KEMIJSKI INŠTITUT

Vabilo na Forum40 / Invitation to the Forum40

Dr. Klara Kuret Hodnik

Department of Molecular Biology and Nanobiotechnology

Torek / Tuesday, 2. 6. 2026 ob / at 13:00
Velika predavalnica Kemijskega inštituta / Great Lecture Hall

WEBEX
https://ki-ljubljana.webex.com/ki-ljubljana/j.php?MTID=mf6cef5ef2646dca271abb319e53efccf
Meeting number: 2731 607 3251
Meeting password: tDk23eHpCB3

Unveiling the roles of RNA-binding proteins in gene-expression control with transcriptomics

Gene expression is regulated at both the transcriptional and post-transcriptional levels, with RNA-binding proteins (RBPs) serving as key regulators of RNA splicing, stability, localisation, and translation. Dysregulation of RBPs has been increasingly associated with neurodegeneration and cancer, where abnormal RNA processing disrupts gene expression and contributes to pathogenicity. By integrating RBP binding-site profiling, transcriptomics, and bioinformatics, we examine the mechanisms by which RBPs modulate gene expression across various biological contexts. In this lecture, we will highlight our findings on signalling-dependent RBP regulation in early embryonic development, and on the post-transcriptional remodelling of gene expression by RNA-protein condensates in proteotoxic stress.

Vljudno vabljeni / Kindly invited