LAUSANNE INTEGRATIVE METABOLISM AND NUTRITION ALLIANCE (LIMNA)

Tuesday May 12, 2015 -- 10.00am
Conference Room: AI 1153 (*) EPFL – Lausanne

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“The role of the Nrf2 transcription factor in liver homeostasis and regeneration”

Hosts: Kristina Schoonjans and Johan Auwerx

Abstract
“Oxidative stress inhibits liver regeneration and plays a crucial role in the development of chronic liver disease. As pharmacological activation of the antioxidant Nrf2 transcription factor is a promising strategy to prevent toxin-induced liver damage, we aimed to study effects of continuous Nrf2 activation in the liver. We analysed mice expressing a constitutively active Nrf2 mutant in hepatocytes and found unexpected deleterious effects on liver regeneration. Furthermore, we generated mice lacking both Nrf2 and p65/RelA signalling in hepatocytes to identify potential complementary cytoprotective functions. These mice developed spontaneous liver inflammation and fibrosis, providing evidence for a functional interaction of Nrf2 and NF-kB signaling in the liver in vivo.”

(*) IMPORTANT NOTICE: All external participants have to pass through SV Reception/Welcome Desk to be able to access to AI 1153.
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