Category (科目区分)	Specialized subjects / Basic Medeicall System		
Course Title (授業科目名)	Special seminars on cell 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)	2
Class Format (授業形態)	Lecture		•
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 leran novel knowledge of receptor signalings leading to transcriptional regulation.

Course Outline: We will discuss various cell receptors, their signalings, and transcriptional regulation that contribute to disease pathogensis.

Course Planning (授業計画)

	Course Outline/ Course Objectives(授業の概要及び到達目標)	Instructor	Department (講座名)	
	(Contents of Class) ((授業内容))	(担当教員名)	Class Room〔実施場所〕	
1	G-protein-coupled receptor signaling	Dr. Shunsuke Takasuga		
2	Enzyme-linked receptor signaling	Dr. Shunsuke Takasuga	Dpt. Medical Biology	
3	Lipd metabolism and diseases	Dr. Shunsuke Takasuga		
4	Cytokines and their receptors	Prof. Takashi Ebihara		
5	Cytokine signaling	e signaling Prof. Takashi Ebihara (Webclass		
6	Biologics for human diseases	Prof. Takashi Ebihara		
7	Inflammatory cytokines and diseases	Prof. Takashi Ebihara		
8	Transcription factors in immune cells	Prof. Takashi Ebihara		
9	Regulation mechanism of oncogene expression	Prof. Masamitsu Tanaka		
10	Tumor tyrosine phosphorylation signaling	Prof. Masamitsu Tanaka		
11	Transcription factors involved in cell division and proliferation	vision and proliferation Prof. Masamitsu Tanaka Dept. of Molecular		
12	Modulation of cytokine production in the tumor microenvironment	Prof. Masamitsu Tanaka	Medicine and Biochemistry [Seminar room/Zoom]	
13	Signal transduction involved in tumor metastasis Prof. Masamitsu			
14	Cancer infiltration promoter molecules	Prof. Masamitsu Tanaka		
15	Hormone-producing tumor signals	Prof. Masamitsu Tanaka	(a	

Grading Criteria (成績評価の基準と方法)

Grades will be given based on attendance, attitude to this course, and reports

Contact Information (問い合わせ先(氏名,メールアドレス等))

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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 when needed.