## Syllabus

# 1. Course Title, Style and Credit "Special lectures", Lecture, 1 Credit

2. Appropriate grade level and Eligible Departments

D1, 2, 3

Students in Department of Physiological Sciences, and also open to students in all Departments.

#### 3. Lectures

Lectures will be provided by Professors or Associate Professors in the Department of Physiological Sciences, or Professors or Visiting Professors of NIPS

#### 4. Time

April, 2018 $\sim$ February, 2019 approximately once a month Wednesday, 15:00 $\sim$ 17:00

### 5. Place

Yamate Area : Seminar room B of the Yamate 3rd Building, 9th Floor Myodaiji Area : NIPS 1F, Lecture room Lectures will be delivered by a remote lecture system. However, calling the role will be done at the location where the lecture occurs.

### 6. Prerequisites and Styles

Application: sign up for the classes Students enrolled must attend at the location where the lecture is given.

### 7. Contents

Lectures describing recent progress and cutting edge techniques in the physiological sciences.

#### 8. Course objectives

To disseminate a wide range of knowledge of physiological science

#### 9. Schedule

The 1st: April 18th, 2018

"Functions and dysfunctions of the cortico-basal ganglia loop"
Atsushi Nambu (Div. System Neurophysiology)
(Myodaiji area: NIPS 1F, Lecture room)

The 2nd: May 9th, 2018

"Long Term Plasticity of Cortical Circuits: Neuron-Glia Interaction" Junichi Nabekura (Div. Homeostatic Development) (Myodaiji area: NIPS 1F, Lecture room)

The 3rd: June 13th, 2018

"The molecular mechanisms of sensory processes and the physiological responses"

Takaaki Sokabe (Div. Cell Signaling)

(Yamate area: Seminar room B of the Yamate 3rd Building, 9th Floor)

The 4th: July 25th, 2018

"Face perception in humans"

Ryusuke Kakigi (Div. Integrative Physiology)

(Myodaiji area: NIPS 1F, Lecture room)

The 5th: August 8th, 2018

"FRET analysis of the signaling of G protein coupled receptor" Michihiro Tateyama (Div. Biophysics and Neurobiology) (Myodaiji area: NIPS 1F, Lecture room)

The 6th: October 31th, 2018 "Regulation of paracellular transport in epithelia" Mikio Furuse (Div. Cell Structure) (Yamate area: Seminar room B of the Yamate 3rd Building, 9th Floor)

The 7th: November 14th, 2018 "Cardiac plasticity and functional remodeling" Motohiro Nishida (Div. Cardiocirculatory Signaling) (Yamate area: Seminar room B of the Yamate 3rd Building, 9th Floor)

The 8th: December 5th, 2018 "Synaptic function regulated by local palmitoylation cycle" Masaki Fukata (Div. Membrane Physiology) (Yamate area: Seminar room B of the Yamate 3rd Building, 9th Floor)

The 9th: January 9th, 2019

"Gene manipulation technology for analysis of brain function" Kenta Kobayashi (Sec. Viral Vector Development) (Myodaiji area: NIPS 1F, Lecture room)

The 10th: February 6th, 2019

"Analysis of brain structure and function using ultra high field MRI"Masaki Fukunaga (Div. Cerebral Integration)(Myodaiji area: NIPS 1F, Lecture room)

10. Lecture materials and readings Not applicable.

#### 11. Grades

Students must attend at least half of the lectures to get credit. For evaluation, more than 60 in a 100-point scale is judged successful.