

Course title	Genetics		
Term	前期 1st Half		
Credit(s)	1		
The main day		The main period	
School/Program	School of Life Science		
Department/Program	Department of Genetics		
Category	Genetics		
Lecturers	Kuniaki Saito, Hitoshi Sawa and others		

Instructor
Full name
* SAITO KUNIAKI

Outline	Basic concepts, approaches and techniques in Genetics will be outlined and discussed. In addition, the lecture focuses on how the development of animals and plants, behaviors and human diseases are controlled by the genes.
Goal	1. To understand the historical background and the aim of Genetics 2. To understand the strategies and methods used in Genetics 3. To understand to what extent behaviors and diseases are defined by genes, and the interplay between the genes and other factors
Grading system	
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Grading system	01:Four-grade evaluation (A, B, C, D)
Grading policy	The grades will be A, B, C, and D, based on the student's understanding on the aspects presented in the above Course Objectives. The grades are mainly determined by the quality of the paper. The subject(s) of the paper must be one of the 3 aspects. The student's attitude at the classes is also considered to judge the level of his/her understanding. There is no criteria on the number of class the student must attend. If the student notifies the lecturer in charge (Dr. Saito, saitok@nig.ac.jp) when he/she cannot attend the class with the reason, it will be considered upon the judgement.
Lecture Plan	13:30-15:10 on Friday 1. 2022/05/13 Kuniaki Saito : Introduction (basic knowledge on genetics and epigenetics) 2. 2022/05/20 Hitoshi Sawa : Genetics of animal development 3. 2022/05/27 Yutaka Sato : Genetics of plant development 4. 2022/06/03 Hiroshi Mori : Genome bioinformatics and genetics 5. 2022/06/10 Shigehiro Kuraku : Comparative genomics approach in genetics 6. 2022/06/17 Noriyoshi Sakai : Reverse genetics 7. 2022/06/24 Tsuyoshi Koide : Behavioral genetics 8. 2022/07/01 Ituro Inoue : Human genetics
Location	3F seminar room of the library in National Institute of Genetics
Language	English
Textbooks and references	Genetics: From Genes to Genomes, 5th edition, Leland H. Hartwell, Michael L. Goldberg, Janice A. Fischer, Leroy Hood, Charles F. Aquadro