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55th annual meeting organizing committee

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55th Annual Meeting of the Japanese Society of Developmental Biologists

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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 "MULTISCALE PATTERNING IN DEVELOPMENT"

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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 inner ear and zebrafish retinas
10:15-11:30 William Harris (University of Cambridge)

Symposia

DATE: May 19 (Thu) 9:00-11:30 Room A

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44th Annual Meeting of JSDB

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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 involves the formation of a signaling complex in which the Hh protein signal has many unique features. Primary cilia as a Hh signal transduction organelle. Primary cilia in mammalian cells, have been implicated in several signaling pathways. We have observed direct binding of Hh protein to the primary cilia, where it prevents accumulation of the transcription factor Gli3. In the absence of Hh to Ptc causes departure of both Gli3 and Smo from the cilium. Smo in the cilium is able to activate Gli transcription factors to control target gene expression. Using tagged proteins, and mutants that affect primary cilia, 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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