



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

Research | 2007

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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 2007

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
8	Functional genomics and biotechnology for health P.I.: Radovan Komel, program no.: P1-0104
9	Razvoj materialov po sol-gel postopkih in njihova uporaba v sistemih za izkoriščanje nekonvencionalnih virov energije (SG-MAT-SYS) (Slovene) P.I.: Boris Orel, program no.: P1-0030

Projects:

10	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
11	Studies of multistranded DNA structures and their interactions with metal ions using NMR spectroscopy P.I.: Janez Plavec, project no.: J1-6140-0104

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	Inhibicija MD-2 za zdravljenje infekcij in kroničnih bolezni (Slovene) P.I.: Roman Jerala, project no.: J1-7206-0104
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	Novi ligandi za asimetrično katalizo (Slovene) P.I. : Barbara Mohar, project no.: J1-9806-0104
20	Use of inorganic particles for particle design and their potential application in systems with modified release (basic research project) P.I. : Marjan Bele, project no.: J1-6365-0104
21	Investigation of Compounds from Natural Sources by Modern Chromatographic and Spectroscopic Techniques P.I.: Breda Simonovska, project no.: L1-6600-0104
22	Sinteza nanoporoznih z železom funkcionaliziranih silikatov P.I. : Alenka Ristić, project no.: Z-9744-0104
23	Substituirani polianilini (Slovene) P.I.: Ida Mav Golež, project no.: Z2-3334-0104
24	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:

25	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
26	Light and Matter P.I.: Martin Copic, program no.: P1-0192-0106
27	Physics of soft matter, surfaces, and nanostructures P.I.: Slobodan Zumer, program no.: P1-0099-0106
28	Experimental biophysics of complex systems P.I.: Milan Schara, program no.: P1-0060-0106
29	Inorganic Chemistry and Technology P.I.: Boris Žemva, program no.: P1-0045-0106

Faculty of Chemistry and Chemical Technology, University of Ljubljana

Program:

30	Bioinorganic and bioorganic chemistry P.I.: Peter Bukovec, program no.: P1-0134-0103
31	Chemical engineering and technology P.I.: Valentin Koloini, program no.: P2-0191-0103

Projects:

32	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, University of Ljubljana

Programs:

33	Farmacevtska kemija: nacrtovanje, sinteza in vrednotenje ucinkovin (Slovene) P.I.: Danijel Kikelj, program no.: P1-0208-0787
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Project:

34	LSHM-CT-2004-512138 EUR-INTAFAR (Projekt 6. okvirnega programa EU) (Slovene) P.I.: Stanislav Gobec
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Agricultural Institute of Slovenia

Project:

35	Določevanje izvora sladkorjev vin s kombinacijo SNIF-NMR, IRMS in kemometričnimi metodami (Slovene) P.I.: Mitja Kocjancic
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Clinical Centre Ljubljana

Project:

36	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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Blood Transfusion Centre of Slovenia

Project:

37	Prion diseases and their diagnostics P.I.: Vladka Curin-Serbec, project no.: L3-6006-0311
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Biotechnical Faculty, University of Ljubljana

Program:

38	Biokemijska in biofizikalno kemijska karakterizacija naravnih snovi (Slovene) P.I.: Veronika Abram, project no.: P4-0121-0481
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Project:

39	Bioaktivne komponente iz alternativnih virov (Slovene) P.I.: Helena Abramovič, project no.: J7-7604-0481
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**Faculty of Natural Sciences and Engineering, Department of Textiles,
University of Ljubljana**

Program:

40	Textiles and Ecology P.I.: Marija Gorenek, program no.: P2-0213
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Project:

41	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:

42	Characterization of hop essential oils (<i>Humulus lupulus</i> L.) P.I.: Iztok Kosir, project no.: L1-6660-0416
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**Faculty of Mechanical Engineering, Institute for Engineering Materials and
Design, University of Maribor**

Project:

43	Development of Smart Polymer Surfaces - POLYSURF P.I.: Vanja Kokol, Contract no.: MTKD-CT-2005-029540
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International projects

44	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)
45	COST D31 working group (D31/0021/05) entitled "Novel and Specific Anion Receptors for use in Sensor Technology" P.I. (for NIC): Janez Plavec (NIC)
46	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)
47	Merjenje razdalj med istovrstnimi kvadrupolnimi jedri (Slovene) PROTEUS Slovenia-France P.I.: Gregor Mali and Francis Taulelle
48	Katalizatorji na osnovi mikro-/mezoporoznih kompozitov (Slovene) PROTEUS Slovenia-France P.I.: Venceslav Kaucic and Frederic Thibault-Starzyk
49	In-situ study and development of processes involving nano-porous solids NoE FP6 - INSIDE POREs P.I.: Venceslav Kaucic

50	Hierarhični nanoporozni katalizatorji: sinteza, karakterizacija in določitev katalitskih lastnosti (Slovene) P.I.: Natasa Novak Tusar (Proteus 2007-2008)
51	Modificirani mezoporozni oksidi (Slovene) P.I.: Venceslav Kaucic, project no.: BI-AR/06-08/02
52	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
53	Prevodni polimeri s heteroatomi 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
54	Functional Coatings (NANOFUN-POLY) P.I.: Ema Zagar
55	Nanoscale functionalities for targeted delivery of biopharmaceutics, sinonim Nano(biopharmaceutics) P.I.: Peter Venturini (6. okv. program EU)
56	Nanophase polymer-composite systems for solar cels and electronic device P.I.: Majda Zigon, project no.: BI-CZ/07-08/003
57	The Preparation of polymeric nanocomposite using layered silicates modified by polyions P.I.: Miroslav Huskic, project no.: BI-HR/07-08/039
58	SvenSloBatt P.I.: Robert Dominko, project no.: MNT ERANET (3211-07-000022)
59	Structural Studies of Inositol poly-Phosphate Kinases (Marie Curie International Reintegration Grant) (Marie Curie International Reintegration Grant) P.I.: Marjetka Podobnik, project no.: MIRG-6-CT-2005-014882
60	Metal Compounds in the Treatment of Cancer COST D 20 P.I.: Natasa Bukovec
61	New fluorous media and process for cleaner and safer chemistry COST 29 P.I.: Jernej Iskra

Contracts with partners from industry

Lek d.d., Slovenia

62	Pogodba o sodelovanju st. BIO 9/2006 (Slovene) P.I.: Janez Plavec
63	Pogodba CRO-S 15/2006. Dolocanje strukturnih parametrov farmacevtskih substanc z NMR spektroskopijo (Slovene) P.I.: Janez Plavec
64	Industrijski projekt: Lek d.d.: NMR spremljanje vezave novih inhibitorjev MurD ligaze / Pogodba RU-2007 (Slovene) P.I.: Simona Golic Grdadolnik
65	NMR študije vezave inhibitorjev na proteinske fragmente (Slovene) P.I.: Simona Golic Grdadolnik, project no.: RU-103/2005

66	Strukturna analiza bioloskih zdravil (Slovene) P.I.: Primoz Pristovsek
67	Prstni odtis proteina z NMR in kemometrijo (Slovene) P.I.: Primož Pristovšek (KI-L12), Marjana Novič (KI-L3), Viktor Menart (Lek)
68	Sinteza potencialnih farmacevtskih učinkovin (Slovene) P.I.: Barbara Mohar

Krka d.d., Slovenia

69	Pogodba st. II/25-106 259 - 106632/2007 (Slovene) P.I.: Janez Plavec
70	Strukturne študije z NMR (Slovene) P.I.: Venčeslav Kaučič (KI), Marija Grčman (Krka)
71	Razvoj neodvisnih postopkov do farmacevtskih intermediatov (Slovene) P.I.: Barbara Mohar

PhosPhoenix SARL, France

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

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