Subject (English)	1	Molecular and Cellular Biology		Semester	Spring	Day/Slot	Fri./2nd	
科目名 (日本語)		分子細胞生物学			Jemester	Spring	Day/Slot	10:30-12:00
Course Code	Course VJ25 Code		S5	Course Numbering	SBI-BIO80	2E	Period	Apr. 12 – Jul. 19, 2019
Instructor M. Ko			ganezawa, et al.			Campus	Aobayama	
(Post) (Asso			c. Prof.)				Building	Biology Building (H15)
Faculty Facul			y of Science		Credits	2	Class Room	Meeting room 3 (107)
Class su	bject		Molecular and Ce	llular Biology				
Object and summary of class								
This course offers an introduction to biochemistry, genetics, cell biology, early development, and neurobiology. This course is an omnibus lecture consisting of multiple topics.								
Keywords biochemistry, genetics, cell biology, developmental biology, neurobiology								
Goal of study								
Learn the basic concept of molecular and cellular biology, which is the basis of modern biology. Understand the cell								
as the basic unit of life; its composition, functions, replication, and differentiation.								
Contents and progress schedule of class								
No	Date		Торіся					Instructor
1	4/12		Dynamic cellular behaviors in embryogenesis					ASAKO SUGIMOTO
2	4/19		Germline cell development in animal embryos					GAKU KUMANO
3	5/10		Molecular biology of plant					RYUSUKE YOKOYAMA
4	5/17		Development of the nervous systems					KENTARO ABE
5	5/24		Pattern formation in vertebrates					KOJI TAMURA
6	5/31		Integrative function of the cerebral cortex					KENICHIRO TSUTSUI
7	6/7		Reward, punishment, and neural circuits					HIROMU TANITOMO
8	6/14		Neural mechanisms of courtship behavior					MASAYUKI KOGANEZAWA
9	6/21		Membrane dynamics in cells					MITSUMORI FUKUDA
10	6/28		Cell death and movement in epithelial morphogenesis					ERINA KURANAGA
11	7/5		Pattern Formation in Plants					JUNKO KYOUZUKA
12	7/12		Neural circuit for reward and punishment					NOBUHIRO YAMAGATA
13	7/19		Innate immunity and membrane trafficking				TOMOHIKO TAGUCHI	
Prepara	tion		N/A					
Record	and ev	valuat	For evaluation, students are required to attend the class, and must submit an					
Teather I in the			essay dealing with a topic covered in one of the lectures.					
Solf study			ences I he printout of reference material will be distributed every time.					
Jen addition								
in addit	ion		N/A					