

Course title	Special Lectures in Physiological Sciences 1
Term	通年(前期開始) Whole Year
Credit(s)	1
The main day	The main period
Program/Department	48 Physiological Sciences
Lecturers	Furuse, Nemoto, Kitajo, Takemura et al.
成績評価区分 Grading Scale	A, B, C, Dの4段階評価 Four-grade evaluation
レベル Level	Level 3
力量 Competence	専門力 Academic expertise、独創性 Creativity

Instructor	
Full name	
* FURUSE MIKIO	
YOSHIMURA YUMIKO	
NEMOTO TOMOMI	
KITAJO KEIICHI	
TAKEMURA HIROMASA	
MURAKAMI MASAACKI	
WAKE HIROAKI	
SOKABE TAKAACKI	
FUKATA YUKO	

Outline	Lectures describing recent progress and cutting-edge techniques in the physiological science field.
Learning objectives	To acquire new knowledge and a wide range of information in physiological sciences
Grading policy	Attendance of at least half of each of the first half (1st to 4th lectures) and the second half (5th to 8th lectures) is required for credit acquisition. Students choose one of four lectures in the first (from May to August) and second semester (from October to January), respectively, and write an essay report summarizing the lecture content with about 600 English words. The grade is determined based on the quality of the submitted report, which is indicated by A (corresponding to score 80-100), B (70-79), C (60-69), or D (less than 60); A, B or C is 'passed.'
Lecture Plan	Time May 2023- January 2024 approximately once a month Wednesday, 15:00-16:30 The 1st: May 11, 2023 (Zoom) "The functional roles of oscillatory synchronization of neural activity" Keiichi Kitajo (Division of Neural Dynamics) The 2nd: June 28, 2023 (Zoom) "Physiological and pathological functions of glia" Hiroaki Wake (Division of Multicellular Circuit Dynamics) The 3rd: July 5, 2023 (Zoom) "Gateway reflex is a novel neuroimmune interaction" Masaaki Murakami (Division of Molecular Neuroimmunology) The 4th: August 9, 2023 (Zoom) "Molecular mechanisms of the regulation of paracellular permeability" Mikio Furuse (Division of Cell Structure) The 5th: October 25, 2023 (Myodaiji area or Zoom) "Structural and functional neuroimaging on the human visual system" Hiromasa Takemura (Division of Sensory and Cognitive Brain Mapping) The 6th: November 15, 2023 (Yamate area or Zoom) "Microscopic visualization analysis methods for nervous system and cellular physiological functions" Tomomi Nemoto (Division of Biophotonics) The 7th: December 13, 2023 (Yamate area or Zoom) "Sensory molecules and their physiological roles in Drosophila" Takaaki Sokabe (Division of Cell Signaling) The 8th: January 17, 2024 (Yamate area, or Zoom) "Physio-pathological roles of trans-synaptic complex LGI1-ADAM22 in brain disorders" Yuko Fukata (Division of Membrane Physiology)

Location	Online using Zoom or onsite (Lecture room, NIPS Myodaiji Building 1F or Seminar room B of the Yamate 3rd Building 9F)
Language	English
Textbooks and references	None
Notes for students of other programs	Students in courses other than the Physiological Sciences course should contact the following email address before enrolling in the course. sokendai-admin@nips.ac.jp
Others	D1 and D2 students in the Physiological Sciences course are strongly recommended to take this class. Students from all courses are also welcome.