

Syllabus

1. Course Title, Style and Credit

“Special lectures”, Lecture, 1 Credit

2. Appropriate grade level and Eligible Departments

1, 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

May, 2021- January, 2022 approximately once a month
Wednesday, 15:00-17:00

5. Place

Lectures will be delivered online using **Zoom**.

6. Prerequisites and styles

There is no lecture course especially requested to have been finished in advance. All lectures will be given in English.

7. Contents

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

8. Course objectives

To acquire new knowledge and a wide range of information in physiological sciences

9. Schedule

The 1st: May 19, 2021

“Physiological understanding of social brain function”

Masaki Isoda (Behavioral Development)

The 2nd: June 2, 2021

“Regulation of cardiocirculatory functions through autonomic nervous system”

Motohiro Nishida (Cardiocirculatory Signaling)

The 3rd: July 7, 2021

“Imaging molecular dynamics during synaptic plasticity”

Hideji Murakoshi (Multiphoton Neuroimaging)

The 4th: August 4, 2021

“Biological Clock and Brain: Mechanisms of Time Ticking in Living Organisms”

Ryousuke Enoki (Biophotonics)

The 5th: October 13, 2021

“Functions and dysfunctions of the basal ganglia”

Atsushi Nambu (System Neurophysiology)

The 6th: November 17, 2021

“Decoding cardiovascular homeostasis from mitochondrial quality control”

Akiyuki Nishimura (Cardiocirculatory Signaling)

The 7th: December 8, 2021

“A la carte of developmental engineering technology”
Masumi Hirabayashi (Mammalian Transgenesis)

The 8th: January 26, 2022

“Synaptic function regulated by local palmitoylation cycle”
Masaki Fukata (Membrane Physiology)

10. Lecture materials and readings

Not applicable.

11. Grades

Students must attend at least half of the lectures to get credit.

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 deadline for each report is below.

August 13th (Fri), 2021(Fri) for a report in the 1st semester

February 4th (Fri), 2022 for a report in the 2nd semester

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.’