



KEMIJSKI INŠTITUT

**Vabilo na Forum40 / Invitation to the Forum40**

**Dr. Maja Marušič**

D15, Slovenian NMR centre

**Četrtek / Thursday, 22.4.2021 ob / at 13:00 / on WEBEX**

<https://ki-si.webex.com/ki-si/j.php?MTID=mf4d416830bee5b975e69181dc3130827>

Meeting number (access code): 163 798 8936

Meeting password: TTwyGn2QK23

## **Molecular motions revealed by NMR**

Characterization of dynamics of nucleic acids is less common than for proteins, where detection of flexible regions is routinely performed and correlated with functional states. In the recent years, however, a number of cellular processes driven by intrinsic dynamics of nucleic acids have been revealed. NMR is particularly well suited for detection and characterization of conformational changes, as different NMR methods uncover exchange in time range from nanoseconds to hours and offer detailed information about structure of alternative conformers in form of chemical shifts. We will discuss various NMR experiments for detection of nucleic acids dynamics and insights they offer into how DNA and RNA molecules adopt alternative structures in order to perform their function.



**Vljudno vabljeni / Kindly invited**