A Master Course			Class Style	Lecture	FB : Elective 2	credits	Fiscal year	2020	
					AM : Free elec	tive 2 credits			
				GM : Elective 2 credits					
Course Title			Regenerative and Advanced Medicine Numbering AM :					AM1014	
Objectives			Learn about regenerative medicine, advanced medical care, transplant medical care.						
Semester			The second half of the 1st Grade. The 6th Period, Wednesday (18:00 - 19:30)						
Location			Real-time delivery (Zoom)						
Couse Director			Ken-Ichiro Kosai (Department of Gene Therapy and Regenerative Medicine)						
	ΙO	Unders	derstand regenerative medicine and advanced medicine including medical transplantation.						
G		Learn	arn comprehensive knowledge and research method from research and development to						
		clinical	nical application.						
		The goals of this course are to:							
	во	1) be a	1) be able to understand and explain stem cells and regenerative medicine.						
S		2) be able to understand and explain advanced medicine including gene therapy.							
		3) be able to explain the present conditions and problems of the medical transplantation.							
Outline (90 minutes x 15 lectures) Instructor								r	
	1. Introduction and comprehension of advanced medical development.Ken-ichiro K2. Biotechniques and advanced medicineNobuhiro Ijic						Ken-ichir	o Kosai	
							ljichi		
	3. Adv	3. Advanced electronic microscope for resolution of microstructure analysis.						Nobuhiro Ijichi	
	4. Dev	4. Development and stem cells						Kaoru Mitsui	
	5. App	5. Application of stem cells to regenerative medicine.						Kaoru Mitsui	
	6. Somatic stem cells and regenerative medicine.						Masahiro	Masahiro Nishimura	
	7. Contact point between cancer and stem cells						Sonshin	Sonshin Takao	
	8. Innovative medical technology in orthopedic surgery						Satoshi N	Satoshi Nagano	
	9. Cutting-edge of gene therapy						Ken-ichir	Ken-ichiro Kosai	
	10. Medical transplantation (provisional)						Hisashi S	Sahara	
	11. Current medical transplantation I $\sim$ liver transplantation						Sonshin	Takao	
	12. Current medical transplantation II~kidney transplantation						Yasutosh	i Yamada	
	13. Current medical transplantation III~hematopoietic stem cells transplantation						ation Takuro N	ishikawa	
	14. Heterologous graft					Hisashi S	Hisashi Sahara		
	15. Re	15. Review: think about next-generation medical based on the lessons.					Ken-ichir	Ken-ichiro Kosai	
	Teaching Materials								
Grading			Class attendance: 70%, Attitude in class: 20%, Reports: 10%						
Methods Contact			A)80-100, B)70-79, C)60-69, D)59 and below				irable )		
Contact			Office hours		10:00 – 17:00 (An appointment is desirable.) kosai@m2.kufm.kagoshima-u.ac.jp				
			E-mail		aorum@m3.kufm.kagoshima-u.ac.jp				
			Consultation and the question support after class.						
Others			Class materials will be posted on manaba.						