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ICGEB International SEMINAR PROGRAMME 2018

Friday, 16 March 2018 | 12:00 noon | ICGEB Seminar Room, W building | Padriciano, 99, Trieste, ITALY



Lutz HEIN

*Institute of Experimental and Clinical
Pharmacology and Toxicology,
University of Freiburg, GERMANY*

Signal transduction mechanisms, transcription factors and non-coding RNA networks essential for differentiation and remodeling of cardiac myocytes in disease have been uncovered. However, reshaping of the epigenome of human cardiac myocytes during fetal development, postnatal maturation and in disease remains only partially known. This seminar will provide insight into recent developments into mechanisms and dynamics of DNA methylation, histone modifications and chromatin structure in cardiac myocytes in vitro and in vivo. Prenatal development and postnatal maturation are characterized by a cooperation of active DNA methylation and histone marks at cis-regulatory regions to shape the cardiac myocyte transcriptome. Notably, cardiac myocytes contain more than 100,000 cis-regulatory regions which can be identified by their epigenome signature. One important challenge is to identify the interactions and molecular players connecting regulatory regions with cardiac myocyte genes in heart development and disease.

“Dynamics of the epigenome in cardiac myocyte development and disease”

Host: M. Giacca

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Open event - Free entrance



More information at:

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