(科	ategory 4目区分)				
	<mark>urse Title</mark> 業科目名)	Basic Oncology and Practice			
<mark>Ins</mark> (担	<mark>structors</mark> 旦当者名)	Yasufumi Omori	Academic Year (配当年次)	1,2	
Elect	red Course / tive Course \修/選択)	Elective Course	<mark>Credits</mark> (単位数)	1	
Clas	ss Format 受業形態)	Experimental practice			
(開	<mark>ichedule</mark> 引講期間)	Informed individually by E-mail after registration			
	Date / Period i曜日 • 時間)	Informed individually by E-mail after registration			
Course Outline/ Course Objectives (授業の概要・到達目標)					
Aim: To kearn oncogenesis and roles of interaction between normal cells and cancer cells in cancer progression.					
Objectives: To acquire the ability to explain pncogenesis and roles of cell-cell interaction in cancer					
progression.					
Outline:					
1.Cell biological characteristics of cancer cells, their molecular basis, genes and cancer, aging and cancer, carcinogenesis, and cancer stem cells					
2. Molecular pathological view on development of hepatocellular carcinoma and cholangiocarcinoma of the					
gallbladder and bile duct					
3. Involvement of cell-cell adhesion molecules such as gap junction in cancer cell functions including					
morphological alteration and migration – updated aspect					
4. Cancer-associated stromal cells including fibroblasts and macrophages - Effect of interaction with cancer					
cells					
Course Planning (授業計画)					
		/ Course Objectives (授業の概要及び到達目標)		Department (講座名)	
1 0		ents of Class) ((授業内容)) <sup>(担当教員名)</sup> Class Room〔実施場所〕			
	ell biology of c		-	Department of Molecular Pathology and Tumor	
	Cell biology of cancer 2 Cell biology of cancer 3		Professor Yausufmi Omori	Pathology [Reserch Building for Basic Medicine]	
4 Mo	olecular patho	logy of hepatobliary tumors		_	
5 Int	teraction betw	veen cancer and its stromal cells	Professor Masamitsu Tanaka	Department of Molecular Biochemistry [Reserch Building for Basic Medicine]	
6 Ce	ell adhesion m	olecules and cancer 1		Department of Molecular Pathology and Tumor Pathology [Reserch Building for Basic Medicine]	
7 Ce	ell adhesion m	olecules and cancer 2	Professor Yausufmi Omori		
8 Fa		ng cancer stem cells			
Grading Criteria (成績評価の基準と方法)					
A credit is given for 30 hours of practice and 15 hours of self-learning. The grades are determined by the frequency of presence at sessions, oral examination, and the quality of reports.					
Contact Information (問い合わせ先(氏名, メールアドレス等))					
Contac	Name: Yasufumi Omori / E-mail: yasu@med.akita-u.ac.jp				
	Yasufumi Om	ori / E-mail: yasu@med.akita-u.ac.jp			
Name :	Yasufumi Om t (その他特詞				
Name : Coment	t (その他特i		I to be present at c	our scheduled session.	
Name : <u>Coment</u> Remark We will	<u>t (その他特</u> <s: stu<br="" working="">thus be pleas</s:>	記事項) udents, due to their duties, may not be allowed ed to arrange a schedule flexibly in their favor.			
Name : Coment Remark We will Textboo	t (その他特詞 <s: stu<br="" working="">thus be pleas oks and refere</s:>	記事項) udents, due to their duties, may not be allowed ed to arrange a schedule flexibly in their favor. ence literatures: When necessary, our handouts			
Name : Coment Remark We will Textboo literatu	t (その他特書 <s: stu<br="" working="">thus be pleas oks and refere res will be sug</s:>	記事項) udents, due to their duties, may not be allowed ed to arrange a schedule flexibly in their favor. ence literatures: When necessary, our handouts	s will be provided. H	lelpful reference	

Subjects for self-learning: Students are expected to prepare for each session according to the course outline and objectives.