

セミナーのお知らせ

Wakate-Initiative Seminar

Neuroendocrine control of *Drosophila* developmental timing and body size

演者： Prof. Michael B. O'Connor

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日時：2009年11月20日（金） 16:00－17:30

場所：（独）農業生物資源研究所大わし地区(つくば市大わし1-2)
管理棟2階 輪講室

Proper development of all multi-cellular organisms requires not only correct spatial control of cellular interactions, but also correct timing of specific developmental programs of gene expression. Alterations in the timing of developmental pathway activity can significantly affect developmental outcomes including body size, reproduction and aging. In insects, timing of developmental transitions, i.e. molting and metamorphosis, is mediated by 20-hydroxyecdysone (20E), a small circulating lipophilic steroid hormone that binds to and activates transcription factors of the nuclear receptor superfamily. In this presentation, I will describe how three major signaling pathways, prothoracicotropic hormone (PTTH), insulin, and TGF- β , converge within the insect endocrine organ to control hormone production and the timing of metamorphosis.

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