



第 399 回 つくば分子生命科学セミナー

TSUKUBA MOLECULAR LIFE SCIENCE SEMINAR

演題 : **Transcriptional Regulatory Mechanisms in Animal Cells**

演者 : Robert G. Roeder, PhD

Arnold and Mabel Beckman Professor

Laboratory of Biochemistry and Molecular Biology

The Rockefeller University, U.S.A.

日時 : 2014年11月25日 (火) 17:00-18:30

会場 : イノベーション棟 8 階講堂 (This seminar will be held in English)

要旨 : Transcriptional regulation by gene- and cell-specific DNA-binding factors underlies key physiological events in animal cells. However, their effects on specific genes depend upon complex arrays of cofactors (co-activators and co-repressors) that add additional layers of regulation. These cofactors include both chromatin remodeling/histone modifying factors (e.g., p300/CBP acetyltransferases and SET1/MLL methyltransferases) and other factors (e.g., Mediator, TAFs) that facilitate more direct communication between promoter-bound regulatory factors and the general transcription machinery. Emphasizing biochemical studies with cell-free systems reconstituted with purified transcription factors and either DNA or recombinant chromatin templates, as well as cell-based and mouse genetic analyses, the cooperative functions and mechanism of action of selected co-activators will be discussed in relation to gene regulation by selected activators (e.g., p53, E proteins, nuclear receptors, leukemic fusion proteins).

連絡先 : 筑波大学医学医療系 久武 幸司 (内線 3929、e-mail: kojihisa@md.tsukuba.ac.jp)

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