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48th annual meeting organizing committee

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48th Annual Meeting of the
**Japanese Society of
Developmental Biologists**
Co-sponsor: Asia-Pacific Developmental Biology Network

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HOME
Information
Schedule and Program
Instruction for Presentations
Registration
Sponsors and Exhibition
About Tsukuba
Hotel Accommodation
About Nursery
JSDB Travel Fellowship and VISA
Abstract Search

48th Annual Meeting of the
Japanese Society of
Developmental Biologists
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June 2 (Tue) - June 5 (Fri), 2015

Venue [Tsukuba International Congress Center \(Tsukuba, Ibaraki\)](#)

President [Hiroshi Wada \(University of Tsukuba\)](#)

Language June 2 (in Japanese and English)
June 3-5 (in English)

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Click on "Program" from the menu bar on the left side of the page.

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Click Here !
"Schedule
and Program"

ME
Information
Schedule and Program
Instruction for
Presentations
Registration
Sponsors and Exhibition
About Tsukuba
Hotel Accommodation
About Nursery
JSDB Travel Fellowship
and VISA
Abstract Search

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June 2 (Tue) - 4 (Thu), 2015, International Congress Center (Tsukuba)
Main Venue
Plenary Lecture
Poster Presentation
Abstract Search

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Title click !

Plenary Lectures

May 20 (Fri) 9:00-11:30 Room A
Plenary Lectures
Chairpersons: Tesuya Tabata (Univ. of Tokyo), Shinya Nakagawa (RIKEN)

PL-01: **Hedgehog Signaling in Development and Disease**
09:00-10:15 Matthew Scott (Stanford University School of Medicine)

PL-02: **The development of the rod and cone photoreceptors in zebrafish retinas**
10:15-11:30 William Harris (University of Cambridge)

▲ Go to top

Symposia

DATE: May 19 (Thu) 9:00~11:30 Room A
Symposium1: Neural Development: from circuits to behavior

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[PL-01]
Hedgehog Signaling in Development and Disease

*Matthew Scott
(Stanford University School of Medicine)

The development of numerous tissues and organs depends on Hedgehog (Hh) protein signals that influence gene expression in target cells. Defective Hh signaling leads to birth defects and cancer. We are investigating Hh signal transduction and gene expression mechanisms in the context of cultured fibroblasts and cerebellum development. In the context of cultured fibroblasts, the Hh protein signal has many unique features. In the context of cultured cerebellum cells, the Hh signal transduction organelle, the primary cilium, is essential for Hh signaling. In cultured cerebellum cells, we have observed direct binding of Hh protein to the cilium. We find that the primary cilium is essential for Hh signaling in cultured cerebellum cells. We are exploring the mechanisms of protein trafficking and target gene activation in cultured cerebellum cells. We are characterizing direct Hh target genes in responsive cerebellum granule neuron precursors and in the medulloblastoma tumors that arise from the precursors when Ptc function is reduced.

Signaling in development

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