LECTURE SERIES 2023

CANCER RESEARCH

LUXEMBOURG INSTITUTE OF HEALTH | UNIVERSITÉ DU LUXEMBOURG

16 Nov 2023

Thursday

LECTURE*

11.00am - 12.00pm

MEET & EAT

Light lunch provided

12.15pm - 2.00pm

7 8 9 10 11 12 1 2 3 4

Towards a healthy heart - cell by cell, and nucleotide by nucleotide

ABSTRACT

My laboratories at EMBL and Stanford University aim to uncover the molecular mechanisms of dilated cardiomyopathy (DCM), a severe disease of the heart for which no effective treatment exists. To this end, we develop novel experimental approaches to read, edit, and write entire genomes across scales. This provides unique insights into the genetic basis of complex phenotypes, the mechanisms of gene regulation, and the molecular systems underpinning disease. For example, use novel single-cell technologies, such as single-cell transcriptomics and single-cell phenotyping to dissect the genetic networks underlying DCM and identify targets for developing new therapies. We now begin to assign functions to every nucleotide in our genome, an approach that will transform the way we do biomedical research. This will eventually lead us to an era in which we can reliably predict disease risk from genetic and environmental information alone, and develop new strategies for preventive medicine.
steinmetzlab.embl.de
steinmetzlab.stanford.edu

SPEAKER

Prof. Dr Lars Steinmetz

Associated Group Leader and Director of Life Science Alliance, EMBL Heidelberg, Germany
Dieter Schwarz Foundation Professor of Genetics, Stanford University, USA
Co-Director, Stanford Genome Technology Center, Stanford, USA

HOST:

Department of Life Science and Medicine (UL)

RESPONSIBLE SCIENTIST:

Prof. Dr Stephanie Kreis / (stephanie.kreis@uni.lu)

***Please note that registration is mandatory by sending an email to siu-thinh.ho@lih.lu**

Locations:

Lecture:	**Meet & eat*:**
CHL - Centre Room Amphitheatre	DoCR Room McClintock (2nd floor)
4, rue Nicolas Ernest Barblé, L-1210 Luxembourg (Belair)	*6A, rue Nicolas-Ernest Barblé, L-1210 Luxembourg*

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