

Course Coding(科目ナンバー)	Year/Semester/Term(年度・学期)	Faculty Offering Course(時間割所属・時間割コード)	Eligible Student Year(開講年次)	Credits(単位数)	Weekday and Period(曜日・時限)
RDM7-013-83-2	2026whole year	Graduate School of Medical Sciences (20140)	1, 2, 3, 4	2	others
Course Title(Theme)(科目名(講義題目))			Instructor(s)(担当教員)		
Advances in Oncologic Medicine(C5)			SUZUKI Makoto, ARAKI Norie, NAKAYAMA Hideki, YOSHIDA Ryoji, HIROSUE Akiyuki, IWATSUKI Masaaki, Ikeda Kouei, Miyamoto Yuuji, IDA Satoshi, HAYASHI Hiromitsu, OKABE Hirohisa,		
Goals with their ratio(学修成果とその割合)					
1.Advanced expert knowledge, skill and research capability ……45% 2.Profound inter-disciplinary knowledge ……35% 3.Global perspective and ability to take initiative action ……10% 4.Social leadership drive ……10%					
Type of Class(授業の形態)	Lecture				
Teaching Method(授業の方法)	PowerPoint will be used in the lectures, and active participation in the discussion is encouraged. Extra classes or video lectures are considered for those who are regularly absent for unavoidable reasons.				
Course Goals(授業の目的)	To understand advances in oncologic medicine, this course serves evidences and recent findings of medical oncology as follows:				
Course Learning goals(学修目標)	【A level (A水準)】 To understand advances in oncologic medicine, this course serves evidences and recent findings of medical oncology as follows: (1) Overview of tumor biology and genetics; (2) Recent advances in gastroenterological surgery; (3) Recent advances in oral and maxillofacial surgery; (4) Recent advances in thoracic surgery 【C level (C水準)】				
Course Outline(授業の概要)	This course overviews landmark findings in mechanism of tumor genesis and recent developments, and serves some of leading-edge research and our data. We focus on following topics: molecular mechanisms of tumor-related genes, cell cycle, cell death, cell differentiation; therapeutic agents based on tumor biology; molecular diagnostic tools, genome, transcriptome and proteomics; cancer stem cell. Many people suffer from gastroenterological cancers (esophageal, gastric, colon, pancreas, liver, biliary tract and gastrointestinal stromal tumor). We explain not only standard treatment for gastroenterological cancer but also cutting-edge treatment for refractory or metastatic, or recurrent gastroenterological cancer.				
Details for Individual Classes(各回の授業内容)					
No.(回数)	Date(月日)	Class Theme(授業テーマ)	Brief Outline of Class(内容概略)		
1		Araki Norie [eEJ-L]	Tumor Genetics and biology (introduction)		
2		Araki Norie [eEJ-L]	Tumor Genetics and biology 1		
3		Araki Norie [eEJ-L]	Tumor Genetics and biology 2		
4		Iwatsuki Masaaki [eEJ-0]	Gastroenterological surgery (introduction)		
5		Okabe Hirohisa [eE-0]	Gastroenterological surgery 1		
6		Hayashi Hiromitsu [eE-0]	Gastroenterological surgery 2		
7		Ida Satoshi [eE-0]	Gastroenterological surgery 3		
8		Iwatsuki Masaaki [eE-0]	Gastroenterological surgery 4		
9		Miyamoto Yushi [eE-0]	Gastroenterological surgery 5		
10		Nakayama Hideki [eEJ-0]	The role of immunotherapy in multimodal treatment of oral cancer and treatment strategies using immune checkpoint inhibitors.		
11		Yoshida Ryoji [eEJ-0]	Advancements in oral cancer treatment and research: progressing toward a truly multidisciplinary approach.		
12		Hirosue Akiyuki [eEJ-0]	Tumor microenvironment and cellular regulation via epigenomic alterations in oral cancer.		
13		Suzuki Makoto [eE-0]	General discussion of Thoracic Surgery		
14		Suzuki Makoto [eEJ-0]	Specific discussion of Thoracic Surgery, Lung Cancer -----		
15		Ikeda Koei [eE-0]	Medistinal tumor -----		
Estimated out-of-class study time					
Required Textbook(テキスト)		Textbooks are not specified.			
Reading List(参考文献)		“Natural obsessions:The search for the oncogene” by Angier. N, Houghton Mifflin Co, 1988. “Cancer: principles & practice of oncology, 7th ed” by DeVita VT, Lippincott Williams & Wilkins.2004 “The biology of cancer” by Weinberg RA Garland Science, 2007. “Clinical Oncology.” by Abeloff MD, Churchill Livingstone, . “ACS surgery: principles and practice” by Wilmore DW, WebMD. “Thoracic Surgery, 2nd edition” by Pearson FG, Churchill Livingstone, 2002			
Enrollment Conditions(履修条件)					
Assessment Methods and Criteria(評価方法・基準)		Grading will be based on active class participation, paper summaries, and final report.			
Language Used in Instruction(使用言語)		Japanese and English			

Textbook/Material Language(教科書・資料の言語)	Combination of Japanese and English
Course Based on Practical Work Experience(実務経験を 活かした授業)	Applicable