



第 259 回つくば分子生命科学セミナー

TSUKUBA MOLECULAR LIFE SCIENCE SEMINAR

演題: Transcriptional Regulation in Animal Cells Through the Action of Diverse Cofactors

演者: Prof. Robert G. Roeder

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The Rockefeller University, New York, NY, U.S.A.

日時: 2007 年 12 月 17 日 (月) 17:00~18:30

会場: 筑波大学医学臨床講義室C

要旨: Eukaryotic protein-coding genes are transcribed by RNA polymerase II, in conjunction with general initiation and elongation factors, in response to various DNA-binding regulatory factors. Various biochemical and genetic analyses have implicated a variety of coactivators in transcriptional activation by these DNA-binding proteins. These coactivators include both chromatin remodeling/histone modifying factors (including various histone acetyltransferases and methyltransferases) and factors (such as the 30-subunit Mediator complex) that facilitate direct communication between promoter-bound activators and the general transcription machinery. We have employed biochemically defined cell free systems reconstituted with DNA or recombinant chromatin templates and purified factors to identify and to analyze both independent and cooperative functions of cofactors, as well as underlying mechanisms. The function of Mediator and selected histone modifying factors will be discussed in relation to gene activation by tumor suppressor p53 and by nuclear receptors.

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