| Category (科目区分) | Cluster of Pathology and Pathology System | | |
|---|--|-------------------------|---|
| Course Title (授業科目名) | Cytopathology / Practice | | |
| Instructors (担当者名) | Masamitsu Tanaka | 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) | experimental practice | | |
| 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)

Purpose of class: The purpose of the lesson is to understand the mechanism of morphological change in individual cells.

Achievement goal of the lesson: The goal is to understand and explain the items that are highly related to the characteristics of cell morphological changes associated with tumors.

Class outline

- 1,2. To understand the mechanism and morphology of cell death due to apoptosis.
- 3,4. To understand the mechanism and morphology of cell death due to necrosis.
- 5,6. To understand the mechanism and morphology of cell death due to pyroptosis.
- 7,8. To understand the mechanism and cell morphology of epithelial-mesenchymal transition (EMT).
- 9,10. To understand changes in cell morphology by EMT-like mechanisms.
- 11,12. To understand the molecular changes and cell morphology associated with cell aging.

Course Planning (授業計画)

| | O Western Co. | | | | |
|---|--|------------------------------------|---|--|--|
| | Course Outline/ Course Objectives(授業の概要及び到達目標) (Contents of Class) ((授業内容)) | <mark>Instructor</mark> (担当教員名) | Department (講座名) Class Room [実施場所] | | |
| 1 | Cell morphology of apoptosis | | | | |
| 2 | Cell morphology of necrosis | Professor Masamitsu Tanaka | Department of Molecular Biochemistry [Seminar Room] | | |
| 3 | Cell morphology of pyrotosis | | | | |
| 4 | Cellular morphology of epithelial-mesenchymal transition | | | | |
| 5 | EMT-like cell morphology | | | | |
| 6 | Morphological changes associated with cell senescence | | | | |

Grading Criteria (成績評価の基準と方法)

30 hours of experimental training in the seminar room + 15 hours of self-study, 45 hours in total is counted as 1 credit, attendance status, the results of the oral and written examinations and the contents of the submitted report will be taken into consideration to evalue.

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

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Coment (その他特記事項)

Information about the course: If you cannot attend the training due to work, we will adjust the schedule. Textbooks / References: Distribute materials as needed. Alternatively, specify the document. Self-study content during self-study time: It is desirable to carry out preparatory learning according to the goals to be achieved and the content of the lesson.