| <mark>Category</mark> (科目区分) | Cluster of Inflammation and immune system | | |
|---|--|--------------------------------------|--|
| <mark>Course Title</mark> (授業科目名) | Cancer immunology / practice | | |
| <mark>Instructors</mark> (担当者名) | Masamitsu Tanaka | <mark>Academic Year</mark> (配当年次) | 1 |
| Required Course / Elective Course (必修/選択) | Elective Course | <mark>Credits</mark> (単位数) | 1 |
| <mark>Class Format</mark> (授業形態) | Lecture | | |
| <mark>Schedule</mark> (開講期間) | Students will be notified by email after completing the course registration. | | |
| <mark>Class Date∕Period</mark> (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: Learn about the immune response of living organisms against tumors and the mechanism | | | |
| of immunosuppression by tumors. | | | |
| Achievement goal of class: To learn the basics related to tumor immunity and recent topics. To understand | | | |
| how macrophages and neutrophils are involved in tumor development. | | | |
| Class outline: | | | |
| 1. To understand the polarity of macrophages and the formation of tumor associated macrophages. | | | |
| 2. To understand the effects of tumor-associated macrophages on tumor immunity. | | | |
| 3. To understand the biological characteristics of tumor-related neutrophils. | | | |
| To gain basic knowledge of immune checkpoints in tumors. To understand immunotherapy for lung cancer. | | | |
| 6. To gain knowledge about how to use immune checkpoint inhibitors. | | | |
| | | | |
| 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 | | | |
| | nts of Class)((授業内容)) | <mark>Instructor</mark> (担当教員名) | Department (講座名) Class Room〔実施場所〕 |
| | of Tumor Macrophages (I) | | Department of Molecular |
| | of Tumor Macrophages (II) | | |
| | of tumor-related neutrophils Masamitsu Tanaka | | Biochemistry [laboratory] |
| 4 Basics of immu | | | |
| | y for lung cancer (I) | | Department of Thoracic Surgery [Conference room] |
| | y for lung cancer (II) | Yoshihiro Minamiya | |
| 7 Types and Uses | s of Immune Checkpoint Drugs | Kazuhiro Imai | |
| 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. | | | |
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| Name: Masamitsu Tanaka / E-mail: mastanak@med.akita-u.ac.jp | | | |

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.