NUCLEAR ARCHITECTURE, LIPIDS, AND PHASE SEPARATION

The aim of the workshop is to provide insight into state of the art methods and data available about precise localization and metabolism of nuclear lipid-containing structures, as well as to discuss the diverse functional implications of these nuclear molecular assemblies in gene expression. The discussion will include lipid-containing nuclear compartments (nuclear envelope, lipid islets, lipid droplets) as well as regulatory functions of individual lipid molecules.

24 - 25 OCTOBER, 2019
Institute of Molecular Genetics CAS, Prague, Czech Republic

speakers:

Lucio Ildebrando Cocco
Roland Foisner
Toyoshi Fujimoto
Masahiko Harata
Pavel Hozak
Alwin Köhler
Ulrike Kutay
Heinrich Leonhardt
Aurélia E. Lewis
Nadir M. Maraldi
Sascha Martens
Ohad Medalia
Christian Schöfer
Yaron Shav-Tal
Jovana Vasiljevic
Sina Wittmann
and others

organizers

Pavel Hozak, Institute of Molecular Genetics CAS & Ohad Medalia, University of Zurich

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A special attention will be given to the multidisciplinary approach including light and electron (cryo)-microscopy, lipid chemistry and biophysics, addressing the mechanotransduction and phase separation events in the nucleus with the potential to form novel views on functions of macromolecular assemblies in the nucleus and nucleoplasmic lipids. The workshop will form a discussion platform across specializations and facilitate new interactions and collaborations in this emerging field.

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