

科目名	Course Title
生化学2(Biochemistry II)	
学科・専攻	Department/Program
G30 Biology	
受講年次	Grade
2nd	
授業形態	Class style
必修・選択の別	Compulsory or Elective
講義	* See "Remarks"
時間割コード	Registration code
0682160	開講期・曜日・時限 Semester,Day & Period
単位数	Credit
2	科目区分 Course type
担当教員	Instructor
小嶋 誠司(KOJIMA Seiji)	
所属研究室	Laboratory
Group of Microbial motility	
連絡先	Contact
z47616a@cc.nagoya-u.ac.jp	
居室	Room
G411	

講義の目的とねらい	Course purpose
We will continue to learn the biochemical basis of living organisms.	
履修要件	Prerequisite
Biochemistry I	
履修取り下げの方法について	How to Apply for Course Withdrawal
<「履修取り下げ届」提出の要・不要 Necessity/Unnecessity to submit "Course Withdrawal Request Form"> Necessary <条件等 Conditions> Submit the Course Withdrawal Request form by the sixth lecture.	
成績評価	Grading
Evaluation will be based on in-class participation, assignments and examinations. Equal to or above 60% is required to pass	
不可 (F) と欠席 (W) の基準	Criteria for "Absent(W)" & "Fail" grades
Absent based on submission of Course Withdrawal Request Form. Fail based on "Failed" results of examinations and assignments.	
関連する科目	Related courses
Biochemistry I, III and IV	
教室	Class room

Check the Course Timetable.
A407 (Science building A, room 407)

到達目標 Goal

The first part covers the structures and functions of the essential macromolecules, sugar and lipids, in biological systems. The 2nd part covers biochemical principles of cellular physiology focusing on how the cells communicate with outside as well as within its own inside. The goal is to understand how the structure and properties of biochemical molecules work to perform necessary functions to sustain life.

授業内容 Content

1. Review of Biochemistry I
2. Saccharide chemistry
3. Lipids, Bilayer, and membranes
4. Passive and active transport
5. Mechanisms of enzyme action
6. Properties of enzymes
7. Hormones and signal transduction

教科書 Textbook

1. Principles of Biochemistry by Voet, D., Voet, J.G. and Pratt, C.W., Wiley and son 4th edition.
2. Biochemistry by Berg, Tymoczko, Stryer, 8th edition.
3. Lehninger Principles of Biochemistry by Nelson and Cox, 7th edition.

参考書 Recommended reading

Recommended reading will be suggested in the class.

連絡方法 Contact method

via email

その他 Remarks

- *See Course List and Graduation Requirements for your program for your enrollment year.
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