Life Science

2 units (selection)

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Target\(\rightarrow\) Understanding of significance of protein in biotechnology

Outline) Basics of structure, function and application of protein are introduced

Style> Lecture

Keyword protein, enzyme, biotechnology

Goal

- 1. Understanding of multiple functions of proteins
- 2. Understanding of principle of protein engineering and its application

Schedule>

- 1. Introduction of life science
- 2. History of life science
- 3. Structure and function of DNA and RNA
- 4. mRNA is a template of protein
- 5. Duplication of DNA
- **6.** Regulation of protein expression
- 7. Human Genetics
- **8.** Genetic disease
- 9. DNA diagnosis
- 10. Structure and function of protein
- 11. Principle of gene technology (1)
- **12.** Principle of gene technology (2)
- 13. Protein engineering
- **14.** Future of life science (1)
- **15.** Future of life science (2)
- **16.** Preparation of report

Evaluation Criteria> Evaluation by report

Textbook> To be introduced in the class

Reference) To be introduced in the class

Contents> http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=216740

Contact>

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Note) When you take this class, it is necessary to do preparation for 2h and review for 2h everry 2h class for your understanding and taking credit.