

Friday February 14 , 2020- 11h00
Conference room AI 1153* - EPFL - Lausanne

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“Systemic Inactivation of Hypoxia-Inducible Factor Prolyl 4-Hydroxylase 2 in Metabolism and Liver Diseases.”

Host: Prof. Kristina Schoonjans

Abstract

Activation of the hypoxia response pathway leads to metabolic reprogramming in cells and tissues, which associates with a lower risk of cardiovascular diseases and obesity in people living at high altitude. Therefore, the *Hif-p4h-2* inhibition induced HIF stabilization provides interesting opportunities to study its potential in liver diseases, often associated with the above-mentioned conditions. Our research group has shown that *Hif-p4h-2* inhibition protects mice against metabolic disorder. Therefore, we set out to investigate the effects of genetic and pharmacologic inhibition of HIF-P4H-2 in AFLD and NAFLD. Moreover, it was of interest to study whether this protection against fatty liver would result in less liver cancer at old age, or alternatively, since intratumoral HIF stabilization associates with mortality in cancers, whether chronic HIF-P4H-2 inhibition would support cancer development, and lead to a reduced life span.

(*) 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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