



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

Research | 2009

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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 2009

National Institute of Chemistry

Programs:

1	Chemistry and structure of biologically active compounds P.I.: Janez Plavec, program no.: P1-0242
2	Folding and Dynamics of Biomolecular Systems P.I.: Franc Avbelj, program no.: P1-0010
3	Molecular biotechnology: from dynamics of biological systems to applications P.I.: Roman Jerala, program no.: P4-0176
4	Nanoporous materials P.I.: Venceslav Kaucic, program no.: P1-0021
5	Functional food and food supplements P.I.: Irena Vovk, program no.: P1-0005
6	Specialty polymers P.I.: Majda Zigon, program no.: P2-0145
7	Micro- and nanostructured functional materials: development, physical-chemical characterization and simulation of processes P.I.: Miran Gaberscek, program no.: P2-0148
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 (Slovene) P.I.: Boris Orel, program no.: P1-0030

Projects:

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

13	Peptidi za preprečevanje odziva na bakterijski endotoksin (Slovene) P.I.: Primož Pristovsek, project no.: J1-9793
14	Mehanizem in diagnostika replikacije prionov (Slovene) P.I.: Roman Jerala, project no.: J3-9548
15	Interakcija LPS s proteinom gp120 virusa HIV-1 kot osnova za nov tip inhibicije vezave virusa na T-celice P.I.: Andreja Majerle, project no.: J3-9155
16	Novi ligandi za asimetrično katalizo (Slovene) P.I. : Barbara Mohar, project no.: J1-9806
17	Karakterizacija interakcij ligand-receptor (Slovene) P.I. : Simona Golic Grdadolnik, project no.: J1-0317
18	Strukturno podprto načrtovanje novih inhibitorjev DNA giraz (Slovene) P.I. : Tomaz Solmajer, project no.: J1-0308
19	Fosfodiesteraza cikličnih nukleotidov iz <i>Mycobacterium tuberculosis</i>: struktura in funkcija (Slovene) P.I.: Marjetka Podobnik, project no.: L1-0378
20	Kondenzirane ionske tekočine in njihova uporaba v elektrokromnih sklopih (Slovene) P.I.: Angela Šurca Vuk, project no.: J2-9531
21	Priprava in karakterizacija hibridnih, nanostrukturiranih premazov za korozijsko zaščito kovinskih površin (Slovene) P.I.: Boris Orel, project no.: M1-0238

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
23	Light and Matter P.I.: Martin Copic, program no.: P1-0192
24	Physics of soft matter, surfaces, and nanostructures P.I.: Slobodan Zumer, program no.: P1-0099
25	Experimental biophysics of complex systems P.I.: Janez Strancar, program no.: P1-0060
26	Inorganic Chemistry and Technology P.I.: Boris Zemva, program no.: P1-0045
27	Contemporary inorganic materials and nanotechnologies P.I.: Suvorov Danilo, program no.: P2-0091
28	Proteoliza in njena regulacija (Slovene) P.I.: Boris Turk, program no.: P1-0140
29	Kroženje snovi v okolju, snovna bilanca in modeliranje okoljskih procesov ter ocena tveganja (Slovene) P.I.: Milena Horvat, program no.: P1-0143

Faculty of Chemistry and Chemical Technology, University of Ljubljana

Program:

30	Bioinorganic and bioorganic chemistry P.I.: Peter Bukovec, program no.: P1-0134
31	Chemical engineering and technology P.I.: Matjaz Krajnc, program no.: P2-0191
32	Physical Chemistry P.I.: Vojeslav Vlachy, program no.: P1-0201
33	Synthesis, structure, properties of matters and materials P.I.: Ivan Leban, program no.: P1-0175

Projects:

34	Reaktivni intermediati pri transformacijah organskih spojin (Slovene) P.I.: Boris Sket, project no.: J1-9410
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Faculty of Pharmacy, University of Ljubljana

Programs:

35	Farmacevtska kemija: nacrtovanje, sinteza in vrednotenje ucinkovin (Slovene) P.I.: Danijel Kikelj, program no.: P1-0208
36	Farmacevtska biotehnologija: znanje za zdravje (Slovene) P.I.: Janko Kos, program no.: P4-0127

Projects:

37	Nove zdravilne ucinkovine biotehnološkega izvora z uporabo bakteriofagnega prikaza (Slovene) P.I.: Borut Strukelj, project no.: L4-1046
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Agricultural Institute of Slovenia

Project:

38	Izdelava izotopskih analiz vzorcev vina s slovenskim geografskim poreklom (Ministrstvo za kmetijstvo, gozdarstvo in prehrano) (Slovene) P.I.: Mitja Kocjancic, Franc Cus
39	Spremljanje nekaterih parametrov kakovosti in geografskega porekla vina cviček PTP (Slovene) P.I.: Franc Cus, project no.: V4-0518

Clinical Centre Ljubljana

Project:

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

Program:

41	Biokemijska in biofizikalno kemijska karakterizacija naravnih snovi (Slovene) P.I.: Natasa Poklar Urlih, program no.: P4-0121
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Program:

42	Textiles and Ecology P.I.: Barbara Simoncic, program no.: P2-0213
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TKK Serpenica

Project:

43	Sinteza tekočega nealkalnega pospešila za vezanje in strjevanje brizganega betona in vpliv pospešila na mehanske lastnosti brizganega betona (Slovene) P.I.: Luka Zevnik, project no.: Z2-1257
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International projects

44	Enhancing Access and Services To East European users towards an efficient and coordinated pan-European pool of NMR capacities to enable global collaborative research & boost technological advancements, akronim: EAST-NMR, proposal no.: 228461 P.I.: Janez Plavec
45	Razvoj in uporaba novih NMR tehnik z izboljšano ločljivostjo (Slovene), poljsko-slovenski bilateralni projekt P.I.: Wiktor Kozminski and Janez Plavec
46	COST MP0802: Samoorganizacija gvanozinskih struktur za molekularne elektronske naprave (Slovene) P.I. (for NIC): Janez Plavec
47	COST D31 working group (D31/0021/05) entitled "Novel and Specific Anion Receptors for use in Sensor Technology" P.I. (for NIC): Janez Plavec
48	Smart Porous Composite Materials (Slovenia-Norway) P.I.: Venceslav Kaucic
49	PUREWATER - Eureka project P.I.: Venceslav Kaucic, project no.: 3211-08-000208
50	Odkrivanje fenomena zvitja proteinov preko konformacijske analize majhnih linearnih peptidov (Slovene) (Slovenia-Cyper) P.I.: Simona Golic Grdadolnik and T. Mavromoustakos, project no.: BI-CY/08-09-004
51	COST-40 Action Innovative Catalysis: New Processes and Selectivities P.I.: Barbara Mohar
52	Innovative Switchable Shading Applicances based on Nano-materials and Hybrid Electrochromic Device Configurations (INNOSHADE, Collaborative EU Project) P.I.: Boris Orel, project no.: FP7-NMP-2007-CP-200431
53	FP7-NMP-2007-CP-200431) 49. Multifunctional paint coatings for "all-polymeric" solar thermal collectors (MULTIFUNCOAT) P.I.: Boris Orel, project no.: 3211-09-000029
54	An integrated immunological and cellular strategy for sensitive TSE diagnosis and strain discrimination (TSEUR) P.I.: Roman Jerala (NIC), Prof. Aguzzi

55	Nanoscale functionalities for targeted delivery of biopharmaceutics, sinonim Nano(biopharmaceutics) P.I.: Peter Venturini (6. okv. program EU)
56	Novel generation of polymethacrylate / zinc oxide nanocomposites for advanced applications, akronim Novapol P.I.: Zorica Crnjak Orel, ERA-NET MNT, project no: 3211-09-000031
57	SvenSloBatt P.I.: Robert Dominko, project no.: MNT ERANET (3211-07-000022)
58	Food analysis using Isotopic Techniques - Proficiency Testing Scheme (FIT-PTS) P.I.: Mitja Kocjancic
59	Načrtovanje in sinteza funkcionalnih materialov na molekularnem in nano nivoju (Slovene) (Slovenia-Serbia) P.I.: Danilo Suvorov (IJS), project no.: BI-RS/08-09-027
60	European Union FP6 Integrated Project EUR-INTAFAR P.I.: Stanislav Gobec (FFa), project no.: LSHM-CT-2004-512138
61	Eureka-Nanovision project P.I.: Marija Gorenssek (NTF), project no.: E!4043

Contracts with partners from industry

Lek d.d., Slovenia

62	Sodelovanje pri NMR spektroskopiji na KI, interpretacija NMR spektrov in molekularnega modeliranja / Pogodba 20/2008 (Slovene) P.I.: Simona Golic Gradolnik
63	Raziskovalno-razvojno sodelovanje (Slovene) P.I.: Ema Zagar

Krka d.d., Slovenia

64	Pogodba st. II/25-106 259 - 106632/2007 (Slovene) P.I.: Janez Plavec
65	Sodelovanje na področju kemijske sinteze (Slovene), pogodba II/19-106632/2008, št. 244/05-L08 P.I.: Barbara Mohar

Pliva d.d., Zagreb

66	Pogodba o sodelovanju na področju NMR spektroskopije (Slovene) P.I.: Janez Plavec
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ECOT d.o.o., Slovenia

67	Raziskave na področju površinsko aktivnih materialov (Slovene) P.I.: Stojan Stavber
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TKK Serpenica, Slovenia

68	Razvoj novih tipov superplastifikatorjev (Slovene) P.I.: Janez Plavec, Luka Zevnik (TKK)
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Melamin kemicna tovarna d.d. Kocevje, Slovenia

69	Pogodba o sodelovanju (Slovene)
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