

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
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
TAKEMURA HIROMASA

Outline	Lecturers specializing in basic fields will provide an overview of the mechanisms underlying the normal functioning of cortical networks, basal ganglia circuits, and synapses. Following this, invited clinical researchers will deliver a lecture on the clinical pathology and treatment of diseases resulting from 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 connecting fundamental physiological concepts to pathological conditions, students will learn how abnormalities in basic physiology contribute to the development of diseases. Furthermore, they will gain an understanding of how restoring normal physiological mechanisms can aid in treating these conditions.
Grading policy	Students will choose one of the three themes-cortical networks, basal ganglia, or synapses-and submit a report. The course lecturers will evaluate the submitted reports.
Lecture Plan	<p>The lectures are composed of both the basic and the clinical aspects.</p> <p>Synapse: October 15 (Wed) 10:00-11:30 Yumiko Yoshimura (basic 1) October 22 (Wed) 10:00-11:30 Masaki Fukata (basic 2) October 29 (Wed) 10:00-11:30 Masahisa Katsuno (clinical)</p> <p>Cortical networks: November 26 (Wed) 10:00-11:30 Keiichi Kitajo (basic 1) December 3 (Wed) 10:00-11:30 Hiromasa Takemura (basic 2) December 10 (Wed) 10:00-11:30 Noriaki Hattori (clinical)</p> <p>Basal Ganglia: December 24 (Wed) 10:00-11:30 Masaki Isoda (basic 2) January 7 (Wed) 10:00-11:30 Takayoshi Shimohata (clinical) (in Japanese)</p>
Location	Online
Language	The lectures will be given in English, however, 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.
Keyword	cortical network, basal ganglia, synapse, pathophysiology
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