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44th annual meeting organizing committee

The online abstract book is only available for viewing for meeting participants and JSDB members.

Access the Meeting website
(<http://www.jsdb.jp/kaisai/jsdb2011/index-e.php>)

The screenshot displays the official website for the 44th Annual Meeting of the Japanese Society of Developmental Biologists. The page features a header with the JSDB logo and the meeting title. A navigation menu on the left lists various sections such as Home, Information, Program, Registration, and Abstract Search. The main content area provides key details: the dates (May 18-21, 2011), the venue (Okinawa Convention Center), the chairperson (Ichiro Masai), and the languages used (English and Japanese). It also lists the plenary lectures by Matthew P. Scott and William A. Harris. The bottom of the page includes logos for sponsors like PDBN, JSDB, and Aquatic Habitats, along with a copyright notice for 2011.

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

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44th Annual Meeting for
the Japanese Society of Developmental Biologists
(Sponsor: the Asia-Pacific Developmental Biology Network)

Dates: May 18 (Wed) - May 21 (Sat), 2011
Site: Okinawa Convention Center (Okinawa)
Chairperson: Ichiro Masai
(Okinawa Institute of Science and Technology Corporation)
Language: May 19 - 21 (English)
May 18 (Japanese)

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44th Annual Meeting of the
Japanese Society of

Scroll through the program page and click on a program title of interest.

Title click !

Plenary Lectures

May 20 (Fri) 9:00-11:30 Room A
Plenary Lectures
Chairpersons: Tesuya Tabata (Univ. of Tokyo), Shigeru 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 tectum and zebrafish retinas**
10:15-11:30 William Harris (University of Cambridge)

Symposia

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

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44th Annual Meeting of JSDB

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(either as a presenter or as an observer)

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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. Hh signaling is initiated by the binding of Hh protein to its receptor, Patched 1 (Ptch1). In the absence of Hh, Ptch1 inhibits the activity of Smoothened (Smo), a transmembrane protein. Upon Hh binding, Smo is activated and translocates to the cell nucleus, where it interacts with Gli3, a transcription factor. This interaction leads to the activation of Gli3, which then translocates to the nucleus to regulate gene expression. We have found that in cerebellum development, Hh signaling is essential for the proliferation and differentiation of granule cell precursors. We are currently investigating the mechanisms of Hh signaling in the context of cerebellum development and disease.

Signaling in development

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