



63rd RAP Seminar

The 63rd Seminar on RIKEN Center for Advanced Photonics

Language: Japanese

Date: **May 17(Fri) 16:00 - 17:00, 2019**

Location: **W319, 3F, Cooperation Center, Wako Campus, RIKEN**

(理研 和光キャンパス 研究交流棟 3階会議室 W319)

Title: **Disease systems biology research in IMS
and my cell signal study**

システム医科学研究と私の細胞シグナル研究

Speaker: **Dr. Tadashi YAMAMOTO**

Director, RIKEN Center for Integrative Medical Sciences (IMS)

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At the RIKEN Center for Integrative Medical Sciences (IMS), we aim to clarify the underlying mechanisms for the pathogenesis of human diseases and to translate this knowledge into novel therapies for the benefit of society. For this, IMS is promoting comprehensive multi-layered analysis of the genome, epigenome, proteins, lipids, cells, organs and individuals. IMS, through collaboration with Riken Medical Innovation Hub program, is statistically and mathematically analyzing the vast amounts of these advanced complex data. The results will be translated, as applicable to hospitals and other medical institutions. Having described this, I am personally interested in studying how homeostasis of our cells, tissues, and body is maintained, and I am addressing this issue by analyzing the molecular mechanisms that control mRNA expression. One of the recent findings is that our cells are destined to die upon abrogation of one particular protein that controls mRNA stability.

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