



Slovenian NMR Centre @ National Institute of Chemistry, Ljubljana, Slovenia

## Research | 2008

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LIST OF PROGRAMS AND PROJECTS FINANCED BY SLOVENIAN RESEARCH AGENCY AND MINISTRY OF HIGHER EDUCATION, SCIENCE AND TECHNOLOGY WHICH COLLABORATE WITH NMR CENTRE AT NATIONAL INSTITUTE OF CHEMISTRY IN 2008

### National Institute of Chemistry

Programs:

1	<b>Chemistry and structure of biologically active compounds</b> P.I.: Janez Plavec, program no.: <b>P1-0242</b>
2	<b>Folding and Dynamics of Biomolecular Systems</b> P.I.: Franc Avbelj, program no.: <b>P1-0010</b>
3	<b>Molecular biotechnology: from dynamics of biological systems to applications</b> P.I.: Roman Jerala, program no.: <b>P4-0176</b>
4	<b>Nanoporous materials</b> P.I.: Venceslav Kaucic, program no.: <b>P1-0021</b>
5	<b>Functional Food and Chemical Hazard</b> P.I.: Mirko Prosek, program no.: <b>P1-0005</b>
6	<b>Specialty polymers</b> P.I.: Majda Zigon, program no.: <b>P2-0145</b>
7	<b>Micro- and nanostructured functional materials: development, physical-chemical characterization and simulation of processes</b> P.I.: Janko Jamnik, program no.: <b>P2-0148</b>
8	<b>Functional genomics and biotechnology for health</b> P.I.: Radovan Komel, program no.: <b>P1-0104</b>
9	<b>Razvoj materialov po sol-gel postopkih in njihova uporaba v sistemih za izkoriščanje nekonvencionalnih virov energije (SG-MAT-SYS) (Slovene)</b> P.I.: Boris Orel, program no.: <b>P1-0030</b>

Projects:

10	<b>NMR študije vloge kationov za zvitje in stabilizacijo kvadrupleksov DNK (Slovene)</b> P.I.: Janez Plavec, project no.: <b>J1-0986</b>
11	<b>Novi, okolju prijazni, visokoenergijski materiali za litijeve ionske akumulatorje (Slovene)</b> P.I.: Robert Dominko, project no.: <b>J2-9569</b>
12	<b>Nanoporozni z železom funkcionalizirani silikati (Slovene)</b> P.I.: Alenka Ristic, project no.: <b>Z1-9744</b>

13	<b>Molekularni mehanizem prepoznavanja dvoverižne RNA virusov preko TLR3 (Slovene)</b> P.I.: Roman Jerala, project no.: <b>I3-0589</b>
14	<b>MD-2 inhibition for treatment bacterial infection and chronic diseases</b> P.I.: Roman Jerala, project no.: <b>J1-7206</b>
15	<b>Novi ligandi za asimetrično katalizo (Slovene)</b> P.I. : Barbara Mohar, project no.: <b>J1-9806-0104</b>
16	<b>Karakterizacija interakcij ligand-receptor (Slovene)</b> P.I. : Simona Golic Grdadolnik, project no.: <b>J1-0317</b>
17	<b>Fosfodiesteraza cikličnih nukleotidov iz <i>Mycobacterium tuberculosis</i>: struktura in funkcija (Slovene)</b> P.I.: Marjetka Podobnik, project no.: <b>L1-0378</b>

### Institute Jozef Stefan

Programs:

18	<b>Magnetic resonance and dielectric spectroscopy of condensed matter: The breaking of translational symmetry and "smart" new materials</b> P.I.: Robert Blinc, project no.: <b>P0-0125</b>
19	<b>Light and Matter</b> P.I.: Martin Copic, program no.: <b>P1-0192</b>
20	<b>Physics of soft matter, surfaces, and nanostructures</b> P.I.: Slobodan Zumer, program no.: <b>P1-0099</b>
21	<b>Experimental biophysics of complex systems</b> P.I.: Janez Strancar, program no.: <b>P1-0060</b>
22	<b>Inorganic Chemistry and Technology</b> P.I.: Boris Zemva, program no.: <b>P1-0045</b>
23	<b>Contemporary inorganic materials and nanotechnologies</b> P.I.: Suvorov Danilo, program no.: <b>P2-0091</b>
24	<b>Cycling of substances in the environment, mass balances, modelling of environmental processes and risk assessment</b> P.I.: Milena Horvat, program no.: <b>P1-0143</b>

### Faculty of Chemistry and Chemical Technology, University of Ljubljana

Program:

25	<b>Bioinorganic and bioorganic chemistry</b> P.I.: Peter Bukovec, program no.: <b>P1-0134</b>
26	<b>Chemical engineering and technology</b> P.I.: Valentin Koloini, program no.: <b>P2-0191</b>
27	<b>Physical Chemistry</b> P.I.: Vojislav Vlachy, program no.: <b>P1-0201</b>

Projects:

28	<b>Reaktivni intermediati pri transformacijah organskih spojin (Slovene)</b> P.I.: Boris Sket, project no.: <b>J1-9410</b>
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29	<b>The transformation of pollutants with ozone and advanced oxidation processes</b> P.I.: Evgen Erzen, project no.: <b>L1-7165</b>
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### Faculty of Pharmacy, University of Ljubljana

Programs:

30	<b>Farmacevtska kemija: nacrtovanje, sinteza in vrednotenje ucinkovin (Slovene)</b> P.I.: Danijel Kikelj, program no.: <b>P1-0208</b>
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### Agricultural Institute of Slovenia

Project:

31	<b>Izdelava izotopskih analiz vzorcev vina s slovenskim geografskim poreklom (Ministrstvo za kmetijstvo, gozdarstvo in prehrano) (Slovene)</b> P.I.: Mitja Kocjancic
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### Clinical Centre Ljubljana

Project:

32	<b>Novi vnetni kazalci: beljakovina, ki veze lipopolisaharid, endotoksin in PCT ter ATP pri kritično bolnih otrocih (Slovene)</b> P.I.: Gorazd Kalan
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### Biotechnical Faculty, University of Ljubljana

Program:

33	<b>Biokemijska in biofizikalno kemijska karakterizacija naravnih snovi (Slovene)</b> P.I.: Veronika Abram, project no.: <b>P4-0121</b>
34	<b>Molekulski mehanizmi uravnavanja celičnih procesov v povezavi z nekaterimi boleznimi pri človeku (Slovene)</b> P.I.: Jure Stojan, project no.: <b>P1-0170</b>

Project:

35	<b>Bioaktivne komponente iz alternativnih virov (Slovene)</b> P.I.: Helena Abramovic, project no.: <b>J7-7604</b>
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### Faculty of Natural Sciences and Engineering, Department of Textiles, University of Ljubljana

Program:

36	<b>Textiles and Ecology</b> P.I.: Marija Gorenssek, program no.: <b>P2-0213</b>
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Project:

37	<b>Alternativna belilna sredstva (Slovene)</b> P.I.: Petra-Eva Forte-Tavcer, project no.: <b>L2-7228</b>
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### TKK Serpenica

Project:

38	<p><b>Sinteza tekočega nealkalnega pospešila za vezanje in strjevanje brizganega betona in vpliv pospešila na mehanske lastnosti brizganega betona</b> (Slovene)  P.I.: Luka Zevnik, project no.: <b>Z2-1257</b></p>
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### International projects

39	<p><b>Razvoj in uporaba novih NMR tehnik z izboljšano ločljivostjo</b> (Slovene),  poljsko-slovenski bilateralni projekt  P.I.: Wiktor Kozminski and Janez Plavec</p>
40	<p><b>COST D31 working group (D31/0021/05) entitled "Novel and Specific Anion Receptors for use in Sensor Technology"</b>  P.I. (for NIC): Janez Plavec</p>
41	<p><b>An integrated immunological and cellular strategy for sensitive TSE diagnosis and strain discrimination (TSEUR)</b>  P.I.: Roman Jerala (NIC), contract no. 018805 (Jan 2006 - Dec 2008)</p>
42	<p><b><i>In-situ</i> study and development of processes involving nano-porous solids</b>  NoE FP6 - INSIDE POREs  P.I.: Venceslav Kaucic</p>
43	<p><b>Hierarhični nanoporozni katalizatorji: sinteza, karakterizacija in določitev katalitskih lastnosti</b> (Slovene)  P.I.: Natasa Novak Tusar (Proteus 2007-2008)</p>
44	<p><b>Modificirani mezoporozni oksidi</b> (Slovene)  P.I.: Venceslav Kaucic, project no.: BI-AR/06-08/02</p>
45	<p><b>Nanostructured and functional polymer-based materials and nanocomposites (acronym Nanofun-poly)</b>  NOE in 6. OP EU, project no.: NMP3-CT-2004-500361  P.I. at NIC: Majda Zigon</p>
46	<p><b>Nanoscale functionalities for targeted delivery of biopharmaceutics, sinonim Nano(biopharmaceutics)</b>  P.I.: Peter Venturini (6. okv. program EU)</p>
47	<p><b>Nanophase polymer-composite systems for solar cells and electronic device</b>  P.I.: Majda Zigon, project no.: BI-CZ/07-08/003</p>
48	<p><b>The Preparation of polymeric nanocomposite using layered silicates modified by polyions</b>  P.I.: Miroslav Huskic, project no.: BI-HR/07-08/039</p>
49	<p><b>SvenSloBatt</b>  P.I.: Robert Dominko, project no.: MNT ERANET (3211-07-000022)</p>
50	<p><b>Odkrivanje fenomena zvitja proteinov preko konformacijske analize majhnih linearnih peptidov</b> (Slovene) (slovensko-ciprski bilateralni projekt)  P.I.: Simona Golic Grdadolnik and T. Mavromoustakos, project no.: BI-CY/08-09-004</p>
51	<p><b>COST-40 Action Innovative Catalysis: New Processes and Selectivities</b>  P.I.: Barbara Mohar</p>
52	<p><b>Inhibition of new targets for fighting antibiotic resistance</b>  P.I.: Stanislav Gobec</p>
53	<p><b>Food analysis using Isotopic Techniques - Proficiency Testing Scheme (FIT-PTS)</b></p>

	P.I.: Mitja Kocjancic
54	<b>Načrtovanje in sinteza funkcionalnih materialov na molekularnem in nano nivoju</b> (Slovene), bilateralna R Slovenija-R Srbija P.I.: Sreco Skapin

### Contracts with partners from industry

#### Lek d.d., Slovenia

55	<b>NMR spremljanje vezave novih inhibitorjev MurD ligaze / Pogodba RU-2007</b> (Slovene) P.I.: Simona Golic Grdadolnik
56	<b>Sinteza potencialnih farmacevtskih učinkovin</b> (Slovene) P.I.: Barbara Mohar

#### Krka d.d., Slovenia

57	<b>Pogodba st. II/25-106 259 - 106632/2007</b> (Slovene) P.I.: Janez Plavec
58	<b>Razvoj neodvisnih postopkov do farmacevtskih intermediatov</b> (Slovene) P.I.: Barbara Mohar
59	<b>Raziskave na področju sintez farmacevtskih učinkovin</b> (Slovene) P.I.: Jernej Iskra

#### Pliva d.d., Zagreb

60	<b>Pogodba o sodelovanju na področju NMR spektroskopije</b> (Slovene) P.I.: Janez Plavec
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#### ECOT d.o.o., Slovenia

61	<b>Raziskave na področju površinsko aktivnih materialov</b> (Slovene) P.I.: Stojan Stavber
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#### KGZS - KGZ Novo Mesto, Slovenia

62	<b>Izotopske analize vzorcev vina cviček PTP</b> (Slovene) P.I.: Mitja Kocjancic
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