



第 504 回つくば分子生命科学セミナー

TSUKUBA MOLECULAR LIFE SCIENCE SEMINAR

Title : Transcription factor control of identity in pluripotent and germline cells.

Speaker : Professor Ian Chambers

Institute for Stem Cell Research, School of Biological Sciences,
University of Edinburgh

Date : October 15, 2026 15:30-16:50

Venue : Medical Science Building 4F Room 483

Abstract

Transcription factors control mammalian cell identity but how they do so is not fully understood. Here I will discuss how pluripotency transcription factors, particularly NANOG regulate naïve pluripotent cell identity and entry of cells into the germline. I will focus on target genes and partner proteins required for NANOG function. I will also discuss how the sequence of the intrinsically disordered region of NANOG, referred to as the tryptophan repeat (WR) confers viscoelastic properties on NANOG. This will illustrate the residues required within the WR for function and for interaction with partner proteins.

本セミナーは、医学学位プログラム（博士）「医学セミナー」（担当：専攻各教員）、及び、フロンティア医科学学位プログラム（修士）「医科学セミナーII」（担当：入江賢児）の関連セミナーに相当します。

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