

昆虫先端研究推進センターセミナー

日時 : 6月27日(月) 13:00-14:00

場所 : 2号館4階 441号室

講演者 : Dr. Eric Lecuyer (Laboratory Director, RNA Biology Unit Institut de Recherches Cliniques de Montréal (IRCM), Montreal, CANADA)

Global approaches to study the subcellular localization properties of RNAs and RNA Binding Proteins.

The subcellular trafficking of RNA molecules is an important layer of gene regulation, implicated in a wide array of biological processes from yeast to humans. However, mRNA trafficking pathways and their broad impact on cellular function remain poorly characterized. The overall goal of our laboratory is to understand how mRNA localization impacts cellular organization. By combining the versatility of *Drosophila* genetics, high-resolution molecular imaging analysis, and functional genomics approaches, we aim to dissect the genetic pathways and molecular mechanisms that control mRNA trafficking and to assess their functional impact on the cell.

参考文献

1. Lecuyer E. et al., Global analysis of mRNA localization reveals a prominent role in organizing cellular architecture and function. **Cell** 2007, 131 (1) 174-187
2. Wang E.T. et al., Transcriptome-wide regulation of pre-mRNA splicing and mRNA localization by muscleblind proteins. **Cell** 2012, 150 (4) 710-724
3. Iampietro C. et al., Developmentally regulated elimination of damaged nuclei involves a Chk2-dependent mechanism of mRNA nuclear retention. **Dev. Cell** 2014, 29 (4) 468-481

6月28日(火)から7月2日(土)まで国立京都国際会館で開かれる RNA 2016 への参加に合わせ、セミナーをして頂くことになりました。

連絡先 : 昆虫先端研究推進センター 吉田英樹 (内線 7787)