



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

Research | 2005

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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 2005

National Institute of Chemistry

Programs:

1	Chemistry and structure of biologically active compounds P.I.: Janez Plavec, program no.: P1-0242-0104
2	Folding and Dynamics of Biomolecular Systems P.I.: Franc Avbelj, program no.: P1-0010-0104
3	Molekularna biotehnologija: od dinamike bioloskih sistemov do aplikacij (Slovene) P.I.: Roman Jerala, program no.: P4-0176-0104
4	Nanoporous materials P.I.: Venceslav Kaucic, program no.: P1-0021-0104
5	Functional Food and Chemical Hazard P.I.: Mirko Prosek, program no.: P1-0005-0104
6	Polimeri s posebnimi lastnostmi (Slovene) P.I.: Majda Zigon, program no.: P2-0145-0104
7	Modeliranje relacij med kemijsko strukturo in lastnostjo snovi - QSAR - QSPR (Slovene) P.I.: Marjana Novic, program no.: P1-0017-0104
8	Razvoj materialov po sol-gel postopkih in njihova uporaba v sistemih za izkorišcanje nekonvencionalnih virov energije (acronym SG-MAT-SYS) (Slovene) P.I.: Boris Orel, program no.: P1-0030-0104

Projects:

9	Center odlicnosti "NMR center odlicnosti za studij struktur in interakcij v biotehnologiji in farmaciji" - raziskovalno-razvojni projekt sofinanciran s sredstvi Evropskega sklada za regionalni razvoj - ESRR za ukrep 1.1.: spodbujanje razvoja inovacijskega okolja (Slovene) P.I.: Janez Plavec, project no.: 3311-04-855012
10	Studies of multistranded DNA structures and their interactions with metal ions using NMR spectroscopy P.I.: Janez Plavec, project no.: J1-6140-0104
11	Investigation of Compounds from Natural Sources by Modern Chromatographic and Spectroscopic Techniques P.I.: Breda Simonovska, project no.: L1-6600-0104

12	Structural Characterization of Flexible Molecules in Solution P.I.: Simona Golic Grdadolnik, project no.: J1-6718-0104
13	Structural-based neutralization of endotoxin by peptides P.I.: Primoz Pristovsek, project no.: J1-6357-0104
14	Development of gyrase inhibitors and peptides as antimicrobial agents P.I.: Roman Jerala, project no.: J4-6129-0104
15	Prion diseases and their diagnostics P.I.: Vladka Curin-Serbec, project no.: L3-3435-0311
16	Nuclear magnetic resonance in nanoporous molecular sieves P.I.: Gregor Mali, project no.: J1-6350-0104
17	ESRR projekt v okviru centra odlicnosti "Nanoznanosti in nanotehnologije": Karakterizacija na nanometerski skali (Slovene) P.I. at NIC: Janez Jamnik; P.I.: Dragan Mihailovic
18	New Catalysed Processes Based on Palladium P.I. : Barbara Mohar, project no.: J1-6125 -0104
19	Structural studies of inositol polyphosphate kinases P.I. : Marjetka Podobnik, project no.: J4-6463 -0104
20	Substituirani polianilini (Slovene) P.I.: Ida Mav, project no.: Z2-3334-0104

Institute Jozef Stefan

Programs:

21	Nuclear magnetic resonance of condensed matter P.I.: Robert Blinc, project no.: P0-0523-0106
22	Light and Matter P.I.: Martin Copic, program no.: P1-0192-0106
23	Fizika mehkih snovi: Modeliranje, eksperimenti in aplikacije (Slovene) P.I.: Slobodan Zumer, program no.: P0-0524-0106
24	Biofizika (Slovene) P.I.: Milan Schara, program no.: P0-0525-0106

Projects:

25	Sinteza novih materialov nanometrskih razseznosti (Slovene) P.I.: Robert Blinc, project no.: Z2-4518 -0106
26	Dinamicne nestabilnosti v sistemih molekularnih motorjev (Slovene) P.I.: Slobodan Zumer, project no.: Z1-4509 -0106
27	Vpliv nizkofrekvenčnega elektromagnetnega valovanja (Slovene) P.I.: Marjeta Sentjurc, project no.: L1-4058 -0106
28	Inorganic Chemistry and Technology P.I.: Boris Zemva, project no.: P1-0045 -0106
29	Uvedba novih nedestruktivnih metod za zagotavljanje varne in kakovostne hrane na osnovi magnetne resonance (Slovene) P.I.: Gojmir Lahajnar, project no.: V4-0876-0106

Faculty of Chemistry and Chemical Technology

Program:

30	Bioinorganic and bioorganic chemistry P.I.: Peter Bukovec, program no.: P1-0134-0103
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Projects:

31	Reactive intermediates in the transformation of organic compounds P.I.: Bozo Plesnicar, project no.: J1-6254-0103
32	Rubber composites - Adhesion bonding systems with improved surface activity P.I.: Matjaz Krajnc, project no.: L2-6686-0103

Faculty of Pharmacy

Programs:

33	Farmaceutvska kemija: nacrtovanje, sinteza in vrednotenje ucinkovin (Slovene) P.I.: Danijel Kikelj, program no.: P1-0208-0787
34	Experimental biophysics of complex systems P.I.: Milan Valter Schara, programa no.: P1-0060-0787

Projects:

35	Peptidomimetiki - inhibitorji koagulacije krvi in agregacije trombocitov (Slovene) P.I.: Mojca Stegnar, project no.: L3-5084-0787
36	Analysis of gene expression associated with apoptosis using microarrays P.I.: Irena Mlinaric Rascan, project no.: L1-5267-0787

Clinical Centre Ljubljana

Project:

37	Novi vnetni kazalci: beljakovina, ki veze lipopolisaharid, endotoksin in PCT ter ATP pri kriticno bolnih otrocih (Slovene) P.I.: Metka Derganc, project no.: J3-6245-0312
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Biotechnical Faculty

Project:

38	Biokemijska in biofizikalno kemijska karakterizacija naravnih snovi (Slovene) P.I.: Veronika Abram, project no.: P4-0121-0481
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Faculty of Natural Sciences and Engineering, Department of Textiles

Program:

39	Textiles and Ecology P.I.: Marija Gorenssek, program no.: P2-0213
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National and University Library

Project:

40	Microanalytical methods for measurement of pH of paper P.I.: Jana Kolar, project no.: L1-5237-0619
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Slovenian Institute for Hop Research and Brewing

Project:

41	Characterization of hop essential oils (Humulus lupulus L.) P.I.: Iztok Kosir, project no.: L1-6660-0416
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Agricultural Institute of Slovenia

Project:

42	Določevanje izvora sladkorjev vin s kombinacijo SNIF-NMR, IRMS in kemometričnimi metodami - nadaljevanje projekta iz leta 2001 "Konkurencnost Slovenije 2001 - 2006" (Slovene) P.I.: Mitja Kocjancic, project no.: V4-0114
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International projects

43	Ciklopaladirani kompleksi azobenzena (Slovene) Projekt v okviru hrvasko-slovenskega bilateralnega programa sodelovanja na področju znanosti in tehnologije za 2005-2006 P.I.: Manda Curic (IRB, Zagreb) and Janez Plavec (NIC)
44	Solution State Investigations of DNA Quadruplex Structure and Cation Binding NATO Science Programme, Collaborative Linkage Grant P.I.: Nicholas V. Hud (Georgia Institute of Technology, Atlanta, USA) and Janez Plavec (NIC)
45	Konformacijska analiza biološko pomembnih učinkovin in njihova interakcija s celicno membrano (Slovene) Slovenian-greek bilateral project, project no: BI-GR/02-05-007 P.I.: Simona Golic Grdadolnik and Thomas Mavromoustakos
46	Prehod kovina-izolator v mesanih polimerih fullerenskih soli (Slovene) Slovenian-greek project P.I.: A. Lappas (Institute of electronic structure and laser, Heraklion, Greece) and Denis Arcon
47	Spontano urejanje derivatov gvanozina v vodnih raztopinah (Slovene) Slovenian-italian project 5B/2002-2005 P.I.: Irena Drevensek Olenik
48	Antimicrobial endotoxin neutralizing peptides to combat infectious diseases project no.: ANEPID - QLRT-2001-01001 P.I.: Roman Jerala
49	Determination of the structural features of cytoplasmic domains of the alpha-1B-adrenergic receptor by means of NMR and MD calculations Slovenian-italian project P.I.: Alberto Spisni (University in Parma, Italy) and Primoz Pristovsek (NIC)
50	Merjenje razdalj med istovrstnimi kvadrupolnimi jedri (Slovene) PROTEUS Slovenia-France P.I.: Gregor Mali and Francis Taulelle
51	Katalizatorji na osnovi mikro-/mezoporoznih kompozitov (Slovene) PROTEUS Slovenia-France

	P.I.: Venceslav Kaucic and Frederic Thibault-Starzyk
52	In-situ study and development of processes involving nano-porous solids NoE FP6 - INSIDE POReS P.I.: Venceslav Kaucic
53	Biorazgradljivi polimeri (Slovene) Bilateral collaboration with Serbia and Montenegro 2004/05, project no.: BI-SCG/04-05, no. 31 P.I.: Matjaz Kunaver
54	Nanostructured and functional polymer-based materials and nanocomposites (acronym Nanofun-poly) NOE in 6. OP EU, project no.: NMP3-CT-2004-500361 P.I. at NIC: Majda Zigon
55	New fluoruous media and process for cleaner and safer chemistry COST 29 P.I.: Jernej Iskra
56	Inhibition of new targets for fighting antibiotic resistance Sixth Framework Programme EU: EUR-INTAFAR P.I.: Stanislav Gobec
57	Molecular targeting and drug design in neurological and bacterial diseases COST D 34 P.I.: Danijel Kikelj

Contracts with partners from industry

Lek d.d., Slovenia

58	Sinteza potencialnih farmacevtskih ucinkovin (Slovene) P.I.: Barbara Mohar
59	Industrial contract with Lek d.d. in year 2005 P.I.: Simona Golic Grdadolnik
60	Contract with Lek P.I.: Viktor Menart

PhosPhoenix SARL, France

61	Development of industrial processes based on homogeneous catalysis P.I.: Barbara Mohar
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Color, industrija sinteticnih smol, barv in lakov, d. d., Slovenia

62	Application of waste polyethylene terephthalate (R-PET) in the coatings and synthetic resins industry (project no.: L2-6051-0104) P.I.: Andrej Krzan
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