

INTRODUCTION TO MOLECULAR MEDICINE UMDNJ-RUTGERS UNIVERSITY

COURSE TITLE: Introduction to Molecular medicine
COURSE NUMBER: GSBS = MICR-6003 and RU = 16:681:530
CREDIT HOURS: 3 hours
WHERE: Research Tower, 5th floor library
TIME: 3:00-4:30pm, Wednesday and Friday

DESCRIPTION: The emerging field of molecular medicine provides deeper understanding of diseases and offers opportunities for designing rational therapies. "Introduction to Molecular Medicine" is designed to introduce students to topics in human health and disease from a molecular biology perspective. Basic principles that promote an understanding of the human genome, gene regulation and expression, and genetic engineering will be applied to the diagnosis and treatment of human disease. Lectures will be followed by discussion of a published article of interest. Format will be two classes per week, with the lecture in one class followed by a discussion on prescribed papers in the next class.

COURSE DIRECTORS:	Debabrata Banerjee, Ph.D. The Cancer Institute of New Jersey Office: 3035 Phone: 732-235-6458 banerjed@umdnj.edu	Emine Abali, Ph.D. The Cancer Institute of New Jersey Office: 4558 Phone: 732-235-8670 abaliem@umdnj.edu
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TEXTBOOKS: no textbook required. The lecturers will provide you with their powerpoint presentations and 2 articles on the subject.

Speaker	Dates	Topic
	Wednesday-January 21	Introduction
Vikas Nanda	Friday January 23- Wednesday-January 21	Molecular modeling in Medicine
John Glod	Friday January 30 Wednesday-February 4	Brain
Victor Stollar	Friday February 6 Wednesday-February 11	Antiviral therapy
Hatem Sabaawy	Friday February 13 Wednesday-February 18	Zebrafish as a model in Human Diseases
Mecide Gharibo	Friday February 20 Wednesday-February 25	Blood
Phillip Mayer-Kuckuk	Friday February 27 Wednesday-March 4	Bone
Micheal Leibowitz	Friday March 6 Wednesday-March 11	The Search for a Vaccine Against Malaria
Kim Hirshfield	Friday March 27 Wednesday-April 1	Single Nucleotide Polymorphisms and Cancer
Joseph Bertino	Friday April 3 Wednesday-April 8	Stem cells
Celine Gelinas	Friday April 10 Wednesday-April 15	Intracellular signaling pathways in inflammation

Paul Copeland	Friday April 17 Wednesday-April 22	Trace elements
Sridar Ganesan	Friday April 24 Wednesday-April 29	Cancer
Curtis Krier	Friday May 1 Wednesday-May 6	

ASSESSMENT:

The students will be graded for their presentations and participation. There will be no exams. Each lecturer will provide us with two papers, and two students will present on Fridays the papers. While one student should prepare an introduction to the topics and a review of the techniques used in the papers, the other student should present the papers.

Either one of the course directors will be present in all lectures to determine the level of participation in the class.