

Prof. Koji Fukui

Laboratory name

Molecular Cell Biology Laboratory

Keyword

Anti-Aging, Anti-Obesity, Oxidative Stress, Vitamin E, Mouse, Cultured Cell, HPLC, PCR, Western Blotting, ELISA, IHC

Tasks in the laboratory

There are two research groups in my lab.

One is animal experiment and second is cell culture. We always use C57BL/6 mice and measured cognitive and motor functions using several specific apparatuses. After measurement of cognition, we assessed protein, mRNA and enzyme activities using some techniques.

In the case of cell culture experiments, one big project is about axonal degeneration. We are focusing on mitochondrial dysfunction, collapse of calcium homeostasis, and microtubule disruption. These experiments deeply relate to the onset of neurodegenerative disorders.

Program period

More than 2 months

Eligibility-school year

- Third year undergraduate
- Fourth year or higher undergraduate
- First year master degree
- Second year or higher master degree
- First year doctoral degree
- Second year doctoral degree
- Third year or higher doctoral degree

Eligibility-student's major/fields

- Mechanical
- Chemistry
- Material
- Electrical
- Electronic
- Computer Science
- Lifescience
- Mathematical
- Civil Engineering
- Architecture
- Engineering and design

Required skills

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Desired skills (Preferred skills)

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URL: https://www.shibaura-it.ac.jp/en/research/lab/systems/bioscience/koji_fukui.html

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