



Therapeutic Effects of Artificial Hibernation on Various Brain Disorders

Towards application in human patients

教授からのコメント /

COMMENT FROM PROFESSOR

« Artificial hibernation, or cold sleep, is expected to play an indispensable role for space travels in the near future.

Surprisingly, we found artificial hibernation itself has therapeutic effects on various brain disorders such as epileptic seizure or brain damages.

We aim to establish the therapeutic method by expanding our research projects. »

研究概要 / SUMMARY

Recently, artificial hibernation in non-hibernating animals has been established, and significant expectations have emerged for its application in human.

Through studies evaluating its impact on higher cognitive functions including memory, Memory Research Unit made a serendipitous discovery that artificial hibernation has therapeutic effects on various brain disorders.

In this project, we aim to reveal the full extent and the mechanism of the effects.

寄附金の使途 / USE OF DONATIONS

We will use donations to purchase research equipment and supplies to evaluate the therapeutic effects and measure brain activities.

寄附金の特典 / BENEFITS

1. Acknowledgements on our published papers.
2. Invitation to Memory Research Unit at OIST.
3. Interviews with Professor Tanaka and the unit members



Dr. Kazumasa Z. Tanaka
Assistant Professor
Memory Research Unit

Ph.D. in Psychology from the University of California, Davis, 2015
After 5 years of postdoctoral research in RIKEN Center for Brain Science, I started my own unit at OIST.