Course Coding(科	Year/Se	emester/Ter	Faculty Offering Course(時間割所属・時間	Eligible	Credits(単位	Weekday and Period(曜	
目ナンバー)	Bナンバー) rear/36 m(年		割コード)	Student Year(開講年次)	数)	白・時限)	
RDM7-164-79-2	79-2 2025whole y		Graduate School of Medical Sciences (25790)	1, 2, 3, 4	2	others	
	Co	ourse Title(Theme)(科目名(講義題目))			Instructor(s)(担当教員)		
Spe	cial Lectı	ure I on CMH	A(G1 Special Lecture I on CMHA)	Kazuy Hideaki TOMIZA	ARIMA Yuichiro, MIURA Kyoko, YAMAGATA Kazuya, SENOKUCHI Takafumi, MIYAMOTO Hideaki, TAKIZAWA Hitoshi, KUROTAKI Daisuke, TOMIZAWA Kazuhito, Sou Bunketsu, IWAMOTO Kazuya, INOUE Toshihiro, ONO Yusuke		
			Goals with their ratio(学修成果とそ	の割合)			
1.Advanced expert l and ability to take ir	knowledg nitiative a	ge, skill and r action · · · · 25	esearch capability ····30% 2.Profound inte % 4.Social leadership drive ····5%	r-disciplinary kno	owledge ····40	% 3.Global perspective	
Type of Class(授業の形態)		Lecture					
Teaching Method(授業の方 法)		By taking advantage of repeated learning and attendance from remote locations, lectures will be conducted by elearning. Students will take a video class, and ask questions they may have after the class. Students will check for comprehension by submitting a report related to the lecture, or by answering questions presented at the end of the lecture.					
Course Goals(授業の目的)		With a rapidly aging global population due to increased life expectancy, it is medically and socially required to bring the healthy life expectancy (=the period during which one can live a healthy life without disturbing daily life) as close as possible to the limit life expectancy. In order to extend healthy life expectancy, we need to elucidate the basic mechanism of aging in humans and develop methods to prevent and treat aging-related diseases (e.g., diabetes, heart failure, cancer, dementia). By taking this class, students are encourage to gain a basic knowledge of aging and aging-related disorders in a wide range of research fields, including the physiology of aging, the pathogenic basis of aging-related diseases, epidemiology, therapeutic strategies, and social medicine.					
Course Learning goals(学修 目標)		[A level (A水準)] The following aims have been excellently achieved. (1) To acquire a basic knowledge of aging and aging-related disorders, including the physiology of aging, the pathogenic basis of aging-related diseases, epidemiology, therapeutic strategies, and social medicine. (2) To discuss the latest academic research on aging and healthy longevity. [C level (C水準)]					
		The following aims have been acceptably achieved. (1) To acquire a basic knowledge of aging and aging-related disorders, including the physiology of aging, the pathogenic basis of aging-related diseases, epidemiology, therapeutic strategies, and social medicine. (2) To discuss the latest academic research on aging and healthy longevity.					
Course Outline(授業の概要)		Students will learn about the physiology of aging as well as aging-related diseases (including pathophysiology, prevention and treatment methods). In addition, students will deepen their understanding of latest academic research on aging and healthy longevity through omnibus-style lectures provided by the faculty members in CMHRA (including all research division: Metabolic and Cardiovascular Research / Cancer and Stem Cell Research / Nervous System, Sensory, and Locomotive Research / Animal Models of Aging Research / Epidemiological Research).					
			Details for Individual Classes(各回の	授業内容)			
No.(回 Date(月	目)		Class Theme(授業テーマ)	Br	ief Outline of Cl	ass(内容概略)	
1		1st MIUR	A Kyoko 【eE-0】	The biology of	aging		
2			AGATA Kazuya【eE-0】		lucose metaboli	ism by insulin	
3			GATA Kazuya【eE-0】		hanism of type 2		
4			GATA Kazuya【eE-0】		n of diabetes m		
5		<u> </u>	KUCHI Takafumi【eE-0】	To achieve hea	Ithy longevity -L	earn about diabetic eutic approaches	
6		6th MIYAI	MOTO Hideaki【eE-0】	The latest adva	nces in gastroin	testinal cancer treatment	
7		7th KURO	TAKI Daisuke【eE-0】	Overview of Ch	romatin Structu	re Analysis	
8		8th TAKIZ	AWA Hitoshi【eE-0】		of blood system		
9		9th KURO	TAKI Daisuke【eE-0】	Overview of Ch	romatin Structu	re Analysist	
10		-	G Wen-Jie [eE-0]	Learning and m		•	
11		1	MOTO Kazuya [eE-0]			ges and psychiatric	
12		12th INO	JE Toshihiro【eE-0】	Glaucoma that	threatens healtl	nful longevity	
13			Yusuke [eE-0]	-		I muscle and sarcopenia	
14		-	1A Yuichiro 【eE-0】		_	crease with aging 1	
15		-	1A Yuichiro [eE-0]				
Estimated out-of-class study time		15th ARIMA Yuichiro [eE-0] Cardiovascular diseases that increase with aging 2 This course consists of content that requires 90 hours of study. Since the lesson is 30 hours (2 hours x 15 frames), 60 hours of pre- and post-study (including reports) is required to deepen the understanding of the lesson.					
Required Textbook(テキスト)		No particular textbook. Materials summarizing the points of the lecture will be distributed.					
Reading List(参考	文献)	Biology of Aging (2nd Edition, by Roger B. McDonald) ISBN 9780815345671 The Biology of Senescence: A Translational Approach (by Bernard Swynghedauw) ISBN 9783030151102					
Enrollment Condition	ons(履修	Have basic	knowledge concerning what is taught in this	course.			

条件)	Have basic knowledge concerning what is taught in this course.	
Assessment Methods and Criteria(評価方法・基準)	This class consisted of a series of omnibus lectures by 15 lecturers as listed in the schedule. Evaluation will be done based on active class participation, examination test and/or report for subjects by each lecturer. In order to get credits students have to take more than 2/3 lectures. Grading will be based on the average of top 10 scores among ones obtained by the student.	
Language Used in Instruction(使用言語)	English	
Textbook/Material Language(教科書・資料の言語)	English	
Course Based on Practical Work Experience(実務経験 を活かした授業)	Not applicable	