

Course	Oncology
Course No.	
Credits	2 Credits
Grade	1 Year
Timetable	Fall AB Mon 4, Tue 4
Instructor	Masayuki Noguchi, Kenji Irie, Mitsuyasu Kato, Koji Hisatake, Hideyuki Sakurai, Yukio Sato, Shigeru Chiba, Ichinosuke Hyodo, Kouji Masumoto, Manabu Minami, Norihiko Obayashi, Hiroyuki Suzuki, Yuji Mizogami, Norio Takayashiki, Koji Kawai, Shoko Saito, Noriaki Sakamoto, Shingo Sakashita
Course Overview	The aim of this subject is to learn disease entity, etiology, and progression mechanism of malignant tumor. Clinical application of the basic knowledge for diagnosis and treatment is also covered. In this course, we will also focus on the latest topics of cancer research and clinical diagnosis and treatment.
Remarks	Conducted in English.
Course Type	Lectures
Link between Course Objectives and Activities	In this course, students will study oncology, which includes both basic research and clinical aspects, toward understanding health security issues in medicine.
Academic Goal	To be able to explain tumor etiology, mechanism of malignant progression, and basic concept of tumor diagnosis and therapy.
Course Schedule	<ol style="list-style-type: none"> <li>1. Concept and Definition of Neoplasm (Mitsuyasu Kato)</li> <li>2. Cell cycle, Oncogene, Tumor suppressor gene (Mitsuyasu Kato)</li> <li>3. Chemical carcinogenesis (Hiroyuki Suzuki)</li> <li>4. Virus carcinogenesis (Shoko Saito)</li> <li>5. Cell growth (Norihiko Obayashi)</li> <li>6. Transcription and cancer (Koji Hisatake)</li> <li>7. Growth suppression and senescence (Hiroyuki Suzuki)</li> <li>8. Cell to cell adhesion and cell motility (Kenji Irie)</li> <li>9. Apoptosis and cancer (Hiroyuki Suzuki)</li> <li>10. Stem cell and carcinogenesis (Mitsuyasu Kato)</li> <li>11. Tumor diagnosis I (Endoscopic diagnosis) (Yuji Mizogami)</li> <li>12. Tumor diagnosis II (Radiological diagnosis) (Manabu Minami)</li> <li>13. Tumor diagnosis III (Histological and cytological diagnosis) (Norio Takayashiki)</li> <li>14. Tumor diagnosis IV (Molecular diagnosis) (Masayuki Noguchi)</li> <li>15. Tumor treatment I (Chemotherapy and targeted therapy) (Ichinosuke Hyodou)</li> <li>16. Tumor treatment II (Radiotherapy) (Hideyuki Sakurai)</li> <li>17. Tumor treatment III (Surgery) (Yukio Sato)</li> <li>18. Tumor of hematopoietic system and bone marrow transplantation (Shigeru Chiba)</li> <li>19. Cancer of genital system and kidney collecting system (Koji Kawai)</li> <li>20. Pediatric tumors (Kouji Masumoto)</li> <li>21. Cancer of digestive system (Masayuki Noguchi)</li> <li>22. Cancer of nervous system (Noriaki Sakamoto)</li> <li>23. Cancer of female genital system (Masayuki Noguchi)</li> <li>24. Cancer of respiratory system (Shingo Sakashita)</li> </ol>
Course Prerequisites and Advisories	
Grading Philosophy (Percentage/ Criteria/ Methodology)	Class participation (50%) and report at the end of the course (50%). Grading Criteria is A+ (Superior), A (Excellent), B (Good), C (Average) and D (Failure).
Self-Directed Learning Other Than Coursework	Review what you study in the class room.
Textbooks, References and Supplementary Materials	To be announced
Office Hours	Name: Masayuki Noguchi

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Other (i.e. Expectations on Classroom, Conduct and Decorum etc.)	
Related Courses	<p>Cancer Biology  Cellular Network of Biological Molecules  Nutrition, Physiological Regulation and Major Human Diseases</p>
Keywords	Cancer, Molecular and Cellular Biology, Clinic, Diagnosis, Treatment