



# 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)

\* TSMC セミナーは、フロンティア医科学専攻 (修士)「医科学セミナーII」(担当: 久武 幸司)、生命システム医学専攻 & 疾患制御医学専攻 (博士)「最先端医学研究セミナー」(担当: 熊谷 嘉人、武川 寛樹) 及び「医学セミナー」(担当: 専攻各教員) の関連セミナーに相当します。

【筑波分子医学協会 (TSMC) 主催】 HP <http://www.md.tsukuba.ac.jp/public/tsmc/>

TSMC セミナー担当 筑波大学医学医療系 山下 年晴