

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, 2017~February, 2018 approximately once a month

Wednesday, 15:00~17:00

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 26th, 2017

“Structure and function of thermosensitive TRP channels”

Makoto Tominaga (Div. Cell Signaling)

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

The 2nd: May 10th, 2017

“Title: System-level understanding of social cognitive function using nonhuman primates”

Masaki Isoda (Div. Behavioral Development)

(Myodaiji area: NIPS 1F, Lecture room)

The 3rd: June 7th, 2017

“Imaging signal transduction in neurons by fluorescence microscopy”

Hideji Murakoshi (Sec. Multiphoton Neuroimaging)

(Myodaiji area: NIPS 1F, Lecture room)

The 4th: July 5th, 2017

“Structural analysis of biomolecules by cryo-electron microscopy”

Kazuyoshi Murata (Sec. Electron Microscopy)

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

The 5th: August 9th, 2017

“Paracellular barrier function and epithelial homeostasis: From studies using *Drosophila* gut as a model system”

Yasushi Izumi (Div. Cell Structure)

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

The 6th: October 25th, 2017

“Physiological functions and regulatory mechanisms of organelle dynamics in the nervous system”

Nobuhiko Ohno (Div. Neurobiology and Bioinformatics)

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

The 7th: November 22th, 2017

“Pain and itch perception in humans”

Ryusuke Kakigi, (Div. Integrative Physiology)

(Myodaiji area: NIPS 1F, Lecture room)

The 8th: December 6th, 2017

“Pyramidal cell diversity and inhibition styles in the cerebral cortex”

Yasuo Kawaguchi (Div. Cerebral Circuitry)

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

The 9th: January 24th, 2018

“Experience dependent development in the neocortex”

Yumiko Yoshimura (Div. Visual Information Processing)

(Myodaiji area: NIPS 1F, Lecture room)

The 10th: February 14th, 2018

“Overview of social brain: functional neuroimaging approach”

Norihiro Sadato (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.