

Course number		U-LAS70 10001 SJ50				
Course title (and course title in English)	ILASセミナー：分子細胞生物学入門（英語講義） ILAS Seminar :Introduction to Molecular Cell Biology		Instructor's name, job title, and department of affiliation	Graduate School of Biostudies Professor,CHISAKA OSAMU		
Group	Seminars in Liberal Arts and Sciences		Number of credits	2	Number of weekly time blocks	1
Class style	seminar (Face-to-face course)	Year/semesters	2024・First semester		Quota (Freshman)	25 (15)
Target year	Mainly 1st year students	Eligible students	For all majors		Days and periods	Mon.5
Classroom	Seminar room 23, ILAS Bldg.				Language of instruction	English (Japanese commentary)
Keyword	分子細胞生物学 / 英語					
(Students of Faculty of Integrated Human Studies cannot take this course as liberal arts and general education course. Please register the course with your department.)						
[Overview and purpose of the course]						
<p>ミクロ系生物学（分子生物学・細胞生物学等）の英語での入門講義です。生物科学の発展の歴史や知識を英語で学ぶ事を目的としています。今年度は原著論文もしくは英語資料を読み・視聴しながら、現代の生命科学がどのように発展したか補助的な資料を提示しつつ解説します。質疑応答はできるだけ英語でもらいます。分かり難い場合は適宜日本語での説明も付け加えますので、生物学・英語どちらかの知識が少なくても心配ありません。</p> <p>This is a course taught in English. Key scientific papers in molecular, cellular, and developmental biology, with a view toward the future of medicine, or videos on modern topics will be presented to illustrate the progress of modern biology. Additional references and material will provide useful background information.</p>						
[Course objectives]						
<p>The course objective is to acquire knowledge of basic concepts in biochemistry, molecular biology, and cell biology, leading to an appreciation of several current areas of research with great potential.</p> <p>基礎的な生化学、分子生物学、細胞生物学の知識が得られる。日本人学生にとっては、教員からの基礎的な質問への返答を英語ですることにより、積極的な授業への参加姿勢が身に付く。</p>						
[Course schedule and contents]						
<p>以下の様な項目について、項目あたり2~3週の授業を行う予定である。</p> <p>Topics include:</p> <ol style="list-style-type: none"> 1. Techniques used in modern biology 2. History of molecular biology 3. Basic biochemistry 4. Developmental biology 						
<div style="text-align: right;">Continue to ILASセミナー：分子細胞生物学入門（英語講義）(2)</div>						

ILASセミナー：分子細胞生物学入門（英語講義）(2)

5. Bioengineering

6. Regenerative medicine

[Course requirements]

Decent ability of English conversation is the prerequisite.

High school level chemistry but not biology is required.

[Evaluation methods and policy]

Class participation (50%) and a report (50%).

[Textbooks]

Not used

Additional handouts will be provided.

[References, etc.]

（References, etc.）

Introduced during class

[Study outside of class (preparation and review)]

High school level chemistry reviewing is required.

[Other information (office hours, etc.)]

Anyone who is interested in learning modern molecular and cell biology is welcome to attend.