

Course number	U-LAS70 10002 SE50				
Course title (and course title in English)	ILAS Seminar-E2 :It's a Bug's Life - bacteria and viruses (微生物の世界へようこそ)	Instructor's name, job title, and department of affiliation	Graduate School of Medicine Associate Professor, KIM MINSOO		
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)	12 (12)
Target year	Mainly 1st year students	Eligible students	For all majors	Days and periods	Fri.5
Classroom	3C, Yoshida-South Campus Academic Center Bldg. North Wing			Language of instruction	English
Keyword	Virus / Bacteria / Infection / Immunity / Vaccine				
[Overview and purpose of the course]					
<p>The human body has over 10 trillion cells, but it has 10 times that number of microbial cells living in and on our body. These microbes are therefore an important part of our body. Some commensal bacteria are beneficial to our health whereas new viruses and bacteria that continue to emerge and reemerge may result in unpredictable life-threatening epidemics. To overcome such infectious diseases, we need a better understanding of the molecular mechanisms of host-microbe interactions so as to develop new concepts for antibiotics or vaccines.</p> <p>This course focuses on the basics of microbiology, immunology, and environmental microbes. Particular emphasis is placed on understanding viruses, bacteria, the interaction between microorganisms and host cells, and the identification of microorganisms in our environment. During the course, students will actively participate in discussions and in the exchange of ideas.</p>					
[Course objectives]					
<p>To identify and understand the major microbes that impact our lives. To understand the infection phenomenon. To enhance your critical thinking skills and effectively discuss scientific topics.</p>					
[Course schedule and contents]					
<ol style="list-style-type: none"> 1. Introducing the invisible world 2. What is a microbe? 3. The basics of bacteria 4. Microbiota and human health 5. Soil bacteria and the environment 6. Identification of bacteria (field work 1) 7. Identification of bacteria (field work 2) 8. Diversity of viruses 9. Viruses and Cancer 10. Zoonotic viruses 11. Viruses in our environment 12. Recognition of microbes 					
<hr style="border-top: 1px dashed black;"/> <small>Continue to ILAS Seminar-E2 :It's a Bug's Life - bacteria and viruses (微生物の世界へようこそ) (2)</small>					

ILAS Seminar-E2 :It's a Bug's Life - bacteria and viruses (微生物の世界へようこそ)(2)

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13. Battle against microbes
 14. Life with or without microbes
 15. Student presentation
 16. Feedback

[Course requirements]

None

[Evaluation methods and policy]

Evaluation will be based on class attendance and participation (60%), and final presentation (40%).

[Textbooks]

Instructed during class

[References, etc.]

(**References, etc.**)

Introduced during class

[Study outside of class (preparation and review)]

To achieve the course goals students review the course handouts.

[Other information (office hours, etc.)]

Please feel free to come to my office at any time.

Please take out the accident insurance of Personal Accident Insurance for Students Pursuing Ed. & Rsch. as needed.