

Category (科目区分)	Cluster of Biofunctional Systems		
Course Title (授業科目名)	Cellular biology		
Instructors (担当者名)	Takashi Ebihara	Academic Year (配当年次)	1,2
Required Course / Elective Course (必修/選択)	Elective Course	Credits (単位数)	1
Class Format (授業形態)	Lecture and practice		
Schedule (開講期間)	TBD		
Class Date/Period (開講曜日・時間)	TBD		
Course Outline/ Course Objectives (授業の概要・到達目標)			
Aims: To learn how innate lymphoid cells regulate innate immune responses in infections and diseases.			
Course Outline: Students are expected to take lectures and present recent data published in high-ranked journal.			
Course Planning (授業計画)			
	Course Outline/ Course Objectives (授業の概要及び到達目標) (Contents of Class) (授業内容)	Instructor (担当教員名)	Department (講座名) Class Room [実施場所]
1	Review talk of Innate lymphoid cells (ILCs)	Prof. Takashi Ebihara	Dpt. Microbiology and Ommunology [Seminar room/Zoom]
2	NK cell biology	Prof. Takashi Ebihara	
3	NK cell and ILC1s	Prof. Takashi Ebihara	
4	ILC2 and allergy	Prof. Takashi Ebihara	
5	ILC3	Prof. Takashi Ebihara	
6	ILCs and transcription factors	Prof. Takashi Ebihara	
7	Recent advances in ILC researches	Prof. Takashi Ebihara	
8	Skills to improve your English presentation	Prof. Takashi Ebihara	
9	Presenting scientific data regarding ILCs in Japanese	Prof. Takashi Ebihara	
10	Presenting scientific data regarding ILCs in English	Prof. Takashi Ebihara	
Grading Criteria (成績評価の基準と方法)			
Grades will be given based on attendance, attitude to this course, reports, and quality of presentation			
Contact Information (問い合わせ先(氏名, メールアドレス等))			
Name: Takashi Ebihara / E-mail: tebihara@med.akita-u.ac.jp			
Comment (その他特記事項)			
The lecture dates will be scheduled after taking this course to encourage attendance of adult graduate students. Textbooks and reference papers will be suggested, if needed.			