

## Understanding the cognitively regulatory basis of food value that controls feeding behaviors

Project manager

KIDA Satoshi. PhD.

Graduate School of Agriculture and Life Sciences. The University of Tokvo



Leader's institution The University of Tokyo

R&D institutions

The University of Tokyo

## Summary of the project

This project aims to elucidate the mechanisms by which favorite foods induce positive emotions such as pleasure and empathy with others, and food values are experiencedependently changed and develop a technology to improve food preference to enable enjoying eating healthy food, by using a rodent model from a neuroscientific viewpoint. Because our eating habits can sometimes cause diseases although food satisfies the mind through pleasure and improving health-conscious eating habits can cause mental distress. This project will try to achieve the goal of "increasing mental comfort and vitality" from the viewpoint of food.

## Milestone by the end of the project (2024)

To develop fundamental technologies to achieve mental well-being through the enjoyment of healthy food.

## Project structure

We will understand the mechanism by which food experience changes food preferences in mice (right figure 1) and the mechanism by which feeding preferred food generates positive emotions in mice (Figure 2). We will develop a task to clarify changes in food preferences in humans (this will be

pre-study for understanding the mechanism by which humans make decisions about what to eat) (see Figure ③).



