Univerza v Ljubljani

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VABILO NA PREDAVANJE V OKVIRU DOKTORSKEGA ŠTUDIJA KEMIJSKE ZNANOSTI / INVITATION TO THE LECTURE WITHIN DOCTORAL PROGRAMME IN CHEMICAL SCIENCES

Assist. Prof. Dr. Sebastian J. Pomplun

Drug Discovery, LACDR Leiden University, The Netherlands

z naslovom / title: Targeting disease related nucleic acids with novel chemical modalities

v sredo, 28. 2. 2024 ob 15. uri / on Wednesday, 28. 2. 2024 at 15.00 v predavalnici 1 v 1. nadstropju Fakultete za kemijo in kemijsko tehnologijo, Večna pot 113 / in lecture room 1, 1st floor at the Faculty of Chemistry and Chemical Technology, Večna pot 113

Vljudno vabljeni! / Kindly invited!

Abstract:

Nucleic acids play pivotal roles in vital life processes, and their dysregulation is associated with numerous diseases. Despite this, therapeutic targeting of nucleic acids or their binding proteins has been challenging, as they are often deemed 'undruggable' by conventional small molecule approaches. In this study, we introduce innovative synthetic modalities tailored to address disease-associated RNA and cancer-related transcription factors. These modalities are enhanced mimics of natural proteins, crafted using advanced synthesis and bioconjugation techniques. We have also devised a robust combinatorial discovery platform capable of screening hundreds of millions of variants efficiently. Our findings underscore the potential of synthetically improved biomimetics as promising tools for targeting disease-involved nucleic acids.