HOW TO VIEW THE ONLINE ABSTRACT BOOK

53rd 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/jsdb2020/

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

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

A popup screen will appear, asking for your ID and password. Enter the ID that was sent to you when you registered (en00xxxx or kn00xxxx) along with your password, and then you will be able to view the abstract. For JSDB members, you can view the abstract by entering your membership ID (081-XXXXXXX) and password.

44th Annual Meeting of JSDB

Please use the user ID and password that were e-mailed to you to confirm your registration.
(either as a presenter or as an observer)

User ID: _____ (Example: knXXXXXX or enXXXXXX)
Password: _____

[authenticate]

If you would like to view other abstracts, return to the program page and click on other program titles of interest.

[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 transcription mechanisms in the context of cultured fibroblasts and cerebellum development. Reception of the Hh protein signal has many unique features. Reception of the Hh protein signal has many unique features. Primary cilia, found on most cells, have been implicated in several aspects of Hh signaling. Observed direct binding of Hh protein to them. We find that the receptor Patched is in cilia, where it prevents accumulation of the transducer Smoothened. Binding of Hh to Ptc causes departure of both from the cilium, allowing Smo to enter. Smo in the cilium is able to activate Gli transcription factors to control target gene expression. Using tagged proteins, and mutants that affect signal, 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

Page Copyright (C) Japanese Society of Developmental Biologists All Rights Reserved.

[Close]

If you logout, you will need to reenter your ID and password to view the abstracts.