Course Goals: Molecular biology is an academic discipline to understand complicated biological phenomena at the molecular level. Through the progress of this molecular biology, we have created technologies such as gene therapy and gene recombination. In this lecture, we will learn the fundamentals and applications of molecular biology through the function of genes.

Course Format: In the first 14 weeks, the lectures will be given by the assigned professors or physicians with expertise in the lecture topic. In the final 2-3 weeks, students in groups will be asked to present a most-updated journal paper on the topics they have learned from lectures and panel discussion, and write the PBL-based assigned homework.

Course Materials: Listed reference books and lecture notes.

Grading Criteria: Punctuality and attendance (20%), a PBL-based oral presentation and Q/A participation (30%), group discussion (20%), and assignment (30%).