

Special Subjects of the Department of Genetics

Field	Subject Code	Subject	Credit	Content of subject	
Molecular Cytogenetics, Developmental biology, Evolutionary genetics, Genetics	20DGE001	Developmental Biology II	1	Various developmental events, such as cell fate determination, cell differentiation, morphogenesis and animal behavior will be analyzed in light of gene expression, cell-cell interaction, intracellular signaling and evolution. Classes will be run by critical reading of the primary literature and discussion.	Yumiko Saga Takuji Iwasato Hitoshi Sawa Tatsumi Hirata Yutaka Sato Tsuyoshi Koide Noriyoshi Sakai Ken-ichi Nonomura
	20DGE002	Developmental Biology III	1		
	20DGE003	Developmental Biology IV	1		
	20DGE016	Evolutionary Genetics	1	After introduction of basic knowledge on various fields of evolutionary and population genetics, such as adaptive evolution, neutral evolution, speciation, symbiosis evolution, and epigenetics evolution, we discuss what kinds of new questions will be possible to answer by employing emerging genomic technologies.	Jun Kitano Naruya Saitou Hiroshi Akashi Asano Ishikawa Shin-ya Miyagishima Tetsuji Kakutani Ken Kurokawa Tomotaka Matsumoto
	20DGE017	Genetics	1	Basic concepts, approaches and techniques in Genetics will be outlined and discussed. In addition, the lecture focuses on how our behaviors and diseases are controlled by our genes.	Hiroyuki Araki Kuniaki Saito Hitoshi Sawa Yutaka Sato Tsuyoshi Koide Ituro Inoue
	20DGE009	Oral Scientific Communication I	2	An interactive seminar on spoken scientific English in a small group of students. The goal of this course is to develop your skills so that you can effectively discuss and present scientific matters in English. Oral Scientific Communication I will introduce the principles and key strategies of scientific presentation. Oral Scientific Communication II will help students to comprehend scientific seminars and discuss the contents through practical activities.	Tatsumi Hirata
	20DGE014	Oral Scientific Communication II a	1		
	20DGE015	Oral Scientific Communication II b	1		
	20DGE011	Fundamentals of Scientific Writing I	1	This course will explore principles of clear English writing and presentation. The class will address fundamentals of writing as well as specifics of preparing scientific papers and proposals as well as professional material such as applications. Writing assignments and discussion will be important aspects of the class.	Hiroshi Akashi
	20DGE012	Fundamentals of Scientific Writing II	1		
20DGE013	Fundamentals of Scientific Writing III	1			