Tuesday April 1st, 2014

10.00am

Vincenzo SORRENTINO
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“IDOL-izing cholesterol”

Hosts: Kristina Schoonjans and Johan Auwerx

Conference Room (changed!): AI 1153 (*)
EPFL - Lausanne

Abstract
Elevated levels of plasma Low-Density-Lipoprotein cholesterol (LDL-C) represent a major risk factor for development of atherosclerosis. Owing to its ability to promote LDL uptake into cells the LDL receptor (LDLr) is an important determinant of plasma LDL level and is a target for human cardiovascular therapy. The LDLr abundance is tightly regulated both on transcriptional and post-transcriptional level, and recently the E3-ubiquitin ligase IDOL was identified as a novel modulator of the LDLr. Acting as an E3 ligase, IDOL supports ubiquitylation of the LDLr on its protruding intracellular tail thereby targeting it for lysosomal degradation, therefore impairing the uptake of LDL in the cell. My talk will focus on the work I carried out on the characterization, regulation and functional implications of this novel regulatory pathway in cholesterol homeostasis.

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(*) IMPORTANT NOTICE: All external participants have to pass through SV Reception/Welcome Desk to be able to access to AI 1153. Contact person to call at arrival at SV Reception Desk: Johan Auwerx 30951 / Administrative Assistant: 39522.