

HOW TO VIEW THE ONLINE ABSTRACT BOOK

55th annual meeting organizing committee

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

Access the Meeting website
<http://www2.jsdb.jp/kaisai/jsdb2022/>



The screenshot shows the homepage of the meeting website. The main title is "55th Annual Meeting of the Japanese Society of Developmental Biologists". On the left, there is a sidebar with a map of Japan and a vertical menu with links: HOME, Annual Meeting (which is highlighted in blue), Welcome Message, Information, Schedule and Program, About World Cafe, Participation, and Registration. The main content area displays a table with the following information:

Dates	May 31- Jun 3, 2022
Venue	Kanazawa Bunka Hall (in Japanese) Access : https://www.bunka-h.gr.jp/access/
Chair	SATO, Makoto (Kanazawa University)
Language	May 31 (in Japanese and English) June 1-3 (in English)
Poster	Can be downloaded from here
Satellite event	JAPAN-SINGAPORE JOINT DEVELOPMENTAL BIOLOGY MEETING (ONLINE) 2022 "MILLISCAL PATTERNING IN DEVELOPMENT"

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



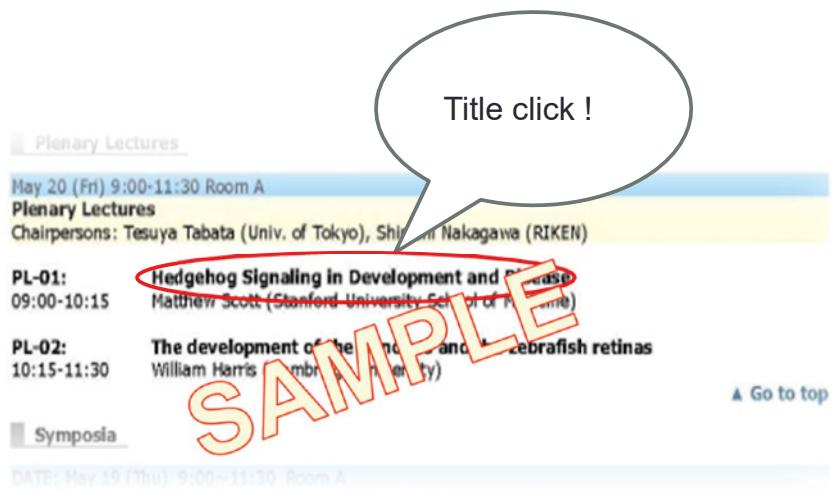
Click Here !
“Schedule
and Program”

**55th Annual Meeting of the
Japanese Society of Developmental Biologists**

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



Plenary Lectures

May 20 (Fri) 9:00-11:30 Room A

Plenary Lectures

Chairpersons: Tesuya Tabata (Univ. of Tokyo), Shigemoto Nakagawa (RIKEN)

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

PL-02:
10:15-11:30 **The development of the mouse and zebrafish retinas**
William Harris (Imperial College London)

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44th Annual Meeting of JSDB

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(either as a presenter or as an observer)

User ID: (Example: knXXXXXX or enXXXXXX)
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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 regulation mechanisms in the context of cultured fibroblasts and cerebellar development. In tumors, gene reception and transduction of the Hh protein signal has many unique features. In the developing cerebellum, the primary cell as a Hh signal transduction organelle. Purkinje cells, which innervates four cerebellar layers, most cells have been implicated in several signaling pathways. We have observed direct binding of Hh protein to them. We find that the receptor, Smoothened, is localized to the primary cell cilia, where it prevents accumulation of the Gli transcription factor. We also find that the binding of Hh to Ptc causes departure of both from the primary cell cilia. Smoothened is able to activate Gli transcription factor, which in turn control target gene expression. Using tagged proteins, and mutants that affect signaling, we are exploring the mechanisms of protein trafficking and target gene activation. 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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