

International Symposium:

"Spatial-temporal genome regulation in stress- response and cell-fate change"

Lecture Hall and Virtual,

BIOMEDICAL RESEARCH AND STUDY CENTRE (BMC), RIGA

July 25th, 2022

Programme (Riga time)

- 09:00 Ieva Pranka, Baltisch-Deutsches Hochschulkontor: **Opening and welcome**
- 09:05 J. Erenpreisa, Riga, and M.Hausmann, Heidelberg: **Welcome**
- 09:10 J. Erenpreisa, Riga: **Genome regulation by positional information: in space and time**
- 09:50 M. Falk, Brno and Heidelberg: **How nanoscale chromatin architecture and chromatin topology within the cell nucleus participates in cancer development – an example of pathogenesis of three different leukemia types**
- 10:30 Coffee Break
- 10:50 Felikss Rūmnieks, Riga: **Scale-free organisation of pericentric chromatin domains in MCF-7 breast cancer nuclei**
- 11:10 Michael Hausmann, Heidelberg: **From Schrödinger's cat to his chromosomal aperiodic crystal and what an irradiated cell nucleus "thinks" about it**
- 11:50 K. Salmina, Riga, Poster Presentation (Flashtalk): **Spatial relationship between ribosomal and mRNA transcription/splicing conveyer, nuclear lamin rigidity, and actin cytoskeleton tension**
- 12:00 Lunch Break and walk (Restaurant „Lido“, Imanta)
- 14:00 A. Guiliani, Rome: **The guardians of stability are the same that initiate revolutions: the peculiar character of gene expression dynamics**
- 14:40 G.Hildenbrand, Heidelberg: **Sequence Composition and 3D Genome Structure**
- 15:20 Coffee Break
- 15:40 N.M. Vainshelbaum, Riga: **Circadian clock and cancer**
- 16:00 K. Yoshikawa, Kyoto: **Change of the higher-order structure in DNA causes significant effect on genetic activity: a physical view.**
- 16:25 Final Discussion and closing remarks
- 17:00 End

Virtual Participation via: https://meet.jit.si/Spatial-temporal_genome_regulation

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