



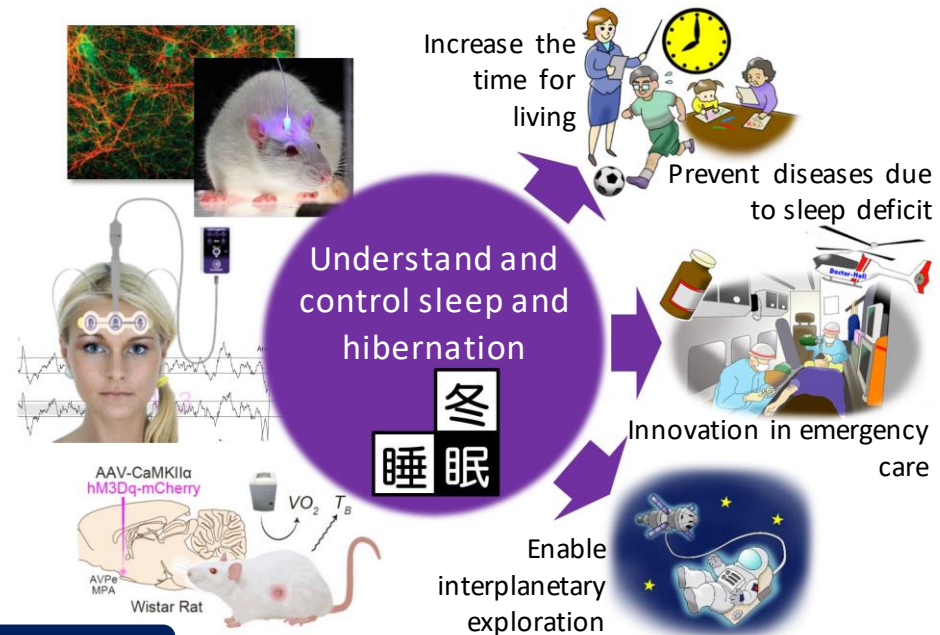
# 「Development of innovative medical care systems through customizing sleep and hibernation」

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## Outline of P&D Project

Through elucidating the neurophysiological roles and regulatory mechanisms for two immobile modes of animal behavior, sleep and hibernation, we will develop technologies to control sleep and induce hibernation in humans, transforming the future medicine. Induced hibernation will be a step forward to space expedition, a dream of humankind.



## Expected Breakthroughs by 2040

- Technology to control homeostatic setpoint of sleep
- Methods to prevent diseases caused by sleep deficit
- Disease risk prediction and prevention driven by big data of people's sleep
- Nation-wide sleep medicine network covering natural disasters
- Induced hibernation in humans