

Faculty of Eng. & Natural Sci.

BIO634-202102

Molecular Medicine

Instructor(s)

Name	Email	Office	Phone	Web	Office Hours
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Course Content

A graduate level course that aims at analyzing molecular mechanisms of disease. Mechanisms leading to disease and observed molecular changes will be dissected in diseases such as cancer, Alzheimer's, Parkinson's and Huntington?s disease, infectious diseases and some inherited diseases. The lectures will involve discussion of recent advances in the light of current litterature. Genetic and environmental causes of cancer, cancer types, molecular changes causing cancer, metastasis, treatment of cancer, genetics and molecular mechanisms leading of Alzheimer's, Parkinson's and Huntington's disease, major causes of infectious diseases, viruses, bacteria and parasites, molecular mechanisms of AIDS, hepatitis and common bacterial infections, genetic basis of inherited disease, common genetic diseases and molecular mechanisms will be covered during the course.

Objectives

To be able to critically read research articles understand and present them.

Recommend or Required Reading

Readings

original research articles

Assessment Methods and Criteria

	Percentage(%)	Number of assessment methods
Midterm	45	1
Exam		0
Participation	10	
Presentation	45	1

Course Outline

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Learning Outcomes

Knowledge on molecular basis of diseases Critically reading articles

Course Policies

All students have to read assigned articles and discuss results in the classroom. Attendance required. Performance during the course is evaluated.