Mercredi 5 Mai 2010 11h00

Auditorium IGBMC

Séminaire Prof. Dr. Danny Huylebroeck.

Diverse functions and action modes of Smad-interacting proteins in vertebrate embryos.

Prof. Dr. Danny Huylebroeck,
Laboratory of Molecular Biology (Celgen), Center for Human Genetics, University of Leuven, and Department of Molecular and Developmental Genetics (VIB11), Flanders Institute for Biotechnology (VIB.

Smad effector proteins mediate TGFbeta family signalling in various ways and the Smad pathway is regulated at multiple levels in ligand-stimulated cells, including by a large number of different Smad-interacting proteins (SIPs). We study the functions and action mechanisms of a number of nuclear SIPs during activin/nodal or BMP controlled processes in vertebrate embryogenesis and in mouse embryonic stem cells, and aim at taking these studies towards human disease. This will be illustrated briefly through our studies on Smicl (in Xenopus) and Ttrap (in zebrafish) and discussed more in detail with our recent work on the zinc finger transcriptional repressor Sip1/Zfhx1b in the mouse.

Host : Yann Hérault

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