KEMIJSKI INŠTITUT

Vabilo na Forum40 / Invitation to the Forum40

Dr. Maria Orehova

Slovenian NMR Centre

Četrtek / Thursday, 14. 5. 2026 ob / at 13:00
Velika predavalnica Kemijskega inštituta / Great Lecture Hall

WEBEX
https://ki-ljubljana.webex.com/ki-ljubljana/j.php?MTID=m32153ce92bcc38345ec36ca200149d39
Meeting number: 2794 977 5342
Meeting password: DwBXk7M5Hm5

NMR approaches to structural studies of therapeutic oligonucleotides

Development of oligonucleotide therapeutics is one of the fastest-growing fields in pharmaceutical chemistry. Structural characterization, e.g., by NMR, is essential to connect their function and therapeutic effects with characteristics such as conformation and stability. These characteristics are tuned by certain chemical modifications designed to enhance target binding and resistance to degradation in biological systems. We synthesize potential therapeutics using automated oligonucleotide synthesis. NMR allows us to study their secondary structures in solution, and to understand their molecular behavior under near-physiological conditions. This can lead to an improved design resulting in a greater overall therapeutic performance.

Vljudno vabljeni / Kindly invited