



CDB SEMINAR

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Friday, July 20, 2007

11:00~12:00 C1F Auditorium

Signaling pathways that regulate growth and development in the *Drosophila* wing imaginal disc

Summary

We study the mechanisms that pattern developing organs, focusing on the *Drosophila* wing and tracheal systems because of their ready accessibility to histological analysis and ease of genetic manipulation. Our specific interests are the mechanisms cells use to communicate over long distance to regulate growth and patterning. We have proposed that cells make direct contact via filopodial extensions, even over long distance, and that the cell-cell signaling that regulates growth and patterning is mediated at these sites of contact. Data relevant to this model, to mechanisms involved in signal transduction by signaling proteins, to general considerations of how signaling proteins function, and to the development of the wing disc and tracheal system will be presented.

Host:

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