

Syllabus

1. Course Title, Style and Credit

“Special lectures”

Lecture

1 Credit

2. Appropriate grade level and Eligible Departments

All Departments

For Department of Physiological Sciences, D1, 2, 3

3. Lectures

Professors or Associate Professors in Department of Physiological Sciences
, or Professors or Visiting Professors of NIPS

4. Time

Oral lectures : April, 2013～March, 2014 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 : Main Conference room of the Staff Hall, 2nd Floor,
or NIPS 1F, Lecture room

The lectures will be delivered by the remote lecture system. However, calling the role is done in the room where the professors really give the lectures.

6. Prerequisites and Styles

Application: sign up for the classes

Students enrolled must attend at a following room where the lecture is given.

7. Contents

Learning the recent progress and cutting edge of various fields of
physiological science

8. Course objectives

To acquire a wide range of knowledge of physiological science

9. Schedule

The 1st: April 24th, 2013

“Investigation of human face perception and recognition using various neuroimaging methods”

Ryusuke Kakigi (Dept. Physiological Sciences)

(Myodaiji area: Main Conference room of the Staff Hall, 2nd Floor)

The 2nd: May 15th, 2013

“Dynamic aspects of the function and structure of ion channels and receptors”

Yoshihiro Kubo (Dept. Physiological Sciences)

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

The 3rd: June 5th, 2013

“Morphological and functional diversity of mammalian retinal neurons and early vision processing in retina”

Amane Koizumi (Dept. Physiological Sciences)

(Myodaiji area: The 1st Seminar room, 1F, NIBB bldg)

The 4th: September 18th, 2013

“AMPK is an ancient energy gauge that integrates whole body metabolism and feeding behavior”

Yasuhiko Minokoshi (Dept. Physiological Sciences)

(Myodaiji area: NIPS 1F, Lecture room)

The 5th: October 16th, 2013

“Structural biology from molecules to cells using electron microscopy”

Kazuyoshi Murata (Dept. Physiological Sciences)

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

The 6th: November 20th, 2013

“Development of social cognition: A functional neuroimaging approach”

Norihiro Sadato (Dept. Physiological Sciences)

(Myodaiji area: NIPS 1F, Lecture room)

The 7th: December 11th, 2013

“Nonlinear dynamics of the brain and its mathematical modeling”

Kazuyuki Aihara (The University of Tokyo)

(Myodaiji area: NIPS 1F, Lecture room)

The 8th: January 15th, 2014

“Pyramidal cell diversity and neocortical organization”

Yasuo Kawaguchi (Dept. Physiological Sciences)

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

The 9th: February 12th, 2014

“Signal transduction systems underlying synaptic plasticity”

Hideji Murakoshi (Dept. Physiological Sciences)

(Myodaiji area: NIPS 1F, Lecture room)

The 10th: March 5th, 2014

“Measuring sensory memory”

Koji Inui (Dept. Physiological Sciences)

(Myodaiji area: NIPS 1F, Lecture room)

10. Lecture materials and readings

Not necessary

11. Grades

Students must attend the classes at least half of total classes to take a credit.

For evaluation, more than 60 in a 100-point scale is judged successful.