



Ministry of Science,
Education and Sports

BMWF^a

Third Austrian-Croatian Science Days

18/19 October 2007
Graz / Austria

Researcher Profiles Catalogue

- Biochemistry and Biophysics
- Bioinformatics
- Biotechnology
- Cell- and Molecular biology
- Diagnostics and Medical technology
- Environmental technology
- Genetics and Proteomics
- Health care
- Immunology
- Medical research (incl. diseases)
- Microbiology
- Nano-biotechnology
- Nutrition Science and Food technology
- Pharmacology
- Systems biology



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Medical University of Graz - <i>Uni-Doz.MMag.Dr.med.Dr.rer.nat Zeno Földes-Papp</i> Partner.Offer Novel Energy Transfer Donor-Acceptor Pairs for Single-Molecule Applications in Solution and Live Cel	Austria
Medical University of Vienna - <i>Prof Dr, MPH Christian singer</i>	Austria
TU Graz, Institute of Biotechnology & Biochemical Engineering - <i>Dipl.-Ing. Dr.techn. Gerhart Braunegg</i> Coord.Offer Sustainable Polyhydroxyalkanoate Production	Austria
Medical University of Graz - <i>Prof. Dr. Harald Kessler</i> Partner.Offer Molecular diagnostics of infectious diseases	Austria
Austrian Medical Society (AMESO) - <i>Univ.Prof.Dr.med.,MBA Alfons Hammerle</i> Coord.Request Emergency and Intensive Care Medicine	Austria
Molekulare Biotechnologie GmbH - <i>Univ.Prof.Dr. Helmut Schwab</i> Partner.Offer Recombinant protein expression	Austria
Institute for Medical Research and Occupational Health - <i>MD, PhD, Primarius Rajka Liscic</i> Partner.Request Frontotemporal dementia	Croatia
Medical Faculty, Clinical Hospital Centre Zagreb - <i>Professor Kamelija Zarkovic</i> Partner.Offer Oxidative stress and lipid peroxidation of the central nervous system	Croatia
Graz University of Technology, Inst. of Biotechnology & Biochemical Engineering - <i>Dipl.-Ing. Dr. techn. Martin Koller</i> Coord.Offer Sustainable Polyhydroxyalkanoate production	Austria
School of Medicine University Josip Juraj Strossmayer Osijek - <i>doc. dr.sc. Ines Drenjancevic-Peric</i> Partner.Offer The control of microvascular reactivity - role of oxygen and other stimuli	Croatia
Josip Juraj Strossmayer University of Osijek/Mechanical Engineering Faculty - <i>Assoc.Prof. Dražan Kozak</i> Partner.Offer Numerical Simulation of Balloon Angioplasty	Croatia
IBG Institut für humanökologische Unternehmensführung - <i>Dr. Rudolf Karazman</i> Partner.Request Development of Croatian Version and Data Base for Human Work Index	Austria
Dr. Walter Wirkner - <i>Dr. Walter Wirkner</i> Partner.Offer Problems in aquatic ecology and lake management	Austria
Rudjer Boskovic Institute - <i>PhD Ivana Lescic Asler</i> Partner.Request CHARACTERIZATION OF NOVEL LIPOLYTIC ENZYMES OF SGNH FAMILY	Croatia
Institute of Oceanography & Fisheries - <i>PhD Ivona Mladineo</i> Partner.Offer miRNA involvement in the innate immune response of tuna, as a model for the endothermic fish	Croatia
Ruder Boskovic Institute - <i>PhD Suzana Borovic</i> Partner.Offer Oxidative stress and antioxidants in diseases, experimental tumor therapy and cell growth regulation	Croatia
Architekten Palisek & Partner - <i>Dipl.-Ing.Architect Ernst Peter Palisek</i> Coord.Offer Investors	Austria
Medical University Innsbruck - <i>Univ.Prof. Dr. Siegfried Schwarz</i> Partner.Offer Implementation of a Teaching Course in Molecular Modelling in the Medical Curriculum in Croatia	Austria
Rudjer Boskovic Institute - <i>Dr. Vilko Smrecki</i>	Croatia
Institute Ruder Boškovic - <i>Dr.sc. Stanislav Franciškovic-Bilinski</i> Partner.Request Pollution studies of stream sediments	Croatia

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Institute Ruder Boškovic - <i>Dr.sc. Halka Bilinski</i> Partner.Request Adsorption of pollutants on model colloids and stream sediments	Croatia
Faculty of Food Technology and Biotechnology Zagreb University - <i>Ms Tonci Rezić</i>	Croatia
BICRO - <i>Dr. Hrvoje Prpic</i>	Croatia
IDM - <i>Dr. Othmar Huber</i> Partner.Offer none	Austria
Faculty of Veterinary Medicine, University of Zagreb - <i>PhD Nadica Maltar-Strmecki</i> Partner.Offer IRRADIATED FOOD AND DRUGS SAFETY CONTROL BY EPR SPECTROSCOPY	Croatia
Department of Biochemical Eng., Faculty of Food Technology and Biotechnology - <i>Božidar Šantek</i> Partner.Request Hybrid integrated bioprocesses and sustainability of organic solvents production	Croatia
Depart. of Biochemical Engineering, Faculty of Food Technology & Biotechnology - <i>Predrag Horvat</i> Partner.Request Hybrid integrated bioprocesses and sustainability of organic solvents production	Croatia
Depart. Biochemical Engineering, Faculty of Food Technology & Biotechnology - <i>Mirela Ivancic</i> Partner.Request Hybrid integrated bioprocesses and sustainability of organic solvents	Croatia
Institute of Physics - <i>Dr. Goran Pichler</i> Partner.Offer Femtosecond laser plasma diagnostics	Croatia
TU Graz, Technologietransfer - <i>MMag. Franziska Stocker</i>	Austria
Federal Research and Training Centre for Forests, Natural Hazards and Landscape - <i>Dr. Berthold Heinze</i> Coord.Offer Improving the biological side of woody plant biomass production: molecular biomass breeding	Austria
Faculty of Forestry University of Zagreb - <i>Associated Prof. Davorin Kajba</i> Partner.Offer Forest tree breeding, short rotatin for biomass production, clonal seed orchards	Croatia
Rudjer Boskovic Institute - <i>PhD Tihomir Balog</i>	Croatia
Institute Rudjer Boskovic - <i>Dr Oliver Vugrek</i> Coord.Offer Impact of S-Adenosylhomocysteine hydrolase deficiency to epigenetic modifications and the methylome	Croatia
Ruder Boškovic Institute - <i>Ph.D. Ivan Habuš</i> Partner.Request Amino-beta-Lactams - Synthons for Biologically Interesting Compounds	Croatia
Faculty of Chemical Engineering and Technology, University of Zagreb - <i>Dr. sc. Sandra Babic</i>	Croatia
Faculty of Science - <i>Domagoj Baretic</i>	Croatia
RUDJER BOSKOVIC INSTITUTE - <i>Dr MIRJANA ECKERT-MAKSIC</i> Partner.Request Synthesis and Catalytic and Biological Testing of New Guanidine Derivatives	Croatia
Zagreb University School of medicine - <i>professor, MD, PhD Jadranka Mustajbegovic</i> Partner.Offer Healthy workplace and working environment	Croatia
University Hospital for Infectious Diseases Dr. Fran Mihaljevic - <i>PhD Snježana Židovec Lepej</i>	Croatia

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Ruder Boškovic Institute - <i>Dr Ivo Piantanida</i> Partner.Offer New small molecules targeting macromolecules of tumor and inflammatory processes	Croatia
Faculty of Chemical Engineering and Technology, Dpt. Reaction Engineering - <i>MSc Karolina Maduna Valkaj</i> Coord.Request The Application of Catalysis in Environmental Protection (Main researcher: Prof. Stanka Zrnčević)	Croatia
Joanneum Research, Inst. of Water Resources Management - <i>Dr. Albrecht Leis</i> Partner.Offer Dynamics of hydro(geo)logical systems and process-based physicochemical mechanisms	Austria
Medical Faculty, Clinical Hospital Centre, Zagreb - <i>Ivana Racic</i>	Croatia
Dpt. for Biochemical Engineering, Faculty of Food Technology and Biotechnology - <i>PhD Anita Slavica</i>	Croatia
Rudjer Boskovic Institute, Dept. Materials Physics - <i>Dr. Nikola Radic</i> Partner.Request Ag-based binary alloys with refractory transition metals	Croatia
Austrian Academy of Sciences, Institute of Biophysics and Nanosystems Research - <i>Univ.-Doz. Georg Pabst</i> Partner.Offer Biophysics of Membranous Systems	Austria
University of Zagreb, School of Medicine - <i>prof.dr.sc. Jasminka Brnjac-Kraljevic</i>	Croatia
Rudjer Boskovic Institute - <i>PhD Zorka Mikloska</i> Partner.Offer The immunopathogenesis and therapy of genital herpes and human papilloma virus infection	Croatia
Austrian Academy of Sciences - <i>Dr. Anan Yaghmur</i> Partner.Offer Self-assembled lipid nanostructures as nanocarriers	Austria
School of Medicine - <i>Prof dr sc Zvezdana Roller-Lutz</i>	Croatia
Rudjer Boskovic Institute - <i>PhD. Chemistry Nada Horvatincic</i> Partner.Offer Isotope investigation of environment and palaeoclimate; cooperation with Joanneum Research, Graz	Croatia
Faculty of Chemical Engineering and Technology University of Zagreb - <i>Dr.sc. Alka Horvat</i>	Croatia
University of Graz, Office of Research Management and Service - <i>Dr. Manfred Hall</i>	Austria
Rudjer Boskovic Institute - <i>Dr Mariastefania Antica</i> Partner.Offer Lymphocyte development and differentiation from hematopoietic stem cells	Croatia
Rudjer Boskovic Institute - <i>Dr Magdalena Grce</i> Partner.Offer Molecular diagnostics of HPV and epigenetic modification in HPV associated lesions	Croatia
Rudjer Boskovic Institute - <i>Dr. Marija Luic</i> Coord.Request -	Croatia
Rudjer Boskovic Institute - <i>Marijana Klasnic Kozar</i>	Croatia
Rudjer Boskovic Institute - <i>B.Sc.Ecc. Vesna Kotarski</i>	Croatia
Rudjer Boskovic Institute - <i>B.Sc.Ecc. Renata Slovinic</i>	Croatia

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Rudjer Boskovic Institute - <i>Dr. sc. Andrea Mogus Milankovic</i>	Croatia
JOANNEUM RESEARCH Forschungsgesellschaft mbH, Laser Center Leoben - <i>Dr. Wolfgang Waldhauser</i> Partner.Offer Functional thin coatings for medical products (e.g. implants, prostheses, biosensors, biochips)	Austria
Rudjer Boskovic Institute - <i>PhD Silva Hecimovic</i> Partner.Request The cholesterol-mediated neurodegeneration in Niemann Pick type C disease and Alzheimer's disease	Croatia
University of Rijeka - <i>Natasa Jakominic Marot</i>	Croatia
University of Rijeka - <i>Ivana Klarin</i> Partner.Offer ii i	Croatia
University of Rijeka - <i>professor Zdravko Lenac</i>	Croatia
Faculty of Arts and Sciences - <i>Ivana Ilijasic Misic</i> Partner.Request anything that includes social sciences and humanities	Croatia
Rudjer Boskovic Institute - <i>Dr Branko Pivac</i>	Croatia
APS - <i>Mag. Andrea Fenz</i>	Austria
Croatian Institute for History - <i>PhD Robert Skenderovic</i>	Croatia
Ruder Boškovic Institute - <i>Dr. sc. Sanja Tomic</i> Partner.Offer Designing new specific proteins or ligands	Croatia
Austrian Academy of Sciences - <i>DI Aden Hodzic</i> Partner.Request SUPRAMOLECULAR ORGANIZATION OF MAIRNE BIOPOLYMERS AT NANOSCAL	Austria
Rudjer Boskovic Institute - <i>PhD Vesna Svetlicic</i> Partner.Request SUPRAMOLECULAR ORGANIZATION OF MAIRNE BIOPOLYMERS AT NANSCALE	Croatia
Rudjer Boskovic Institute - <i>B.Sc. Tea Misic</i> Partner.Request SUPRAMOLECULAR ORGANIZATION OF MAIRNE BIOPOLYMERS AT NANSCALE	Croatia
Johannes Kepler Universität Linz, Institut für Organische Chemie - <i>Prof. Dr. Norbert Müller</i>	Austria
Hrvatko-austrijsko drustvo - <i>prof.dr.sc. Stjepan Jecic</i>	Croatia
hrvatsko-austrijsko drustvo - <i>Mr.sc. Ranka Franz Stern</i>	Croatia
Hrvatsko-autrijsko drustvo - <i>Mr.sc. Kristina Gamirsek-Snidarsic</i>	Croatia
Hrvatsko-austrijsko drustvo - <i>mr.bib Dubravka Kunstek</i>	Croatia
Österreichisch-Kroatische Gesellschaft Salzburg - <i>Mag. Sandra Zuljic</i>	Austria
Institute for medical research and occupational health - <i>Ph D Mladen Pavlovic</i>	Croatia

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Partner.Request Respiratory morbidity risk assesement in general population of Croatia: a prospective stry	
Faculty of Mechanical Engineering and Naval Architecture - <i>Ph.D. Lidija Curkovic</i>	Croatia
Partner.Offer UV (N2) laser ablation on metal, alloys and wooden surface	
School of Medicine, University of Zagreb, Department of Microbiology - <i>Professor branka Bedenic</i>	Croatia
Partner.Offer Molecular characterization of extended-spectrum beta-lactamases and metallo-beta-lactamases	
Rudjer Boskovic Institute - <i>PhD Tomislav Smuc</i>	Croatia
Partner.Offer Knowledge technologies for biomedical research and health care	
Pliva Croatia d.o.o. - <i>Dr Lidija Smejkal-Jagar</i>	Croatia
Faculty of Food Technology and Biotechnology - <i>BcS Irena Jelacic</i>	Croatia
Partner.Request Sweet and fermented products based on whey or soymilk	
University of Zagreb, Faculty of Chemical Engineering and Technology - <i>Dr. Tomislav Bolanca</i>	Croatia
Coord.Request Monitoring of oilfield water quality for development of environmental technology	
PLIVA HRVATSKA d.o.o. - <i>M.sc. ANDREA PIFAT-SULEJMANOVI&#262;</i>	Croatia
Farmaceutsko-biokemijski fakultet - <i>mr.ph Maja Bival Štefan</i>	Croatia
Farmaceutsko-biokemijski fakultet - <i>dipl.ing. Jasna Jablan</i>	Croatia
Faculty of Pharmacy and Biopchemistry - <i>PhD Mario Gabricevic</i>	Croatia
Partner.Offer Interaction of proteins and small molecules	
Croatian Institute of Technology - <i>Andrej Cuš</i>	Croatia
Croatian Institute of Technology - <i>Dario Kordic</i>	Croatia
Faculty of Food Technology and Biotechnology - <i>B.Sc. Dunja Horzic</i>	Croatia
Federal Ministry of Science and Research - <i>Prof. Manfred Horvat</i>	Austria
Faculty of Food Technology and Biotechnology - <i>Ph.D. Rajka Božanic</i>	Croatia
Partner.Request Sweet and fermented products based on whey or soymilk	
Faculty of Food Technology and Biotechnology - <i>Ph.D. Draženka Komes</i>	Croatia
Faculty of Food Technology and Biotechnology - <i>B.Sc. Anet Režek Jambrak</i>	Croatia
Faculty of Food Technology and Biotechnology - <i>Ph.D. Karin Kovacevic Ganic</i>	Croatia
Faculty of naturel sciency, matematics and kineziology - <i>Nada Ilic (rod. Pekic)</i>	Croatia
Partner.Request Construction principles of selective AMP	
Farmaceutsko-biokemijski fakultet - <i>Ivan Kos</i>	Croatia
Space Research Institute Graz, Austrian Academy of Sciences - <i>Mag. Dr. Manuela Temmer</i>	Austria

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PREHRAMBENO BIOTEHNOLOŠKI FAKULTET - <i>STUDENT LEA sulejmanovic</i>	Croatia
Pliva Hrvatska d.o.o. - <i>Dr Franjo Ivusic</i>	Croatia
Filozofski fakultet u Zagrebu - <i>Ida Jagar</i>	Croatia
Ruder Boskovic Institute - <i>Dr Igor Weber</i> Partner.Request Biophotonics applications in cell motility research	Croatia
Rudjer Boskovic Institute - <i>Ph. D. Suzana Šegota</i> Partner.Request SUPRAMOLECULAR ORGANIZATION OF MARINE BIOPOLYMERS AT NANOSCALE,	Croatia
Aurora Fine Chemicals Ltd. - <i>Dr. Alexander Kutyrev</i> Partner.Offer From biological target to drug molecules.	Austria
Rudjer Boškovic Institute - <i>professor Zvonimir Maksic</i>	Croatia
Filozofski fakultet u Rijeci - <i>Marija Brkic</i>	Croatia
Ludwig Boltzmann Institute for Experimental and Clinical Traumatology - <i>PhD Gudrun Schmidt-Gann</i> Partner.Request Preclinical models in the field of ischemia/reperfusion, shock, inflammation, sepsis	Austria
University of Zagreb, Faculty of Textile Technology - <i>Dr.sc. Alka Mihelic-Bogdanic</i>	Croatia
University of Zagreb, Faculty of Chemical Engineering and Technology - <i>Dr. sc. Rajka Budin</i>	Croatia
Faculty of Pharmacy and Biochemistry - <i>mr. pharm. Tin Weitner</i>	Croatia
Ruder Boškovic Institute - <i>Dr. Hrvoje Fulgosi</i> Partner.Request Regulatory mechanisms of oxygenic photosynthesis	Croatia
Faculty of Medicine, University of Rijeka - <i>Ljiljana Pintar</i>	Croatia
Rudjer Boskovic Institute - <i>Dr.sc. Dusica Vujaklija</i>	Croatia
University of Graz, Institute of Chemistry - <i>Dr. Klaus Zangger</i>	Austria
Faculty of Chemical Engineering and Technology University of Zagreb - <i>Professor Vesna Tomasic</i> Partner.Offer Application of Catalysis in Environmental Protection	Croatia
Human Nutrition & Metabolism Research and Training Center Graz - <i>Prof. Brigitte Winklhofer-Roob</i> Coord.Offer Novel Strategies for Prevention and Intervention of Obesity	Austria
University Graz - Dep. Geography and Regional Sciences - <i>Univ.Prof.Dr. Harald Eicher</i>	Austria
Austrian Inst. for the Dev. of Env. Assessment (ANIDEA) - <i>Dr. Ralf Aschemann</i> Partner.Request Not finalised, yet	Austria
Österreichische Akademie der Wissenschaften, Balkankommission - <i>Dr. Latica Maric</i>	Austria
Medical Faculty University of Rijeka - <i>Prof, PhD Blazenka Grahovac</i>	Croatia

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[Partner.Offer](#) Human papillomavirus in cervical neoplasia: Are mRNA methods superior to DNA methods ?

Faculty of Food Technology and Biotechnology - *Sven Karlovic* **Croatia**

Zagreb -university School of medicine;Andrija Stampar School of Public Health - *MD Rajna Golubic* **Croatia**

[Partner.Offer](#) Healthy workplace and working environment

Das Kinderwunsch Institut - *Mag. Thomas Semlitsch* **Austria**

[Partner.Request](#) New techniques and therapies in Assited reproductive medicine

Faculty of Electrical Engineering and Computing in Zagreb - *Ivica Martinjak* **Croatia**

Inst. f. Chemie, KF-Universität Graz - *Dr. Walter Keller* **Austria**

[Partner.Offer](#) Structural and biophysical investigations of medically imortant proteins

Faculty of Pharmacy and Biochemistry - *Professor Kresimir Sankovic* **Croatia**

JKU-Linz - *DI. Dr. Wolfgang Schoefberger* **Austria**

[Partner.Offer](#) Telomerase inhibition using modified porphyrins -structural studies on proteins

Centre for Social Innovation Vienna - Austrian Science and Research office Ljubl - *Miroslav Polzer* **Austria**

Karl Franzens University Graz, Institute of Chemistry - *Dr. Tea Pavkov* **Austria**

[Partner.Offer](#) Structural and biophysical characterisation of medically important proteins

Joanneum Research, Inst. of Non-Invasive Diagnosis - *DI Matthias Frühwirth* **Austria**

[Partner.Offer](#) Noninvasive patient and health monitoring systems

Office of International Relations - *Mag. Sabine Pendl* **Austria**

University of Graz - *Mag., M.A. Dietlinde Kastelliz* **Austria**

Ruder Boškovic Institute - *MSc Duje Bonacci* **Croatia**

[Partner.Request](#) European academic news network

JOANNEUM RESEARCH GmbH, Medical Technologies (MSG) - *DI Manfred Bodenlenz* **Austria**

[Partner.Request](#) PROBES & SYSTEM FOR IN VIVO DRUG TESTING: Novel approach for drug PK-PD studies in skin

JOANNEUM RESEARCH Forschungsgesellschaft mbH - *Mag. Daniel Steiner* **Austria**

Austrian Research Promotion Agency (FFG) - *Ralf König* **Austria**

Austrian Research Promotion Agency (FFG) - *Robert Worel* **Austria**

Austrian Research Promotion Agency (FFG), Austrian EUREKA Office - *Dr. Petra Zwirn* **Austria**

Rudjer Boskovic Institute - *Dr. Neven Zarkovic* **Croatia**

[Partner.Request](#) Experimental cancer therapies, biomedicine and biotechnology of oxidative stress

Austrian Federal Ministry of Science and Research - *Mag. Gisela Zieger* **Austria**

JOANNEUM RESEARCH Forschungsgesellschaft mbH - *dipl.soc.del. Andrejka Kodele* **Austria**

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JOANNEUM RESEARCH Forschungsgesellschaft mbH - <i>Hon.-Prof. Dr. Bernhard Pelzl</i>	Austria
Austrian Federal Ministry of Science and Research, Department f. Intern. Coop. - <i>Mag. Buzeczki Christine</i>	Austria
Croatian Austrian Society Zagreb, Rudjer Boskovic Institute - <i>Professor Greta Pifat</i> <i>Mrzljak</i>	Croatia
Ministry of science, education and sport - <i>Drazen Vikic Topic</i>	Croatia
Ministry of science, education and sport - <i>Radovan Fuchs</i>	Croatia
Ministry of science, education and sport - <i>Branka Ravlic</i>	Croatia
Ministry of science, education and sport - <i>Gordana Prutki Pecnik</i>	Croatia
Institut Rudjer Boskovic - <i>Mladen Zinic</i>	Croatia
Croatian Institute of technology - <i>Pero Munivrana</i>	Croatia
Faculty of Veterinary Medicine University of Zagreb - <i>PhD Terezija Silvija Marenjak</i> Partner.Offer Quality improvement of animal-derived products	Croatia
Austrian Federal Ministry of Economics and Labour - <i>Georg Panholzer</i>	Austria
Institute Ruder Boskovic - <i>dr Boris Rakvin</i> Partner.Request Detection and assignment paramagnetic species with advance EPR/ESR spectroscopy	Croatia
BioNanoNet Forschungsgesellschaft mbH - <i>Dr. Frank Sinner</i> Partner.Request Development and coordination of (applied) research projects	Austria
Faculty of veterinary medicine - <i>PhD, DVM Nikica Prvanovic</i> Coord.Request management of reproduction in authentic croatian horse breeds	Croatia
JOANNEUM RESEARCH - <i>Silvia Russegger</i>	Austria
Faculty of Phylosophy - <i>Sanja Fulgosi</i> Partner.Request formal linguistics	Croatia
Joanneum Research - <i>Dr. Reinhard Padinger</i> Coord.Offer any activity in Renewables RTD	Austria
Kropatisch-Oestereichische Handelskammer, c/o Raiffeisen- Landesbank Steiermark - <i>Slavko Begic</i>	Austria
Karl-Franzens-University Graz, Institute of Chemistry, Analytical Chemistry - <i>Dr</i> <i>Dijana Juresa</i>	Austria
Botschaft der Republik Kroatien - <i>Prof.Dr. Zoran Jasic</i>	Austria
Raiffeisen-Landesbank Steiermark AG - <i>Tamara Tanfara-Rakar</i>	Austria
Joanneum Research - <i>Mag. Andreas Tuerk</i>	Austria

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[Partner.Request Emissions Trading in Croatia](#)

Rudjer Boskovic Institute - *dr Branimir Bertosa*

Croatia

JOANNEUM RESEARCH Forschungsgesellschaft - *Milenka Pelzl*

Austria

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Medical University of Graz

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www	-	
Organisation Type	University	

Contact Person

Name	Uni-Doz.MMag.Dr.med.Dr.rer.nat Zeno Földes-Papp
Position	Principal Investigator, Project Leader
Email	Zeno.Foldes-Papp@meduni-graz.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation **Both**
EU RP7 Cooperation Project

Areas of activity

Biochemistry and Biophysics
Cell- and Molecular biology
Diagnostics and Medical technology
Immunology

Short description of organisation

RESEARCH ACTIVITIES: Medical University

INTERNATIONAL EXPERTISE IN RTD: Human diseases, patients

Partner.Offer **Novel Energy Transfer Donor-Acceptor Pairs for Single-Molecule Applications in Solution and Live Cel**

DESCRIPTION OF EXPERTISE OFFERED:

I have a long track-record in fluorescence correlation spectroscopy, two-color fluorescence cross-correlation spectroscopy and imaging microscopy as well as related fluorescence fluctuation methods.

Half Special Issue Exploring the Biomedical Applications of Microscopy and Spectroscopy, Guest-Editor: Z. Földes-Papp, published in Experimental & Molecular Pathology in the April 2007 issue, <http://www.sciencedirect.com/science/journal/00144800>

My current research and expertise: experimental and theoretical analysis of single molecules such as individual gene variability, single DNA molecule sequencing and selection of a new DNA polymerase, single immobilized horseradish peroxidase molecules, and individual immune complexes in solution without immobilization or hydrodynamic focusing.

REFERENCES

Földes-Papp Z (2007). Fluorescence fluctuation spectroscopic approaches to the study of a single molecule diffusing in solution and a live cell without systemic drift or convection: a theoretical study. Curr. Pharm. Biotechnol. 8(5), 261-273.

Földes-Papp Z (2007). True single-molecule molecule observations by fluorescence correlation spectroscopy and two-color fluorescence cross-correlation spectroscopy. Exp. Mol. Pathol. 82(2), 147-155.

Braet C, Stephan H, Dobbie IM, Togashi DM, Ryder AG, Földes-Papp Z, Lowndes N, Nasheuer HP (2007). Mobility and distribution of replication protein A in living cells using fluorescence correlation spectroscopy. Exp. Mol. Pathol. 82(2), 156-162.

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Földes-Papp Z (2007). Exploring the biomedical applications of microscopy and spectroscopy. *Exp. Mol. Pathol.* 82(2), 103.

Földes-Papp Z (2006). What it means to measure a single molecule in a solution by fluorescence fluctuation spectroscopy. *Exp. Mol. Pathol.* 80 (3), 209-218.

Földes-Papp Z, Baumann G, Kinjo M, Tamura M (2005). Single-phase single-molecule fluorescence correlation spectroscopy (SPSM-FCS). Distinguished article entry. In: J Fuchs, M Podda (Eds.), *Encyclopedia of Medical Genomics & Proteomics*, Marcel Dekker, New York (USA).

Földes-Papp Z, Ed. (2007). Half Special Issue "Exploring the Biomedical Applications of Microscopy and Spectroscopy". *Exp. Mol. Pathol.* 82 (2), 103-189.

Földes-Papp Z (2008). Viral Chip Technology for Genomic Medicine. In: HF Willard, GS Ginsburg (Eds.), *Handbook of Genomic Medicine*. Academic Press, New York (USA), in press.
http://www.ybp.com/acad/ads/0707_elsev_genomic.html

INNOVATIVE RTD ASPECT:

The main goal is to develop and synthesize/produce an optimal energy transfer pair that will yield maximum fluorescence emission upon hybridization of the oligonucleotide probe to the complementary DNA/RNA target with the lowest possible fluorescence background in the non-hybridized state and with a signal-to-background ratio of around 200 or more inside live cells.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Design of replacements with superior properties for the quenchers and acceptors, chemical synthesis, photophysical characteristics, chemical and photochemical stability measurements in buffered aqueous solutions.

Development and evaluation of novel energy transfer donor-acceptor pairs for single-molecule applications in solution and live cells.

OTHER SPECIFIC RTD ASPECTS NEEDED:

New chemical oligonucleotide modifications (synthons for chemical oligonucleotide synthesis) with increased thermodynamical hybridization/DNA-RNA target binding and tuning of nuclease resistance for intracellular applications.

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Medical University of Vienna

Address	Spitalgasse 20 1090 Vienna	Austria
Phone / Fax	T:+43 1 40400 2801 / F:+43 1 40400 2323	
www	meduniwien.ac.at	
Organisation Type	University	

Contact Person

Name **Prof Dr, MPH Christian singer**
Position Professor
Email christian.singer@meduniwien.ac.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Cell- and Molecular biology
Health care
Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES:
breast cancer, public health, ob/gyn, oncology, health care management

INTERNATIONAL EXPERTISE IN RTD:

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TU Graz, Institute of Biotechnology & Biochemical Engineering

Address	Petersgasse 12 8010 Graz	Austria
Phone / Fax	T:++433168738412 / F:++433168738434	
www		
Organisation Type	University	

Contact Person

Name	Dipl.-Ing. Dr.techn. Gerhart Braunegg
Position	aoUniv.Prof.
Email	g.braunegg@tugraz.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Offered Biotechnology
EU RP7 Cooperation Project	Offered Microbiology Others

Short description of organisation

RESEARCH ACTIVITIES:

Process development and optimization for biotechnological products from renewable resources, mainly agroindustrial waste and surplus products

INTERNATIONAL EXPERTISE IN RTD:

Ongoing projects with Croatia, Brazil, Germany and Italy
Coordinator in two EU projects, partner in three EU projects

Coord. Offer Sustainable Polyhydroxyalkanoate Production

DESCRIPTION OF EXPERTISE OFFERED: Development & optimization of a production process for biodegradable polyesters: fermentation technology, biochemical engineering

INNOVATIVE RTD ASPECT: Development of new high-tech materials from renewable resources

DESCRIPTION OF REQUESTED PARTNER PROFILE: Modeling of fermentation kinetics, characterization of newly isolated bacterial strains

OTHER SPECIFIC RTD ASPECTS NEEDED: Polymer chemistry & polymer characterization

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Medical University of Graz

Address	Universitaetsplatz 4 8010 Graz	Austria
Phone / Fax	T:+43 316 380 4363 / F:	
www		
Organisation Type	University	

Contact Person

Name	Prof. Dr. Harald Kessler
Position	Laboratory Director
Email	harald.kessler@meduni-graz.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)		Areas of activity
RTD-cooperation	Requested	Diagnostics and Medical technology
EU RP7 Cooperation Project	Requested	Medical research (incl. diseases) Microbiology

Short description of organisation

RESEARCH ACTIVITIES: Research in the field of molecular diagnostics of pathogens
INTERNATIONAL EXPERTISE IN RTD: WTZ Austria-Croatia, WTZ Austria-Hungary

Partner.Offer **Molecular diagnostics of infectious diseases**

DESCRIPTION OF EXPERTISE OFFERED: Automated nucleic acid extraction; real-time PCR including detection with different hybridization formats; DNA sequencing.
INNOVATIVE RTD ASPECT: Establishment and evaluation of new molecular assays for quantitation of pathogens; improved detection of mutations and subtyping.
DESCRIPTION OF REQUESTED PARTNER PROFILE: Department / institute with access to patients with infectious diseases /specimens obtained from patients with infectious diseases
OTHER SPECIFIC RTD ASPECTS NEEDED: None.

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Austrian Medical Society (AMESO)

Address	Hoefergasse 13/1 1090 Vienna	Austria
Phone / Fax	T:+43-664 421 7 120, +431 405456811 / F:+4314083811	
www	AMESO.at	
Organisation Type	R&D Institute	

Contact Person

Name	Univ.Prof.Dr.med.,MBA Alfons Hammerle
Position	President of the AMESO
Email	alfons.hammerle@meduniwien.ac.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	

Areas of activity

Diagnostics and Medical technology
Health care
Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES:Leadership in Health Care Management

INTERNATIONAL EXPERTISE IN RTD:

Coord.Request **Emergency and Intensive Care Medicine**

DESCRIPTION OF EXPERTISE OFFERED:
Critical Care Medicine, OP-Management,...

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:
Modern economic patient management, Economic aspects of Critical Care Medicine

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Molekulare Biotechnologie GmbH

Address	Mariagruenerstrasse 91 8043 Graz	Austria
Phone / Fax	T:+43 6648206740 / F:	
www	www.molbiotech.com	
Organisation Type	Company	

Contact Person

Name	Univ.Prof.Dr. Helmut Schwab
Position	CEO
Email	helmut.schwab@molbiotech.com
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Requested
EU RP7 Cooperation Project	Requested

Areas of activity

Biotechnology

Short description of organisation

RESEARCH ACTIVITIES:
Microbial Cell Engineering for Construction of production strains
Recombinant Protein Expression in

INTERNATIONAL EXPERTISE IN RTD:
none

Partner.Offer **Recombinant protein expression**

DESCRIPTION OF EXPERTISE OFFERED:
High level expression of heterologous genes in microbial systems, especially *Pichia pastoris*

INNOVATIVE RTD ASPECT:
Own developed systems for screening high expression strains

DESCRIPTION OF REQUESTED PARTNER PROFILE:
Wants to outsource gene expression problems

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Institute for Medical Research and Occupational Health

Address	Ksaverska c. 2, P.O. Box 291 10001 Zagreb	Croatia
Phone / Fax	T:+385 1 2348 342 / F:+385 1 2348 385	
www	www.imi.hr	
Organisation Type	R&D Institute	

Contact Person

Name	MD, PhD, Primarius Rajka Liscic
Position	Senior Research Associate; Neurologist
Email	rliscic@imi.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biotechnology
Diagnostics and Medical technology
Environmental technology
Health care
Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES: The Institute of Medical Research and Occupational Health (Institute) is the second largest research institution in Croatia. It covers wide range of disciplines, including occupational health medicine. The research is conducted through scientific projects, majority of which are national research projects, funded by the Ministry of Science, Education and Sports of the Republic of Croatia.

INTERNATIONAL EXPERTISE IN RTD: Long-standing collaboration is being maintained with the World Health Organization (WHO), the International Atomic Energy Agency (IAEA) and with institutions of the European Union (EU).

Partner.Request **Frontotemporal dementia**

DESCRIPTION OF EXPERTISE OFFERED: Neurological/neuropsychological expertise in Alzheimers disease and related disorders (specifically frontotemporal dementia); CDR (Clinical Dementia Rating) certified from Washington University in St. Louis, USA. Dr. RAJKA MARIJA LISCIC has spent 12-months as Fulbright scholar working with Prof. Dr. JC Morris, Director of the Alzheimers Disease Research Center (ADRC) Washington University in St. Louis, USA and during that time she finished clinical and research fellowship at Washington University focusing on Alzheimers disease, other dementing disorders, and the practice of geriatric neurology.

Dr. Liscic has maintained continous research funding through the Croatian Ministry of Science, Education and Sports since 1999. She was also P.I. on three bilateral projects between the Republics of Croatia and Slovenia. Currently she is P.I. on Frontotemporal dementia project (022-1340036-2083) and the bilateral project Frontotemporal dementia with motor neuron disease (533-06-06-0002) in collaboration with Prof. Dr. Janez Zidar, University of Ljubljana, in order to be able accurately to diagnose the disease and to deterine the nature of the differing pathological entities behind heterogeneous forms of lobar atrophy. She also collaborates within the project Pharmacogenomics, proteomics of serotonergic and catecholaminergic system (098-0982522-2457), Dorotea Muck-Seler PhD, P.I., Institute Rudjer Boskovic, Zagreb.

Dr. Liscic and collaborators applied for the FP7 collaborative project (FP7-HEALTH-2007-A, Prof. Rik Vandenberghe PI); N* 201488: The neurobiology of primary progressive aphasia: From genes and molecules to

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language decline, multiple targets for intervention. So far, they passed the evaluation threshold.

INNOVATIVE RTD ASPECT: These projects aim to determine a link and nature of cognitive impairment in patients with motor neuron impairment. Also, we aim to determine the nature of the differing pathological entities behind heterogeneous forms of frontotemporal lobar atrophy in collaboration with Prof. Nigel J Cairns, PhD, MRCPath, Washington University in St. Louis, USA.

The new insight into the molecular genetics and neuropathology of FTLD and MND will contribute toward an accurate diagnosis, foster clinicopathological studies and quest biomarkers and rationale therapy; Education-participating in seminars, lecturing

DESCRIPTION OF REQUESTED PARTNER PROFILE: Neurologist; neuroradiologist (neuroimaging); molecular biologist; neuropathologist

OTHER SPECIFIC RTD ASPECTS NEEDED: We search for partners who are experts on neurodegenerative disorders (Alzheimers disease, frontotemporal dementia). Recruitment of patients and further collaboration as already stated. Expanding our collaboration within the proposed FP7 project is to be expected.

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Medical Faculty, Clinical Hospital Centre Zagreb

Address	Kispaticeva 12 10000 Zagreb	Croatia
Phone / Fax	T:++385 1 2388 360 / F:++385 1 2421 906	
www		
Organisation Type	University	

Contact Person

Name	Professor Kamelija Zarkovic
Position	Head of Neuropathology
Email	kamelijazarkovic@yahoo.com
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Cell- and Molecular biology
Diagnostics and Medical technology
Medical research (incl. diseases)
Others

Short description of organisation

RESEARCH ACTIVITIES:

General pathology, neuropathology

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer **Oxidative stress and lipid peroxidation of the central nervous system**

DESCRIPTION OF EXPERTISE OFFERED:

Biopsy, autopsy, histochemistry, immunohistochemistry, electron microscopy, experimental pathology, human and animal cell biomedicine, cell culture analysis

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Graz University of Technology, Inst. of Biotechnology & Biochemical Engineering

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Phone / Fax	T:+00433168738905 / F:+00433168738434	
www		
Organisation Type	University	

Contact Person

Name	Dipl.-Ing. Dr. techn. Martin Koller
Position	Researcher
Email	martin.koller@tugraz.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Offered
EU RP7 Cooperation Project	Offered

Areas of activity

Biotechnology
Microbiology

Short description of organisation

RESEARCH ACTIVITIES: Biotechnological process development based on the conversion of renewable resources

INTERNATIONAL EXPERTISE IN RTD: Biotechnological process development; specialized in the production of biopolyesters (PHAs)

Coord. Offer [Sustainable Polyhydroxyalkanoate production](#)

DESCRIPTION OF EXPERTISE OFFERED:

Biotechnological process development for production of polyhydroxyalkanoate biopolyesters based on the conversion of renewable resources

INNOVATIVE RTD ASPECT: Sustainable development of high-quality materials from renewable low-cost substrates

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Mathematical modelling of kinetics from bioprocesses; characterization of newly isolated microbial strains

OTHER SPECIFIC RTD ASPECTS NEEDED: Polymer characterization and modification

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School of Medicine University Josip Juraj Strossmayer Osijek

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Phone / Fax	T:+38531512882 / F:+38531512833	
www	www.mefos.hr	
Organisation Type	University	

Contact Person

Name **doc. dr.sc. Ines Drenjancevic-Peric**
Position Vice dean for science
Email idperic@mefos.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project **Both**

Areas of activity

Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES: I lead Laboratory for circulatory physiology with emphasis on «in vitro» vascular rings reactivity «in vitro» videomicroscopy of the isolated perfused resistant blood vessels «in vivo» videomicroscopy of the vascular function of the microvascular pool, lectin staining, «in vivo» chronic monitoring and blood pressure measurements on instrumented animals, infusions, blood sampling biochemical measurements, spectrophotometry, Western blot.

Scientific interests: Control mechanisms of the blood flow through the tissue, functional and structural adaptation of microcirculation (resistant arteries and arterioles), genetic factors in the development of hypertension, interaction of various signalling systems in the cell and their common denominator which regulates cell function (endothelial and vascular smooth muscle cell) and function of blood vessels in response to different stimuli; the effect of physiological regulators of vascular function (vasodilators and vasoconstrictors, oxygen and mediators of arachidonic acid), role of the renin-angiotensin system in the control of vascular reactivity, the role of oxidative stress in pathophysiology of vascular reactivity, dysfunction of the blood vessels in diabetes mellitus and other microangiopathy, inflammation, atherosclerosis and sepsis.

INTERNATIONAL EXPERTISE IN RTD:

Partner Offer **The control of microvascular reactivity - role of oxygen and other stimuli**

DESCRIPTION OF EXPERTISE OFFERED: «in vitro» vascular rings reactivity «in vitro» videomicroscopy of the isolated perfused resistant blood vessels «in vivo» videomicroscopy of the vascular function of the microvascular pool, lectin staining, «in vivo» chronic monitoring and blood pressure measurements on instrumented animals, infusions, blood sampling biochemical measurements, spectrophotometry, Western blot, hyperbaric oxygen therapy, transient MCA occlusion model for cerebral stroke

INNOVATIVE RTD ASPECT: hyperbaric oxygen therapy

DESCRIPTION OF REQUESTED PARTNER PROFILE: experience in molecular biology

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OTHER SPECIFIC RTD ASPECTS NEEDED:

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Josip Juraj Strossmayer University of Osijek/Mechanical Engineering Faculty

Address	Trg Ivane Brlic-Mazuranic 2 35000 Slavonski Brod	Croatia
Phone / Fax	T:+38535446188 / F:+38535446446	
www	www.sfsb.hr	
Organisation Type	University	

Contact Person

Name	Assoc.Prof. Dražan Kozak
Position	Vice-dean for Science
Email	dkozak@sfsb.hr
Languages	Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation EU RP7 Cooperation Project	Others

Short description of organisation

RESEARCH ACTIVITIES: Higher education, research and development in the field of mechanical engineering generally, CAD, finite element analysis, structural integrity assessment of vital parts, simulation of angioplasty procedure.

INTERNATIONAL EXPERTISE IN RTD: Bilateral international projects with Hungary and Slovenia. Submitted bilateral project with partners from Montanuniversity Leoben (in the evaluation).

Partner.Offer Numerical Simulation of Balloon Angioplasty

DESCRIPTION OF EXPERTISE OFFERED: Leader of the project 152-1201910-1909 Analysis and fracture assessment of structures of anisotropic materials granted by Ministry of Science, Education and Sports of Republic of Croatia. The aim of the project is to reach the best performance of structural component in order to ensure safe service of heterogeneous and anisotropic materials, especially in biomechanics issue.

INNOVATIVE RTD ASPECT: Challenges in modeling atherosclerotic plaque following balloon angioplasty

DESCRIPTION OF REQUESTED PARTNER PROFILE: Knowledge about the numerical modeling and simulation in the medicine

OTHER SPECIFIC RTD ASPECTS NEEDED:

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IBG Institut für humanökologische Unternehmensführung

Address	Mariahilferstrasse 50/14 A-1070 Vienna	Austria
Phone / Fax	T:0043(0)69910075055 / F:00431524375122	
www	www.ibg.co.at	
Organisation Type	Company	

Contact Person

Name **Dr. Rudolf Karazman**
Position Director Research
Email r.karazman@ibg.co.at
Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation **Both**
EU RP7 Cooperation Project **Both**

Areas of activity

Health care
Others

Short description of organisation

RESEARCH ACTIVITIES:

Managing Human Sustainability at Work by Programs, methods and Instruments

INTERNATIONAL EXPERTISE IN RTD:

Partner.Request **Development of Croatian Version and Data Base for Human Work Index**

DESCRIPTION OF EXPERTISE OFFERED:

Human Ressources Management
Methods, Instruments and Programs for Human Sustainability Management
Occupational Medicine, Occupatioons Psychology, Leadership TRaining
Age Diversity Management

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Dr. Walter Wirkner

Address	Planoetzenhofstrasse 5 A-6020 Innsbruck	Austria
Phone / Fax	T:+43-664-2011660 / F:+43-512-278943	
www	members.aon.at/wirkner/	
Organisation Type	Other	

Contact Person

Name	Dr. Walter Wirkner
Position	Head
Email	dr.w.wirkner@chello.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Offered Environmental technology
EU RP7 Cooperation Project	Offered

Short description of organisation

RESEARCH ACTIVITIES: Limnology, aquatic ecology, lake investigation, river investigation, bio-assays, ecological flood protection, catchment area restructuring, botany

INTERNATIONAL EXPERTISE IN RTD: none

Partner.Offer [Problems in aquatic ecology and lake management](#)

DESCRIPTION OF EXPERTISE OFFERED:

Limnology, aquatic ecology, lake investigation, river investigation, bio-assays, ecological flood protection, catchment area restructuring, botany

INNOVATIVE RTD ASPECT: Establishment of artificial lakes for various purposes

DESCRIPTION OF REQUESTED PARTNER PROFILE: Problems in aquatic ecology and lake management

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Rudjer Boskovic Institute

Address	Bijenicka cesta 54 10002 Zagreb	Croatia
Phone / Fax	T:+385-1-4561111 / F:+385-1-4680245	
www	www.irb.hr	
Organisation Type	R&D Institute	

Contact Person

Name	PhD Ivana Lescic Asler
Position	senior assistant
Email	ilescic@irb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Requested Biochemistry and Biophysics
EU RP7 Cooperation Project	Requested Bioinformatics Biotechnology Microbiology Others

Short description of organisation

RESEARCH ACTIVITIES:

Our laboratory has expertise in small molecule and protein crystallography. It is interdisciplinary organised, from molecular biology and biochemistry to crystallography and molecular modelling (see: <http://www.irb.hr/en/str/zfk/labs/LKBK/istrazivanja>).

INTERNATIONAL EXPERTISE IN RTD:

Numerous bilateral and other research projects (mainly with Germany, Austria and Slovenia).

Partner.Request **CHARACTERIZATION OF NOVEL LIPOLYTIC ENZYMES OF SGNH FAMILY**

DESCRIPTION OF EXPERTISE OFFERED:

protein purification
biochemical characterization (including substrate specificity) of enzymes
protein crystallography
bioinformatics

INNOVATIVE RTD ASPECT:

proposed project is based on novel, yet uncharacterized, family of SGNH-hydrolases with potential use in biotechnology

DESCRIPTION OF REQUESTED PARTNER PROFILE:

researchers interested in SGNH-hydrolases with means for protein expression and access to different methods for protein purification and analysis (MS, CD, NMR, ...)

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Institute of Oceanography & Fisheries

Address	Setaliste Ivana Mestrovica 63 21000 Split	Croatia
Phone / Fax	T:++38521407048 / F:++38521358065	
www	http://www.izor.hr/	
Organisation Type	R&D Institute	

Contact Person

Name	PhD Ivona Mladineo
Position	Ass. prof.
Email	mladineo@izor.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Cell- and Molecular biology
Environmental technology
Immunology
Microbiology

Short description of organisation

RESEARCH ACTIVITIES: Aquaculture, fish diseases, fish immunology, fish parasitology.

INTERNATIONAL EXPERTISE IN RTD: Tuna diseases

Partner.Offer **miRNA involvement in the innate immune response of tuna, as a model for the endothermic fish**

DESCRIPTION OF EXPERTISE OFFERED:

With a unique thermoregulatory system that differs from other bony fish whose body temperature is strongly influenced by the environment and thus incapable of a constant efficient immunity response, tuna represents an intriguing model for the study of mechanisms of the innate immunity. In a preliminary study, I was able to measure the expression of TNF α and IL-1 β in temperature-stressed tuna by qPCR as well as observe their expression in parasite-infected gills using in situ hybridization. My facility offers experimental tanks, aquariums, vicinity to a tuna farm, basic equipment for oceanographic parameters measurement, PCR (qPCR planned for acquisition), epifluorescent and light microscopy, histological equipment and access to flow-cytometer and ultramicrotome (different laboratory).

INNOVATIVE RTD ASPECT:

With a breakthrough discovery of miRNA that except being engaged in cancer proliferation, seems to regulate the expression of genes involved in the innate immunity in mammals as well, it would be challenging to isolate and characterized putative lymphocytic miRNA from endothermic fish like tuna. The next step would be the functional analysis of such nucleic acids, especially their involvement in TNF α pathways. The overall goal would be a design of a microchip, able to indicate the state of health in sampled fish.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

The ideal partner would need to have a developed immunological laboratory where we would be able to cultivate tuna lymphocyte primary cell culture to test . Basic molecular biology equipment would be suitable.

OTHER SPECIFIC RTD ASPECTS NEEDED:

Except a good will and enthusiasm, everything else can be easily set up.

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Ruder Boskovic Institute

Address	Bijenicka 54 10000 Zagreb	Croatia
Phone / Fax	T:+385-1-4571213 / F:	
www	http://www.irb.hr/en/	
Organisation Type	R&D Institute	

Contact Person

Name	PhD Suzana Borovic
Position	research associate
Email	borovic@irb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biochemistry and Biophysics
Cell- and Molecular biology
Diagnostics and Medical technology
Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES:

experimental and theoretical physics, chemistry and physics of materials, organic and physical chemistry, biochemistry, molecular biology and medicine, environmental and marine research and computer science and electronics

INTERNATIONAL EXPERTISE IN RTD:

partnership with industry

Partner.Offer **Oxidative stress and antioxidants in diseases, experimental tumor therapy and cell growth regulation**

DESCRIPTION OF EXPERTISE OFFERED:

- in vivo and in vitro models for experimental therapy of cancer; proliferation, differentiation and apoptosis assays
- primary mesenchymal cell cultures; bone organocultures
- immuno assays: immunocytochemistry, ELISA
- analysis of oxidative stress and lipid peroxidation parameters: enzymatic assays for evaluation of antioxidative and oxidative parameters; HPLC analysis of malondialdehyde, 4-hydroxynonenal
- evaluation of novel antioxidants

INNOVATIVE RTD ASPECT:

- evaluation of toxicity and efficiency of novel antioxidants-
- development of new methods for oxidative stress estimation (ELISA for 4-hydroxynonenal)
- bone organoculture

DESCRIPTION OF REQUESTED PARTNER PROFILE:

- complementary R&D activities

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Architekten Palisek & Partner

Address	Jagdschlossgasse 7 1130 Wien	Austria
Phone / Fax	T:+43664 1200591 / F:	
www	palisek.com	
Organisation Type	Company	

Contact Person

Name	Dipl.-Ing.Architect Ernst Peter Palisek
Position	Owner
Email	architect@palisek.com
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Requested
EU RP7 Cooperation Project	

Areas of activity

Environmental technology
Others

Short description of organisation

RESEARCH ACTIVITIES:
wellness in office, hotels and living space

INTERNATIONAL EXPERTISE IN RTD:

Coord. Offer **Investors**

DESCRIPTION OF EXPERTISE OFFERED:
design of human ratio

INNOVATIVE RTD ASPECT:
reborn dimensions

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Medical University Innsbruck

Address	Biocenter, Fritz-Pregl-Strasse 3 6020 Innsbruck	Austria
Phone / Fax	T:+43 512 9003 70975 / F:+43 512 9003 73960	
www	www2.i-med.ac.at/expatho/schwarz.html	
Organisation Type	University	

Contact Person

Name	Univ.Prof. Dr. Siegfried Schwarz
Position	Vice Director Sect Exper Pathophy & Immu
Email	siegfried.schwarz@i-med.ac.at
Languages	German English

B2B Meetings

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation EU RP7 Cooperation Project	Offered Bioinformatics Diagnostics and Medical technology Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES: endocrinology

INTERNATIONAL EXPERTISE IN RTD: Previous participant in European Community Concerted Action (2000); Implementation of a Teaching Course in Molecular Modelling at Suranaree University of Technology, Thailand (2007)

Partner.Offer Implementation of a Teaching Course in Molecular Modelling in the Medical Curriculum in Croatia

DESCRIPTION OF EXPERTISE OFFERED:

Logistics in time and space management for organizing such a Teaching Course in Molecular Modelling for up to 400 students

INNOVATIVE RTD ASPECT:

Since virtually every disease is based on the (quantitative or qualitative) abnormality of a certain protein, a better understanding can - and therefore must - be achieved by understanding the structure and function of diverse protein classes, e.g. transcription factors, receptors, ion channels, signal transducers, immunomolecules etc. Computer modelling - unlike textbook reading - provides an almost realistic view of proteins and other molecules and thus is instrumental for understanding molecules

DESCRIPTION OF REQUESTED PARTNER PROFILE:

A colleague who is actively engaged in teaching pathophysiology or pharmacology or biochemistry and who is eager to introduce innovative aspects, including practical skills of students, into the medical curriculum

OTHER SPECIFIC RTD ASPECTS NEEDED:

A room with 10 - 20 PCs connected to the WWW

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Rudjer Boskovic Institute

Address	Bijenicka 54 HR-100 Zagreb	Croatia
Phone / Fax	T:+385 1 456 09 44 / F:+385 1 468 00 85	
www		
Organisation Type	R&D Institute	

Contact Person

Name	Dr. Vilko Smrecki
Position	research associate
Email	smrecki@irb.hr
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Biochemistry and Biophysics
Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Institute Ruder Boškovic

Address	Bijenicka 54 10000 Zagreb	Croatia
Phone / Fax	T:+385 1 4561081 / F:+385 1 4680242	
www	http://www.irb.hr	
Organisation Type	R&D Institute	

Contact Person

Name	Dr.sc. Stanislav Franciškovic-Bilinski
Position	higher assistant, elected in res. assoc.
Email	francis@irb.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Both Environmental technology
EU RP7 Cooperation Project	Both Others

Short description of organisation

RESEARCH ACTIVITIES: Environmental and marine research, geochemistry
INTERNATIONAL EXPERTISE IN RTD: Environmental pollution studies

Partner.Request **Pollution studies of stream sediments**

DESCRIPTION OF EXPERTISE OFFERED: -Field and laboratory work on stream sediments; -Mineralogical, geochemical and statistical investigations of stream sediments;
INNOVATIVE RTD ASPECT: -Assessment of sediment contamination with toxic elements in comparison with existing criteria for sediment quality; -Polluted regions will be determined and possible remediation will be suggested.
DESCRIPTION OF REQUESTED PARTNER PROFILE: -Hydrogeology, environmental and applied geology; inorganic and organic pollutants
OTHER SPECIFIC RTD ASPECTS NEEDED:

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Institute Ruder Boškovic

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www	http://www.irb.hr	
Organisation Type	R&D Institute	

Contact Person

Name	Dr.sc. Halka Bilinski
Position	senior scientist
Email	bilinski@irb.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Environmental technology
Others

Short description of organisation

RESEARCH ACTIVITIES: Environmental and marine research, geochemistry, adsorption of inorganic pollutants

INTERNATIONAL EXPERTISE IN RTD: Environmental pollution studies

Partner.Request **Adsorption of pollutants on model colloids and stream sediments**

DESCRIPTION OF EXPERTISE OFFERED:

- Laboratory work on heterogeneous equilibria in aqueous solution;
- Adsorption of pollutants on model colloids and on stream sediments.

INNOVATIVE RTD ASPECT:

- Assessment of stream sediment adsorption capacity for pollutants.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

- Applied geochemistry, colloids, adsorption, modelling, inorganic pollutants.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Faculty of Food Technology and Biotechnology Zagreb University

Address	Pierottijeva 6 10000 Zagreb	Croatia
Phone / Fax	T:0038514605156 / F:0038514836424	
www		
Organisation Type	University	

Contact Person

Name **Ms Tonci Rezic**
Position Assistant
Email trezic@pbf.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Biotechnology
Environmental technology

Short description of organisation

RESEARCH ACTIVITIES: Bioreactor engineering, Bioprocess modeling, Biological waste water treatment

INTERNATIONAL EXPERTISE IN RTD: Four month research work in Laboratory of Food Biotechnology BOKU university Vienna

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BICRO

Address	Planinska 1 10000 Zagreb	Croatia
Phone / Fax	T:+385 1 2352 601 / F:+ 385 1 2352 602	
www	bicro.hr	
Organisation Type	Other	

Contact Person

Name **Dr. Hrvoje Prpic**
Position CEO
Email hrvoje.prpic@bicro.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation **Both**
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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IDM

Address	Hahngasse 6/1/24 1092 Vienna	Austria
Phone / Fax	T:+43/1/319 72 58-0 / F:	
www		
Organisation Type	Other	

Contact Person

Name **Dr. Othmar Huber**
Position vice-chairman
Email idm@idm.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation **Both**
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES: political sciences, cooperation in higher education

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer **none**

DESCRIPTION OF EXPERTISE OFFERED:

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Faculty of Veterinary Medicine, University of Zagreb

Address	Heinzelova 55 10000 Zagreb	Croatia
Phone / Fax	T:+385-1-2390124 / F:	
www		
Organisation Type	University	

Contact Person

Name	PhD Nadica Maltar-Strmecki
Position	senior scientific and teaching assistant
Email	naltar@vef.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biochemistry and Biophysics
Diagnostics and Medical technology
Nutrition Science and Food technology

Short description of organisation

RESEARCH ACTIVITIES:
biophysics, molecular physics,
veterinary medicine, food technologies, food safety

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer **IRRADIATED FOOD AND DRUGS SAFETY CONTROL BY EPR SPECTROSCOPY**

DESCRIPTION OF EXPERTISE OFFERED:

- CW EPR and pulse EPR methods
- preparing samples and analysis of the EPR spectra
- development of new instrumentation
- identification of the radicals produced by irradiation in food and drugs

INNOVATIVE RTD ASPECT:

- new insight and expertise focused on the EPR control of irradiated food through the detection of specific type of radicals:
 - “bone-like” radicals - detection of irradiation in foods containing bone (ex. meat, fish, poultry etc.)
 - “cellulose-like” radicals - detection of irradiation in foods containing cellulose (paprika, strawberries, pepper etc.)
 - “sugar-like” radicals - detection of irradiation in containing sugar (raisins, papaya, mango etc.).
- To stabilize and to reinforce the research potential of EU countries and Croatia
- To contribute to sustainable research development
- To integrate into EU laws and to apply EU food legislatives among these countries and facilitate international trade of food among the EU, Croatia and the rest of the World
- To control and facilitate international trade and reinforce consumers confidence in the food products and control system in this region

DESCRIPTION OF REQUESTED PARTNER PROFILE:

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OTHER SPECIFIC RTD ASPECTS NEEDED:

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Department of Biochemical Eng., Faculty of Food Technology and Biotechnology

Address	Pierottijeva 6 10000 Zagreb	Croatia
Phone / Fax	T:**385-1-4605-142 / F:**385-1-4836-424	
www		
Organisation Type	University	

Contact Person

Name	Božidar Šantek
Position	Associate Professor
Email	bsantek@pbf.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Requested Biotechnology
EU RP7 Cooperation Project	Requested

Short description of organisation

RESEARCH ACTIVITIES:

Scientific research areas of Laboratory for Biochemical Eng., Industrial Microbiology and Malting & Brewing Technology:

- microorganisms cultivation, separation and purification of broth components from microbial biomass (beta - glucan from yeast and algae *E. gracilis* ; 5' - ribonucleotides from yeast)
- development of horizontal rotating tubular bioreactor (HRTB) and its application for different bioprocesses (e.g. simultaneous nitrification and denitrification and removal of heavy metals)
- development of integrated bioprocess models and scale-up procedure of HRTB
- development of hybrid integrated bioprocesses and sustainability of organic solvents production
- development and application of integrated bioprocesses in production of lactic acid

INTERNATIONAL EXPERTISE IN RTD:

- Members of our Laboratory (dr. sc. P. Horvat, dr.sc. M. Ivancic, dr. sc. Anita Slavica) worked in last 4 years on different RTD projects in Austria
- Bilateral project with TU Graz - 2006/2007 - Croatia/Austria- CHEVENA International - Chemistry, process techniques and sustainable economical development

Partner.Request Hybrid integrated bioprocesses and sustainability of organic solvents production

DESCRIPTION OF EXPERTISE OFFERED:

Bioprocess Engineering

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Bioprocess Engineering, Downstream Processing

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OTHER SPECIFIC RTD ASPECTS NEEDED:

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Depart. of Biochemical Engineering, Faculty of Food Technology & Biotechnology

Address	Pierottijeva 6 10000 Zagreb	Croatia
Phone / Fax	T:**385-1-4605-166 / F:**385-1-4836-424	
www		
Organisation Type	University	

Contact Person

Name	Predrag Horvat
Position	Full Professor
Email	phorvat@pbf.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biotechnology
Environmental technology

Short description of organisation

RESEARCH ACTIVITIES:
mathematical modelling of bioprocesses
bioreactor performance
sustainable bioprocess technology
scale up procedures

INTERNATIONAL EXPERTISE IN RTD:
- mixing in the bioreactors
- scale up procedures
- bilateral projects

Partner.Request Hybrid integrated bioprocesses and sustainability of organic solvents production

DESCRIPTION OF EXPERTISE OFFERED:
Bioprocess Engineering

INNOVATIVE RTD ASPECT:
Replacement of energy consuming processes (i.e. distillation) with more sustainable technology

DESCRIPTION OF REQUESTED PARTNER PROFILE:
CFD, Downstream processing-Membrane processes, Bioprocess Engineering,

OTHER SPECIFIC RTD ASPECTS NEEDED:
mass transfer

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Depart. Biochemical Engineering, Faculty of Food Technology & Biotechnology

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www		
Organisation Type	University	

Contact Person

Name **Mirela Ivancic**
Position Assistant Professor
Email mivancic@pbf.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation **Requested**
EU RP7 Cooperation Project **Requested**

Areas of activity

Biotechnology

Short description of organisation

RESEARCH ACTIVITIES:

- see data for Laboratory of Biochemical Engineering, Industrial Microbiology and Malting and Brewing Technology

INTERNATIONAL EXPERTISE IN RTD:

- see data for Laboratory of Biochemical Engineering, Industrial Microbiology and Malting and Brewing Technology

Partner.Request [Hybrid integrated bioprocesses and sustainability of organic solvents](#)

DESCRIPTION OF EXPERTISE OFFERED:

Bioprocess Engineering, Molecular Biology

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Downstream processing

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Institute of Physics

Address	Bijenicka cesta 46 HR-100 Zagreb	Croatia
Phone / Fax	T:00385-1-469-8807 / F:00385-1-469-88-89	
www	http://Projekt2.ifs.hr	
Organisation Type	R&D Institute	

Contact Person

Name	Dr. Goran Pichler
Position	Project leader
Email	pichler@ifs.hr
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Requested
EU RP7 Cooperation Project	Offered
	Others

Short description of organisation

RESEARCH ACTIVITIES: Atomic, molecular, optical and plasma physics especially with femtosecond lasers. Applications in dental medicine and interest in biophysics.

INTERNATIONAL EXPERTISE IN RTD: Optical and laser spectroscopy of atomic and molecular species, search for new light sources, development of new methods of atom and molecule cooling and metrology in the infrared spectral region.

Partner.Offer **Femtosecond laser plasma diagnostics**

DESCRIPTION OF EXPERTISE OFFERED: Applications of ultrashort lasers for physical, biophysical and medical applications

INNOVATIVE RTD ASPECT: plasma diagnostics with femtosecond laser techniques.

DESCRIPTION OF REQUESTED PARTNER PROFILE: Prof. Dr. Theo Neger, Institut fuer Experimentalphysik, TU, Graz

OTHER SPECIFIC RTD ASPECTS NEEDED:

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TU Graz, Technologietransfer

Address	Schlögelgasse 9/3 8010 Graz	Austria
Phone / Fax	T:0316/873-6034 / F:0316 873 6037	
www	fth.tugraz.at/tt	
Organisation Type	University	

Contact Person

Name **MMag. Franziska Stocker**
Position Project Manager
Email franziska.stocker@tugraz.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project **Requested**

Short description of organisation

RESEARCH ACTIVITIES:
Third task for Universities

INTERNATIONAL EXPERTISE IN RTD:

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Federal Research and Training Centre for Forests, Natural Hazards and Landscape

Address	Hauptstrasse 7 A-1140 Vienna	Austria
Phone / Fax	T:+431878382219 / F:+431878382250	
www	bfw.ac.at	
Organisation Type	R&D Institute	

Contact Person

Name	Dr. Berthold Heinze
Position	Head of Research Unit
Email	berthold.heinze@bfw.gv.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Both Bioinformatics
EU RP7 Cooperation Project	Both Biotechnology Cell- and Molecular biology Environmental technology Genetics and Proteomics Others

Short description of organisation

RESEARCH ACTIVITIES:
genome research with woody plants
selection of varieties for woody biomass production
woody plant molecular ecological research

INTERNATIONAL EXPERTISE IN RTD:
participation in EU framework research projects
participation in COST actions
participation in European research coordination networks
participation in review panel for large-scale genomics projects

Coord.Offer **Improving the biological side of woody plant biomass production: molecular biomass breeding**

DESCRIPTION OF EXPERTISE OFFERED:
biological components of woody biomass production systems
genetic fingerprinting of plant varieties
molecular breeding in plants
woody plant seed orchard design and management

INNOVATIVE RTD ASPECT:
molecular breeding in plants for improvement of biological components of woody biomass production systems

DESCRIPTION OF REQUESTED PARTNER PROFILE:
woody plant breeder
woody plant seed orchard design and management
woody biomass quality assessment

OTHER SPECIFIC RTD ASPECTS NEEDED:
environmental aspects of woody plant biomass production systems

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Faculty of Forestry University of Zagreb

Address	Svetošimunska 25 10000 Zagreb	Croatia
Phone / Fax	T:+385 1 235 2555 / F:+ 385 1 231 8616	
www	sumfak.hr	
Organisation Type	University	

Contact Person

Name	Associated Prof. Davorin Kajba
Position	Associated Prof.
Email	dekanat@sumfak.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biotechnology
Environmental technology
Genetics and Proteomics
Others

Short description of organisation

RESEARCH ACTIVITIES:

Forest tree breeding and conservation
Short Rotation crops for biomass production
Clonal seed orchards

INTERNATIONAL EXPERTISE IN RTD:

Participation in different international projects and networks (EUFORGEN, IPC/FAO, IEA etc.)

Partner.Offer **Forest tree breeding, short rotatin for biomass production, clonal seed orchards**

DESCRIPTION OF EXPERTISE OFFERED:

selection of new varieties for biomass production
clonal seed orchards establishing and management

INNOVATIVE RTD ASPECT:

selection of new clones (for biomass production, for seed production)

DESCRIPTION OF REQUESTED PARTNER PROFILE:

forest tree breeding and clonal forestry

OTHER SPECIFIC RTD ASPECTS NEEDED:

conservation of forest tree species (ex situ and in situ)

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Rudjer Boskovic Institute

Address	Bijenicka cesta 54 10000 Zagreb	Croatia
Phone / Fax	T:00385-1-4561172 / F:00385-1-4561172	
www		
Organisation Type	R&D Institute	

Contact Person

Name **PhD Tihomir Balog**
Position senior research associate
Email balog@irb.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Immunology
Nutrition Science and Food technology
Others

Short description of organisation

RESEARCH ACTIVITIES: Research and development

INTERNATIONAL EXPERTISE IN RTD:

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Institute Rudjer Boskovic

Address	Bijenicka 54 10000 Zagreb	Croatia
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www		
Organisation Type	R&D Institute	

Contact Person

Name	Dr Oliver Vugrek
Position	Research associate
Email	ovugrek@irb.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity	
RTD-cooperation	Both	Biochemistry and Biophysics
EU RP7 Cooperation Project	Both	Bioinformatics
		Biotechnology
		Cell- and Molecular biology
		Genetics and Proteomics
		Medical research (incl. diseases)
		Microbiology
		Others

Short description of organisation

RESEARCH ACTIVITIES:

The Ruder Boškovic Institute is the largest Croatian research centre for basic sciences, participating also in science applications and higher education. IRB has been founded in 1950 and hosts departments for physics, chemistry, life sciences and for marine research and provides the infrastructure for informational technology. Approx. 800 employees comprise the scientific and technical staff of the institute.

INTERNATIONAL EXPERTISE IN RTD:

The IRB has experience in the European Framework programme since 1998 and hosts at present moment 20 participating groups for Framework activities.

Coord.Offer **Impact of S-Adenosylhomocysteine hydrolase deficiency to epigenetic modifications and the methylome**

DESCRIPTION OF EXPERTISE OFFERED:

Oliver Vugrek (OV) is involved in S-Adenosylhomocysteine hydrolase (SAHH) deficiency research from the very beginning (since 2002) and is author or co-author of all relevant scientific publications in that matter. Besides SAHH deficiency research, OV provides experience in functional genomics, mutational analysis, biochemistry, and protein purification and characterisation.

INNOVATIVE RTD ASPECT:

The RTD project should lead to the development of new tools suitable for the usage in methylation research. Methylation is important for protein-protein interactions, cellular signaling and viral replication. Also, methylation is an important part of the so-called histone code that regulates cell type-specific gene expression programs crucial for and during development. Methylation of DNA is involved in regulating many processes such as embryonic development, transcription, chromatin structure, X chromosome inactivation, genomic imprinting and chromosome stability. Consistent with these important roles, a growing number of diseases have been found to be associated with aberrant DNA methylation. Methylation disorder is a widespread phenomenon in cancer and may be among the earliest changes during oncogenesis. SAHH deficiency is considered as another methylation disorder and its study might provide new and fundamental insights into processes of DNA methylation and other

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epigenetic modifications during development and normal cellular homeostasis.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Expert in Epigenetics and methylome research.

Expert in Virology and research on mechanisms of viral replication.

OTHER SPECIFIC RTD ASPECTS NEEDED:

Experience in development of an DNA array-based high-throughput tool for large scale screening.

Experience in design of antiviral drugs

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Ruder Boškovic Institute

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www	irb.hr/hr/str/zfk/labs/lak	
Organisation Type	R&D Institute	

Contact Person

Name	Ph.D. Ivan Habuš
Position	Senior Research Associate
Email	ihabus@irb.hr
Languages	English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)		Areas of activity
RTD-cooperation	Requested	Pharmacology
EU RP7 Cooperation Project	Requested	Others

Short description of organisation

RESEARCH ACTIVITIES: Azetidin-2-one, a four-membered cyclic lactam skeleton has been recognized as a useful building block for the synthesis of a large number of organic molecules by exploiting the strain energy associated with it. The skeleton has been extensively used as a template on which to build the heterocyclic structures attached to the four-membered ring using the chirality and functionalisation of the beta-lactam as a stereocontrolling element. In my research group we are applying the chiral ester enolate-imine condensation strategy, synthetic methodology based on the azetidin-2-one nucleus: the beta-lactam synthon method to synthesize the enantimerically pure amino-beta-lactams. Thus obtained amino-beta-lactams are transferred into chiral imines and as such employed in Diels-Alder and aldol reactions. Furthermore, the amino-beta-lactams are employed in the reactions with isocyanates and isothiocyanates to form the corresponding ureas and thioureas that are serving as building blocks for the synthesis of iminothiazolidinones, trazinethiones and pyrimidines connected to the beta-lactam ring via C-N bond. Beside evident biological activity of the above mentioned compounds, there is a constant need for the development of novel and efficient methodologies of stereo- and enantioselective synthesis that will result in the development of novel organic synthetic methods and reaction mechanisms which in combination with combinatorial chemistry methods may result with new and pharmacologically potential candidates.

INTERNATIONAL EXPERTISE IN RTD:

Postdoctoral research fellowships: (i) Chemistry Department (prof. Iwao Ojima), beta-lactam-chemistry, (ii) Pharmacology Department (prof. Francis Johnson), DNA chemistry, environmental chemical mutagenesis, at SUNY at Stony Brook, NY, USA.

Senior Research Scientist, Hybridon, Inc., Cambridge, MA, USA: DNA chemistry, antisense technology.

Principal Scientist, ArQuele, Inc., Woburn, MA, USA, combinatorial chemistry.

Partner.Request **Amino-beta-Lactams - Synthons for Biologically Interesting Compounds**

DESCRIPTION OF EXPERTISE OFFERED:

Organic synthesis, Combinatorial chemistry, Analytical chemistry (HPLC, CHNS elemental microanalysis), DNA chemistry (synthesis and isolation of oligonucleotides, environmental chemical mutagenesis).

INNOVATIVE RTD ASPECT:

Synthesis of novel organic compounds and their testing for potential biological activity.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

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Organic synthesis - Combinatorial chemistry

OTHER SPECIFIC RTD ASPECTS NEEDED:

Testing for potential biological activity

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Faculty of Chemical Engineering and Technology, University of Zagreb

Address	Marulicev trg 19 10000 Zagreb	Croatia
Phone / Fax	T:+385 1 4597 208 / F:+385 1 4597 250	
www	www.fkit.hr	
Organisation Type	University	

Contact Person

Name **Dr. sc. Sandra Babic**
Position assistant professor
Email sandra.babic@fkit.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Environmental technology
Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Faculty of Science

Address	Rooseveltovej trg 6 10000 Zagreb	Croatia
Phone / Fax	T:00385989750879 / F:	
www		
Organisation Type	University	

Contact Person

Name **Domagoj Baretic**
Position student
Email Domagoj.Baretic@zg.t-com.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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RUDJER BOSKOVIC INSTITUTE

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www		
Organisation Type	R&D Institute	

Contact Person

Name	Dr MIRJANA ECKERT-MAKSIC
Position	Head of Division
Email	mmaksic@emma.irb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biochemistry and Biophysics
Others

Short description of organisation

RESEARCH ACTIVITIES:

application of physical-organic principles in studying reactivity of organic and organometallic compounds (including application of computational methods); application of high pressure and MW techniques in synthesis of organic compounds

INTERNATIONAL EXPERTISE IN RTD:

Several bilateral collaborations with the Universities in Austria, Germany and Slovenia

Partner Request **Synthesis and Catalytic and Biological Testing of New Guanidine Derivatives**

DESCRIPTION OF EXPERTISE OFFERED:

- Computational modelling with emphasis on design of novel highly basic guanidine and biguanide compounds; synthesis of novel guanidine and biguanide compounds, with emphasis on development of novel synthetic approaches; laboratory testing of catalytic activity of guanidine and biguanide bases, with emphasis on establishing relationship between catalytic activity and catalytic activity.
- Computational studies of dynamics of photochemical processes of biorganic molecules, with emphasis on photodecomposition of model compounds involving peptide bond and the active parts of DNA bases.

INNOVATIVE RTD ASPECT:

Some of the guanidine bases prepared so far are among the most basic guanidines that had been prepared so far; Some of the novel compounds exhibited high potential as basic catalysts (we also have 1 patent applications in this field); novel approaches to synthesis of hitherto unknown polyguanides (in particular triguanides).

DESCRIPTION OF REQUESTED PARTNER PROFILE:

We are looking for (1) the partners with experience in testing catalytic activity of organic molecules at larger scale and (2) the partners interested in testing biological activity of our compounds.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Zagreb University School of medicine

Address	Rockfellerova 4 10000 Zagreb	Croatia
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www	snz.hr	
Organisation Type	University	

Contact Person

Name	professor, MD, PhD Jadranka Mustajbegovic
Position	full professor
Email	jmustajb@snz.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation		Health care
EU RP7 Cooperation Project	Both	

Short description of organisation

RESEARCH ACTIVITIES: Work ability of health care professionals, work-related stress

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer **Healthy workplace and working environment**

DESCRIPTION OF EXPERTISE OFFERED: Occupational and environmental medicine

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE: Human Resources Management
Methods, Instruments and Programs for Human Sustainability Management,
Occupational Medicine, Occupational Psychology

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Graz, Austria



University Hospital for Infectious Diseases Dr. Fran Mihaljevic

Address	Mirogojska 8 10000 Zagreb	Croatia
Phone / Fax	T:+ 38514603270 / F:+ 38514603131	
www		
Organisation Type	Other	

Contact Person

Name **PhD Snježana Židovec Lepej**
Position Head of Department
Email Snjezana.Zidovec.Lepej@bfm.hr
Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Ruder Boškovic Institute

Address	Bijenicka 54 10000 Zagreb	Croatia
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www	http://www.irb.hr/en/str/zokb/labs/lanc/	
Organisation Type	R&D Institute	

Contact Person

Name	Dr Ivo Piantanida
Position	senior research associate
Email	pianta@irb.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Offered
EU RP7 Cooperation Project	Offered

Areas of activity

Biochemistry and Biophysics
Others

Short description of organisation

RESEARCH ACTIVITIES:

Ruder Boškovic Institute is dealing with scientific research in fields of chemistry, biology, physics and medicine. In particular, research of the Laboratory for supramolecular and nucleoside chemistry is focused on the supramolecular aspects of non-covalent interactions between small organic molecules and highly organised systems in various solvents. Main research issues are gelation phenomena, DNA/RNA active molecules and supramolecular cation binding devices and sensors.

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer **New small molecules targeting macromolecules of tumor and inflammatory processes**

DESCRIPTION OF EXPERTISE OFFERED:

Our group is experienced in synthesis of small heteroaromatic molecules designed for the various types of interactions with DNA and RNA, as well as with various proteins. Further, novel molecules are physically and chemically characterised and their interactions with targeted DNA and/or RNA sequences and proteins are spectroscopically studied in biologically relevant conditions. Our group is part of the Program (Title: "New small molecules targeting macromolecules of tumor and inflammatory processes" No: 0982914) financed by Ministry of Science, Education and Sports (MSES), Croatia, in which additional in vitro and in vivo biological studies of antitumor and anti-inflammatory potential of novel compounds are performed by other groups. Thus, we offer for the cooperation the research line consisting of several groups, which is able to study interactions of small organic molecules with isolated DNA/RNA and proteins, followed by in vitro and in vivo antitumor and anti-inflammatory studies.

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

The partner from the industry or University with complementary interest in the field of bioactive small organic molecules. That would imply research groups in possess of potentially DNA/RNA active molecules, potentially antitumor and anti-inflammatory active molecules as well as research groups experienced in the specific

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methods related to the studies of small molecule/DNA, RNA interactions (e.g. NMR), or methods related to the study of the cellular mechanism of action of small molecules (e.g. proteomics).

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Faculty of Chemical Engineering and Technology, Dpt. Reaction Engineering

Address	Marulicev trg 19 10000 Zagreb	Croatia
Phone / Fax	T:00385 1 4597 134 / F:00385 1 4597 133	
www	fkit.hr	
Organisation Type	University	

Contact Person

Name	MSc Karolina Maduna Valkaj
Position	Assistant to teacher-researcher
Email	kmaduna@fkit.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation	Requested	Environmental technology
EU RP7 Cooperation Project	Requested	

Short description of organisation

RESEARCH ACTIVITIES:

Reaction Engineering and Catalysis, Kinetics and modeling of hydrothermal oxidation processes for the elimination of organic compounds from wastewater

INTERNATIONAL EXPERTISE IN RTD:

PhD students exchange and research study with Universita della Calabria, Dpt. di Ingegneria Chimica e dei Materiali, (prof. Katovic)

Coord.Request **The Application of Catalysis in Environmental Protection (Main researcher: Prof. Stanka Zrnecvic)**

DESCRIPTION OF EXPERTISE OFFERED:

Kinetics and modeling of hydrothermal oxidation processes for the elimination of organic compounds from wastewater using heterogeneous catalysts; Study on activity and stability of zeolites both powder and pellets; HPLC analysis of intermediates of the reaction...

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Support on catalyst characterization and/or obtaining samples of commercial zeolites of different framework type

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Joanneum Research, Inst. of Water Resources Management

Address	Elisabethstr. 16/II 8010 Graz	Austria
Phone / Fax	T:+43 316 876 1485 / F:	
www		
Organisation Type	R&D Institute	

Contact Person

Name	Dr. Albrecht Leis
Position	Laboratory Manager
Email	albrecht.leis@joanneum.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	

Areas of activity

Environmental technology
Others

Short description of organisation

RESEARCH ACTIVITIES:

The Institute of Water Resources Management is actively involved in basic and applied research, scientific consulting and training aimed at ensuring a sustainable water supply and safeguarding water resources for generations to come. Services range from investigation and exploration to the development of concepts for sustainable development, protection and management of water resources. Environmental isotopes are used to solve special geochemical questions, since they allow the origin and residence time of water as well as mixing processes to be determined; thus, they are good indicators of geochemical processes and climatic changes.

INTERNATIONAL EXPERTISE IN RTD:

Applied hydrogeology and mountain catchment hydrology
Water management of basins
Deep groundwater and geothermics
Applied geophysics
Geochemistry and isotopes

Partner.Offer **Dynamics of hydro(geo)logical systems and process-based physicochemical mechanisms**

DESCRIPTION OF EXPERTISE OFFERED:

Subjects in hydro(geo)logy comprise a wide range of scientific and applied scopes. The elevated diversification of hydro(geo)logical subjects during the past years is especially caused by the highly complex interrelations between the water cycle, element fluxes, environmental changes, hazards, and socio-political needs for scientific and technological progress. Hydro(geo)logic tasks comprise investigations of interactions between physical and chemical processes on the Earth's surface and the hydrosphere, including the evolution of natural waters, runoff generation, dynamics of karst and fractured aquifers, understanding nutrient and solute sources and cycling, impacts of agriculture (e.g. irrigation, pollution) and engineering on groundwater recharge and quality etc. Accordingly, analytical methods range from water balance and flow path studies, evaluation of water-rock interaction, geochemical, microbiological, isotopic investigations, GIS (Geographic Information System) and remote sensing to hydro(geo)logical and geochemical modelling. Traditional practices often tend to isolate the different methods. However, interdisciplinary approaches are essentially required for a better understanding and profound knowledge of the space and time-dependent processes in the system atmosphere-lithosphere-hydrosphere with all problems of up- and down scaling.

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INNOVATIVE RTD ASPECT:

A major goal within this research topic will be the development of tailored techniques to characterize coupled physical and geochemical mechanisms for water movement and solute transport on different scales. Especially, chemical and isotope tracers but also methods of classical and advanced artificial tracing are suitable to provide detailed insights into the complex dynamics of hydro(geo)logical systems and to water-rock interactions. Advances in modern mass spectrometry and interdisciplinary bio(geo)chemical research have emphasized the potential use of naturally occurring stable isotope distributions of major and trace components in aquatic systems. In addition to the application of traditional environmental isotopes the potential of non-traditional isotope systems should be assessed (e.g. isotope signatures of strontium) and trace element patterns (e.g. rare earth elements) for the identification and characterization of chemical reactions along water flow paths and the origin of solutes.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Interest in the combined usage of hydro(geo)logical methods, stable isotopes and trace element patterns in eco-hydrology is proposed for the evaluation of potential anthropogenic influences (e.g. nitrates, pesticides, pharmaceuticals) and climate change effects, as well as for the understanding of the soil-vegetation-water interactions (e.g. evapotranspiration, runoff, infiltration, recharge, overland, inner, base and channel flow) at different scales.

OTHER SPECIFIC RTD ASPECTS NEEDED:

Use and adaptation of adequate tools for hydro(geo)logical and geochemical modelling of complex flow processes and biogeochemical mechanisms as well as tools based on remote sensing, GIS and SDSS (Geographic Information System-Spatial Decision Support System) to optimize water resources management (e.g. in agriculture and river basin management).

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Medical Faculty, Clinical Hospital Centre, Zagreb

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www	www.kbc-zagreb.hr	
Organisation Type	University	

Contact Person

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Email	ivanaracic5@yahoo.com
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Dpt. for Biochemical Engineering, Faculty of Food Technology and Biotechnology

Address	Pierotijjeva 6 10000 Zagreb	Croatia
Phone / Fax	T:00385 (0)1 4605134 / F:00385 (0)1 4836 424	
www	pbf.hr	
Organisation Type	University	

Contact Person

Name **PhD Anita Slavica**
Position Assistant Professor
Email aslavica@pbf.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation **Requested**
EU RP7 Cooperation Project **Requested**

Areas of activity

Biochemistry and Biophysics
Biotechnology
Environmental technology
Microbiology

Short description of organisation

RESEARCH ACTIVITIES: see www.pbf.hr/en/zavodi/zavod_za_biokemijsko_inzenjerstvo

INTERNATIONAL EXPERTISE IN RTD: see www.pbf.hr/en/zavodi/zavod_za_biokemijsko_inzenjerstvo

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Rudjer Boskovic Institute, Dept. Materials Physics

Address	Bijenicka 54 HR-100 Zagreb	Croatia
Phone / Fax	T:++385-1-4689-224 / F:++385-1-4689-114	
www		
Organisation Type	R&D Institute	

Contact Person

Name	Dr. Nikola Radic
Position	Research Adviser/ Senior Scientist
Email	radic@irb.hr
Languages	Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation	Requested
EU RP7 Cooperation Project	Requested

Short description of organisation

RESEARCH ACTIVITIES:

The research in the Division of Materials Physics is focused on fundamental and applied studies of physical parameters and processes which describe and connect the microscopic, mesoscopic and macroscopic properties of condensed matter and molecules. Certain aspects, such as the mutual interactions of defects, their impact on the relation between microscopic and macroscopic properties of materials, as well as nanophase and glassy material characteristics, prove particularly important.

Nanoscience and nanotechnology has been the most active direction of both fundamental scientific research and developments in technology for the Division of Materials Physics. Various types of nanostructured materials have been produced: amorphous and nanocrystalline thin films produced by thermodynamically non-equilibrium processing (magnetron sputtering, ion implantation), particularly Al-based and Ag-based amorphous/nanocrystalline alloys, a-Si and a-Si_{1-x}C_x:H films, nanolaminates of semiconductor (Ge, Si)/ dielectric (SiO₂) bilayers - as precursors for nanoparticles, nanocrystalline metals (nc-Ni), nanosized ceramics (ZrTiO₄) and nanocomposites (CeVO₄). The structure of these materials has been examined by different methods - XRD, SAXS, Raman spectroscopy, electron microscopy etc., and physical properties were correlated with the respective findings.

INTERNATIONAL EXPERTISE IN RTD:

1. Study of nanocomposite polymer electrolytes, Aleksandra Turkovic, (Bilateral collaboration with Slovenia)
2. Study of disordered materials, nano-optical layers, Mile Ivanda, (Bilateral collaboration with Slovenia)
3. Research on silicon and germanium nanostructures, Branko Pivac, (COGITO - Bilateral collaboration with France)
4. LPMAS, Davor Gracin (EU- FW6 -INCO- Project No FP6-509178)
5. RISE, Uroš V. Desnica (EU-FW6-INCO-Project No FP6-509161)

Partner.Request **Ag-based binary alloys with refractory transition metals**

DESCRIPTION OF EXPERTISE OFFERED:

Preparation of thin films of completely immiscible Ag-(Nb,Mo,Ta,W) systems by magnetron sputtering. Structural (XRD, GISAXS, SEM), electrical and thermal (stability) characterization.

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INNOVATIVE RTD ASPECT:

This class of metastable binary alloys is seldom produced and examined. Might possess interesting mechanical, corrosion and catalytic properties.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Researchers interested and equipped to do characterization of produced thin films, particularly with respect to application-oriented characteristics.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Austrian Academy of Sciences, Institute of Biophysics and Nanosystems Research

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www		
Organisation Type	Other	

Contact Person

Name	Univ.-Doz. Georg Pabst
Position	Research Officer
Email	Georg.Pabst@oeaw.ac.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Offered
EU RP7 Cooperation Project	Offered

Areas of activity

Biochemistry and Biophysics
Nano-biotechnology

Short description of organisation

RESEARCH ACTIVITIES:

Materials research on self-assembled soft-condensed matter and in particular on lipid/water systems and lipid/protein interactions.

INTERNATIONAL EXPERTISE IN RTD:

x-ray and neutron scattering techniques, electron paramagnetic resonance spectroscopy, as well as densitometry, acoustic, and calorimetric measurements.

Partner.Offer **Biophysics of Membranous Systems**

DESCRIPTION OF EXPERTISE OFFERED:

X-ray structure analysis in general and in particular with respect to structure and mechanical properties of biomimetic membranous systems and changes to it as a function of any membrane active compound (protein, drug, DNA, etc.).

INNOVATIVE RTD ASPECT:

High sensitivity for detection of effects due to global data modeling.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

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University of Zagreb, School of Medicine

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www		
Organisation Type	University	

Contact Person

Name	prof.dr.sc. Jasminka Brnjas-Kraljevic
Position	Head of the Department
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Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Biochemistry and Biophysics
Diagnostics and Medical technology

Short description of organisation

RESEARCH ACTIVITIES: spectroscopical analyzes of biological molecules and higher supramolecular structures

INTERNATIONAL EXPERTISE IN RTD:

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Rudjer Boskovic Institute

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www		
Organisation Type	R&D Institute	

Contact Person

Name	PhD Zorka Mikloska
Position	Group Leader
Email	zorka.mikloska@irb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Both Biotechnology
EU RP7 Cooperation Project	Both Cell- and Molecular biology Genetics and Proteomics Immunology Medical research (incl. diseases) Microbiology Nano-biotechnology

Short description of organisation

RESEARCH ACTIVITIES:

Ruder Boškovic Institute (RBI) is the largest Croatian research centre for basic science, founded in 1950, today consists of twelve divisions, two centres, a library. The Institute employs over 500 academic staff, including some 300 researchers, about 30 postdoctoral fellows, and just under 200 Ph.D. students. Scientific expertise of researchers at the RBI covers wide range of disciplines, including theoretical and experimental physics, organic, inorganic and computational chemistry, materials sciences, land and marine ecology, geology, molecular biology and molecular medicine, bioinformatics, electronics and computing.

INTERNATIONAL EXPERTISE IN RTD:

RBI manages its RTD activities through the national/international projects and spin off companies. Recently, the RBI's activities toward generation of intellectual property yielded a total of 9 inventions currently in different phases of realization. RBI established a strong collaboration with the several major national and some international companies.

Partner.Offer **The immunopathogenesis and therapy of genital herpes and human papilloma virus infection**

DESCRIPTION OF EXPERTISE OFFERED:

Our group provides expertise in the immunopathogenesis of recurrent human herpes infection, cellular and molecular events following infection with herpes viruses using methods of modern immunology, proteomics, chip technology, mass spectrometry. We also look at the events of herpes virus-human papilloma virus coinfection. We provide expertise in testing of new antivirals, and the adjuvants for the inclusion in vaccine. Want to collaborate on clinical/ epidemiological projects involving viral diseases, also to share/acquire biological specimens for clinical/epidemiological studies. Group leader, Dr Zorka Mikloska was a research leader in Westmead Millennium Institute, Sydney, Australia for 15 years, working on the aspects of immunopathogenesis of recurrent human genital herpes infection.

INNOVATIVE RTD ASPECT:

Identifying new antivirals for the treatments of genital herpes and human papilloma virus infections. Identifying

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adjuvants and cytokines/chemokines as a candidates for the inclusion in herpes vaccine. Identifying new potent antivirals to treat genital herpes and HPV infections. Identifying genes crucial for the carcinogenesis in the herpes simplex-human papillomavirus co infection. We have patents pending on some of our discoveries, and hope to have more.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

We are seeking a) a R&D company with realistic potential to join the efforts in animal testing and/or further clinical trials for the herpes vaccine candidates, b) a company/institute with interests to collaborate in testing of new antivirals and adjuvants, to provide us with samples for clinical and epidemiological studies on sexually transmitted diseases, c) a company/institute to join our basic research on immunopathogenesis of herpes infection, and genes/proteins involved in the carcinogenesis of herpes-papilloma virus coinfection.

OTHER SPECIFIC RTD ASPECTS NEEDED:

Resources/equipment /expertise related to research on protein-protein interactions, genomics and proteomics.

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Graz, Austria



Austrian Academy of Sciences

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www	http://www.ibr.oeaw.ac.at/	
Organisation Type	Other	

Contact Person

Name	Dr. Anan Yaghmur
Position	Junior Scientist
Email	anan.yaghmur@oeaw.ac.at
Languages	English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Offered
EU RP7 Cooperation Project	Offered

Areas of activity

Biochemistry and Biophysics
Biotechnology
Nano-biotechnology

Short description of organisation

RESEARCH ACTIVITIES:

Currently I have a Junior Scientist position in the Model Membranes Group at the Institute of Biophysics and Nanosystems Research (IBN), Austrian Academy of Sciences, Graz (Austria). The research group is led by IBN director Prof. Peter Laggner.

During my previous research studies, I have gained experience in the characterization of nanostructured fluids, which have excellent potential for forming drug- and food- delivery systems. They are considered as excellent media for the solubilization of various food, cosmetic, and pharmaceutical additives. In addition, during my PhD I obtained good knowledge on the formulation of microemulsions for food and pharmaceutical applications and their characterization by various methods.

I have good experience in the characterization of confined self-assembled nanostructures (inverted type mesophases of cubic, or hexagonal geometry, and reverse microemulsions) of kinetically stabilized lipid-based emulsified droplets.

Recently, our research group established a very fruitful cooperation with Shuguang Zhang from the MIT. Here the investigations are aiming to check the impact of short designer peptides on nanostructured lipid/water systems.

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer **Self-assembled lipid nanostructures as nanocarriers**

DESCRIPTION OF EXPERTISE OFFERED:

Formulation and characterization of novel drug & food formulations based on self-assembled nanostructures.

INNOVATIVE RTD ASPECT:

Formulation & characterization of efficient nanostructured delivery systems. In addition, we focus on investigating lipid-surfactant peptide interactions.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

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School of Medicine

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www		
Organisation Type	University	

Contact Person

Name **Prof dr sc Zvezdana Roller-Lutz**
Position Chief of Physics Department
Email roller@medri.hr
Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation	Requested
EU RP7 Cooperation Project	Requested

Areas of activity

Biochemistry and Biophysics
Environmental technology

Short description of organisation

RESEARCH ACTIVITIES:

I am chief of Stable isotope laboratory. In our scientific work we are in the first place interested in solving the problems connected with karst and water. But our method offer a possibilities for many different interdisciplinary cooperations.

INTERNATIONAL EXPERTISE IN RTD:

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Rudjer Boskovic Institute

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www	irb.hr/hr/str/zef/z3labs/lna/	
Organisation Type	R&D Institute	

Contact Person

Name	PhD. Chemistry Nada Horvatincic
Position	Senior scientist
Email	nada.horvatincic@irb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation EU RP7 Cooperation Project	Both Others

Short description of organisation

RESEARCH ACTIVITIES:

Researches based on measurements of natural radioactive isotopes ^3H , ^{14}C and $^{230}\text{Th}/^{234}\text{U}$ and stable isotopes $^2\text{H}/^1\text{H}$, $^{13}\text{C}/^{12}\text{C}$ and $^{18}\text{O}/^{16}\text{O}$ in various materials with application in archaeology, geology, hydrology, ecology and palaeoclimatology. Special emphasis is on the isotopic investigation of the karst in Croatia.

INTERNATIONAL EXPERTISE IN RTD:

Participation in international projects by IAEA, NSF, EU projects

Partner.Offer Isotope investigation of environment and palaeoclimate; cooperation with Joanneum Research, Graz

DESCRIPTION OF EXPERTISE OFFERED:

Isotope and geochemical investigation of environmental change (lake sediments, atmosphere, water) and palaeoclimate change (lake sediments, speleothems)

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Joanneum Research, Institute of water resource management

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Graz, Austria



Faculty of Chemical Engineering and Technology University of Zagreb

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www	fkit.hr	
Organisation Type	University	

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Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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University of Graz, Office of Research Management and Service

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www	www.uni-graz.at/forschung	
Organisation Type	University	

Contact Person

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Email forschung@uni-graz.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Third Austrian-Croatian Science Days

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19 October 2007 LIFE SCIENCES PARTNERING DAY

Graz, Austria



Rudjer Boskovic Institute

Address	Bijenicka 54 10 000 Zagreb	Croatia
Phone / Fax	T:+385-1-4561-065 / F: www	
Organisation Type	R&D Institute	

Contact Person

Name	Dr Mariastefania Antica
Position	Senior scientist
Email	antica@irb.hr
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation EU RP7 Cooperation Project Offered	Cell- and Molecular biology Immunology Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES:
Basic research and education

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer [Lymphocyte development and differentiation from hematopoietic stem cells](#)

DESCRIPTION OF EXPERTISE OFFERED:
Molecular immunology, Lymphocyte development and differentiation from stem cells, transcriptional and epigenetic control of development

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

Third Austrian-Croatian Science Days

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Graz, Austria



Rudjer Boskovic Institute

Address	Bijenicka 54 10002 Zagreb	Croatia
Phone / Fax	T:+385-1-4561110 / F:+385-1-4561010	
www	www.irb.hr	
Organisation Type	R&D Institute	

Contact Person

Name	Dr Magdalena Grce
Position	Senior Res Associate
Email	grce@irb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Diagnostics and Medical technology
Microbiology

Short description of organisation

RESEARCH ACTIVITIES:

Basic research and education

INTERNATIONAL EXPERTISE IN RTD: Yes

Partner.Offer **Molecular diagnostics of HPV and epigenetic modification in HPV associated lesions**

DESCRIPTION OF EXPERTISE OFFERED:

Molecular diagnostics of infectious diseases, notably Human papillomaviruses (HPV). Epigenetic modification in HPV associated lesions.

INNOVATIVE RTD ASPECT:

Evaluation of possible prognostic factors for cervical cancer development and invasion.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Expertise on DNA methylation status determination and real-time PCR methodology.

OTHER SPECIFIC RTD ASPECTS NEEDED:

Joint research collaboration on the listed topics.

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Rudjer Boskovic Institute

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Phone / Fax	T:+38514561119 / F:+385 1 468 0245	
www	http://www.irb.hr/hr/str/zfk/labs/LKBK/zaposlenici/meri/	
Organisation Type	Other	

Contact Person

Name	Dr. Marija Luic
Position	Head of the Laboratory
Email	marija.luic@irb.hr
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project **Requested**

Areas of activity

Biochemistry and Biophysics
Bioinformatics
Biotechnology
Cell- and Molecular biology
Genetics and Proteomics

Short description of organisation

RESEARCH ACTIVITIES: macromolecular crystallography, lipases, SSB proteins

INTERNATIONAL EXPERTISE IN RTD:-

Coord.Request -

DESCRIPTION OF EXPERTISE OFFERED: macromolecular crystal structure determination

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE: researchers with experience in protein purification methods OR researchers interested in plant lipases (or SGNH enzymes) OR scientists interested in SSB (single-stranded DNA-binding) proteins

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Rudjer Boskovic Institute

Address	Bijenicka cesta 54 10000 Zagreb	Croatia
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www	www.irb.hr	
Organisation Type	R&D Institute	

Contact Person

Name	Marijana Klasnic Kozar
Position	Project officer
Email	mklasnic@irb.hr
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Rudjer Boskovic Institute

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www	www.irb.hr	
Organisation Type	R&D Institute	

Contact Person

Name **B.Sc.Ecc. Vesna Kotarski**
Position Projec officer
Email vesna.kotarski@irb.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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www	www.irb.hr	
Organisation Type	R&D Institute	

Contact Person

Name	B.Sc.Ecc. Renata Slovinic
Position	Head of department
Email	rslovinic@irb.hr
Languages	Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Rudjer Boskovic Institute

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www	www.irb.hr	
Organisation Type	R&D Institute	

Contact Person

Name	Dr. sc. Andrea Mogus Milankovic
Position	Assistant Director General
Email	mogus@irb.hr
Languages	Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation EU RP7 Cooperation Project	

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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JOANNEUM RESEARCH Forschungsgesellschaft mbH, Laser Center Leoben

Address	Steyrergasse 17 8010 Graz	Austria
Phone / Fax	T:+43 (0)3842 81260-2311 / F:+43 (0)3842 81260-2310	
www	joanneum.at	
Organisation Type	R&D Institute	

Contact Person

Name	Dr. Wolfgang Waldhauser
Position	Head of Thin Film Working Group
Email	wolfgang.waldhauser@joanneum.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation	Both	Others
EU RP7 Cooperation Project	Both	

Short description of organisation

RESEARCH ACTIVITIES:

One of the 14 institutes of JR is the Laser Center Leoben in Niklasdorf, which has more than 17 years experience in applied research of laser materials treatment and surface coating. Initially starting from the Pulsed Laser Deposition (PLD) technique the Laser Applied Thin Film group at Laser Center Leoben is focussing its research and development on vacuum coating techniques working at low temperatures. The group is developing besides PLD processes also sputtering and ion-assisted techniques (e.g. with gridless ion sources) for temperature sensitive materials, so e.g. for polymer substrates. The coatings deposited by these techniques are applicable tools, machine elements, medical products (prosthesis, biosensors, biochips), etc.

Our 14 research units make JOANNEUM RESEARCH one of the largest non-university research institutions in Austria. Our role as an innovative partner for business and administration is reflected in our wide range of services: apart from applied research and development for small and medium-sized enterprises we offer custom-designed technical business consulting and vast expertise in interdisciplinary management of complex research contracts at a national and international level.

The research JR is geared to the demands of business. The more than 400 employees of JR develop and improve products and processes in the fields of geological sciences and the environment, biotechnology and environmental technology, electronics and information processing, materials and processing as well as economy and technology.

INTERNATIONAL EXPERTISE IN RTD:

JOANNEUM RESEARCH is well experienced in performing national and international RTD projects. The range of services includes applied research and technological development; technology-oriented consulting and sophisticated technical services; consulting, support and project management in applications for national and international funding (e.g. EU framework programmes) with a special focus on small and medium-sized enterprises.

Partner.Offer **Functional thin coatings for medical products (e.g. implants, prostheses, biosensors, biochips)**

DESCRIPTION OF EXPERTISE OFFERED:

We employ low temperature coating techniques for the development of functional thin coatings for biomedical

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applications. Because of the low process temperature polymeric substrates can be coated, too. Target applications are biocompatible coatings for implants and prostheses (e.g. artificial heart), functional coatings for biosensors and biochips. Our technical equipment enables the development of such new coatings and the fabrication of prototypes as well as small series job-shop coating.

Coating materials which can be deposited by employing these techniques are: titanium (Ti), gold (Au), chromium (Cr), aluminium (Al), diamond-like carbon (DLC), silicon (Si), titanium nitride (TiN), titanium oxide (TiO₂), chromium nitride (CrN), chromium oxide (CrO_x), silicon nitride (SiN_x), silicon oxide (SiO₂), etc.

The coatings can be deposited onto metallic, ceramic and even polymeric substrates. Typical thickness of the coatings are in the range of a few nanometer up to a few micrometer.

INNOVATIVE RTD ASPECT:

The coatings can be deposited onto temperature sensitive substrates at room temperature. The properties of the coatings can be adjusted with respect to the requirements of the target application.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

We are looking for partners for technology transfer.

We are seeking cooperation partners who are demanding new functional thin coatings for their medical products. It would be beneficial if contacts to opinion leaders in hospitals would already exist.

Furthermore the partners should have experience in testing the biomedical behaviour of new functional coatings. The partners should have a well-founded understanding on the requirements of functional coatings for medical applications.

Target fields of applications are: implants and prostheses, biosensors, biochips

We will support the partners with scientific knowledge in material science and thin film technology and we will deposit functional coating onto medical devices provided by the partners.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Rudjer Boskovic Institute

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www		
Organisation Type	R&D Institute	

Contact Person

Name	PhD Silva Hecimovic
Position	Research Associate
Email	silva.hecimovic@irb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Cell- and Molecular biology
Genetics and Proteomics
Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES: Rudjer Boskovic Institute is a leading research institution in Croatia, employing more than 500 scientists. Scientific expertise of researchers at the Ruder Boškovic Institute covers wide range of disciplines, including physics, chemistry, molecular biology and molecular medicine. The research at the institute is conducted through scientific projects, lasting between three and five years. The majority of projects are national basic research projects, funded by the Ministry of Science, Education and Sport. At present, RBI scientists are involved in 122 such projects.

INTERNATIONAL EXPERTISE IN RTD: Rudjer Boskovic Institute manages its RTD activities through the international projects in different departments and spin off companies. The Institute is involved in 79 international projects (50 bilateral, 21 FP6, 7 IAEA, 1 UNESCO), as well as 37 applied and technological projects funded from various other sources.

Partner.Request **The cholesterol-mediated neurodegeneration in Niemann Pick type C disease and Alzheimer's disease**

DESCRIPTION OF EXPERTISE OFFERED: Our group has expertise on molecular and cellular biology of Alzheimers disease. We use a wide range of biochemical, and molecular and cell biology methods to study the mechanisms of Alzheimers disease. The leader of the group Dr. Silva Katusic Hecimovic has spent three years working within the Alzheimers Disease Research Center in St. Louis, USA. We also collaborate with clinicians to analyze CSF samples for AD diagnosis.

INNOVATIVE RTD ASPECT: This project aims to identify cholesterol-mediated transcriptome/proteome changes that lead to neurodegenerative processes. To our knowledge, studies proposed in this project have not been done before. The project also utilizes transcriptome and proteome techniques. This project will identify genes/proteins involved in a common lipid-regulated cellular pathway that leads to neurodegeneration in NPC and Alzheimers disease. These genes/proteins may potentially be used as biomarkers for the diagnosis and for the development of new therapies of Alzheimer's disease as well as other neurodegenerative diseases. Currently, there are no available diagnostic tests nor therapies that would accurately diagnose and treat Alzheimer's disease, the world leading neurodegenerative disorder. We envisage that our findings may be of interest to pharmaceutical companies.

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DESCRIPTION OF REQUESTED PARTNER PROFILE: We search for partners who are experts in microarray analysis, bioinformatics and mass spectrometry. Partners working on Alzheimers disease and/or other neurodegenerative disorder are requested. We seek partners who may provide biological samples as well.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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University of Rijeka

Address	Trg brace Mazuranic 51000 Rijeka	Croatia
Phone / Fax	T:51406581 / F:	
www		
Organisation Type	University	

Contact Person

Name	Natasa Jakominic Marot
Position	international projects coordinator
Email	natasa@uniri.hr
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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University of Rijeka

Address	Trg brace Mazuranic 51000 Rijeka	Croatia
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www		
Organisation Type	University	

Contact Person

Name	Ivana Klarin
Position	international projects administrator
Email	ivana@uniri.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Offered
EU RP7 Cooperation Project	

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

i
INTERNATIONAL EXPERTISE IN RTD: i

Partner.Offer ii i

DESCRIPTION OF EXPERTISE OFFERED:

i
i i
INNOVATIVE RTD ASPECT:i

DESCRIPTION OF REQUESTED PARTNER PROFILE:i

OTHER SPECIFIC RTD ASPECTS NEEDED:i

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University of Rijeka

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www		
Organisation Type	University	

Contact Person

Name **professor Zdravko Lenac**
Position vice-rector
Email pro3@uniri.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Faculty of Arts and Sciences

Address	Omladinska 14 51000 Rijeka	Croatia
Phone / Fax	T:+385 99 2116585 / F:+385 51 345 207	
www		
Organisation Type	University	

Contact Person

Name	Ivana Ilijasic Misic
Position	science manager
Email	ilijasic@ffri.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation	Both	Others
EU RP7 Cooperation Project	Both	

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

Partner.Request anything that includes social sciences and humanities

DESCRIPTION OF EXPERTISE OFFERED:

any aspect of social sciences and humanities involvement, data analysis...

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Rudjer Boskovic Institute

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www	http://www.irb.hr/en/str/zfm/labs/LPV/	
Organisation Type	R&D Institute	

Contact Person

Name	Dr Branko Pivac
Position	Head of the Semiconductor Lab
Email	pivac@irb.hr
Languages	English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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APS

Address	Schlögelgasse 9/1 8010 Graz	Austria
Phone / Fax	T:+43 316 873 6815 / F:+43 316 873 6815	
www	www.aps.or.at	
Organisation Type	Other	

Contact Person

Name **Mag. Andrea Fenz**
Position Managing Director
Email fenz@aps.or.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Croatian Institute for History

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Phone / Fax	T:00385-1-485-1721 / F:00385-1-485-1721	
www		
Organisation Type	R&D Institute	

Contact Person

Name **PhD Robert Skenderovic**
Position Junior Researcher
Email rskender@isp.hr
Languages German
Croatian

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Ruder Boškovic Institute

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www		
Organisation Type	Other	

Contact Person

Name	Dr. sc. Sanja Tomic
Position	higher research associate
Email	sanja.tomic@irb.hr
Languages	English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Biochemistry and Biophysics
EU RP7 Cooperation Project Requested	Bioinformatics

Short description of organisation

RESEARCH ACTIVITIES:
Scientific institute - research

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer **Designing new specific proteins or ligands**

DESCRIPTION OF EXPERTISE OFFERED:

Molecular modelling (MM, MD, MC), bioinformatics, Chemoinformatics- 3DQSAR analysis

INNOVATIVE RTD ASPECT:

Using computational methods to determine specificity of protein-protein and protein-ligand complexes, and to design novel mutants and ligands that would bind more specifically.

Study is based on experimental data- measured binding affinities and 3D structure of the molecules, either modeled or experimental

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Experimentalist performing site directed mutagenesis and kinetic and/or the binding free energies measurements (ITC-isothermal titration calorimetry, fluorescence measurements) for a large group of ligands and/ or protein mutants

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Austrian Academy of Sciences

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www		
Organisation Type	R&D Institute	

Contact Person

Name	DI Aden Hodzic
Position	Model Membranes Group
Email	aden.hodzic@oeaw.ac.at
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biochemistry and Biophysics
Nano-biotechnology

Short description of organisation

RESEARCH ACTIVITIES:

The Institute of Biophysics and Nanosystems Research (IBN) in Graz belongs to Austrian Academy of Sciences and is a center of the nano-biological research.

My research activity at moment belongs to coupling of local and global features in phospholipid model membranes due to the effects of sterols, drugs and salt.

INTERNATIONAL EXPERTISE IN RTD:

X-ray and neutron scattering techniques, electron paramagnetic resonance spectroscopy, as well as densitometry, acoustic, and calorimetric measurements.

Partner.Request **SUPRAMOLECULAR ORGANIZATION OF MAIRNE BIOPOLYMERS AT NANOSCAL**

DESCRIPTION OF EXPERTISE OFFERED:

Small-Angle X-ray Scattering (SAXS) technique as a support by studies of the macroaggregation phenomenon in the Northern Adriatic Sea.

SAXS techniques have been frequently used in studying of polysaccharide structures. For example, temperature transitions behaviour of gellan or carrageenan as well as the impact of inorganic salts on gelation mechanism have been investigated by SAXS. Furthermore the PH depending behaviour of polysaccharid well-behaved materials have been successful analyzed with this technique. Hence, SAXS could supply a contribution by elucidation of temperature transitions behaviour, the impact of inorganic salts or PH influences on gelation mechanism of biopolymers caused by macroaggregation phenomenon in the Northern Adriatic sea-surface. Such kind of contribution would be the aim of the cooperation's project.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Rudjer Boskovic Institute (RBI) is the largest Croatian research centre in sciences and science applications.

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The Group for bioelectrochemistry and surface imaging belongs to the Division for Marine and Environmental Research within RBI.

Field studies of the macroaggregation phenomenon in the Northern Adriatic Sea including sample collection with defined oceanographic parameters. Samples of marine gel phase are available for structural analyses at nanoscale.

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Rudjer Boskovic Institute

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www	http://www.irb.hr/en/str/zimo/laboratoriji/lem/GBOP/	
Organisation Type	R&D Institute	

Contact Person

Name	PhD Vesna Svetlicic
Position	senior scientist
Email	svetlicic@irb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biochemistry and Biophysics

Short description of organisation

RESEARCH ACTIVITIES:

Rudjer Boskovic Institute (RBI) is the largest Croatian research centre in sciences and science applications. In the multi-disciplinary environment of the Institute more than 500 academic staff and graduate students work on problems in experimental and theoretical physics, chemistry and physics of materials, organic and physical chemistry, biochemistry, molecular biology and medicine, environmental and marine research and computer science and electronics.

The Group for bioelectrochemistry and surface imaging belongs to the Division for Marine and Environmental Research within RBI. Our current project "Surface forces on atomic scale applied in marine science and nanotechnology" is aimed to bring biophysical concepts and approach to the study of the organization and function of the organic matter in the sea.

INTERNATIONAL EXPERTISE IN RTD:

Partner.Request **SUPRAMOLECULAR ORGANIZATION OF MAIRNE BIOPOLYMERS AT NANSCALE**

DESCRIPTION OF EXPERTISE OFFERED:

Field studies of the macroaggregation phenomenon in the Northern Adriatic Sea including sample collection with defined oceanographic parameters. Samples of marine gel phase are available for structural analyses at nanoscale.

We offer Atomic Force Microscopy (AFM) facility and the expertise for imaging of gel networks.

INNOVATIVE RTD ASPECT:

The episodic events of massive biopolymer aggregation to form macroscopic gel phase that cover tens of square kilometers of Northern Adriatic sea-surface and form large aggregates within the water column, significantly affects basic biological, chemical and physical properties of the ecosystem. The gel phase contains less than 1 ppm of organic carbon composed primarily of polysaccharide matrices (carboxylated and sulfonated polysaccharides) that may contain proteins in the form of proteoglycans or glycoproteins.

This will be the first study of supramolecular organization of marine biopolymer in the aqueous phase aimed to uncover the mechanism of the macroaggregation process in the Northern Adriatic.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

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Small-Angle X-ray Scattering (SAXS) facility and expertise in studying polymer networks in aqueous phase within the Institute of Biophysics and Nanosystems Research (IBN), Graz and Austrian Academy of Sciences.

Small-Angle X-ray Scattering technique as a support for studies of the macroaggregation phenomenon in the Northern Adriatic Sea: SAXS techniques have been frequently used in studying of polysaccharide structures. For example, temperature transitions behaviour of gellan or carrageenan as well as the impact of inorganic salts on gelation mechanism have been investigated by SAXS. Furthermore the pH depending behaviour of polysaccharid well-behaved materials have been successful analyzed with this technique. Hence, SAXS could supply a contribution by elucidation of temperature transitions behaviour, the impact of inorganic salts or pH influences on gelation mechanism of biopolymers caused by macroaggregation phenomenon in the Northern Adriatic sea-surface.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Rudjer Boskovic Institute

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www	www.irb.hr	
Organisation Type	R&D Institute	

Contact Person

Name	B.Sc. Tea Mistic
Position	PhD student
Email	tmistic@irb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation	Both	Biochemistry and Biophysics
EU RP7 Cooperation Project	Both	

Short description of organisation

please find in Vesna Svetlicic Registration Form

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

Partner.Request **SUPRAMOLECULAR ORGANIZATION OF MAIRNE BIOPOLYMERS AT NANSCALE**

please find in Vesna Svetlicic Registration Form

DESCRIPTION OF EXPERTISE OFFERED:

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Johannes Kepler Universität Linz, Institut für Organische Chemie

Address	Altenbergerstrasse 69 4040 LINZ	Austria
Phone / Fax	T:+43 732 2468 8746 / F:+43 732 2468 8747	
www		
Organisation Type	University	

Contact Person

Name **Prof. Dr. Norbert Müller**
Position Stv. Institutsvorstand
Email norbert.mueller@jku.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)		Areas of activity
RTD-cooperation	Requested	Biochemistry and Biophysics
EU RP7 Cooperation Project	Requested	Bioinformatics Others

Short description of organisation

RESEARCH ACTIVITIES: Nuclear Magnetic Resonance Spectroscopy, Protein Structure and Dynamics, Glycoconjugates

INTERNATIONAL EXPERTISE IN RTD:

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Hrvatko-austrijsko društvo

Address	Bijenicka 54 10 000 Zagreb	Croatia
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www		
Organisation Type	Other	

Contact Person

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Position professor
Email stjepan.jecic@fsb.hr
Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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hrvatsko-austrijsko drustvo

Address	Bijenicka c.54 10 000 Zagreb	Croatia
Phone / Fax	T:01 2343150 / F:	
www		
Organisation Type	Other	

Contact Person

Name **Mr.sc. Ranka Franz Stern**
Position retired
Email rstern@unizg.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Hrvatsko-autrijsko društvo

Address	Bijenicka c.54 10 000 Zagreb	Croatia
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www		
Organisation Type	Other	

Contact Person

Name **Mr.sc. Kristina Gamirsek-Snidarsic**
Position retired
Email snidarsic@vip.hr
Languages German
Croatian

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Biotechnology

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Hrvatsko-austrijsko društvo

Address	Bijenicka c. 54 10000 Zagreb	Croatia
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www		
Organisation Type	Other	

Contact Person

Name	mr.bib Dubravka Kunstek
Position	bibliotekar
Email	dkunstek@eizg.hr
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Österreichisch-Kroatische Gesellschaft Salzburg

Address	Buchenweg 10 5162 Obertrum bei Salzburg	Austria
Phone / Fax	T:+43/ (0)664-83 42 712 / F:+43/ (0)6219-61 43 20	
www	www.oekg.at	
Organisation Type	Other	

Contact Person

Name **Mag. Sandra Zuljic**
Position Vizepräsident
Email sandrazuljic@hotmail.com
Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Institute for medical research and occupational health

Address	Ksaverska c. 2 10000 Zagreb	Croatia
Phone / Fax	T:385 1 4673188 / F:385 1 4673303	
www	www.imi.hr	
Organisation Type	R&D Institute	

Contact Person

Name	Ph D Mladen Pavlovic
Position	research adviser
Email	mpavlov@imi.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Requested

Areas of activity

Health care
Immunology
Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES:lung health epidemiology, epidemiology of chronic diseases

INTERNATIONAL EXPERTISE IN RTD: none

Partner.Request **Respiratory morbidity risk assesement in general population of Croatia: a prospective stry**

DESCRIPTION OF EXPERTISE OFFERED:

Identification of co-factors in respiratory morbidity (eg. copd/ emphysema) in rural/urban and inland/coastal general population older than 70 years.

INNOVATIVE RTD ASPECT:

Influence of follow-up data before 25 years on today ventilatory patern

DESCRIPTION OF REQUESTED PARTNER PROFILE:

alergologis or pneumonologist with knowledge in epidemiology

OTHER SPECIFIC RTD ASPECTS NEEDED:

statistician

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Faculty of Mechanical Engineering and Naval Architecture

Address	Ivana Lucica 1 10000 Zagreb	Croatia
Phone / Fax	T:++ 385 1 61 68 313 / F:++ 385 1 61 57 126	
www	www.fsb.hr	
Organisation Type	University	

Contact Person

Name	Ph.D. Lidija Curkovic
Position	Assistant Professor
Email	lidija.curkovic@fsb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Offered
EU RP7 Cooperation Project	Offered

Areas of activity

Biochemistry and Biophysics
Others

Short description of organisation

RESEARCH ACTIVITIES: laser ablation, ablation laser-irradiation effects, UV laser, metal, alloys and wooden surface.

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer UV (N2) laser ablation on metal, alloys and wooden surface

DESCRIPTION OF EXPERTISE OFFERED: Investigation of interaction between different materials (metals, alloys and wood) and laser beams.

INNOVATIVE RTD ASPECT: Investigation of surface condition as well as undersurface condition after laser irradiation by means of different techniques (AFM, FIB, SEM with EDX detector).

DESCRIPTION OF REQUESTED PARTNER PROFILE: Lidija Curkovic was graduated at the Faculty of Chemical Engineering and Technology University of Zagreb in 1990. After graduating I worked at the Department of Analytical Chemistry of the Faculty of Chemical Engineering and Technology, University of Zagreb. In 1995 I acquired the Master's degree at the Faculty of Chemical Engineering and Technology and the Doctor's degree in 1999 at the Faculty of Chemical Engineering and Technology in Zagreb. From 2000 I worked at the Department of Materials of the Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb as assistant and Head of Laboratory of Chemical Analysis of Metals. From 2003 I have been working at Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb as Assistant Professor. The scientific work includes research in the field of materials science, spectrophotometric and electroanalytic methods. I published 48 papers in Journal (CC), proceedings of international conferences.

OTHER SPECIFIC RTD ASPECTS NEEDED: Collaboration in other research institutions in area described above.

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School of Medicine, University of Zagreb, Department of Microbiology

Address	Salata 3 10000 Zagreb	Croatia
Phone / Fax	T:++385 1 4920026 / F:++385 1 4590130	
www		
Organisation Type	University	

Contact Person

Name	Professor branka Bedenic
Position	Associate Professor
Email	branka.bedenic@zg.htnet.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation	Offered	Microbiology
EU RP7 Cooperation Project		

Short description of organisation

RESEARCH ACTIVITIES: antimicrobial chemotherapy, beta-lactamases, molecular typing of multiresistant microorganisms, characterization of resistance mechanisms in Gram-negative bacteria

INTERNATIONAL EXPERTISE IN RTD: none

Partner.Offer **Molecular characterization of extended-spectrum beta-lactamases and metallo-beta-lactamases**

DESCRIPTION OF EXPERTISE OFFERED: antimicrobial susceptibility testing, determination of minimum inhibitory concentrations, E test, plasmid characterization, conjugation, plasmid fingerprinting, characterization of beta-lactamases, isoelectric focusing, polymerase chain reaction for detection of blaESBL genes and blaMBL genes, pulsed-field gel electrophoresis. I have defended a PhD Thesis on extended-spectrum beta-lactamases in *Klebsiella pneumoniae* in 1998. and published 36 papers in this field (17 in international journals published in CC). My previous studies described the prevalence and types of extended-spectrum beta-lactamases in clinical isolates of enteric bacteria. We have identified SHV-2, SHV-5 and SHV-12 beta-lactamases among our strains. Recently we have also found many *E. coli* strains producing CTX-M beta-lactamases, mostly CTX-M-3 and CTX-M-15. We have also determined the genetic relatedness between isolates producing ESBLs by PFGE. Besides that, I have investigated postantibiotic effect of expanded-spectrum cephalosporins on isogenic *E. coli* strains producing extended-spectrum beta-lactamases. Furthermore I have performed a research about urinary bactericidal activity of oral antibiotics against bacteria causing urinary tract infections, in ex vivo model. I am the leader of the project of Croatian Ministry of Science, Education and Sport, entitled Mechanisms of resistance to antibiotics in Gram-negative bacteria. Furthermore I was the supervisor of the PhD Thesis entitled Molecular characterization of extended-spectrum beta-lactamases in *Escherichia coli* which was defended in 2006. I am now supervising three PhD Thesis which are now in process of preparation. Currently, I am working also in the project on characterization of oxacillinases in carbapenem resistant *Acinetobacter baumannii* isolates. I am also doing a research on post-beta-lactamase inhibitor effect of clavulanic acid on ESBL producing enteric bacteria.

INNOVATIVE RTD ASPECT: discovery of new beta-lactamases and other resistance mechanisms in Gram-

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negative bacteria, new aspects of molecular epidemiology of multiresistant Gram-negative bacteria. The results of the project will help to create better antibiotic policy and to control the spread of multiresistant bacteria.

DESCRIPTION OF REQUESTED PARTNER PROFILE: I would like to learn the methods for characterization of outer membrane proteins, vertical electrophoresis, characterization of efflux pumps for carbapenems in *Pseudomonas aeruginosa* and other Gram-negative bacteria. Furthermore, I am interested to learn how to investigate the genetic surrounding of blaESBL and blaMBL genes and how to perform PCR mapping. If possible would like to visit a laboratory in Austria which is specialized in these techniques and well equipped for molecular microbiology

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Rudjer Boskovic Institute

Address	Bijenicka 54 10000 Zagreb	Croatia
Phone / Fax	T:++385 1 4561 085 / F:++385 14680 114	
www		
Organisation Type	R&D Institute	

Contact Person

Name	PhD Tomislav Smuc
Position	Head of Division of electronics
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Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Bioinformatics
Genetics and Proteomics
Health care

Short description of organisation

RESEARCH ACTIVITIES:

R&D in the field of knowledge discovery techniques and knowledge representation with applications primarily in the medical field, as well as in molecular biology and biochemistry.

INTERNATIONAL EXPERTISE IN RTD:

EUFP6 project - Knowledge based platform for the management of heart failure patients

Partner.Offer [Knowledge technologies for biomedical research and health care](#)

DESCRIPTION OF EXPERTISE OFFERED:

We combine expertise in design and application of machine learning and statistical learning theory based algorithms, with other knowledge technologies (ontology formalization and reasoning) .

INNOVATIVE RTD ASPECT:

Combining the range of above information and computing technologies, we produce tailored computational-experimental environments for intelligent decision support in medical care or biomedical (biological) research.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Partners from the bio-science or medical field addressing complex R&D problems involving large scale data collection, exploration and knowledge discovery, and/or requiring knowledge representation, management and reasoning support.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Pliva Croatia d.o.o.

Address	Ulica grada Vukovara 49 10000 Zagreb	Croatia
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www		
Organisation Type	Company	

Contact Person

Name	Dr Lidija Smejkal-Jagar
Position	Portfolio Manager
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Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Faculty of Food Technology and Biotechnology

Address	Pierottijeva 6 10000 Zagreb	Croatia
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www		
Organisation Type	University	

Contact Person

Name	BcS Irena Jelacic
Position	research assistant
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Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Requested
EU RP7 Cooperation Project	Requested

Areas of activity

Microbiology
Nutrition Science and Food technology

Short description of organisation

RESEARCH ACTIVITIES:
Sweet and fermented products based on whey or soymilk

INTERNATIONAL EXPERTISE IN RTD:

Partner.Request [Sweet and fermented products based on whey or soymilk](#)

DESCRIPTION OF EXPERTISE OFFERED:
Optimize production of sweet and fermented whey and soymilk-based products. Optimization of whey microfiltration process to avoid thermal treatment, as thermally labile whey proteins could denaturize, and because of mineral matter precipitation.

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:
Research activities in the area of microfiltration, or in sweet or fermented whey and soymilk-based products.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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University of Zagreb, Faculty of Chemical Engineering and Technology

Address	Marulicev trg 20 10000 Zagreb	Croatia
Phone / Fax	T:++3851 4597 209 / F:++3851 4597 250	
www	fkit.hr	
Organisation Type	University	

Contact Person

Name	Dr. Tomislav Bolanca
Position	Assistant professor
Email	Tomislav.Bolanca@fkit.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Offered
EU RP7 Cooperation Project	Requested

Areas of activity

Environmental technology
Others

Short description of organisation

RESEARCH ACTIVITIES:

The main research fields are materials, sustainable technologies, new manufacturing processes and environmental engineering.

INTERNATIONAL EXPERTISE IN RTD:

2003. RTD Croatia - Slovenia. Application of ion chromatography for monitoring of wastewater treatment processes performed by using natural zeolite

Coord.Request **Monitoring of oilfield water quality for development of environmental technology**

DESCRIPTION OF EXPERTISE OFFERED:

Over the life of the oil well or field, the volume of water produced will exceed the volume of oil produced by a factor of 3-6 times. Unfortunately, at the present time, the produced water is not a saleable product of the operation. Hence, an operator is faced with a serious challenge of how to handle relatively large amounts of produced water at the lowest possible cost. The primary stage in implementation of suitable water treatment environmental technology is monitoring of oilfield water quality. Therefore, the aim of this project is development of new methodology for monitoring of oilfield water quality. The method of first choice for monitoring of dissolved solid in oilfield water is chromatography. Chromatography is often regarded as a mature technique, one with thousands of practitioners successfully solving problems in a broad variety of applications. However, because of the difficulty and complexity of experimental optimization, few workers in practice are able to approach the best possible performance of a separation. The usual guidance available concerning the overall quality of a separation is the expectation based on past performance in the same workgroup rather than any real (or virtual) knowledge of what is actually possible. If there is a business expectation to find reasonable separation conditions within a couple of days, then there are only a dozen or so experiments possible before time runs out.

INNOVATIVE RTD ASPECT:

The resulted added value will can be expressed as: 1) added value due to optimization of monitoring process; 2) added value due to the developed software. The application of developed software should enable significantly faster monitoring with significantly lower expenses.

The reason of proposed collaboration is to combine: 1) all relevant information related to oilfield water monitoring process; 2) all relevant information related to optimization process; 3) all relevant programming limitations.

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DESCRIPTION OF REQUESTED PARTNER PROFILE:

The aim of this project is development of computer software which can be used for chromatography method development in a large number of applications for monitoring of oilfield water quality. The different types of artificial neural networks will be tested and included into the algorithm. The special attention will be focused to selection of optimal training algorithm which should improve performance of final software product. The gradient optimization strategies will be included into the algorithm. Methods of numerical integration will be tested in order to enable safe transfer of data from isocratic to gradient elution mode. Several criteria functions, different in terms of mathematical formulations as well as in terms of chromatographic interpretation, will be used as a basic tool for calculation for optimal conditions. Developed software will enable the external control of analysis time, regardless of criteria function used for optimization. That feature will be included into algorithm to enable optimization of different types of samples without need for development of new retention model what directly influences the economical issues of the overall monitoring process. The developed software will be tested on for monitoring of different contaminants and on different locations. The final estimation of economical justification will be provided.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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PLIVA HRVATSKA d.o.o.

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www		
Organisation Type	Company	

Contact Person

Name **M.sc. ANDREA PIFAT-SULEJMANOVIĆ**
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Email apifat@pliva.hr
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Farmaceutsko-biokemijski fakultet

Address	A. Kovacica 1 10000 Zagreb	Croatia
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www		
Organisation Type	University	

Contact Person

Name **mr.ph Maja Bival Štefan**
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English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Farmaceutsko-biokemijski fakultet

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www		
Organisation Type	University	

Contact Person

Name **dipl.ing. Jasna Jablan**
Position asistent
Email jjablan@pharma.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Faculty of Pharmacy and Biopchemistry

Address	A. Kovacica 1 10000 Zagreb	Croatia
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www		
Organisation Type	University	

Contact Person

Name	PhD Mario Gabricevic
Position	Assistant Professor
Email	mariog@pharma.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project **Both**

Areas of activity

Biochemistry and Biophysics

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer [Interaction of proteins and small molecules](#)

DESCRIPTION OF EXPERTISE OFFERED:

NMR, EPR, pH-titration, Fluorescence spectroscopy, CD spectroscopy and UV-Vis spectroscopy - for equilibrium studies in proteins and small molecules

NMR, Stopped-flow Uv-Vis, Stopped-flow fluorescence and Stopped-flow CD spectrometry – for kinetic studies in proteins and small molecules

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Croatian Institute of Technology

Address	Planinska 1 10000 Zagreb	Croatia
Phone / Fax	T:+ 385 1 5494 730 / F:+385 1 5494 720	
www	www.hit.hr	
Organisation Type	Company	

Contact Person

Name **Andrej Cuš**
Position Head of TEST Program
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Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Croatian Institute of Technology

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www	www.hit.hr	
Organisation Type	Company	

Contact Person

Name	Dario Kordic
Position	Head of International Cooperation Unit
Email	dario.kordic@hit.hr
Languages	Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Faculty of Food Technology and Biotechnology

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www		
Organisation Type	University	

Contact Person

Name **B.Sc. Dunja Horzic**
Position Scientific assistant
Email dhorzic@pbf.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Federal Ministry of Science and Research

Address	Rosengasse 4 1010 Vienna	Austria
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www		
Organisation Type	Other	

Contact Person

Name **Prof. Manfred Horvat**
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Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Faculty of Food Technology and Biotechnology

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www		
Organisation Type	University	

Contact Person

Name	Ph.D. Rajka Božanic
Position	professor
Email	rbozan@pbf.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Requested
EU RP7 Cooperation Project	Requested

Areas of activity

Microbiology
Nutrition Science and Food technology

Short description of organisation

RESEARCH ACTIVITIES:
Sweet and fermented products based on whey or soymilk

INTERNATIONAL EXPERTISE IN RTD:

Partner.Request [Sweet and fermented products based on whey or soymilk](#)

DESCRIPTION OF EXPERTISE OFFERED:

Optimize production of sweet and fermented whey and soymilk-based products. Optimization of microfiltration process to avoid thermal treatment, as thermally labile whey proteins could denaturize, and because of mineral matter precipitation.

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Research activities in the area of microfiltration, or in sweet or fermented whey and soymilk products.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Faculty of Food Technology and Biotechnology

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www		
Organisation Type	University	

Contact Person

Name **Ph.D. Draženka Komes**
Position Assistant Professor
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Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Faculty of Food Technology and Biotechnology

Address	Pierottijeva 6 10000 Zagreb	Croatia
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www		
Organisation Type	University	

Contact Person

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Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Faculty of Food Technology and Biotechnology

Address	Pierottijeva 6 10000 Zagreb	Croatia
Phone / Fax	T:++385 1 4605 031 / F:	
www		
Organisation Type	University	

Contact Person

Name **Ph.D. Karin Kovacevic Ganic**
Position Assistant professor
Email kkova@pbf.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Faculty of natural science, mathematics and kinesiology

Address	Teslina 12 21000 Split	Croatia
Phone / Fax	T:021/385133 / F:	
www	pmfst.hr	
Organisation Type	University	

Contact Person

Name	Nada Ilic (rod. Pekic)
Position	asistent
Email	nada@pmfst.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biochemistry and Biophysics
Bioinformatics
Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES: structure and activities of antimicrobial peptides; biochemical characterization of antimicrobial peptides

INTERNATIONAL EXPERTISE IN RTD:

Partner Request **Construction principles of selective AMP**

DESCRIPTION OF EXPERTISE OFFERED:

Construction of servers for predicting secondary structure and activity of membrane associated polypeptides

INNOVATIVE RTD ASPECT:

Therapeutic index estimation for frog-like AMP-s

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Interest in synthesis, purification, characterisation and testing of AMP-S

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Farmaceutsko-biokemijski fakultet

Address	A. Kovacica 1 10000 Zagreb	Croatia
Phone / Fax	T:+38514818305 / F:	
www		
Organisation Type	University	

Contact Person

Name **Ivan Kos**
Position Znanstveni novak
Email kos@pharma.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES: Synthesis and biological evaluation of hydroxyureas and similar compounds.

INTERNATIONAL EXPERTISE IN RTD:

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Space Research Institute Graz, Austrian Academy of Sciences

Address	Schmiedlstrasse 6 8042 Graz	Austria
Phone / Fax	T:0316/4120-400 / F:	
www		
Organisation Type	R&D Institute	

Contact Person

Name **Mag. Dr. Manuela Temmer**
Position Post-Doc
Email mat@igam.uni-graz.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES: Solar Physics: solar activity and geo-effectivity of solar eruptions (Space Weather)

INTERNATIONAL EXPERTISE IN RTD:

Collaborations in solar physics with Croatia Hvar Observatory, University of Zagreb; U.S. (NASA, HNF); Slovakia (AISAS); Germany (AIP);

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PREHRAMBENO BIOTEHNOLOŠKI FAKULTET

Address	Pierottijeva 6 10 000 ZAGREB	Croatia
Phone / Fax	T:+ 385 1 48 36 047 / F:	
www		
Organisation Type	University	

Contact Person

Name **STUDENT LEA sulejmanovic**
Position II year student
Email snoopy.lea@gmail.com
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Pliva Hrvatska d.o.o.

Address	Prilaz Baruna Filipovica 10000 Zagreb	Croatia
Phone / Fax	T:00385 / F:	
www		
Organisation Type	R&D Institute	

Contact Person

Name **Dr Franjo Ivusic**
Position researcher
Email fivusic@pbf.hr
Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Biotechnology
Environmental technology

Short description of organisation

RESEARCH ACTIVITIES: Down stream separation processes, fermentation

INTERNATIONAL EXPERTISE IN RTD: six month research in Graz TU University

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Filozofski fakultet u Zagrebu

Address	Ivana Lucica 3 10000 Zagreb	Croatia
Phone / Fax	T:+385 98 1681 330 / F:	
www		
Organisation Type	University	

Contact Person

Name **Ida Jagar**
Position student
Email ida3991@yahoo.ie
Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Ruder Boskovic Institute

Address	Bijenicka 54 10000 Zagreb	Croatia
Phone / Fax	T:+38514571219 / F:+38514561177	
www	www.irb.hr	
Organisation Type	R&D Institute	

Contact Person

Name	Dr Igor Weber
Position	Head of the Department of mol. biology
Email	iweber@irb.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Requested Biochemistry and Biophysics
EU RP7 Cooperation Project	Requested Cell- and Molecular biology Systems biology

Short description of organisation

RESEARCH ACTIVITIES: Department of cell biology at the Rudjer Boskovic Institute is engaged in the following research topics: 1) processes involved in the maintenance of genome integrity, as well as genome variation and the evolution of new species (DNA replication, recombination and repair); 2) processes involved in the expression of genomic information (transcription and translation); 3) signal transduction processes in molecular regulation of cell division, growth, differentiation and senescence; 4) cellular responses to toxic agents and development of resistance to cytostatics and antibiotics; 5) regulatory mechanisms of photosynthesis; 6) dynamical processes in the cytoskeleton, and 7) evolution of genes and genomes.

INTERNATIONAL EXPERTISE IN RTD: The methods that are routinely used in work at the Department are mostly based on recombinant DNA technology in combination with methods in biochemistry, biophysics, cell biology, classical genetics and in silico analysis.

Partner.Request **Biophotonics applications in cell motility research**

DESCRIPTION OF EXPERTISE OFFERED: Molecular cell biology of the signaling and cytoskeletal proteins in the model organism *Dictyostelium discoideum*. Confocal laser scanning microscopy and computer-assisted analysis of cell motility.

INNOVATIVE RTD ASPECT: Working towards a system biology of the cell motility.

DESCRIPTION OF REQUESTED PARTNER PROFILE: A partner is sought that has access to advanced methods of biophotonics, and in particular to fluorescence resonance energy transfer (FRET) implemented by the method of fluorescence lifetime imaging microscopy (FLIM), and to a spinning-disc microscope for live cell imaging.

OTHER SPECIFIC RTD ASPECTS NEEDED: Experience in cell motility research with model organisms and cells other than *Dictyostelium*. Experience in molecular cell biology of signaling mediated by small GTP-ase proteins.

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Rudjer Boskovic Institute

Address	Bijenicka 54 10000 Zagreb	Croatia
Phone / Fax	T:+385 (0)1 4561 185 / F:+385 (0)1 4680242	
www	irb.hr	
Organisation Type	R&D Institute	

Contact Person

Name	Ph. D. Suzana Šegota
Position	research associate
Email	ssegota@irb.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biochemistry and Biophysics

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

Partner.Request **SUPRAMOLECULAR ORGANIZATION OF MARINE BIOPOLYMERS AT NANOSCALE,**

DESCRIPTION OF EXPERTISE OFFERED:
please find in Vesna Svetlicic Registration Form

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Aurora Fine Chemicals Ltd.

Address	Reininghausstrasse 49 A-8020 Graz	Austria
Phone / Fax	T:+43 316 58 67 38 / F:	
www	aurorafinechemicals.com	
Organisation Type	Company	

Contact Person

Name	Dr. Alexander Kutylev
Position	manager
Email	aurora@aurorafinechemicals.com
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation **Both**
EU RP7 Cooperation Project

Areas of activity

Biochemistry and Biophysics
Bioinformatics
Pharmacology
Others

Short description of organisation

RESEARCH ACTIVITIES:

Using Aurora Fine Chemicals Ltd. a drug discovery service, compound libraries, focused libraries and focused library design and a custom synthesis to support your companys research programs can help you to atchieve your goals in pharmaceutical development.

INTERNATIONAL EXPERTISE IN RTD:

Established company in the field of drug discovery service, see <http://www.aurorafinechemicals.com/services.html>.

Partner.Offer **From biological target to drug molecules.**

DESCRIPTION OF EXPERTISE OFFERED:

Aurora provides services that help you to maximize the value of your research and development. Our goal is to create unique service experience for every customer by listening to your requirements and responding to them with innovative initiatives. Monitoring our performance against world-class service standards as well as support every client with the Auroras portfolio of services and products belong to our most important tasks.

INNOVATIVE RTD ASPECT:

Why do you even need Aurora for your pharmaceutical development?

Because firstly, there's a complete solution for drug candidates – you just need to show your biological target and the complete process for looking for drug molecules will be done for you.

Secondly, Aurora is using its unique software, based on direct models, created by quantum mechanical analysis of molecular interactions and thermodynamics. As a result, the prediction capability of models is better in comparison to a QSAR method that doesn't work for absolutely novel compounds.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Companies, universities, institutes, medical and research organizations that are looking for a complete solution for drug candidates.

Any organizations that are looking for a distribution of their life science services in Europe, North America and Japan.

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OTHER SPECIFIC RTD ASPECTS NEEDED:

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Rudjer Boškovic Institute

Address	Bijenicka 54 10000 Zagreb	Croatia
Phone / Fax	T:+385 - 1- 4561117 / F:+385 - 1- 4561118	
www		
Organisation Type	R&D Institute	

Contact Person

Name	professor Zvonimir Maksic
Position	distinguished scientist
Email	zmaksic@spider.irb.hr
Languages	German English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:Ruder Boškovic Institute is the leading research Institute in Croatia with a broad scope extending from theoretical physics to experimental medicine

INTERNATIONAL EXPERTISE IN RTD:

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Filozofski fakultet u Rijeci

Address	Omladinska 14 51000 Rijeka	Croatia
Phone / Fax	T:098799549 / F:	
www		
Organisation Type	University	

Contact Person

Name **Marija Brkic**
Position assistant
Email mbrkic@ffri.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Ludwig Boltzmann Institute for Experimental and Clinical Traumatology

Address	Donauerschingerstraße 13 1200 Vienna	Austria
Phone / Fax	T:0316/380-4447 / F:	
www	http://www.lbitrauma.org/	
Organisation Type	R&D Institute	

Contact Person

Name	PhD Gudrun Schmidt-Gann
Position	Post Doc
Email	gudrun.schmidt-gann@lbitrauma.org
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Requested

Areas of activity

Biochemistry and Biophysics
Cell- and Molecular biology
Diagnostics and Medical technology
Health care

Short description of organisation

RESEARCH ACTIVITIES:

Preclinical models in the field of ischemia/reperfusion, shock, inflammation, sepsis as well as hemostasis, wound/bone healing and tissue engineering with related analytical technology.

INTERNATIONAL EXPERTISE IN RTD:

Partner.Request **Preclinical models in the field of ischemia/reperfusion, shock, inflammation, sepsis**

DESCRIPTION OF EXPERTISE OFFERED:

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Cooperation in the abovementioned fields to complement research competencies

OTHER SPECIFIC RTD ASPECTS NEEDED:

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University of Zagreb, Faculty of Textile Technology

Address	Savska 16 10 000 Zagreb	Croatia
Phone / Fax	T:00 385 1 4597138 / F:	
www		
Organisation Type	University	

Contact Person

Name	Dr.sc. Alka Mihelic-Bogdanic
Position	Full professor
Email	amihel@fkit.hr
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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University of Zagreb, Faculty of Chemical Engineering and Technology

Address	Savska 16 10 000 Zagreb	Croatia
Phone / Fax	T:00 385 1 45 97 138 / F:	
www		
Organisation Type	University	

Contact Person

Name	Dr. sc. Rajka Budin
Position	Full professor
Email	rbudin@fkit.hr
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Faculty of Pharmacy and Biochemistry

Address	Ante Kovacica 1 10000 Zagreb	Croatia
Phone / Fax	T:+385 1 4818 305 / F:	
www		
Organisation Type	University	

Contact Person

Name **mr. pharm. Tin Weitner**
Position Assistant
Email tweitner@pharma.hr
Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Ruder Boškovic Institute

Address	Bijenicka 54 10000 Zagreb	Croatia
Phone / Fax	T:++ 385 1 4680238 / F:++ 385 1 4561177	
www		
Organisation Type	R&D Institute	

Contact Person

Name	Dr. Hrvoje Fulgosi
Position	res. associate, head of the laboratory
Email	fulgosi@irb.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)		Areas of activity
RTD-cooperation	Both	Biochemistry and Biophysics
EU RP7 Cooperation Project	Both	Biotechnology Genetics and Proteomics Nano-biotechnology Nutrition Science and Food technology

Short description of organisation

RESEARCH ACTIVITIES:

Ruder Boškovic Institute (RBI) is the largest Croatian research centre for basic science, founded in 1950, today consists of twelve divisions, two centres, a library. The Institute employs over 500 academic staff, including some 300 researchers, about 30 postdoctoral fellows, and just under 200 Ph.D. students. Scientific expertise of researchers at the RBI covers wide range of disciplines, including theoretical and experimental physics, organic, inorganic and computational chemistry, materials sciences, land and marine ecology, geology, molecular biology and molecular medicine, bioinformatics, electronics and computing.

INTERNATIONAL EXPERTISE IN RTD:

RBI manages its RTD activities through the national/international projects and spin off companies. Recently, the RBI's activities toward generation of intellectual property yielded a total of 9 inventions currently in different phases of realization. RBI established a strong collaboration with the several major national and some international companies.

Partner.Request **Regulatory mechanisms of oxygenic photosynthesis**

DESCRIPTION OF EXPERTISE OFFERED:

Photosynthesis is fundamental autotrophic biochemical process that is responsible for primary food and oxygen production on Earth. Results of our research can find applicability in many aspects of agriculture, plant protection, atmospheric sciences and commercial flower production. Genes with specific regulatory functions in photosynthesis can be used to engineer plants to grow under specific stress conditions or to have increased levels of photosynthetic activity.

INNOVATIVE RTD ASPECT:

Molecular mechanisms involved in regulation of oxygenic photosynthesis appears to be much more complex than previously anticipated. Various auxiliary proteins linking photosynthesis with physiological responses have recently been identified. Yet, numerous key regulatory elements are still missing and have to be characterized. Identification of such polypeptides is the main topic of our current research in photosynthesis.

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DESCRIPTION OF REQUESTED PARTNER PROFILE:

Plant molecular biology groups and Institutes with developed plant transformation procedures. Special interest in partners working on crop protection.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Faculty of Medicine, University of Rijeka

Address	Brace Branchetta 20 51000 Rijeka	Croatia
Phone / Fax	T:+385 51 651 108 / F:+385 51 675 806	
www		
Organisation Type	University	

Contact Person

Name **Ljiljana Pintar**
Position international projects administrator
Email ljpintar@medri.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Rudjer Boskovic Institute

Address	Bijenicka 10000 Zagreb	Croatia
Phone / Fax	T:003851 4571 258 / F:003851 4561 177	
www		
Organisation Type	R&D Institute	

Contact Person

Name **Dr.sc. Dusica Vujaklija**
Position Research Associate
Email vujaklij@irb.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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University of Graz, Institute of Chemistry

Address	Heinrichstrasse 28 A-8010 Graz	Austria
Phone / Fax	T:++43 316 380-8673 / F:	
www		
Organisation Type	University	

Contact Person

Name **Dr. Klaus Zangger**
Position Associate Prof.
Email klaus.zangger@uni-graz.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation **Requested**
EU RP7 Cooperation Project **Requested**

Areas of activity

Biochemistry and Biophysics

Short description of organisation

RESEARCH ACTIVITIES:
Solution NMR of proteins and peptides ;
membrane-bound peptides

INTERNATIONAL EXPERTISE IN RTD:

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Faculty of Chemical Engineering and Technology University of Zagreb

Address	Marulicev trg 19 10000 Zagreb	Croatia
Phone / Fax	T:+385 14597 281 / F:+385 1 4597 260	
www		
Organisation Type	University	

Contact Person

Name	Professor Vesna Tomasic
Position	Vice-Dean for Education and Science
Email	vtomas@fkit.hr
Languages	Croatian
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Both Environmental technology
EU RP7 Cooperation Project	Requested

Short description of organisation

RESEARCH ACTIVITIES:

The research activities in Department of Reaction Engineering and Catalysis are divided into four branches: catalyst materials, characterization of catalytic systems, reaction engineering and environmental catalysis. Studies of the interrelationship between structural and chemical properties of solid materials and their catalytic properties are at the origin of the design of new catalysts. Characterization and theoretical modeling are applied to gain the information necessary for a rationally guided catalyst design. Research in reaction engineering is concerned with the optimization of the interplay between chemical reaction and mass - and heat transfer in the catalytic system. The ultimate goal of these efforts is the development of new efficient catalytic systems for the application in environmental catalysis.

INTERNATIONAL EXPERTISE IN RTD:

Research and teaching are based on the wide range cooperation with both national and foreign Universities, national companies and Institutes. The recent cooperation is with the Università della Calabria, Dip. Ingegneria Chimica e dei Materiali, Rende, Italia on the zeolite catalyst preparation for wastewaters treatment and with the Jagiellonian University, Faculty of Chemistry, Dept. of Inorg. Chem./Environment Catalysis Group, Krakow, Poland on air pollution abatement catalysis (deNOx catalysis, diesel particulates abatement).

Partner.Offer **Application of Catalysis in Environmental Protection**

DESCRIPTION OF EXPERTISE OFFERED:

Catalysis is the backbone of the chemical industry. It is also an integral part in some of our most important pollution control and environmental cleanup processes. Because of its substantial impact on the global economy and environmental protection, catalysis remains an active and vital area of research and development. The principal aim of the proposed research project would be to provide a basis for the advancement of processes for the abatement of pollutants that are detrimental to the environment. The proposal concerns the perspectives offered by catalysis for water and air purification.

Catalysts for catalytic and photocatalytic VOCs oxidation, catalytic oxidation of soot particles, selective NOx reduction, and wastewaters purification will be investigated.

Various instrumental techniques for the determination of chemical and physical characteristics of commercial and newly prepared catalysts will be employed. Effect of catalyst preparation and pretreatment on its activity, selectivity and lifetime will also be examined. Optimum catalyst preparative conditions will be identified for each reaction type. Fixed-bed, annular tubular and slurry reactors used for studying kinetic and mechanism of

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reaction will be employed. On all levels, ranging from micro- to macroscale, theoretical modeling will be interwoven with experimental work. The optimum values of process parameters will be quantified. Generally, this comprises reaction mechanism, catalyst design, mass and heat transfer, reactor modelling and design. Understanding of the interplay of these elements is crucial for successful development new environmental cleanup processes as well as new environmentally friendly and economic catalytic processes.

INNOVATIVE RTD ASPECT:

Catalysis is one of the technological pillars of modern chemical industry. Catalysis also holds the key to the solution of many environmental problems. The innovative aspect in the field is to devise new methods that can accelerate the development of new catalysts and processes beyond the intuitive trial-and-error approach. The aim of the project is to develop new tools allowing for the rational design of catalysts and catalytic processes for environmental protection.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Cooperation on:

Catalytic Reaction Engineering on Laboratory and Pilot-plant level

Catalyst design and characterization, (Texture, Structure, Morphology, Surface properties, Activity/Selectivity testing)

Catalysis for green chemistry, heterogeneous catalysts for biodiesel production

The objective co-operation project is to define the most important goals of common interest, detect needs for further development, exchange of knowledge, training of young scientists, and identify topics of research projects where cooperative work will be most productive.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Human Nutrition & Metabolism Research and Training Center Graz

Address	Schubertstrasse 1 8010 Graz	Austria
Phone / Fax	T:++43-316-380-5490 / F:++43-316-380-9857	
www	http://hnmrc.uni-graz.at	
Organisation Type	University	

Contact Person

Name	Prof. Brigitte Winklhofer-Roob
Position	Head HNMRC Graz
Email	brigitte.winklhoferroob@uni-graz.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Medical research (incl. diseases)
Nutrition Science and Food technology

Short description of organisation

RESEARCH ACTIVITIES: Human Nutrition and Clinical Nutrition

INTERNATIONAL EXPERTISE IN RTD:

A: Human Intervention studies (stable isotope kinetic studies, dietary intervention studies, short-term/long-term supplementation studies)

B: Analytical portfolio: (1) Antioxidants in plasma, lipoproteins and cells: vitamins A, E, C, carotenoids, glutathione, glutathione peroxidase, (2) fatty acids in plasma, lipoproteins and cells, (3) biomarkers of oxidative, nitrative and glycoxidative stress in plasma, urine and body fluids: malondialdehyde, 8-hydroxynonenal, 5-nitro-gamma-tocopherol, 3-nitro-tyrosine, nuclear-factor kappaB, pentosidine, ex vivo LDL resistance to oxidation.

C: Life-long learning: Erasmus intensive programme COSPI (Combating obesity: strategies for prevention and intervention); DIETS (Dietitians Improving Education and Training Standards across Europe); masters degree programme in human nutrition and clinical nutrition.

Coord. Offer Novel Strategies for Prevention and Intervention of Obesity

DESCRIPTION OF EXPERTISE OFFERED:

Experience in the coordination, design and conduct of human intervention studies, in the fields of nutrition and metabolism in the areas of paediatrics and healthy aging.

INNOVATIVE RTD ASPECT:

To develop novel approaches to combat the obesity epidemics.

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Experts in public health, human nutrition and food technology in the partner country.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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University Graz - Dep. Geography and Regional Sciences

Address	Heinrichstrasse 36 A-8010 Graz	Austria
Phone / Fax	T:+43 316 380 5139 / F:+43 316 380 9886	
www	uni-graz/geowww	
Organisation Type	University	

Contact Person

Name **Univ.Prof.Dr. Harald Eicher**
Position sc. & edu.staff
Email harald.eicher@uni-graz.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES: ecologically compatible transportation research, TEN-evaluation

INTERNATIONAL EXPERTISE IN RTD:

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Third Austrian-Croatian Science Days

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Graz, Austria



Austrian Inst. for the Dev. of Env. Assessment (ANIDEA)

Address	Elisabethstr. 3/3 8010 Graz	Austria
Phone / Fax	T:+43/(0)316/318198 / F:	
www	anidea.at	
Organisation Type	R&D Institute	

Contact Person

Name	Dr. Ralf Aschemann
Position	Director
Email	office@anidea.at
Languages	German English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Short description of organisation

RESEARCH ACTIVITIES: Environmental assessment (EIA, SEA etc.), environment and transport, Local Agenda 21

INTERNATIONAL EXPERTISE IN RTD: In particular regarding strategic environmental assessment (e.g. EU CARDS project with Croatia)

Partner.Request **Not finalised, yet**

DESCRIPTION OF EXPERTISE OFFERED:

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

Third Austrian-Croatian Science Days

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Graz, Austria



Österreichische Akademie der Wissenschaften, Balkankommission

Address	Schmiedlstr. 6 A-8046 Graz-Messendorf	Austria
Phone / Fax	T:0650/621 32 50 / F:	
www		
Organisation Type	University	

Contact Person

Name	Dr. Latica Maric
Position	Wissenschaftliche Mitarbeiterin (ÖAW)
Email	laticamaric@hotmail.com
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation EU RP7 Cooperation Project	Others

Short description of organisation

RESEARCH ACTIVITIES:
Slavic Languages

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Medical Faculty University of Rijeka

Address	Brace Branchetta 20 51000 Rijeka	Croatia
Phone / Fax	T:+385 51 325 826 / F:+385 51 325 810	
www	medri.hr	
Organisation Type	University	

Contact Person

Name	Prof, PhD Blazenka Grahovac
Position	Professor
Email	blazenka.grahovac@medri.hr
Languages	Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	

Areas of activity

Diagnostics and Medical technology
Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES:

- HCV quasispecies analysis in patients undergoing antiviral therapy
- Prevalence, typing and status of integration of Human papillomavirus in intraepithelial cervical lesion and cervical carcinoma

INTERNATIONAL EXPERTISE IN RTD:

- Evaluation of Tissue Microarray methods in immunohistology and FISH analysis
- Application of Laser Microdissection in molecular pathology

Partner.Offer **Human papillomavirus in cervical neoplasia: Are mRNA methods superior to DNA methods ?**

DESCRIPTION OF EXPERTISE OFFERED: Testing for HPV oncogenic activity, rather than for the presence of HPV-DNA, may be a more relevant clinical indicator of the development of cervical cancer. The detection of HPV E6/E7 mRNA indicates HPV oncogenic activity and may be used as a clinically predictive marker to identify women at risk of developing high-grade cervical dysplastic lesions and cervical carcinoma. The mRNA test might be more appropriate for risk-evaluation.

INNOVATIVE RTD ASPECT:

- To compare detection of HPV DNA and that of HPV mRNA in cervical neoplasia.
- To evaluate the significance of both tests in predicting the risk of developing cervical intraepithelial neoplasia (CIN) and invasive cervical cancer.

DESCRIPTION OF REQUESTED PARTNER PROFILE: This is a project proposal WTZ Austria-Croatia for 2008-2009 in collaboration with Prof. dr. Harald H.Kessler, Labor fuer Molekulare Erregerdiagnostik am Institut fuer Hygiene der Medizinische Universitat Graz

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OTHER SPECIFIC RTD ASPECTS NEEDED: Possible clinical implementation of proposed research and development of i.v.d. clinical tests with pharmaceutical companies.

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Faculty of Food Technology and Biotechnology

Address	Pierottijeva 6 100000 Zagreb	Croatia
Phone / Fax	T:++385 1 4605000 / F:	
www		
Organisation Type	University	

Contact Person

Name **Sven Karlovic**
Position Scientific assistant
Email skarlovi@pbf.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Zagreb -university School of medicine;Andrija Stampar School of Public Health

Address	Rockefellerova 4 10000 Zagreb	Croatia
Phone / Fax	T:+385 1 4590 173 / F:+385 1 4684 451	
www	www.snz.hr	
Organisation Type	University	

Contact Person

Name **MD Rajna Golubic**
Position PhD student
Email rajna.golubic@snz.hr
Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation	Offered
EU RP7 Cooperation Project	Offered

Areas of activity

Health care

Short description of organisation

RESEARCH ACTIVITIES: work related stress, work ability of health care workers

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer **Healthy workplace and working environment**

DESCRIPTION OF EXPERTISE OFFERED: Occupational and environmental medicine

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE: Human Resources Management
Methods, Instruments and Programs for Human Sustainability Management,
Occupational Medicine, Occupational Psychology

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Graz, Austria



Das Kinderwunsch Institut

Address	Am Sendergrund 11 8143 Dobl	Austria
Phone / Fax	T:++43/3136/55111 / F:++43/3136/55111-15	
www	kinderwunsch-institut.at	
Organisation Type	Company	

Contact Person

Name	Mag. Thomas Semlitsch
Position	Embryologist, Biochemist
Email	office@kinderwunsch-institut.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Requested
EU RP7 Cooperation Project	Requested

Areas of activity

Cell- and Molecular biology
Health care
Medical research (incl. diseases)
Others

Short description of organisation

RESEARCH ACTIVITIES:

Invitro fertilization
gynecology
health care

INTERNATIONAL EXPERTISE IN RTD:

Partner.Request **New techniques and therapies in Assited reproductive medizine**

DESCRIPTION OF EXPERTISE OFFERED:

- all techniques in reproductive medicine (IVF, ICSI, IUI,...)
- hormonal screening
- Polarbody biopsy
- PolarAide/Spindle view microscope techniques
- kryopresevation

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

research projects and/or clinical studies on all topics of assisted reproductive medicine

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Faculty of Electrical Engineering and Computing in Zagreb

Address	Unska 3 10000 Zagreb	Croatia
Phone / Fax	T:+385 091 518 33 97 / F:	
www		
Organisation Type	University	

Contact Person

Name **Ivica Martinjak**
Position PhD student
Email ivica.martinjak@zg.htnet.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Inst. f. Chemie, KF-Universität Graz

Address	Heinrichstr. 28 8010 Graz	Austria
Phone / Fax	T:+43-316-3805423 / F:+43-316-3809850	
www		
Organisation Type	University	

Contact Person

Name	Dr. Walter Keller
Position	a.o. Prof
Email	walter.keller@uni-graz.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biochemistry and Biophysics
Immunology
Medical research (incl. diseases)
Others

Short description of organisation

RESEARCH ACTIVITIES:

Structural biology of allergens, S-layer proteins and proteins involved in bacterial conjugation and plasmid stabilization

INTERNATIONAL EXPERTISE IN RTD:

Participation in EU-project (FP5)
Application for RTD and ITN (FP7)

Partner.Offer **Structural and biophysical investigations of medically important proteins**

DESCRIPTION OF EXPERTISE OFFERED:

Protein crystal structure analysis, CD-Spectroscopy, Microcalorimetry

INNOVATIVE RTD ASPECT:

protein-ligand interactions, structure based ligand design, structure based epitope mapping (allergy research)

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Allergy research: Immunologists and Biochemists working on major cross-reactive allergens; we are interested in structural characterisation of novel allergens as well as allergen-Fab complexes

S-Layer research: Molecular Biologists, Biochemists and Biotechnologists ; we are interested in extending our ongoing research (S-layers from G+ bacteria) to other S-layer proteins.

Enzymology: Molecular Biologists and Biochemists working on medically important proteins (e.g. SAHH)

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Faculty of Pharmacy and Biochemistry

Address	A. Kovacica 1 10000 Zagreb	Croatia
Phone / Fax	T:+385-1-4812128 / F:+385-1-4856201	
www	www.pharma.hr	
Organisation Type	University	

Contact Person

Name	Professor Kresimir Sankovic
Position	Head of Department
Email	sankovic@pharma.hr
Languages	Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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JKU-Linz

Address	Altenbergerstr. 69 4040 Linz	Austria
Phone / Fax	T:+4373224688719 / F:+4373224688747	
www		
Organisation Type	University	

Contact Person

Name	DI. Dr. Wolfgang Schoefberger
Position	Researcher
Email	wolfgang.schoefberger@jku.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Offered
EU RP7 Cooperation Project	

Areas of activity

Biochemistry and Biophysics
Cell- and Molecular biology
Genetics and Proteomics

Short description of organisation

RESEARCH ACTIVITIES: Structural studies on DNA and proteins using NMR spectroscopy. Organic synthesis of DNA intercalating molecules (Telomerase Inhibitors)

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer [Telomerase inhibition using modified porphyrins -structural studies on proteins](#)

DESCRIPTION OF EXPERTISE OFFERED: Protein expression purification, NMR, DNA -small molecule intercalation, structural studies.

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE: synthesis of target molecules for DNA intercalation, testing of DNA- Telomerase Inhibition, testing on cancer cell lines.

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Centre for Social Innovation Vienna - Austrian Science and Research office Ljubl

Address	Dunajska 104 1000 Ljubljana	Austria
Phone / Fax	T:00436644203648 / F:0038615684169	
www	aso.zsi.at	
Organisation Type	Other	

Contact Person

Name **Miroslav Polzer**
Position head of ASO Ljubljana
Email polzer@zsi.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Both Others
EU RP7 Cooperation Project	Both

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

The Austrian Science and Research Liaison Office Ljubljana has been established in October 1990 as branch office of the Vienna based Austrian Institute for East and Southeast European Studies to foster scientific co-operation between Austria and Slovenia.

ASO Ljubljana has been reorganised in March 2004 and is since that time part of the Centre for Social Innovation (ZSI) in Vienna. ASO Ljubljana receives its funding mainly from Austrian Federal Ministry of Science and Research (bm:wf) and partially also from Ministry of Higher Education, Science and Technology of Republic of Slovenia.

ZSI is in charge of coordination of activities of ASO Ljubljana and ASO Sofia with bm:wf as well as of coordination with regard to national, bilateral and international initiatives and programmes. The Austrian Science and Research Liaison Offices in Ljubljana and Sofia support the science policy of Austria in South Eastern Europe which is co-ordinated on European level with projects and initiatives like SEE-ERA.net www.see-era.net, Information Office of the Steering Platform on research for the Western Balkans (www.see-science.eu), etc.

Some highlights of ASO Ljubljana work:

ASO Ljubljana has initiated and co-organised together with Ministry of Higher Education, Science and Technology of Republic of Slovenia, Austrian Federal Ministry of Education, Science and Culture, Hellenic Ministry of Development in February 2005 in European Parliament the international conference "Participation of Western Balkan Countries in EU RTD Framework Programmes" www.aso.zsi.at/de/slo/veranstaltung/190.html

In November 2005 ASO Ljubljana and UNESCO Office in Venice organized in cooperation with European Association of Research Managers and Administrators EARMA a Training Seminar on International Project Management for Research Managers from South-east European countries in Ljubljana, from 9 to 11 November, 2005. 21 participants were chosen from 260 applications from both governmental agencies and academia and came from all of the Balkan countries as well as Bulgaria, Romania and Turkey and the host country Slovenia.

In November 2002 ASO Ljubljana organised a Round table on "Challenges for RTD co-operation with non-candidate countries in South-eastern Europe" at the official FP6 Launching conference in Brussels

In September 2006 ASO Ljubljana organised together with UNESCO Office in Venice and Slovenian Ministry of Higher Education, Science and Technology the International conference and Ministerial Roundtable "Why invest in science in SEE countries?" <http://investsciencesee.info/>

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Graz, Austria



Karl Franzens University Graz, Institute of Chemistry

Address	Heinrichstrasse 28 8010 Graz	Austria
Phone / Fax	T:+43 316 380 5414 / F:+43 316 380 9850	
www		
Organisation Type	University	

Contact Person

Name	Dr. Tea Pavkov
Position	Post-Doc researcher
Email	tea.pavkov@uni-graz.at
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biochemistry and Biophysics
Bioinformatics
Immunology
Medical research (incl. diseases)
Nano-biotechnology

Short description of organisation

RESEARCH ACTIVITIES:
Structural biology and biophysical characterisation of proteins

INTERNATIONAL EXPERTISE IN RTD:
Application for RTD and ITN (FP7)

Partner.Offer **Structural and biophysical characterisation of medically important proteins**

DESCRIPTION OF EXPERTISE OFFERED:

Protein crystallography, 3D-structure analysis and modeling, biophysical methods (CD-spectroscopy, SAXS, ITC, DSC, DLS..)

INNOVATIVE RTD ASPECT:

defining the function of the protein of interest, characterisation of protein-protein and protein-ligand interactions, structure-based ligand design, mutagenesis studies

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Molecular Biologists and Biochemists working with poorly characterised proteins (concerning e.g. stability, behaviour, structure, function)

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Graz, Austria



Joanneum Research, Inst. of Non-Invasive Diagnosis

Address	Franz-Pichler-Str. 30 8160 Weiz	Austria
Phone / Fax	T:+43 316 876 2908 / F:+43 316 876 2904	
www	www.joanneum.at/ind	
Organisation Type	R&D Institute	

Contact Person

Name	DI Matthias Frühwirth
Position	Scientist
Email	matthias.fruehwirth@joanneum.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Diagnostics and Medical technology
Health care
Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES:

The Institute of Non-Invasive Diagnosis is actively involved in research of biological rhythms, mainly of the autonomous nervous system. Latest results verify that disruptions to the biological rhythm are linked to a definite increase in the risk of illness from cancer and incidence of heart attacks. Intelligent methods of diagnosis are being developed at the Institute, methods involving no stress for the patient. They enable early recognition of first symptoms of illness, as well as testing of health promoting interventions on (still) healthy people. These methods are based on measuring the body's rhythms, which reflect the organism's state of health. Services range from clinical trials, field studies, occupational health, or testing the human compatibility of materials to the development of measuring devices.

INTERNATIONAL EXPERTISE IN RTD:

EU-RP5 Supporting Independently Living Citizens

Partner.Offer **Noninvasive patient and health monitoring systems**

DESCRIPTION OF EXPERTISE OFFERED:

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

- partners providing metabolic measurements, e.g. oxidative stress
- institutions/hospitals involved in cancer aftercare

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Graz, Austria



Office of International Relations

Address	Universitaetsplatz 3 A-8010 Graz	Austria
Phone / Fax	T:+43-316-380-2211 / F:+43-316-380-9156	
www		
Organisation Type	University	

Contact Person

Name **Mag. Sabine Pendl**
Position Director
Email sabine.pendl@uni-graz.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Others

Short description of organisation

RESEARCH ACTIVITIES:

intl cooperation

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



University of Graz

Address	Universitätsplatz 3 8010 Graz	Austria
Phone / Fax	T:+43/316/380-1248 / F:+43/316/380-9155	
www	http://www.uni-graz.at/bib/	
Organisation Type	University	

Contact Person

Name	Mag., M.A. Dietlinde Kastelliz
Position	IRO officer
Email	dietlinde.kastelliz@uni-graz.at
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation EU RP7 Cooperation Project	

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Ruder Boškovic Institute

Address	Bijenicka 54 HR-100 Zagreb	Croatia
Phone / Fax	T:+385 98 981 74 62 / F:	
www		
Organisation Type	R&D Institute	

Contact Person

Name	MSc Duje Bonacci
Position	PR officer
Email	dbonacci@irb.hr
Languages	Croatian
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation		Others
EU RP7 Cooperation Project	Both	

Short description of organisation

RESEARCH ACTIVITIES: Broad range of research activities in physics, chemistry, biology, biomedicine, electronics and computing

INTERNATIONAL EXPERTISE IN RTD:

Partner.Request [European academic news network](#)

DESCRIPTION OF EXPERTISE OFFERED: Under EU Tempus programme funding, we are developing a central national news agency in Croatia (titled MISiJA), specialized for gathering and dissemination of news and expert opinions in science, technology and higher education. We are also developing a training and support programme for staff at academic institutions interested in using the news agencies services for broad public promotion of their institutions.

Within the FP7 framework, we would like to extend our news agency and training services reach outside Croatia, and are looking for interested partners.

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE: All types of academic institutions - research institute, universities or individual faculties.

OTHER SPECIFIC RTD ASPECTS NEEDED: The existence of PR or similar office at partner institutions would be convenient, but not necessary.

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Graz, Austria



JOANNEUM RESEARCH GmbH, Medical Technologies (MSG)

Address	Steyrergasse 17 8010 Graz	Austria
Phone / Fax	T:0316/876-2140 / F:0316/876-2130	
www	www.joanneum.at/msg	
Organisation Type	R&D Institute	

Contact Person

Name	DI Manfred Bodenlenz
Position	Head of Focus Medical Technologies
Email	manfred.bodenlenz@joanneum.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Diagnostics and Medical technology
Medical research (incl. diseases)
Pharmacology

Short description of organisation

RESEARCH ACTIVITIES & INTERNATIONAL EXPERTISE IN RTD

The Research Focus Medical Technologies at the Institute has expertise in developing and providing specific sampling and sensing technologies, cutting-edge bioanalytics and the performance of in/ex vivo studies for drug PK-PD trials, medical device development and basic physiology research. MSG is used to actively contribute to international collaborative projects (ADICOL, CLINICIP, CARE-MAN, NANOBIOPHARMACEUTICALS). Our specific fields of expertise are

- § Body Interfaces & Sampling technology
- § Biosensors
- § Drug delivery
- § Clinical research

Body Interfaces & Sampling technology for PK-PD and continuous monitoring

Minimal invasive sampling techniques (Open-Flow Microperfusion, Microdialysis) are developed or custom-tailored enabling the investigation of substances (large, bound and lipophilic drugs, cytokines, peptides & proteins, metabolites, tracers, gas, ..) directly at the site of action (adipose tissue, muscle, dermis, brain, blood).

In combination with cutting-edge high sensitive laboratory bioanalytics (e.g. nanoHPLC-MS2 or FT-MS, in-house monolithic separation technologies, enhanced ELISAs, Luminex etc.) for low volume/concentration specimen or sensors for online measurements unique investigations are feasible.

Biosensors for continuous metabolite monitoring

Biosensor technology is developed, evaluated and integrated in monitoring and closed-loop systems to control metabolism in diabetes and intensive-care. Our novel optical O₂/Glucose-Fibre-Sensor (clinically tested, free of drift and interference) reached the stage for integration into monitoring systems.

Drug delivery for long term administration in chronic disorders

Based on the experience with sampling interfaces, MSG expand work to infusion technology for improved drug

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absorption kinetics to facilitate closed-loop approaches (eg. in glucose management).

Clinical Research in the fields of diabetes & metabolism, intensive care, closed-loop control, dermatology-cosmetics, pharmacology, oncology

Technologies are clinically evaluated and utilized for specific research services to the pharmaceutical industry and medical device producers in close cooperation with the Medical University Graz.

Partner.Request **PROBES & SYSTEM FOR IN VIVO DRUG TESTING: Novel approach for drug PK-PD studies in skin**

DESCRIPTION OF EXPERTISE OFFERED:

Profiling of intradermal pharmacokinetic and – dynamic parameters following topical administration of lipophilic drugs requires a novel sampling approach. We have developed minimally-invasive, membrane-free dermal sampling probes as well as wearable pump/collection devices in order to enable prolonged investigations based on continuous sampling of drugs and locally released cytokines. We present the methodology as well as results of clinical trials investigating the feasibility of lipophilic drug sampling.

We offer

- 1) SCIENTIFIC COLLABORATION regarding PK/PD testing of drugs or method development, especially in cases where state-of-the-art methods do not apply.
- 2) DRUG TESTING in vitro/in vivo by applying unique Joanneum Research in vivo methodology and unique customized High-sensitive bioanalytical methods; in vivo usually in cooperation with the Medical University
- 3) MEDICAL DEVICE TESTING, in vitro/in vivo
- 4) IDEAS, EXPERIENCE with regard to in vivo metabolic monitoring & control in patients

INNOVATIVE RTD ASPECT:

see above!

DESCRIPTION OF REQUESTED PARTNER PROFILE:

- 1) Dermatological applications of our methodology & related projects
- 2) DRILLING/PUNCHING/LASERING services for the perforation of small-diameter, biocompatible catheters or tubings (typical material PTFE OD 0.4-1.2mm, typical perforation/slit width 0.1-0.5mm)
- 3) RAPID-PROTOTYPING services to get mechanically stable housings/components, eg. for miniaturized portable pumps
- 4) PUMP & MICROFLUIDICS services/know-how

OTHER SPECIFIC RTD ASPECTS NEEDED:

see above!

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JOANNEUM RESEARCH Forschungsgesellschaft mbH

Address	Elisabethstrasse 5/I 8010 Graz	Austria
Phone / Fax	T:0043-316-876-1432 / F:	
www		
Organisation Type	R&D Institute	

Contact Person

Name **Mag. Daniel Steiner**
Position Research Fellow
Email daniel.steiner@joanneum.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:
Climate policies

INTERNATIONAL EXPERTISE IN RTD:

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Austrian Research Promotion Agency (FFG)

Address	Sensengasse 1 1090 Vienna	Austria
Phone / Fax	T:+43 (0)57755 4601 / F:	
www	http://rp7.ffg.at/inco	
Organisation Type	Other	

Contact Person

Name **Ralf König**
Position Head of Unit
Email ralf.koenig@ffg.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Austrian Research Promotion Agency (FFG)

Address	Sensengasse 1 1090 Vienna	Austria
Phone / Fax	T:+43 (0)57755 4611 / F:	
www	http://rp7.ffg.at/inco	
Organisation Type	Other	

Contact Person

Name **Robert Worel**
Position Assistant for FP7 INCO
Email robert.worel@ffg.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Third Austrian-Croatian Science Days

18 October 2007 INFORMATION DAY

19 October 2007 LIFE SCIENCES PARTNERING DAY

Graz, Austria



Austrian Research Promotion Agency (FFG), Austrian EUREKA Office

Address	Sensengasse 1 1090 Vienna	Austria
Phone / Fax	T:+43 (0)57755 4902 / F:	
www	www.ffg.at/eureka	
Organisation Type	Other	

Contact Person

Name **Dr. Petra Zwirn**
Position EUREKA Project Officer
Email petra.zwirn@ffg.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Third Austrian-Croatian Science Days

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Graz, Austria



Rudjer Boskovic Institute

Address	Bijenicka 54 10000 Zagreb	Croatia
Phone / Fax	T:00385 1 457 1234 / F:00385 1 456 1010	
www	www.irb.hr/en/str/zmm/LABS/LabOS	
Organisation Type	R&D Institute	

Contact Person

Name	Dr. Neven Zarkovic
Position	Senior Scientist, Head of Laboratory
Email	zarkovic@irb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biochemistry and Biophysics
Cell- and Molecular biology
Diagnostics and Medical technology
Medical research (incl. diseases)
Nano-biotechnology
Nutrition Science and Food technology
Pharmacology
Others

Short description of organisation

RESEARCH ACTIVITIES: fundamental and clinical research

INTERNATIONAL EXPERTISE IN RTD: bilateral projects, COST

Partner.Request **Experimental cancer therapies, biomedicine and biotechnology of oxidative stress**

DESCRIPTION OF EXPERTISE OFFERED:
setup of the Centre for Oxidative Stress

INNOVATIVE RTD ASPECT:
new methods

DESCRIPTION OF REQUESTED PARTNER PROFILE:
R&D experience, granting possibilities

OTHER SPECIFIC RTD ASPECTS NEEDED:

Third Austrian-Croatian Science Days

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Graz, Austria



Austrian Federal Ministry of Science and Research

Address	Rosengasse 2 - 6 1014 Vienna	Austria
Phone / Fax	T:+43 1 53120 7138 / F:+43 1 53120 6205	
www		
Organisation Type	Other	

Contact Person

Name **Mag. Gisela Zieger**
Position Head of Unit
Email gisela.zieger@bmf.gv.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Third Austrian-Croatian Science Days

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Graz, Austria



JOANNEUM RESEARCH Forschungsgesellschaft mbH

Address	Steyrergasse 17 8010 Graz	Austria
Phone / Fax	T:+43 699 1876 1221 / F:	
www	www.joanneum.at	
Organisation Type	R&D Institute	

Contact Person

Name	dipl.soc.del. Andrejka Kodele
Position	Cooperation with South-Eastern Europe
Email	andrejka.kodele@joanneum.at
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

Our 14 research units make JOANNEUM RESEARCH one of the largest non-university research institutions in Austria. Our role as an innovative partner for business and administration is reflected in our wide range of services: apart from applied research and development for small and medium-sized enterprises we offer custom-designed technical business consulting and vast expertise in interdisciplinary management of complex research contracts at a national and international level.

INTERNATIONAL EXPERTISE IN RTD:

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Third Austrian-Croatian Science Days

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Graz, Austria



JOANNEUM RESEARCH Forschungsgesellschaft mbH

Address	Steyrergasse 17 8010 Graz	Austria
Phone / Fax	T:0043 316 876 1190 / F:0043 316 876 1130	
www	joanneum.at	
Organisation Type	R&D Institute	

Contact Person

Name **Hon.-Prof. Dr. Bernhard Pelzl**
Position Geschäftsführer
Email bernhard.pelzl@joanneum.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Austrian Federal Ministry of Science and Research, Department f. Intern. Coop.

Address	Rosengasse 2-4 1014 Vienna	Austria
Phone / Fax	T:+43(01)53120-7136 / F:+43(01)53120-81-7136	
www	bmf.gv.at	
Organisation Type	Other	

Contact Person

Name **Mag. Buzeczki Christine**
Position Deputy Director
Email christine.buzeczki@bmf.gv.at
Languages English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Croatian Austrian Society Zagreb, Rudjer Boskovic Institute

Address	Bijenicka 54 10000 Zagreb	Croatia
Phone / Fax	T:00385 1 4561 1111 / F:	
www		
Organisation Type	Other	

Contact Person

Name	Professor Greta Pifat Mrzljak
Position	President of Society
Email	pifat@irb.hr
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Ministry of science, education and sport

Address	Trg hrvatskih velikana 6 10000 Zagreb	Croatia
Phone / Fax	T:385 1 4569 000 / F:	
www		
Organisation Type	Other	

Contact Person

Name **Drazen Vikic Topic**
Position state secretary
Email vikic@irb.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Ministry of science, education and sport

Address	Trg hrvatskih velikana 6 1000 Zagreb	Croatia
Phone / Fax	T:385 1 4569 000 / F:	
www		
Organisation Type	Other	

Contact Person

Name **Radovan Fuchs**
Position Deputy minister
Email office@mzos.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Ministry of science, education and sport

Address	Trg hrvatskih velikana 6 10000 Zagreb	Croatia
Phone / Fax	T:385 1 4569 000 / F:	
www		
Organisation Type	Other	

Contact Person

Name **Branka Ravlic**
Position Senior official
Email Branka.Ravlic@mzos.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Third Austrian-Croatian Science Days

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Ministry of science, education and sport

Address	Trg hrvatskih velikana 6 10000 Zagreb	Croatia
Phone / Fax	T:385 1 4569 000 / F:	
www		
Organisation Type	Other	

Contact Person

Name **Gordana Prutki Pecnik**
Position Senior official
Email gpecnik@mzos.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Institut Rudjer Boskovic

Address	Bjenicka 54 10000 Zagreb	Croatia
Phone / Fax	T:385 1 468 0217 / F:	
www		
Organisation Type	R&D Institute	

Contact Person

Name **Mladen Zinic**
Position director
Email zinic@irb.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Croatian Institute of technology

Address	Planinska 1 10000 Zagreb	Croatia
Phone / Fax	T:0038515494 721 / F:	
www		
Organisation Type	R&D Institute	

Contact Person

Name **Pero Munivrana**
Position director
Email pero.munivrana@hitech.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Faculty of Veterinary Medicine University of Zagreb

Address	Heinzelova 55 10000 Zagreb	Croatia
Phone / Fax	T:00385 1 2390 183 / F:00385 1 2390 184	
www	www.vef.hr	
Organisation Type	University	

Contact Person

Name	PhD Terezija Silvija Marenjak
Position	Research Fellow and Teaching Assistant
Email	marenjak@vef.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Health care
Medical research (incl. diseases)
Nutrition Science and Food technology

Short description of organisation

RESEARCH ACTIVITIES: veterinary medicine, pathophysiology, animal nutrition, food technology, public health

INTERNATIONAL EXPERTISE IN RTD:

Partner.Offer **Quality improvement of animal-derived products**

DESCRIPTION OF EXPERTISE OFFERED:

- set up the nutritional trial in livestock
- metabolic profile test for animal health control
- lipid extraction
- identification of fatty acid profile in animal derived products (GC)
- analyses of antioxidative status in animals (blood and tissue analyses)

INNOVATIVE RTD ASPECT:

- modification and improvement of fatty acid profile of food derived from livestock
- identification, application and usage of natural resources for oxidative stability of animal feedstuff and animal derived products
- identification of bioactive components and their effect on animal and human health
- contribution to sustainable animal production

DESCRIPTION OF REQUESTED PARTNER PROFILE:

- area of activity - molecular biology and chemical engineering, analytics
- development of antioxidants from plant origin, plant extracts- quality, oxidation, stability

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Graz, Austria



Austrian Federal Ministry of Economics and Labour

Address	Stubenring 1 A-1010 Wien	Austria
Phone / Fax	T:+43 1 71100 5803 / F:	
www	bmwa.gv.at	
Organisation Type	Other	

Contact Person

Name **Georg Panholzer**
Position Unit for Intl. Technology and Innovation
Email georg.panholzer@bmwa.gv.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Institute Ruder Boskovic

Address	Bijenicka 10000 Zagreb	Croatia
Phone / Fax	T:385-1 4680194 / F:385-1 4680245	
www		
Organisation Type	R&D Institute	

Contact Person

Name	dr Boris Rakvin
Position	senior scientist
Email	rakvin@irb.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation	Biochemistry and Biophysics
EU RP7 Cooperation Project	Requested

Short description of organisation

RESEARCH ACTIVITIES:

Research of the paramagnetic centers (radicals) and their applications as paramagnetic probes in the study of the structure and molecular dynamics of the systems exhibiting different levels of complexity and showing different macroscopic properties. New insights about the stability and relaxation properties of paramagnetic centers.

INTERNATIONAL EXPERTISE IN RTD:

Detection and assignment paramagnetic species with advance EPR/ESR spectroscopy

Partner.Request **Detection and assignment paramagnetic species with advance EPR/ESR spectroscopy**

DESCRIPTION OF EXPERTISE OFFERED:

On the application of advanced ESR methods in the study of broad range of molecular systems.

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

Third Austrian-Croatian Science Days

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Graz, Austria



BioNanoNet Forschungsgesellschaft mbH

Address	Elisabethstraße 9-11 8010 Graz	Austria
Phone / Fax	T:+43-316-876-2111 / F:+43-316-876-2104	
www	bionanonet.at	
Organisation Type	Company	

Contact Person

Name	Dr. Frank Sinner
Position	Director
Email	office@bionanonet.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation	Both Biochemistry and Biophysics
EU RP7 Cooperation Project	Both Biotechnology Cell- and Molecular biology Diagnostics and Medical technology Genetics and Proteomics Medical research (incl. diseases) Nano-biotechnology Nutrition Science and Food technology Pharmacology

Short description of organisation

BioNanoNet GmbH is a networking company, bringing together numerous experts in the field of drug development. BioNanoNet comprises leading companies, university and non-university research institutions.

BioNanoNet acts as a "one stop shop" for the pharmaceutical industry aimed at establishing efficient and targeted contacts between potential clients and consortium members. By bundling expertises from leading scientists and private companies, BioNanoNet acts as a competent source for mission oriented research covering one or several aspects of the value added process of drug development. The philosophy of BioNanoNet is to facilitate transdisciplinary research by providing custom-made interdisciplinary teams to fulfil client's needs.

Partner.Request Development and coordination of (applied) research projects

NANO-HEALTH

Nano-structured Materials for Drug Targeting, Release and Imaging

The joint research project Nano-Health, which consists up to now of thirteen single projects, aims to develop a platform of new multifunctional nanoparticles. These multifunctional nanoparticles will be employed for:

- * the non-invasive targeted delivery of active substances for the treatment of chronic diseases by different application routes, e.g. nasal, oral and pulmonary.
- * nanodiagnostics as contrast media in clinical imaging via magnetic resonance imaging (MRI), via fluorescence and via nuclear imaging by PET/SPECT.
- * nanodiagnostics for clinical applications for the early detection of atherosclerotic vascular lesions and to trace stem cells in cancer treatment
- * toxicological studies of nanostructured materials

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Graz, Austria



Faculty of veterinary medicine

Address	Heinzelova 55 10 000 Zagreb	Croatia
Phone / Fax	T:+38512390323 / F:+38512441390	
www	vef.hr	
Organisation Type	University	

Contact Person

Name	PhD, DVM Nikica Prvanovic
Position	senior assistant
Email	nikica@vef.hr
Languages	German Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

RTD-cooperation	Both
EU RP7 Cooperation Project	Both

Areas of activity

Biotechnology
Medical research (incl. diseases)

Short description of organisation

RESEARCH ACTIVITIES:
veterinary medicine

INTERNATIONAL EXPERTISE IN RTD:

veterinary medicine

Coord.Request **management of reproduction in authentic croatian horse breeds**

DESCRIPTION OF EXPERTISE OFFERED:

management of reproduction in authentic croatian horse breeds (monitoring of cyclicity, assisted reproduction, control of sexually transmitted diseases)

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

reproduction in horsers, veterinary medicine

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Graz, Austria



JOANNEUM RESEARCH

Address	Steyrergasse 17 8010 Graz	Austria
Phone / Fax	T:+43 316 876 1185 / F:+43 316 876 1191	
www		
Organisation Type	Company	

Contact Person

Name **Silvia Russegger**
Position Software Engineer, R&D
Email silvia.russegger@joanneum.at
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Faculty of Phylosophy

Address	Ivana Lucica 12 10000 Zagreb	Croatia
Phone / Fax	T:385 1 4637 566 / F:	
www		
Organisation Type	University	

Contact Person

Name	Sanja Fulgosi
Position	assistant
Email	sfulgosi@ffzg.hr
Languages	Croatian English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation EU RP7 Cooperation Project	Requested Others

Short description of organisation

RESEARCH ACTIVITIES:
formal linguistics

INTERNATIONAL EXPERTISE IN RTD:
computational linguistics

Partner.Request formal linguistics

DESCRIPTION OF EXPERTISE OFFERED:
Formal linguistics

INNOVATIVE RTD ASPECT:

Computational linguistics

DESCRIPTION OF REQUESTED PARTNER PROFILE:

Linguistics

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Joanneum Research

Address	Steyrergasse 17 8010 Graz	Austria
Phone / Fax	T:+43 316 876 1333 / F:+43 316 876 9 1333	
www	joanneumat	
Organisation Type	R&D Institute	

Contact Person

Name	Dr. Reinhard Padinger
Position	project manager
Email	reinhard.padinger@joanneum.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation	Both	Environmental technology
EU RP7 Cooperation Project	Both	

Short description of organisation

RESEARCH ACTIVITIES:

Institute of Energy Research

renewables, biomass combustion, biogas technology, biofuels, H2, Small Scale CHP, Life Cycle Analysis, Emission Trading

INTERNATIONAL EXPERTISE IN RTD:

VBPC-RES, Bioenergy-NoE, many RTD-projects in FP3 - FP7

Coord. Offer any activity in Renewables RTD

DESCRIPTION OF EXPERTISE OFFERED:

renewable energy sources, biomass combustion, small scale CHP, LCA, emission trading, efficiency of energy use in the private sector and in industries

INNOVATIVE RTD ASPECT:

to be discussed / specified in the meeting

DESCRIPTION OF REQUESTED PARTNER PROFILE:

University, private RTD-organization, industrial partners dealing with renewable energies, companies needing support in optimization of their energy efficiency

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Kropatisch-Oestereichische Handelskammer, c/o Raiffeisen- Landesbank Steiermark

Address	Reiffeisen PLATZ 1 8074 Graz Raba	Austria
Phone / Fax	T:0914834501 / F:	
www		
Organisation Type	Company	

Contact Person

Name **Slavko Begic**
Position director
Email slavko.begic@zg.htnet.hr
Languages German
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Karl-Franzens-University Graz, Institute of Chemistry, Analytical Chemistry

Address	Universitaetsplatz 1 8010 Graz	Austria
Phone / Fax	T:+43 316 380 5307 / F:+43 316 380 9845	
www	http://www.uni-graz.at/achwww/	
Organisation Type	University	

Contact Person

Name **Dr Dijana Juresa**
Position post-Doc Researcher
Email dijana.juresa@uni-graz.at
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

Our major research area is the development of methods of trace element analysis and speciation analysis (the determination of chemical species of elements), and the application of these methods to problems in human health, the environment and biology. Trace element analyses are performed with atomic mass spectrometry, and our methods of speciation analysis are based on chromatographic separation of the various elemental species, usually with HPLC, and their detection by atomic and molecular mass spectrometry.

INTERNATIONAL EXPERTISE IN RTD:

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Botschaft der Republik Kroatien

Address	Heuberggasse 10 1170 Wien	Austria
Phone / Fax	T:4859524 / F:4802942	
www		
Organisation Type	Other	

Contact Person

Name **Prof.Dr. Zoran Jasic**
Position Botschafter
Email vlprhbec@reinprecht.at
Languages German
Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Raiffeisen-Landesbank Steiermark AG

Address	Kaiserfeldgasse 5-7 8010 Graz	Austria
Phone / Fax	T:+43 (0)316 4002 7117 / F:	
www		
Organisation Type	Company	

Contact Person

Name	Tamara Tanfara-Rakar
Position	SEE-Desk
Email	tamara.tanfara-rakar@rlb-stmk.raiffeisen.at
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation
EU RP7 Cooperation Project

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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Graz, Austria



Joanneum Research

Address	Elisabethstrasse 5 8010 Graz	Austria
Phone / Fax	T:0316 876 1337 / F:	
www		
Organisation Type	R&D Institute	

Contact Person

Name	Mag. Andreas Tuerk
Position	Scientist
Email	andreas.tuerk@joanneum.at
Languages	German English
B2B Meetings	Yes

Type of co-operation (Offered, Requested)

Areas of activity

RTD-cooperation	Requested	Others
EU RP7 Cooperation Project	Requested	

Short description of organisation

RESEARCH ACTIVITIES:

Climate Policy

INTERNATIONAL EXPERTISE IN RTD:

Partner.Request **Emissions Trading in Croatia**

DESCRIPTION OF EXPERTISE OFFERED:

Climate Policy, Kyoto-Protocoll, Emissions Trading

INNOVATIVE RTD ASPECT:

DESCRIPTION OF REQUESTED PARTNER PROFILE:

OTHER SPECIFIC RTD ASPECTS NEEDED:

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Rudjer Boskovic Institute

Address	Bijenicka 54 10000 Zagreb	Croatia
Phone / Fax	T:+38514561025 / F:	
www		
Organisation Type	R&D Institute	

Contact Person

Name **dr Branimir Bertosa**
Position Assistant
Email branimir.bertosa@irb.hr
Languages Croatian
English

B2B Meetings

Type of co-operation (Offered, Requested)

RTD-cooperation
EU RP7 Cooperation Project

Areas of activity

Biochemistry and Biophysics

Short description of organisation

RESEARCH ACTIVITIES:

Investiation of biologically important molecules/systems by computational methods.

INTERNATIONAL EXPERTISE IN RTD:

Molecular simulations (molecular mechanics, molecular dynamics, Monte Carlo methods, QSAR ...)

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JOANNEUM RESEARCH Forschungsgesellschaft

Address	Steyrergasse 17 8010 Graz	Austria
Phone / Fax	T:0316 876 1190 / F:0316 876 1130	
www		
Organisation Type	R&D Institute	

Contact Person

Name	Milenka Pelzl
Position	.
Email	christine.ettl@joanneum.at
Languages	German Croatian English

B2B Meetings

Type of co-operation (Offered, Requested)	Areas of activity
RTD-cooperation EU RP7 Cooperation Project	

Short description of organisation

RESEARCH ACTIVITIES:

INTERNATIONAL EXPERTISE IN RTD:

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