

<b>Category</b> (科目区分)	Specialized subjects / Oncology Specialist Training System		
<b>Course Title</b> (授業科目名)	cancer genome diagnosis and precision medicine		
<b>Instructors</b> (担当者名)	Hiroyuki Shibata	<b>Academic Year</b> (配当年次)	All grades
<b>Required Course / Elective Course</b> (必修/選択)	Selective	<b>Credits</b> (単位数)	2
<b>Class Format</b> (授業形態)	Web class		
<b>Schedule</b> (開講期間)	2023 April-2024 March		
<b>Class Date/Period</b> (開講曜日・時間)	—		
<b>Course Outline/ Course Objectives</b> (授業の概要・到達目標) According to the progress in cancer biology, diagnosis of cancer has been improved. "Precision medicine initiative", it was declared by President Obama in 2015, where we analyze the cancer cells by genetic methods, and give the cancer patient with an appropriate agents due to the results. This trend will become a main stream of cancer diagnosis without doubt.			
<b>Course Planning</b> (授業計画)			
	<b>Course Outline/ Course Objectives</b> (授業の概要及び到達目標) (Contents of Class) (授業内容)	<b>Instructor</b> (担当教員名)	<b>Department</b> (講座名) <b>Class Room</b> [実施場所]
1	Nursing for patients with genetic diseases	Naoko Arimori	Niigata University
2	Cancer genomes and gene panel sequencing	Shunsuke Kato	Juntendo University
3	nextgeneration sequencer	Jun Yasuda	Tohoku University
4	Therapeutic Drug monitoring of cancer agents	Masatomo Miura	Dept. Pharmaceutics
5	Imunohistochemistry and cancer diagnosis	Akiteru Goto	Dept. Pathology
6	pathological diagnosis of cancer	Hiroshi Manjiyo	Dept. Pathology
7	Viral hepatic disease, hepatocellular carcinoma	Takashi Goto	Dept. Gastroenterology
8	Surgical treatment of brain tumor	Kazutaka Takahashi	Dept. Neurosurgery
9	Dualenergy CT	Koichi Ishiyama	Dept. Radiology.
10	Treatment of gynecological cancer	Tsukasa Baba	Iwate mRNA university
11	Hereditary Cancer	Tadahisa Fukui	Yamagata Valley
12	Cardiac tumor	Hiroyuki Watanabe	Dept. Cardiology
13	Endoscopic treatment	Tamotsu Matsuhashi	Dept. Gastroenterology
14	Human papillomavirus and cervical cancer	Dai Shimizu	Dept. Gynecology
15	Chemotherapy for neuroendocrine tumoe	Koji Fukuda	Dept. Clinical Oncology
16	Nursing for hereditary cancer patients	Nanae Kamokawa	Tokai University
17	Statics of cancer in Akita prefecture	Satoru Motoyama	Dept. Local cancer treatment
18	counseling of hereditary cancer	Atsuko Noguchi	Dept. Pediatrics
19	Drug induced pneumonitis	Katsutoshi Nakayama	Dept. Respiratory medicine
20	Development of artificial antibody	Ryutaro Asano	Tokyo University of Agriculture and
<b>Grading Criteria</b> (成績評価の基準と方法)			
submission of the report			
<b>Contact Information</b> (問い合わせ先(氏名, メールアドレス等) )			
Name: Hiroyuki Shibata / E-mail: hiroyuki@med.akita-u.ac.jp			
<b>Coment</b> (その他特記事項)			
Self education by using web classes			