

Journal club on “Stable Caenorhabditis elegans chromatin domains separate broadly expressed and developmentally regulated genes”

Presenter : Toshinori Namba

2016/11/11

Abstract:

Genomes are organized into domains of different structure and activity. The understanding of these domains formation and function are not enough. In this paper, the authors analyzed the *C.elegans* chromatin domain organization in two developmental stages (Early Embryo and L3 larvae). This domain was estimated by applying chromatin state mapping. This chromatin state map was generated by using histone modification data. Histone modification is an example of epigenetic regulation. Because I was interested in analysis methods about such epigenetic regulation, I studied this paper as an example.

The authors have separated the domain type from gene expression level in each domain, and they discussed the relationship between their domains.

References:

1. Evans, Kenneth J., et al. "Stable Caenorhabditis elegans chromatin domains separate broadly expressed and developmentally regulated genes." Proc. Nat. Acad. Sci. (2016): 201608162.