Fundamental Genetics

Syllabus Number

5C121 Basic Major Subjects

Elective Requisites

credit

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1. Course Description

The purpose of this course is to learn

- (1)DNA, chromosome, cell proliferation
- (2)Mendel's law

(3)population genetics This course relate to diplomatic policy 1 and 2.

2. Course Objectives

The aim of this course is to understand general mechanisms.

- (1)Mendel's law
- (2)Chromosome map
- (3) Hardy-Weinberg's law

3. Grading Policy

The learning results are evaluated based on: tests (80%) and reports (20%).

4. Textbook and Reference

Textbook

基礎遺伝学 ISBN 978-7853-5814-3 を ディン基礎生物学 ISBN 978-4-8079-077-0 遺伝学の基礎 ISBN 978-4-254-40549-1

Guidance and mini-test

5. Requirements (Assignments)

Final test

A mini-test at fitst lecture will check your learning progress. This result is not included in the grade.

6. Note

[1]

[15]

7. Schedule

[2]	DNA, gene, chromosome
[3]	mistosis and meiosis
[4]	genotype and phenotype
[5]	Mendel's law
[6]	non-mendel's law
[7]	linkage and crossing over
[8]	chromosome mapping (2 point cross)
[9]	chromosome mapping (3 point cross)
[10]	midterm test
[11]	explanatory nots of midterm test and genetic variant
[12]	dependence of chromosome and genetics
[13]	population genetics
[14]	Hardy-Weinberg's law