公開セミナー

日時：2017年9月15日　16:30~17:30

場所：図書館棟会議室G15

講演者：Luis G. Morelli (Biomedicine Research Institute of Buenos Aires, Argentina)

タイトル：Genetic oscillations in zebrafish segmentation clock cells

要旨　：
Cells generate, process and share information to orchestrate the patterning of tissues and organs during embryonic development. An interesting example is vertebrate segmentation, where the axis going from head to tail is subdivided into regular segments that will later form the vertebrae and other tissues. Segments form one by one with a very precise rhythm. It is thought that a gene regulatory network is responsible for this rhythm at the cellular level. At a local level, intercellular signaling communicates cells and synchronizes a collective oscillation. This collective oscillation produces gene expression waves that traverse the tissue and give rise to segments. In this talk I will discuss what we have learned about oscillations at the cellular level from an interdisciplinary approach that brings together experiment and theory.

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