



## Approved Animal Research Certificate

April 24, 2019

On behalf of the Animal Experiment Committee, University of Tsukuba, I would like to certify that we approved the following research project in accordance with the Regulation for Animal Experiment in University of Tsukuba, Fundamental Guidelines for Proper Conduct of Animal Experiment and Related Activities in Academic Research Institutions under the jurisdiction of the Ministry of Education, Culture, Sports, Science and Technology and the Law for the Humane Treatment and Management of Animals (Japanese Governmental Law No.105).

1. Title of the research project

Elucidation of the regulating mechanism between emotion and awake

2. Principal investigator

Name : Takeshi Sakurai

Title : Professor, Faculty of Medicine, University of Tsukuba

3. Approval number

18-173

4. Date of approval

June 1, 2018

A handwritten signature in black ink, appearing to read 'F. Sugiyama', written over a horizontal line.

Fumihiro Sugiyama, PhD

Chairman of Animal Experiment Committee

University of Tsukuba