

Course title	Clinical pathophysiology 2		
Term	後期 2nd Half		
Credit(s)	1		
The main day		The main period	
Program/Department	48 Physiological Sciences		
Lecturers	Keiichi Kitajo and others		
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		

Instructor	
Full name	
* KITAJO KEIICHI	
YOSHIMURA YUMIKO	
ISODA MASAKI	
FUKATA MASAKI	
TAKEMURA HIROMASA	

Outline	Lecturers in the basic fields will give an overview of the mechanisms of the normal functioning of the cortical networks, basal ganglia circuits, and synapses. After that, clinical researchers invited from outside will give a lecture on the clinical pathology and treatment for diseases caused by abnormalities in these mechanisms.
Learning objectives	This course will focus on the pathophysiology of the brain at three different neuroscientific spatial scales: the cortical network, basal ganglia, and synaptic levels. By relating the basic understanding of physiology to pathologies, students will learn how abnormalities in basic physiology contribute to the development of diseases and pathologies. Furthermore, students will also understand how the normalization of basic physiological mechanisms can lead to the treatment of pathologies and diseases.
Grading policy	The students will choose one of the three themes, the cortical network, basal ganglia, or synapses, and submit a report. The lecturers of the course will grade the submitted reports.
Lecture Plan	The lectures are composed of both the basic and the clinical aspects. Cortical networks October 25 (Wed) 10:00-11:30 Keiichi Kitajo (basic 1) November 1 (Wed) 10:00-11:30 Hiromasa Takemura (basic 2) November 8 (Wed) 10:00-11:30 Noriaki Hattori (clinical) Synapse November 15 (Wed) 10:00-11:30 Masaki Fukata (basic 1) November 28 (Tue) 10:00-11:30 Yumiko Yoshimura (basic 2) November 29 (Wed) 10:00-11:30 Masahisa Katsuno (clinical) Basal Ganglia December 6 (Wed) 10:00-11:30 Masaki Isoda (basic 1) December 13 (Wed) 10:00-11:30 Takayoshi Shimohata (clinical)
Location	online
Language	English but some of the lectures will be given in Japanese.
Textbooks and references	None
Notes for students of other programs	None
Related URL	https://www.nips.ac.jp/graduate/curriculum.html
Explanatory note on above URL	Please check the latest schedule on the program website mentioned above.
Others	None
Keyword	cortical network, basal ganglia, synapse, pathophysiology