授業科目名	Human Genetics			
Title of Course	Tiuman Genetics			
Title of Course				
対象学年 Eligible Students	2nd year students in the	単位 Credits	2	
	School of Medicine, and			
	the Faculty of Dentistry			
	MATSUURA SHINYA	所属	Research Institute for Radiation Biology and	
科目責任者		から Affiliation	Medicine	
Responsible		Ailliation	(内線 Ext. Number: 5809 )	
Instructor		メール		
		E-mail		
	MATSUURA SHINYA	I	Research Institute for Radiation Biology and	
科目コーディネー		所属	Medicine	
ター		Affiliation	(内線 Ext. Number: 5809 )	
Course Coordinator		メール	,	
		E-mail		
授業方法	Lecture centered			
Lesson Style				
	Along with the progress of the human genome project, the field of human genetics (genetic medicine) has advanced significantly. Now, genetics is becoming an integral part of all fields of medicine. The objectives of this course are to learn the basic concepts of human genetics and understand the mechanism of diseases related to genes and chromosomes and ultimately cultivate a sense of morality based on the correct knowledge of genetic medicine.			
概要	Sassa on the contest time	go or g		
Overview	All health care professionals need to have knowledge and skills in genetic medicine.			
OVCIVIEW	Students are expected to acquire the basics of genetics through this course, so that			
	they can better understand various diseases that they will learn in their third year			
	and beyond. Students who did not choose biology as a subject for the university entrance exam are recommended to review high school biology textbooks			
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	(heredity).			

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到達目標 Academic Goals	Students will be able to:			
	-Explain meiosis.			
	-Explain genetic variation from the process of meiosis.			
	-Explain Mendel's laws of heredity.			
	-Explain the three modes of Mendelian inheritance and to list representative			
	hereditary diseases.			
	-Explain the relationship between genotype and phenotype.			
	-Outline the relationship between genetic factors and environmental factors in			
	developmental abnormality in an individual.			
	-List diseases caused by multifactorial inheritance and explain their characteristics			
	-Explain germline cells and somatic cells, and differences in diseases caused by			
	genetic abnormalities in each cells.			
	- Explain chromosomes and chromosomal behavior in meiosis.			
	- Explain sex determination by sex chromosomes and sex-linked inheritance.			
	- List and outline major diseases caused by chromosomal abnormalities.			
講義日程	Refer to the timetable on a separate sheet.			
中我口生 Class Schedule				
Siddo doricadio				
出席の取り扱い	Attendance is taken at each class through the attendance management system.			
Class Attendance				
Policy				
評価項目	Degree of achievement of the course objectives			
Evaluation Item	(basic understanding and application of knowledge)			
評価法	Written examinations prepared by the course instructor will be conducted.			
Evaluation Method	Grade will be based on class attendance, written examinations, and etc.			
	[Reference books recommended to be purchased]			
	Iden Igaku-eno Shotai (Introduction to Genetic Medicine) (Revised Edition 4), Norio			
	Niikawa, Kyoko Abe, Nankodo Co., Ltd.			
推奨参考書	[Other reference books useful for the course]			
Recommended	Iden Igaku Yasashii Keitou Kogi (Easy, Systematic Lectures on Genetic Medicine			
Reference Books	editorial supervision by Yoshimitsu Fukushima, Medical Science International Ltd.			
	Thompson & Thompson Genetics in Medicine, R. L. Nussbaum, et.al. Medical			
	Science International Ltd.			