms