

Category (科目区分)	Cluster of Social Medicine System		
Course Title (授業科目名)	Biology and Social Medicine of Cancer		
Instructors (担当者名)	Yasufumi Omori	Academic Year (配当年次)	1,2,3,4
Required Course / Elective Course (必修/選択)	Elective Course	Credits (単位数)	1
Class Format (授業形態)	WebClass (on demande)		
Schedule (開講期間)	From last half of April 2026 till the 31st Dec. 2026		
Class Date/Period (開講曜日・時間)	—		
Course Outline/ Course Objectives (授業の概要・到達目標)			
<p>Aims: To understand the disease concept of cancer, especially molecular and cellular biological property, methods for molecular and cellular biological analyses, and sociomedical issues including cancer epidemiology, cancer registration, ethics on cancer medical services, anti-cancer drugs, and clinical trial of therapies.</p> <p>Objectives: To acquire the ability to explain the disease concept of cancer, especially molecular and cellular biological property, methods for molecular and cellular biological analyses, and sociomedical issues including cancer epidemiology, cancer registration, ethics on medical care of cancer, anti-cancer drugs, and clinical trials of therapies.</p> <p>Outline:</p> <ol style="list-style-type: none"> 1. Disease concept of cancer. Molecular and cellular biological property of cancer. 2. Gene expression patterns in cancer. Signal transduction and mechanisms controlling proliferation and differentiation. 3. Cancer statistics. Cancer prevention. Medical checkup on cancer. 4. Clinical trials of anti-cancer drugs. Assessment of effectiveness and safety. Scientificity of clinical research. 5. Cancer registration – its procedure and importance. 6. Ethics and its practice in medical care of cancer. 			
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	Cell biology of cancer I	Professor Yasufumi Omori	Department of Molecular and Tumor Pathology [WebClass]
2	Cell biology of cancer II		
3	Molecular pathology of hepatobiliary tumors		
4	Cancer progression and metastasis		
5	Ethics on medical care of cancer		
6	Cancer registration – its procedure and importance		
Grading Criteria (成績評価の基準と方法)			
The grades are determined by the quality of reports.			
Contact Information (問い合わせ先(氏名, メールアドレス等))			
Name: Yasufumi Omori / E-mail: yasu@med.akita-u.ac.jp			
Comment (その他特記事項)			
Remarks: All the lectures are diffused through WebClass, to which the registered students have access. Subjects for self-learning: Students are expected to prepare for each session according to the course outline and objectives.			