

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. Lecturers

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

4. Time

Oral lectures : April, 2012~March, 2013 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

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

No specific styles

Application: sign up for the classes

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 18th, 2012

“Synapse maturation and autism: Role of synaptic cell adhesion molecules”

Katsuhiko Tabuchi (Dept. Physiological Sciences)

The 2nd: May 16th, 2012

“Cortical nonpyramidal cells - morphology and function -”

Yoshiyuki Kubota (Dept. Physiological Sciences)

The 3rd: June 20th, 2012

“Neural mechanisms of color and shitsukan perception”

Hidehiko Komatsu (Dept. Physiological Sciences)

The 4th: September 26th, 2012

“Restoration of lost function via Brain Computer Interface”

Yukio Nishimura (Dept. Physiological Sciences)

The 5th: October 17th, 2012

“Neural processing in human auditory pathway”

Hidehiko Okamoto (NIPS)

The 6th: November 7th, 2012

“Functional alteration of synapses and dynamic localization of receptors in learning”

Ryuichi Shigemoto (Dept. Physiological Sciences)

The 7th: December 12th, 2012

“FRET analysis of the activation processes of G protein coupled receptors”

Mitsuhiro Tateyama (Dept. Physiological Sciences)

The 8th: January 30th, 2013

“Molecular mechanisms for neocortical formation and organization”

Tetsuo Yamamori (NIPS, NIBB)

The 9th: February 20th, 2013

“Patch-clamp analysis of inhibitory neurotransmission”

Hitoshi Ishibashi (Dept. Physiological Sciences)

The 10th: March 13th, 2013

“Molecular mechanism for synaptic dysfunction of human epilepsy”

Yuko Fukata (Dept. Physiological Sciences)

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.