

次世代の創薬ターゲット：疾患を理解・克服するための分子時計メカニズム  
Advanced target to drug discovery: molecular mechanism of circadian clock for understanding and overcoming of diseases

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S1B-2-1 がん細胞の抗がん剤感受性の日周リズム制御機構

**Basis for circadian sensitivity of cancer cells to chemotherapeutic agents**

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S1B-2-2 アレルギーの分子時計メカニズム

**Circadian regulation of allergic reaction by the mast cell clock**

○中尾 篤人

山梨大・医・免疫学

○Atsuhito Nakao

Dept. Immunol., Faculty Med., Univ. of Yamanashi

S1B-2-3 モデル動物を用いた冬季うつ病の病態解析と治療に向けた試み

**Toward understanding the pathophysiology and treatment of winter depression using an animal model**

○安尾しのぶ

九大・農

○Shinobu Yasuo

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S1B-2-4 概日時計の in vivo モニタリング法の開発と診断技術への応用

**In vivo monitoring of peripheral circadian clocks in the mouse**

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早大・先進理工・生理・薬理

○Yu Tahara, Shigenobu Shibata

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**Outline of Symposium**

In mammals, neuronal activity, metabolism, cell proliferation, and immune function are subject to a well-controlled daily rhythm, generated by an internal time-keeping system referred to as the circadian clock. Disruption of circadian clock is associated with a variety of diseases including cancers, diabetes, allergosis, depression, and cardiovascular disorders. Therefore, elucidation of the mechanism underlying the circadian clock-related diseases would provide new therapeutic strategies and/or novel approaches for development of medicines. In this symposium, we will bring together researchers studying on the mechanism of circadian clock-related diseases. The symposium would also provide novel therapeutic strategies and approaches for treatment of diseases.