

Category (科目区分)	Cluster of Inflammation and immune system		
Course Title (授業科目名)	Inflammolgy II / Clinical training		
Instructors (担当者名)	Kota Saito	Academic Year (配当年次)	1
Required Course / Elective Course (必修/選択)	Elective Course	Credits (単位数)	1
Class Format (授業形態)	Research training		
Schedule (開講期間)	Students will be notified by email after completing the course registration.		
Class Date/Period (開講曜日・時間)	Students will be notified by email after completing the course registration.		
Course Outline/ Course Objectives (授業の概要・到達目標)			
<p>The purpose of the class is to understand fibrosis diseases induced by inflammation from a cell biological perspective.Objectives: To understand fibrosis diseases from the viewpoint of cell biology, and to quantify the expression of fibrosis markers.Outline of the course:</p> <p>1. To understand the cell biological aspects of fibrosis diseases.</p> <p>2.To understand the basics of intracellular membrane transport pathways.</p> <p>3. To understand the current status of research on intracellular membrane transport pathways.</p> <p>4. To understand the intracellular trafficking pathways in fibrosis diseases.</p> <p>5. To understand the issues of fibrosis diseases from the viewpoint of cell biology.</p> <p>6. To understand the current status of research on the suppression of liver fibrosis by nucleic acid drugs.</p> <p>7. To understand the current status of research on suppression of hepatic fibrosis by nucleic acid drugs.</p> <p>8. Preparation of cell extracts from hepatic stellate cell cultures.</p> <p>9. Quantify the expression of fibrosis markers in hepatic stellate cell cultures.</p> <p>10.summarize the cell biology in fibrotic diseases.”□</p>			
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	To understand the cell biological aspects of fibrosis diseases.	Kota Saito	Department of Biological Informatics and Experimental Therapeutics, [ laboratory ]
2	To understand the basics of intracellular membrane transport pathways.	Kota Saito	
3	To understand the current status of research on intracellular membrane transport pathways.	Miharu Maeda	
4	To understand the intracellular trafficking pathways in fibrosis diseases.	Kota Saito	
5	To understand the issues of fibrosis diseases from the viewpoint of cell biology.	Miharu Maeda	
6	To understand the current status of research on the suppression of liver fibrosis by nucleic acid drugs.	Kota Saito	
7	To practice siRNA-mediated gene knockdown in hepatic stellate cells	Miharu Maeda	
8	Preparation of cell extracts from hepatic stellate cell cultures.	Miharu Maeda	
9	Quantify the expression of fibrosis markers in hepatic stellate cell cultures.	Kota Saito	
10	summarize the cell biology in fibrotic diseases.	Kota Saito	

**Grading Criteria** (成績評価の基準と方法)

The evaluation will be based on the attendance and the submitted reports.

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

Name: Kota Saito / E-mail: ksaito@med.akita-u.ac.jp

**Coment** (その他特記事項)

Information about the course: If you are a working graduate student and cannot attend the practical training due to work, we will adjust the schedule.

Textbooks and reference materials: Materials will be distributed as necessary.

Content of study during self-study time: It is desirable to conduct preparatory study according to the objectives and class content.