

TWINCORE - Seminar

Tuesday March 8th, 2016, 5 p.m. TWINCORE Lecture Hall

"The dual role of type III interferon in the antiviral defense and control of pathogenic inflammation"

Prof. Rune Hartmann

Type III interferons (IFNs) or IFN λ s regulate a similar set of genes as type I IFNs, but where type I IFN acts globally, IFNLs primarily target mucosal epithelial cells and protect them against the frequent viral attacks that are typical for barrier tissues. Type III IFNs also exhibit a strong antiviral effect on the human liver and has potent anti HCV effect. However, the recently discovered IFN λ 4 isoform has dual actions: It impairs the clearance of hepatitis C virus and fundamental change the inflammatory responses in the liver. The effects of IFN λ 4 extend beyond viral hepatitis and may play an important role in non-viral inflammatory disorders of the liver.

Who is Rune Hartmann?

- Associated Professor Dept. of Molecular Biology and Genetics, Aarhus University,
- Before: Post-doctoral research fellow at the Cleveland Clinic and Case Western Reserve University, Cleveland Ohio (laboratory of Vivien Yee).
- "2001 Milstein Young Investigator Award." Rewarded by "The International Society for Interferon and Cytokine Research",
- Scientific interest: Mechanism of IFN λ signaling, role of IFN λ in viral diseases and therapeutic application of IFN λ .

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