

# Frontiers of Biomolecular NMR

## Inauguration of the 800 MHz Spectrometer Ten Years of Slovenian NMR centre

### Program

#### Thursday, 29. 06. 2006

(location: National Institute of Chemistry, Hajdrihova 19, Ljubljana)

16.00-	Registration and visit to the lab
18.00	Welcome addresses Peter Venturini, director, National Institute of Chemistry Jure Zupan, minister, Ministry of Higher Education, Science and Technology Janez Plavec, head of NMR centre Robert Kaptein, Utrecht University
19.00	Buffet dinner

#### Friday, 30. 06. 2006

(location: Cankarjev dom, Prešernova 10, Ljubljana)

8.00-	Registration
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#### Morning Session

Chair: **Janez Dolinšek**

9.00-9.05	Opening	
9.05-9.50	<b>Kurt Wüthrich:</b> <i>Proteins in solution - the NMR view</i>	<b>L1</b>
10.00-10.45	<b>Robert Kaptein:</b> <i>Specific and non-specific protein – DNA interactions</i>	<b>L2</b>
10.55-11.15	Break	
11.15-11.35	<b>Gerd Gemmecker:</b> <i>Conformational studies of the radio pharmaceuticals Ga- and Y-DOTATOC</i>	<b>O1</b>
11.40-12.00	<b>Uroš Urleb:</b> <i>From enzymes to molecular mechanism of action: medicinal chemistry approach</i>	<b>O2</b>
12.05-12.25	<b>Primož Pristovšek:</b> <i>Structural approach towards endotoxin and microbial inhibition</i>	<b>O3</b>
12.30-14.00	Lunch break & Posters	

#### Afternoon Session

Chair: **Primož Pristovšek**

14.00-14.45	<b>Lyndon Emsley:</b> <i>Solid-State NMR Studies of Protein Structure, Dynamics and Hydration</i>	<b>L3</b>
14.55-15.15	<b>Francis Taulelle:</b> <i>NMR crystallography of powders: Principles</i>	<b>O4</b>
15.20-15.40	<b>Gregor Mali:</b> <i>Solid-state NMR spectroscopy of zeolitic materials</i>	<b>O5</b>
15.45-16.05	Break	
16.05-16.50	<b>Harald Schwalbe:</b> <i>Dynamics of RNA studied by NMR</i>	<b>L4</b>

17.00-17.20	<b>Janez Plavec:</b> <i>NMR structural studies of DNA G-quadruplexes and cation interactions</i>	<b>O6</b>
17.25-17.45	<b>Gyula Batta:</b> <i>Diffusion NMR study of supramolecular polymers of G<sub>4</sub> type from ditopic guanosine PEG macromonomers</i>	<b>O7</b>
17.50-18.10	<b>Robert Konrat:</b> <i>Chemistry-supported biomolecular NMR</i>	<b>O8</b>
18.25	Bus transfer to Arboretum	
19.00	Conference dinner (Varian evening)	

#### Saturday, 01. 07. 2006

#### Morning Session

Chair: **Janez Plavec**

9.00-9.45	<b>Christian Griesinger:</b> <i>Parkinson's disease and more: An NMR spectroscopic view</i>	<b>L5</b>
9.55-10.15	<b>Simona Golič Grdadolnik:</b> <i>Unraveling the physical origin of backbone conformational propensities of amino acid residues in peptides and fully denatured proteins</i>	<b>O9</b>
10.20-10.40	<b>Oliver Zerbe:</b> <i>Folding of a small peptide in solution and when associating with membranes</i>	<b>O10</b>
10.45-11.05	<b>Michael Overduin:</b> <i>Determination of protein-membrane structures by NMR</i>	<b>O11</b>
11.10-11.30	Break	
11.30-12.15	<b>Ivano Bertini:</b> <i>Copper trafficking and more</i>	<b>L6</b>
12.25-12.45	<b>Eriks Kupče:</b> <i>Fast multidimensional NMR</i>	<b>O12</b>
12.50-14.00	Lunch break	
14.00-15.00	Poster Session Posters will be displayed during the whole symposium	

#### Afternoon Session

Chair: **Simona Golič Grdadolnik**

15.00-15.45	<b>Dale F. Mierke:</b> <i>Peptides targeting PDZ domains for therapeutic intervention</i>	<b>L7</b>
15.55-16.15	<b>Vladimír Sklenář:</b> <i>Dynamics of protein-ligand interactions</i>	<b>O13</b>
16.20-16.40	<b>Alberto Spisni:</b> <i>From structural studies to the optimization of a vaccine: the case of the protein Sm14 from S. mansoni</i>	<b>O14</b>
16.45-17.05	Break	
17.05-17.25	<b>Wiktor Koźmiński:</b> <i>Multidimensional fourier transform of arbitrarily sampled NMR data sets</i>	<b>O15</b>
17.30-18.15	<b>Horst Kessler:</b> <i>Interactions of protein domains as a key to understand function</i>	<b>L8</b>
18.20	Closing Remarks	