



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

## Research | 2003

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### LIST OF PROGRAMS AND PROJECTS FINANCED BY THE MINISTRY OF SCIENCE AND TECHNOLOGY WHICH COLLABORATED WITH NMR CENTER AT NATIONAL INSTITUTE OF CHEMISTRY IN 2003

#### National Institute of Chemistry

Programs:

1	<b>Folding in dinamika biomolekularnih sistemov</b> P.I.: Franc Avbelj, program no.: <b>P1-0501-0104</b>
2	<b>Molekularno prepoznavanje v bioloskih sistemih</b> P.I.: Jurka Kidric, program no.: <b>P1-0504-0104</b>
3	<b>Oblikovanje polimerov</b> P.I.: Majda Zigon, program no.: <b>P1-0514-0104</b>
4	<b>Sinteza in strukturne raziskave bioloskih makromolekul</b> P.I.: Joze Kobe, program no.: <b>P1-0515-0104</b>
5	<b>Heterogeni katalizatorji</b> P.I.: Venceslav Kaucic, program no.: <b>P1-0516-0104</b>

Projects:

6	<b>NMR studij strukture nukleinskih kislin in njihovih interakcij s kovinskimi ioni</b> P.I.: Janez Plavec, project no.: <b>J1-3309-0104</b>
7	<b>Peptidni inhibitorji lipopolisaharida</b> P.I.: Primoz Pristovsek, project no.: <b>L1-3353-0104</b>
8	<b>Optimizacija inhibitorjev giraze</b> P.I.: Primoz Pristovsek, project no.: <b>L4-3058-0104</b>
9	<b>Raziskava strukturnih lastnosti in izomorfne substitucije v molekulskih sitih z jedrsko magnetno resonance</b> P.I.: Gregor Mali, project no.: <b>Z1-3277-0104</b>
10	<b>Sinteza in karakterizacija novih redoks katalizatorjev</b> P.I.: Natasa Novak Tusar, project no.: <b>Z2-3457-0104</b>
11	<b>Novi katalizatorji za pripravo kemijskih intermediatov</b> P.I.: Barbara Mohar, project no.: <b>Z1-3374-0104</b>
12	<b>Razvoj industrijskih procesov na osnovi paladijevih in nikljevih katalizatorjev</b> P.I.: Barbara Mohar, project no.: <b>L1-5225-0104</b>
13	<b>Samourejeni supramolekularni poliuretani</b> P.I.: Majda Zigon, project no.: <b>Z2-5403-0104</b>

14	<b>Določevanje izvora sladkorjev vin s kombinacijo SNIF-NMR, IRMS in kemometričnimi metodami ter ugotavljanje vpliva mesta in načina predelave slovenskega medu na izotopsko sestavo ogljika</b> P.I.: Jurka Kidric, Mitja Kocjancic (Kmet. inst.) and Nives Ogrinc (IJS), project no.: <b>V4-0479/01</b>
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### Institute Jozef Stefan

Programs:

15	<b>Anorganska kemija in tehnologija</b> P.I.: Boris Zemva, program no.: <b>PO-0533-0106</b>
16	<b>Svetloba in snov</b> P.I.: Martin Copic, program no.: <b>P1-0528-0106</b>
17	<b>Organska kemija</b> P.I.: Stojan Stavbar, program no.: <b>P1-0545-0106</b>

### Faculty of Chemistry and Chemical Technology

Programs:

18	<b>Organska kemija</b> P.I.: Slovenko Polanc, program no.: <b>P1-0503-0103</b>
19	<b>Reaktivni intermediati pri reakcijah oksidacije</b> P.I.: Bozo Plesnicar, program no.: <b>P1-0501-0103</b>
20	<b>Sinteza, struktura in lastnosti snovi in materialov</b> P.I.: Ivan Leban, program no.: <b>P1-0511-0103</b>

### Faculty of Pharmacy

Program:

21	<b>Farmacevtska kemija</b> P.I.: Danijel Kikelj, program no.: <b>P1-0502-0787</b>
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### Zavod za transfuzijo RS

Project:

22	<b>Prionske bolezni in njihova diagnostika</b> P.I.: Vladka Curin-Serbec, project no.: <b>L3-3435-0311</b>
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### Univerzitetni klinični center Ljubljana

Project:

23	<b>Pokazatelji vnetja in <sup>31</sup>P NMR spektroskopske spremembe v eritrocitih kritično bolnih otrok</b> P.I.: Metka Derganc, project no.: <b>J3-3482-0312</b>
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### Biotechnical faculty

Projects:

24	<b>Lesarstvo</b> P.I.: Franc Pohleven, project no.: <b>PO-541-0481</b>
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25	<p><b>Sekundarni metaboliti hmelja - tradicionalna in potencialna uporaba</b>  P.I.: Milica Kac (BF and Institut za hmeljarstvo), Jurka Kidric and Iztok J. Kosir (NIC and Institut za hmeljarstvo) project no.: <b>PO-541-0481</b></p>
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### International projects

26	<p><b>Use of NMR Spectroscopy in Combination with Computational Methods on Systems of Biological Interest - EU Center of Excellence</b>  Coordinator: Janez Plavec, contract no.: ICA1-CT-2000-70034</p>
27	<p><b>Solution State Investigations of DNA Quadruplex Structure and Cation Binding</b>  <b>NATO Science Programme, Collaborative Linkage Grant</b>  P.I.: Janez Plavec and Nicholas V. Hud</p>
28	<p><b>ANEPID: Antimicrobial endotoxin neutralizing peptides to combat infectious diseases</b>  <b>Evropski projekt v okviru 5. okvirnega programa QoL-2001-3</b>  Coordinator: Karl Lohner, Graz, odgovoren za slovensko skupino: Roman Jerala</p>
29	<p><b>Conformational analysis and drug membrane interactions of bioactive compounds (slovensko-grski bilateralni projekt 2001-23)</b>  P.I.: Simona Golic Grdadolnik and Thomas Mavromoustakos</p>
30	<p><b>Cross-polarisation NMR measurements involving quadrupolar nuclei project PROTEUS 2002</b>  P.I.: Gregor Mali and Francis Taulelle</p>
31	<p><b>Synthesis, structure determination and spectroscopic investigation of porous materials project PROTEUS 2002</b>  P.I.: Venceslav Kaucic and Frédéric Thibault - Starzyk</p>
32	<p><b>Catalytic performances and characterization of new metal-modified porous materials project PROTEUS 2003</b>  P.I.: Natasa Novak Tusar and Antoine Gedeon</p>
33	<p><b>Atomic force microscopy of crystallisation mechanisms in MeAPOS Partnership in science 2003</b>  P.I.: Venceslav Kaucic and Michael W. Anderson</p>
34	<p><b>Dairy industry waste as source for sustainable polymeric material production</b>  P.I.: Andrej Krzan, project no.: G5RD-CT-2001-00591</p>
35	<p><b>Advanced PEM fuel cells akronim Apollon, 5. OP EU</b>  P.I.: Stanko Hocevar (KI-L13), odgovorni iz KI-L07 Andrej Krzan, project no.: ENK5-CT-2001-00572</p>
36	<p><b>Struktura in dinamika prepletenih polimernih mrež</b>  bilateralno sodelovanje s Hrvasko  P.I.: Majda Zigon</p>
37	<p><b>Dolocanje strukturnih značilnosti citoplazmatske domene <math>\alpha 1B</math>-adrenergičnega receptorja z NMR ter izracuni molekulske dinamike</b>  bilateralni projekt Italija-Slovenija  P.I.: Alberto Spisni (Univ. v Parmi) and Primož Pristovsek</p>
38	<p><b>Nove metodologije za asimetrično elektrofilno fluoriranje projekt PROTEUS 2002 –2. leto</b>  P.I.: Barbara Mohar</p>

39	<b>Pt(II) and Pd(II) Complexes with Oligonucleotides and DNA Constituents as Virus Inhibitors</b> P.I.: Joze Kobe, project no.: IHP-MCHT-01-1 Marie Curie Training Site
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#### Contracts with partners from industry

##### Krka d.d., Novo mesto

40	<b>Krka d.d., contract no.. II/2-106624/01-02</b> P.I.: Roman Jerala
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##### Rhodia Organique Fine, Francija

41	<b>New Fragrances for Parfumery and Cosmetics</b> P.I.: Barbara Mohar
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##### PhosPhoenix SARL, Francija

42	<b>Development of industrial processes based on homogenous catalysis</b> P.I.: Barbara Mohar
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##### Plama-PUR

43	<b>New Fragrances for Parfumery and Cosmetics</b> P.I.: Andrej Krzan, contract no.: 51/02-L0
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##### Lek d.d.

44	<b>Sinteza kiralnih intermediatov</b> P.I.: Barbara Mohar
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