

科目名	Course Title
遺伝学1 (Genetics I)	
学科・専攻	Department/Program
G30 Biology	
受講年次	Grade
2nd	
授業形態	Class style
必修・選択の別	Compulsory or Elective
講義	* See "Remarks"
時間割コード	Registration code
0682070	
開講期・曜日・時限	Semester,Day & Period
Fall semester Thu : 2	
単位数	Credit
2	
科目区分	Course type
担当教員	Instructor
VASSILEVA Maria	(VASSILEVA Maria)
所属研究室	Laboratory
E202	
連絡先	Contact
mnvassileva@bio.nagoya-u.ac.jp	
居室	Room
E202	

講義の目的とねらい	Course purpose
<p>This course expands the basic knowledge of genetics acquired in year one, and is the beginning of a series of courses on Genetics.</p> <p>Students will learn the mechanisms of processes related to how genetic information is inherited rigidly and flexibly from generation to generation.</p> <p>Students are expected to become confident at using appropriate scientific terminology, understand the studied genetics concepts and be able to analytically manipulate this information.</p>	
履修要件	Prerequisite
Strongly recommended to have completed Fundamentals of Biology 1	
履修取り下げの方法について	How to Apply for Course Withdrawal
<p><「履修取り下げ届」提出の要・不要 Necessity/Unnecessity to submit "Course Withdrawal Request Form"> Necessary <条件等 Conditions> Need to submit a Course Withdrawal Request Form when students have no intention of finishing a course during the semester. Submit Course Withdrawal Request form by the sixth lecture to receive an Absent grade. For later course withdrawal contact the lecturer.</p>	
成績評価	Grading
Evaluation is based on in-class participation, assignments and written examinations.	
不可 (F) と欠席の基準	Criteria for "Absent" & "Fail" grades
<p>Absent – based on submission of Course Withdrawal Request Form. Fail – based on a total accumulated score of less than 60%.</p>	
関連する科目	Related courses

Genetics II, Genetics III
教室 Class room
Check the Course Timetable. A 407

授業内容 Content
Overall theme of the course - Maintenance of the genome Detailed content: 1. Mendelian genetics 2. DNA and RNA structure 3. Chromosomes, chromatin, and the nucleosome 4. Replication of DNA 5. Mutability and repair of DNA 6. Genetic recombination

教科書 Textbook
Molecular Biology of the Gene, Watson, James D. et al., Pearson Education.
参考書 Recommended reading
Essentials of Genetics, William S. Klug et al., Benjamin Cummings. Molecular Biology of the Cell, B. Alberts et al., Taylor and Francis.
連絡方法 Contact method
by e-mail
その他 Remarks
*See Course List and Graduation Requirements for your program for your enrollment year.