

# UPDATE FROM THE CUTTING EDGE

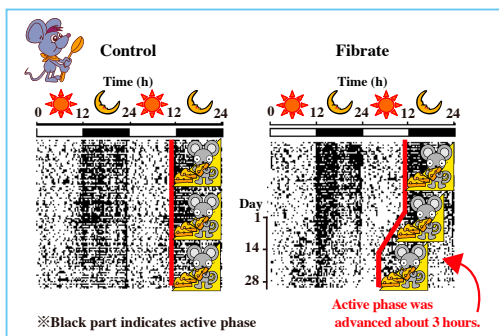
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The abstracts of the recent research information appearing in Vol.7 No.7-9 of "AIST TODAY" are introduced here, classified by research area.

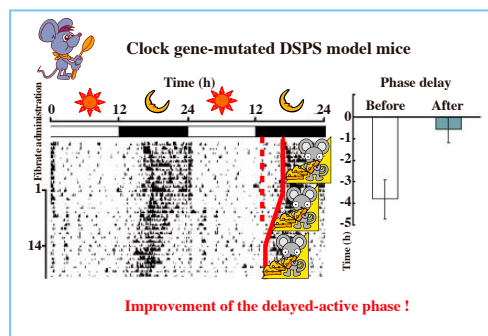
For inquiry about the full article, please contact the author via e-mail.

## Hypolipidemic drugs regulate the circadian clock

We found that fibrate, a hypolipidemic drug, has a strong potential to treat sleep disorders. Delayed sleep phase syndrome (DSPS) is a circadian rhythm sleep disorder characterized by extreme evening preference. We discovered that fibrate administration affects the circadian clock and normalizes the phase of circadian behavior of DSPS model mice. Nuclear receptor PPAR $\alpha$  could be a potent target of drugs to treat circadian rhythm sleep disorders including DSPS, because the fibrate is a specific ligand of PPAR $\alpha$ .



Fibrate administration advances the phase of circadian activity rhythm.



Phase-advancing effect of fibrate in mouse models of delayed sleep phase syndrome (DSPS)

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