



Slovenian NMR Centre

@ National Institute of Chemistry

vabi na **PREDAVANJE**:

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z naslovom:

Determination of the stoichiometry of G-quadruplex nucleic acids by mass spectrometry: a primer

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v Veliki predavalnici na Kemijskem inštitutu, Hajdrihova 19, Ljubljana

Kratek povzetek:

This tutorial lecture will explain how we study nucleic acid assemblies, and G-quadruplex nucleic acids assemblies in particular, using mass spectrometry. The mass provides unambiguous information on the stoichiometry of the complexes: number of strands, number of metal cations bound, number of ligands bound. However, there are tricks and pitfalls to be aware of to make sure that the mass spectral data faithfully reflect the solution phase situation, and the most important ones will be explained. The talk will be illustrated by recent studies on (1) the determination of strand stoichiometry in long d(TGnT) sequences, with n up to 20, on (2) the determination of cation trapping into parallel and antiparallel G-quadruplexes, and on (3) ligand-induced G-quadruplex formation.

Predavanje bo v angleščini.

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