



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

Research | 2006

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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 2006

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	Micro- and nanostructured functional materials: development, physical-chemical characterization and simulation of processes P.I.: Janko Jamnik, program no.: P2-0148-0104

Projects:

8	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
9	Studies of multistranded DNA structures and their interactions with metal ions using NMR spectroscopy P.I.: Janez Plavec, project no.: J1-6140-0104
10	Investigation of Compounds from Natural Sources by Modern Chromatographic and Spectroscopic Techniques P.I.: Breda Simonovska, project no.: L1-6600-0104
11	Structural Characterization of Flexible Molecules in Solution P.I.: Simona Golic Grdadolnik, project no.: J1-6718-0104
12	Structural-based neutralization of endotoxin by peptides P.I.: Primoz Pristovsek, project no.: J1-6357-0104

13	Development of gyrase inhibitors and peptides as antimicrobial agents P.I.: Roman Jerala, project no.: J4-6129-0104
14	Inhibicija MD-2 za zdravljenje infekcij in kroničnih bolezni (Slovene) P.I.: Roman Jerala, project no.: J1-7206-0104
15	Prion diseases and their diagnostics P.I.: Vladka Curin-Serbec, project no.: L3-6006-0311
16	Nuclear magnetic resonance in nanoporous molecular sieves P.I.: Gregor Mali, project no.: J1-6350-0104
17	ESRR projekt v okviru centra odličnosti "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
21	Application of waste polyethylene terephthalate (R-PET) in the coatings and synthetic resins industry P.I.: Andrej Krzan, project no.: L2-6051-0104

Institute Jozef Stefan

Programs:

22	Magnetic resonance and dielectric spectroscopy of condensed matter: The breaking of translational symmetry and "smart" new materials P.I.: Robert Blinc, project no.: P0-0125-0106
23	Light and Matter P.I.: Martin Copic, program no.: P1-0192-0106
24	Physics of soft matter, surfaces, and nanostructures P.I.: Slobodan Zumer, program no.: P1-0099-0106
25	Experimental biophysics of complex systems P.I.: Milan Schara, program no.: P1-0060-0106
26	Inorganic Chemistry and Technology P.I.: Boris Žemva, program no.: P1-0045-0106

Faculty of Chemistry and Chemical Technology

Program:

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

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

Programs:

30	Farmaceutvska kemija: nacrtovanje, sinteza in vrednotenje ucinkovin (Slovene) P.I.: Danijel Kikelj, program no.: P1-0208-0787
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Clinical Centre Ljubljana

Project:

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

Project:

32	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:

33	Textiles and Ecology P.I.: Marija Gorenssek, program no.: P2-0213
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Project:

34	Alternativna belilna sredstva (Slovene) P.I.: Petra-Eva Forte-Tavčer, project no.: L2-7228
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Slovenian Institute for Hop Research and Brewing

Project:

35	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:

36	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

37	Ciklopaladirani kompleksi azobenzena (Slovene)
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	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)
38	NMR študije in modeliranje farmakološko uporabnih peptidov (Slovene) Projekt v okviru hrvasko-slovenskega bilateralnega programa sodelovanja na področju znanosti in tehnologije za 2006-2007 P.I.: Drazen Viki-Topic (IRB, Zagreb) and Janez Plavec (NIC)
39	An integrated immunological and cellular strategy for sensitive TSE diagnosis and strain discrimination (TSEUR) P.I.: Roman Jerala (NIC), contract no. 018805 (Jan 2006 - Dec 2008)
40	Merjenje razdalj med istovrstnimi kvadrupolnimi jedri (Slovene) PROTEUS Slovenia-France P.I.: Gregor Mali and Francis Taulelle
41	Katalizatorji na osnovi mikro-/mezoporoznih kompozitov (Slovene) PROTEUS Slovenia-France P.I.: Venceslav Kaucic and Frederic Thibault-Starzyk
42	In-situ study and development of processes involving nano-porous solids NoE FP6 - INSIDE POREs P.I.: Venceslav Kaucic
43	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
44	Prevodni polimeri s heteroatomami v glavni verigi: sinteza in lastnosti polprevodnih in prevodnih polimernih mešanic in kompozitov (Slovene) P.I.: Ida Mav Golez, project no.: BI-CZ/05-06/018
45	Functional Coatings (NANOFUN-POLY) P.I.: Ema Zagar
46	Materials for Solar Thermal Applications (International Energy Agency - IEA) P.I.: Boris Orel, program no.: P-030
47	Structural Studies of Inositol poly-Phosphate Kinases (Marie Curie International Reintegration Grant) P.I.: Marjetka Podobnik, project no.: MIRG-6-CT-2005-014882
48	Metal Compounds in the Treatment of Cancer COST D 20 P.I.: Natasa Bukovec
49	New fluororous media and process for cleaner and safer chemistry COST 29 P.I.: Jernej Iskra

Contracts with partners from industry

Lek d.d., Slovenia

50	Sinteza potencialnih farmacevtskih učinkovin (Slovene) P.I.: Barbara Mohar
51	NMR študije vezave inhibitorjev na proteinske fragmente (Slovene) P.I.: Simona Golic Grdadolnik, project no.: RU-103/2005

52	Prstni odtis proteina z NMR in kemometrijo (Slovene) P.I.: Primož Pristovšek (KI-L12), Marjana Novič (KI-L3), Viktor Menart (Lek)
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Krka d.d., Slovenia

53	Strukturne študije z NMR (Slovene) P.I.: Venčeslav Kaučič (KI), Marija Grčman (Krka)
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PhosPhoenix SARL, France

54	Development of industrial processes based on homogeneous catalysis P.I.: Barbara Mohar
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ECOT d.o.o., Slovenia

55	Novi površinsko aktivni materiali in njihova uporaba v nehumani kozmetiki (Slovene) P.I.: Stojan Stavber
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