



Kemijski inštitut  
Ljubljana  
Slovenija

National  
Institute of Chemistry  
Slovenia

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

**dr. Nikola Minovski**

D-03, Department of Cheminformatics

**Četrtek / thursday, 3.11.2016 ob / at 13:00**

Velika predavalnica Kemijskega inštituta/ Lecture hall, National Institute of  
Chemistry; Hajdrihova 19, Ljubljana

## **Approaching bacterial resistance, *in silico*. topoisomerases, quinolones, and beyond**

Bacterial type II topoisomerases have proven to be very effective targets for intercalating agents such as 6-fluoroquinolones (6-FQs). Unfortunately, 6-FQs-related problem of resistance in bacteria is continually growing and novel antibacterial alternatives targeting the bacterial DNA gyrase replication/transcription machinery are certainly welcomed.

The plethora of state-of-the-art computer-aided drug design approaches available today enabled us a construction of an efficient *in silico* drug discovery platform, which was proficiently employed for design and screening of novel ligands as potential DNA gyrase inhibitors against various bacterial mutant strains.

**Vljudno vabljeni / Kindly invited**