



8th NMR research workshop:

Trends in Biomolecular NMR



13th to 15th December, 2018



Lendava, Slovenia



Programme



Thursday, December 13, 2018

Venue: Hotel Lipa

10:00 – 11:00 Registration and welcome

11:00 – 11:30 Opening remarks: **Janez Plavec**, Head of Slovenian NMR Centre

SloNMR - doing fine, but can we get better?

Morning session

11:30 – 12:00 **Predrag Novak**, HR, *TBA*

12:00 – 12:30 **Ivana Biljan**, HR, *TBA*

12:30 – 14:00 **Lunch, Hotel Lipa**

Afternoon session I

14:00 – 14:20 **Liliya Yatsunyk**, USA
Sabbatical, Slovenia, NMR and non-canonical structures

14:20 – 14:40 **Jasna Brčić**
G-quadruplex formation of oligonucleotides with more than four d(G₄C₂) repeats

14:40 – 15:00 **Anita Kotar**
G-quadruplexes in bacteria

15:00 – 15:20 **Martina Lenarčič Živković**
G-hairpin formation propensity

15:20 – 15:40 **Coffee break**

Afternoon session II

15:40 – 16:00 **Peter Podbevšek**
Stress related changes in DNA and countermeasures

16:00 – 16:20 **Stase Bielskute**
Impact of oxidative lesions on the Human Telomeric G-quadruplex

- 16:20 – 16:40 **Katerina Peterkova**
Introduction to interactions of chromophores with G-quadruplexes
- 16:40 – 17:00 **Vesna Štih**
Structural studies of non-coding RNAs in cellular stress response
- 17:00 – 17:20 **Simon Aleksič**
Effect of 8-oxoguanine incorporation on tetrameric G-quadruplexes
- 17:30 – 19:00 **Focused group discussions**
- 19:00 **Dinner, Taverna restaurant, Hotel Lipa**



Friday, December 14, 2018

Venue: Hotel Lipa

Morning session I

- 9:00 – 9:20 **Primož Šket**
Starting structures of G-quadruplex folding
- 9:20 – 9:40 **Nataša Medved**
Influence of epigenetic modifications on DNA structural features
- 9:40 – 10:00 **Marko Trajkovski**
G-quadruplex interactions with small molecules: NMR-based insights
- 10:00 – 10:20 **Štefan Možina**
(De)stabilisation of DNA AGCGA-quadruplex structure by telomere binding ligands
- 10:20 – 10:40 **Coffee break**

Morning session II

- 10:40 – 11:00 **Urška Slapšak**
Structural features of mule deer prion protein provide insights to chronic wasting disease
- 11:00 – 11:20 **Matic Kovačič**
Structural study of TBA oligonucleotide modified with pyrene

- 11:20 – 11:40 **Uroš Javornik**
Insights into formation and structural properties of DNA duplexes with consecutive silver mediated Watson-Crick base pairs
- 11:40 – 12:00 **Mirko Cevc**
Study of two folded RNA G-quadruplexes within NRAS mRNA
- 12:00 – 12:20 **Aleš Novotny, CZ**
Assessing the robustness of VK34 fold
- 12:20 – 14:00 **Lunch, Hotel Lipa**

Afternoon session

- 14:00 – 14:20 **Damjan Makuc**
NMR conformational study of fleximers
- 14:20 – 14:40 **Monika Škrjanc**
NMR study of foam used for weed control
- 14:40 – 15:00 **Jan Rozman**
Effect of SNPs on G-quadruplex formation
- 15:00 – 15:20 **Klemen Pečnik**
Resolving ¹H NMR spectral mixtures
- 15:20 – 15:40 **Coffee break**
- 16:00 – 18:30 **Focused group discussions**
- 19:00 **Dinner, restaurant Pri Lujzi**

 **Saturday, December 15, 2018**

Venue: Hotel Lipa

Morning session

- 9:00 – 9:30 **Giuseppe Legname, IT, TBA**
- 9:30 – 10:00 **Giulia Salzano, IT, TBA**

10:00 – 11:30 **Focused group discussions**

11:30 – 12:00 **Concluding remarks**

12:00 – 14:00 **Lunch, restaurant Bella Venezia**

14:00 – 18:00 **Individual discussions**

