

NanoLSI & CRI joint seminar

Toward understanding transcriptional events deep inside the chromatin jungle

Yusuke Miyanari / 宮成 悠介
NanoLSI & CRI

Date 7/22 (Wed) 16:00 – 17:00
(WebEX online seminar)

Seminar LINK



Chromatin is organized in a non-random fashion within 3D nuclear space. During developmental processes, the nuclear architecture is dramatically reconstructed, resulting in the establishment of cell-type specific nuclear organization. Defects in structural components of the nucleus are responsible for developmental aberrations and several human diseases. Remodeling of the nuclear architecture leads to spatial arrangement of genes, which could affect genome functions including gene expression. We aim to reveal the role of chromatin dynamics in cell lineage-allocation by deciphering the molecular mechanisms underlying the remodeling of nuclear organization and their effects on developmental gene expression, using mouse early embryos and embryonic stem (ES) cells as model systems. In this seminar, I will present our recent studies to show how we tackle our questions.

Miyanari Y. et al, Nature, 2012

Miyanari Y. et al, Nat.Str.Mol.Bio. 2013

Kurihara M. et al, Molecular Cell, 2020

4月から金沢大学 ナノ生命科学研究所に加入しました。今は、がん研1Fに居候させてもらっています。エピジェネティックなどに注目して、リプログラミング時の転写制御について研究しています。お時間のある方はぜひ、オンラインセミナーを覗いてみてください。

宮成



Miyanari Lab HP



文部科学省共同利用・共同研究拠点

金沢大学 がん進展制御研究所

Cancer Research Institute of Kanazawa University

This seminar will be held in English.

Contact; miyanari_at_staff.kanazawa-u.ac.jp