

授業科目名(英文名) ／Course Title	中枢神経遺伝子工学特論／Molecular Biological Approaches to CNS Function		
担当教員(所属)／Instructor	森 寿(医学部), 吉田 知之(医学部)		
授業科目区分／Category	専門教育科目		
COC+科目／COC+Course	-	授業種別／Type of class	講義科目
開講学期曜限／Period	2019 年度／Academic Year 前期・月曜 7 限	対象所属／Eligible Faculty	認知・情動脳科学専攻
時間割コード／Registration Code	365102	対象学年／Eligible grade	1、2、3、4 年
ナンバリングコード／Numbering Code		単位数／Credits	2 単位
オフィスアワー(自由質問時間) ／Office hours			
リアルタイム・アドバイス／Real-time advice 更新日			
授業のねらいとカリキュラム上の位置付け(一般学習目標)／Course Objective			
This lecture focuses on the principle of gene manipulation of model organisms and the application of these gene-modified organisms for analyses of the molecular basis of CNS functions and dysfunctions.			
達成目標／Course Goals			
To understand the principle of gene manipulation of organisms. To read and prepare for introduction of selected articles about the gene manipulation and its application.			
授業計画(授業の形式、スケジュール等)／Class schedule			
Lecture and presentation about the selected articles using PPT file. Q&A and discussion about the presentation. Detailed schedule of the lecture depends on the students. Before starting the lecture, we will contact to the registered students by e-mail.			
授業時間外学修(事前・事後学修)／Independent Study Outside of Class			
Before the lecture, reading of the selected articles. After the lecture, preparing report about the presentation.			
キーワード／Keywords			
Transgenic, Gene knockout, Conditional knockout, CRISPR/cas9, Virus vectors, Optogenetics, and so on.			
履修上の注意／Notices			
教科書・参考書等／Textbooks			
Selected original papers and reviews about the gene manipulation.			
成績評価の方法／Evaluation			
Presentation of the content of the selected papers.			
関連科目／Related course			
リンク先 URL／URL of syllabus or other information			
備考／Notes			