

Category (科目区分)	Cluster of Biofunctional Systems		
Course Title (授業科目名)	Respiratory medicine/ practice		
Instructors (担当者名)	Katsutoshi Nakayama	Academic Year (配当年次)	1
Required Course / Elective Course (必修/選択)	Elective Course	Credits (単位数)	1
Class Format (授業形態)	Lecture		
Schedule (開講期間)	Students will be notified by email after completing the course registration.		
Class Date/Period (開講曜日・時間)	Students will be notified by email after completing the course registration.		
Course Outline/ Course Objectives (授業の概要・到達目標)			
General Instructional Objective (GIO): The purpose is to understand the treatment of chronic obstructive pulmonary disease(COPD), pneumonia and bronchial asthma.			
Specific Behavioral Objectives (SBOs): The goal is to understand and explain the treatment of chronic obstructive pulmonary disease(COPD), pneumonia and bronchial asthma.			
Course Outline: The pulmonary disease including COPD, pneumonia, and bronchial asthma have recently become one of the major leading cause of death in the world. We will present the pathogenic mechanism of COPD, pneumonia, and bronchial asthma from the molecular level, and consider treatment methods suitable for pathophysiology.			
1,2. Mechanism of development of pneumonia in elderly and its prevention 3,4. Pathophysiology and treatment of bronchial asthma 5,6. Pathophysiology and treatment of COPD 7,8. Differences between bronchial asthma and chronic obstructive pulmonary disease 9,10. Respiratory tract infection in COPD			
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	Mechanism of development of pneumonia in elderly	Katsutoshi Nakayama	Department of Respiratory medicine [Conference room of the department]
2	and its prevention	Katsutoshi Nakayama	
3	Pathophysiology and treatment of bronchial asthma	Katsutoshi Nakayama	
4			
5	Pathophysiology and treatment of COPD	Katsutoshi Nakayama	
6			
7	Differences between bronchial asthma and chronic obstructive pulmonary disease	Masahide Takeda	
8			
9	Respiratory tract infection in COPD	Kazuhiro Sato	
10			
Grading Criteria (成績評価の基準と方法)			
Attendance, reports and exams.			
Contact Information (問い合わせ先(氏名, メールアドレス等))			
Katsutoshi Nakayama / kat_n1@med.akita-u.ac.jp			
Comment (その他特記事項)			
Information about courses: If you cannot attend the training due to work, such as a graduate student who is a member of society, we will adjust the schedule. Textbooks / References: Materials will be distributed as needed. Self-study content during self-study time: It is desirable to carry out preparatory learning according to the goals to be achieved and the content of the lesson.			