

第 547 回 難研セミナー

第 120 回 難治疾患共同研究拠点セミナー

下記により難研セミナーを開催しますので、多数御来聴下さい。

記

日 時： H28 年 5 月 13 日（金） 17:00 ～ 19:00

場 所： M&D タワー22F 難研セミナー室

演 者： Dr. Robert Feil

(Institute of Molecular Genetics (IGMM),
University of Montpellier, Montpellier, France)

演 題： “Epigenetic mechanisms
in mammalian genomic imprinting”

要 旨： Hundreds of protein-coding genes and regulatory non-coding RNAs (ncRNAs) are controlled by the epigenetic phenomenon of genomic imprinting. Imprinted gene expression is mediated by unusual CpG islands called ‘imprinting control regions’ (ICRs). These acquire allele-specific DNA methylation imprints in either the male or the female germline, a process which is linked to transcriptional events. Several ICRs express mono-allelic long non-coding RNAs (lncRNAs) that mediate gene repression *in cis* through recruitment of Polycomb repressive complexes and the lysine methyltransferase G9A/EHMT2. In the disease-associated *DLK1-DIO3* domain on human chromosome 14/mouse chromosome-12, a lncRNA Gtl2/Meg3 plays a role for the imprinting of the protein-coding genes at the domain. Our current collaborative studies explore to which extent this phenomenon could be linked to higher-order chromatin configuration.

連絡先： エピジェネティクス分野 石野 （内線 4863）

共催： ゲノム病理学分野 石川