



# Slovenian NMR Centre

@ National Institute of Chemistry

vabi na **PREDAVANJE**:

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z naslovom:

## **Role of promoter CG-rich sequences in transcription regulation**

**v četrtek, 2. oktobra 2014 ob 13:00 uri**

v Veliki predavalnici na Kemijskem inštitutu, Hajdrihova 19, Ljubljana

### *Kratek povzetek:*

Evidence that guanine repeats of genomic DNA are able to adopt G-quadruplex structures is rapidly growing, in particular since it was discovered that these unusual DNA structures occur in the cell. The role of G-quadruplexes controlling gene expression of the ras oncogenes is presented. The aim of this research is to design molecular strategies in order to extinct the expression of the ras oncogenes in cancer cells, as these are involved in the pathogenesis of various types of cancer. Targeting G-quadruplexes in gene promoters by small molecules will open up new approaches in cancer therapy.

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