Course title | Principle and Methodology in Brain Science
---|---
Term |前期 1st Half
Credit(s) | 1
The main day | The main period
School/Program | School of Life Science
Department/Program | Common Subjects of Life Science
Category | Common
Lecturers | Mitsuhiro Tateyama, Akiyuki Nishimura, and others

Instructor

Full name

* NAMBU ATSUSHI

Outline

This subject focuses on experimental approaches in brain science. 13 methodologies frequently used in brain science will be introduced to cultivate critical views on scientific data.

Goal


Grading system

01:Four-grade evaluation (A,B,C,D)

Grading policy

Students must attend at least half of the lectures to get credit. It is also required to write a short paper on a topic related to one of the lectures. The paper will be graded by the lecturer, and it will be used to determine pass/fail.

Lecture Plan

Schedule: May 20 – July 8 10:00-11:00, 11:00-12:00 on Thursdays

May 20 Molecular physiological methods (Michuhiro Tateyama)
May 20 Methods for cardio-vascular functions (Akiyuki Nishimura)
May 27 Molecular biological and biochemical methods 1 (Yuko Fukata)
May 27 Molecular biological and biochemical methods 2 (Kenta Kobayashi)
Jun 3 Electrophysiological methods 1 (Madoka Narushima)
Jun 3 Electrophysiological methods 2 (Saeka Tomatsu)
Jun 10 Optical microscopy 1 (Hideji Murakoshi)
Jun 10 Optical microscopy 2 (Ryosuke Enoki)
Jun 17 Methodology in genome science (Yasuhiro Go)
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Jun 17</td>
<td>Methods for mammalian transgenesis (Masumi Hirabayashi)</td>
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<tr>
<td>Jun 24</td>
<td>Morphological methods (Yoshiyuki Kubota)</td>
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<tr>
<td>Jun 24</td>
<td>Cell biological methods (Yasushi Izumi)</td>
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<td>Jul 1</td>
<td>Optical methods to read and manipulate neural circuits (Masakazu Agetsuma)</td>
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<tr>
<td>Jul 1</td>
<td>Behavioral methods (Kenichiro Nakajima)</td>
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<td>Jul 8</td>
<td>Methods for sensory biology (Takaaki Sokabe)</td>
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<td>Jul 8</td>
<td>In vivo imaging of the human brain (Masaki Fukunaga)</td>
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Location: Zoom online

Language: Japanese


Related URL: [http://sbs.jp.nips.ac.jp/schedule/](http://sbs.jp.nips.ac.jp/schedule/)

Explanatory note on above URL: Please keep be updated on the latest schedule from "Schedule of the classes" on the program website.

Others: Pre-requisites: No particular background knowledge is required.

Keyword: SOKENDAI Integrative Brain Science Course