

SMEs go LifeSciences – Projects under preparation

1. ADVANCED GENOMICS AND ITS APPLICATION FOR HEALTH

a) Fundamental knowledge and basic tools for functional genomics in all organisms : 9 projects

Gene expression and proteomics :

projects # 97, 112

- LSH-2005-1.1.1-1: A systems approach to understanding the regulation of gene transcription - INTEGRATED PROJECT

Structural genomics

projects # 49

- LSH-2005-1.1.2-1: Structural genomics interdisciplinary initiative - INTEGRATED PROJECT

Comparative genomics and population genetic

projects # 49, 97

- LSH-2005-1.1.3-1: Functional genomics in Arabidopsis thaliana - INTEGRATED PROJECT
- LSH-2005-1.1.3-2: High throughput phenotyping tools and approaches for large scale functional genomics studies - INTEGRATED PROJECT
- LSH-2005-1.1.3-3: Population cohorts for molecular epidemiological studies in European and other populations - INTEGRATED PROJECT

Multidisciplinary functional genomics approaches to basic biological processes

projects # 48, 55, 65, 74, 97, 110, 120

- LSH-2005-1.1.5-1: Functional genomics of autosomal aneuploid syndromes - INTEGRATED PROJECT
- LSH-2005-1.1.5-2: The biological role of small regulatory RNAs - INTEGRATED PROJECT
- LSH-2005-1.1.0-3: Proposals concerned with the development of tools and technologies for functional genomics + research focusing on multidisciplinary functional genomics approaches to study basic biological processes. – STREPs dedicated to SMEs

NB : no topic is open in the 4th call on Bioinformatics (former LSH-2005-1.1.4.x)

Project #48

Project #48 - Mustafa Kemal University - Turkey

Date: 2004/10/06	Deadline: 2006/11/16
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Contact

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Website			

Familiar with the European Framework Programme? **YES**

PROJECT

Title: Effects of cyclic nucleotides and phosphodiesterases on inflammation	Acronym:
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Project type	Integrated Project
Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	1. Advanced genomics and its application for health
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Workprogramme Topic (according to each priority workprogramme)	LSH-2004-1.1.0-1 Research areas for the call utilising STREP/CA/SSA LSH-2004-1.1.0-3 Research areas for the call utilising STREP/CA/SSA LSH-2004-1.2.4-2: Chemokines: A new therapeutic approach for chronic inflammation and autoimmune diseases – INTEGRATED PROJECT.
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Project description	cAMP is a second messenger and has inhibitory role on pro-inflammatory cytokines and cellular proliferation. Investigation of cytokines, free radicals and antioxidants, intracellular cAMP levels and phosphodiesterases (PDEs) transcriptions during bacterial infections will be studied.
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Keywords	cAMP, PDE, cytokines, free radicals, inflammation
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Partners already involved			
Project budget (for the running projects)	nc	Budget reserved for SMEs	nc

Research topics

- LSH-2005-1.1.0-3: Proposals concerned with the development of tools and technologies for functional genomics + research focusing on multidisciplinary functional genomics approaches to study basic biological processes. – STREPs dedicated to SMEs

Profile of SME sought

Role	research
Country /region	any
Start of partnership	start-up phase
Expertise required	worked cyclic nucleotide PDEs and their characterisations in T cells

Project #49

Project #49 - University of Oxford - United Kingdom

Date: 2004/10/06	Deadline: 2006/12/31
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Contact

Organisation	University of Oxford	Department	Department of Structural Biology
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Website	www.well.ox.ac.uk/		

Familiar with the European Framework Programme? **YES**

PROJECT

Title: Structural Proteomics of Complex Proteins	Acronym:
Project type	Integrated Project
Status	Planned for submission
Call references	Call 4th
Priorities' Main Research Areas	Life Science, Genomics & Biotechnology for Health Fundamental knowledge and basic tools for functional genomics in all organisms. Application of knowledge and technologies in the field of genomics and biotechnology for health.
Workprogramme Topic (according to each priority workprogramme)	Structural Genomics
Project description High throughput automated pipeline approach to structural determination of complex proteins.	
Keywords	Proteomics

Partners already involved	n.c		
Project budget (for the running projects)	nc	Budget reserved for SMEs	nc

Research topics

- LSH-2005-1.1.2-1: Structural genomics interdisciplinary initiative - INTEGRATED PROJECT.
- LSH-2005-1.1.3-2: High throughput phenotyping tools and approaches for large scale functional genomics studies - INTEGRATED PROJECT.
- LSH-2005-1.2.2-1: High throughput molecular diagnostics for hereditary diseases - INTEGRATED PROJECT.

Profile of SME sought

Role	technology development, research
Country /region	UK, France, Germany, Sweden mainly
Start of partnership	start-up phase
Expertise required	Instrumentation technology related to protein crystallography, image recognition and processing. Developmental expertise in LIMS (laboratory information management system)

Project #55

Project #55 - National Hellenic Research Foundation - Greece

Date: 2004/12/02	Deadline: 2005/12/01
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Contact

Organisation	National Hellenic Research Foundation	Department	Theoretical & Physical Chemistry Institute
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Familiar with the European Framework Programme? **YES**

PROJECT

Title: Electron Source, Time-of-flight, Electron capture	Acronym: ESTOFEC
Project type	6FP
Status	Planned for submission
Call references	Call 4th
Priorities' Main Research Areas	TP1:LifeSciences, Genomics and Biotechnology for Health TP3: Nanotechnologies & Nanosciences
Workprogramme Topic (according to each priority workprogramme)	TP1: LSH-2005-1.2.2-3: Nanoparticles-based diagnostics - STREP LSH-2005-1.1.0-3: Proposals concerned with the development of tools and technologies for functional genomics + research focusing on multidisciplinary functional genomics approaches to study basic biological processes. – STREPs dedicated to SMEs

Project description

Development of a set of an electron source and a TOF mass spectrometer to be used in electron attachment measurements.

Design and test of the electron gun: electron source of well controlled electron energy.

Use the electron source to investigate electron attachment.

Detection and measurement of negative ions

Keywords	Electron gun, TOF, Negative Ions		
Partners already involved			
Project budget (for the running projects)	nc	Budget reserved for SMEs	nc

Research topics

- LSH-2005-1.1.0-3: Proposals concerned with the development of tools and technologies for functional genomics + research focusing on multidisciplinary functional genomics approaches to study basic biological processes. – STREPs dedicated to SMEs

- LSH-2005-1.2.2-3: Nanoparticles-based diagnostics - STREP.

Profile of SME sought

Role	research
Country /region	Europe
Start of partnership	start-up phase
Expertise required	Knowledge and interest in electron sources, mass spectrometry and electron attachment process.

Project #65

Project #65 - Slovakia

Date: 2005/03/08	Deadline: 2005/11/30
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Contact

Partner search located in Slovakia

To obtain more information about this Partner Search, feel free to contact our national expert in charge of this file:

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Familiar with the European Framework Programme? **YES**

PROJECT

Title: Lipids, Triglycerids and Fatty Acid Isomers in Their Important Relations	Acronym:
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Project type	STREP
Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	LIFESCIHEALTH - Advanced genomics and its application for health
Workprogramme Topic (according to each priority workprogramme)	Please, see below.

Project description

The project aims to develop a novel diagnostic method for detection and correct classification of human diseases. Lipid fractions from the affected tissues shall be isolated and their numerical and structural characteristics determined. Subsequently, correlations shall be made between the lipid profiles and the disease types. DNA analysis and expression profiling shall form an integral part of the correlations. Next, a database of lipid profiles shall be compiled. Eventually, a diagnostic kit shall be created and validated in a larger population of patients and a regional service laboratory shall be established.

Formation of the Research/Realising centre, serving for: In vivo systematic co-identifications of diseases, (BSE/JCD et first), by using the elaborated method conception for numeric transformations of physico-chemical characteristics and triglycerid molecular structure changes in the lipid fractions of proper biological models. (Cordis Results, Reg, No, :26513).

Keywords	diagnostic method; disease identification; lipid analysis; lipid fingerprinting; TAG analysis; TAG molecular structure; mathematical and computer modelling		
Partners already involved	Prof. MUDr. tefan GALBAVY, PhD. - Slovakia Assoc. Prof. tefan HRUOVSKY - Slovakia Prof. Fernand THYRION - Belgium Prof. Viktor BEREZKIN, Dr.Sc. - Russia		
Project budget (for the running projects)	nc	Budget reserved for SMEs	nc

Research topics

- LSH-2005-1.1.0-3: Proposals concerned with the development of tools and technologies for functional genomics + research focusing on multidisciplinary functional genomics approaches to study basic biological processes. – STREPs dedicated to SMEs

- LSH-2005-1.2.2-3: Nanoparticles-based diagnostics - STREP.

- LSH-2005-1.2.2-4: Development of new diagnostics - STREPs dedicated to SMEs

Profile of SME sought

Role	technology development, research
Country /region	Any Country
Start of partnership	start-up phase
Expertise required	Research Institutions and Universities, SMEs oriented to the development, validation, demonstration and commercialisation of diagnostic system(s) based on the aforementioned method.

Project #74

Project #74 - Medical University Vienna, Department of Cell Biology and Ultrastructure Research - Austria

Date: 2005/04/07	Deadline: 2005/11/30
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Contact

Organisation	Medical University Vienna, Department of Cell Biology and Ultrastructure Research	Department	Department of Cell Biology and Ultrastructure Research, Center for Anatomy and Cell Biology
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Website	www.meduniwien.ac.at/centeracb		

Familiar with the European Framework Programme? **YES**

PROJECT

Title: Multidisciplinary functional genomics and cytomics to analyse transport across the Golgi apparatus in health and disease	Acronym: Golgi apparatus in health and disease
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Project type	STREP
Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	1.1. Fundamental knowledge and basic tools for functional genomics in all organisms
Workprogramme Topic (according to each priority workprogramme)	Multidisciplinary functional genomics approaches to basic biological processes SME-STREP call

Project description

Research in this project is focused on the role of the Golgi apparatus in connection with basic cellular processes in health and disease. The programme includes multidisciplinary investigation of the roles of the Golgi apparatus in both secretion and endocytosis, signaling and sorting of molecules to different intra- and extracellular destinations, formation and maintenance of cell polarities, biogenesis of transport carriers, storage compartments, and specialized organelles, such as the fusiform membrane vesicles in urothelial cells, biogenesis of lysosomes, pathways of toxins, transport of drugs, and cell death.

The results obtained are assumed to provide key knowledge for a better and more detailed understanding of physiologic and pathologic cellular traffic to be further utilized in applied medical research.

Keywords

Golgi apparatus, membrane traffic, secretion, endocytosis, cell polarity, lysosomes, routes of toxins, transport of drugs, genomics, proteomics, microscopy, electron tomography

Partners already involved

Kai Simons Christiane Walch.Solimena Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany Alberto Luini Alexander Mironov Department of Cell Biology and Oncology Consortio Mario Negri Sud, S.Maria Imbaro, Italy Kristian Jezernik Institute of Cell Biology Medical Faculty, University of Ljubljana, Slovenia Margit Pavelka Department of Cell Biology and Ultrastructure Research Wolfgang Schreiner Core Unit of Medical Statistics Medical University of Vienna, Austria

Project budget (for the running projects)

nc

Budget reserved for SMEs

nc

Research topics

- LSH-2005-1.1.0-3: Proposals concerned with the development of tools and technologies for functional genomics + research focusing on multidisciplinary functional genomics approaches to study basic biological processes. – STREPs dedicated to SMEs

Profile of SME sought

Role	technology development, research
Country /region	Any country in Europe
Start of partnership	start-up phase

Expertise required

- 1./ Pharmaceutical industry:
 - a./ Development of substances that utilize physiologic pathways across the Golgi apparatus with the goal to establish routes for controlled introduction of agents and drugs into defined cellular compartments, and get access to specific functional processes of cells.
 - b./ Development of drugs that influence and modify pathways across the Golgi apparatus with the aim to interrupt specific routes, such as those of microorganisms, toxins and other harmful substances.

- 2./ IT implementation and development:
 - a/ Installation of hardware, operating system and software parallelization tools for multi-processor computational facilities, either shared memory or cluster solutions.
 - b/ Implementation and optimization of molecular dynamics simulation software (CHARMM, NAMD and Gromacs). Optimization of performance for a respective simulation of Golgi membrane behaviour and transport phenomena.

- 3./ Biotechnology companies:

Development of tissue culture systems, which maintain physiologic pathways across the Golgi apparatus and polarization of cells.

Project #97

Project #97 - Universidad Pablo de Olavide - Spain

Date: 2005/06/22	Deadline: 2039/12/12
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Contact

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Familiar with the European Framework Programme? **YES**

PROJECT

Title: Development of tools and technologies for functional genomics	Acronym:
Project type	STREP
Status	Planned for submission
Call references	Call 4th
Priorities' Main Research Areas	Function and regulation of vertebrate iroquois genes
Workprogramme Topic (according to each priority workprogramme)	LSH-2005-1.1.0-3

Project description

We are performing a detailed study of the regulation mechanisms of the Iro/Irx genes during vertebrate development. To that end, we have identified, by means of a comparative study of different vertebrate genomes, evolutionary conserved cis-regulatory regions present in those clusters in which the Iro/Irx genes are located. We are functionally analysing these regions by transgenesis in *Xenopus laevis*, *Xenopus tropicalis* and zebrafish. In addition, we are characterizing the factors that regulate Iro/Irx expression through some of the identified cis-regulatory elements. Finally, by means of injecting specific antisense oligonucleotides (morpholinos) we are performing a detailed loss of function study of the different Iro/Irx genes, alone or in combinations, during *Xenopus* development.

Keywords	genomics, proteomics		
Partners already involved			
Project budget (for the running projects)	nc	Budget reserved for SMEs	nc

Research topics

- LSH-2005-1.1.0-3: Proposals concerned with the development of tools and technologies for functional genomics + research focusing on multidisciplinary functional genomics approaches to study basic biological processes. – STREPs dedicated to SMEs

- LSH-2005-1.1.1-1: A systems approach to understanding the regulation of gene transcription - INTEGRATED PROJECT.

- LSH-2005-1.1.3-2: High throughput phenotyping tools and approaches for large scale functional genomics studies - INTEGRATED PROJECT.

- LSH-2005-2.1.3-1: Neuroimaging: "Bridging genetics and neural function" - INTEGRATED PROJECT

Profile of SME sought

Role	technology development, research, dissemination, demonstration
Country /region	Any country/ region
Start of partnership	start-up phase
Expertise required	<p>Research will focus on the study of fundamental biological processes relevant to human health (including studies on micro-organisms, plants and animals where appropriate). This research will be of a multidisciplinary nature, involving the different disciplines of functional genomics: gene expression and proteomics, structural genomics, comparative genomics and population genetics and bioinformatics.</p> <p>Our interest would be to participate as partner in the project, offering our expertise in functional genomics.</p>

Project #110

Project #110 - European Network for Research on Alternating Hemiplegia - Austria

Date: 2005/06/27	Deadline: 2006/12/31
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Contact

Organisation	European Network for Research on Alternating Hemiplegia	Department	ENRAH
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Website	www.enrah.net		

Familiar with the European Framework Programme? **YES**

PROJECT

Title: STREP(s) on Cell Biology/Pathology of Channelopathies, resp. AHC (Alternating Hemiplegia of childhood); Drug Testing in vitro/in animal models	Acronym:
Project type	STREP
Status	Planned for submission
Call references	Call 4th
Priorities' Main Research Areas	Rare disease Neurology
Workprogramme Topic (according to each priority workprogramme)	LSH-2005-1.2.2-2: Innovative methods for diagnosis of nervous system disorders LSH-2005-1.1.0-3: Multidisciplinary functional genomics approaches to study basics biological processes LSH-2005-2.1.1-12: In vitro/animal model for rare diseases LSH-2005-2.1.3-6: Neuroscience oriented new technologies

Project description SPECIFIC TARGETED RESEARCH PROJECT(S) ON CELL BIOLOGY/PATHOLOGY OF CHANNELOPATHIES, RESP. AHC DRUG TESTING IN VITRO/in ANIMAL MODELS			
Keywords	channelopathies, drug discovery, cell biology, proteomics		
Partners already involved			
Project budget (for the running projects)	nc	Budget reserved for SMEs	nc

Research topics

- LSH-2005-1.1.0-3: Proposals concerned with the development of tools and technologies for functional genomics + research focusing on multidisciplinary functional genomics approaches to study basic biological processes. – STREPs dedicated to SMEs
- LSH-2005-1.2.2-2: Development of innovative methods for diagnosis of nervous system disorders - STREP.
- LSH-2005-2.1.1-12: Development of in vitro and/or animal models for rare diseases - STREPs dedicated to SMEs
- LSH-2005-2.1.3-6: Neuroscience-oriented new technologies - STREPs dedicated to SMEs

Profile of SME sought

Role	technology development, research
Country /region	any
Start of partnership	start-up phase
Expertise required	cell biology, proteomics, animal models systems, molecular biology applications, drug testing

Project #112

Project #112 - Spain

Date: 2005/06/30	Deadline: 2039/12/12
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Contact

Partner search located in Spain

To obtain more information about this Partner Search, feel free to contact our national expert in charge of this file:

Organisation	CR 26 / REDFUE - University-Enterprise Foundations Network		
Official Representant	LETAMENDI VIÑAU, Mr Juan Andrés		
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Familiar with the European Framework Programme? **YES**

PROJECT

Title: Procyanidins and metabolic syndrome	Acronym:
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Project type	Integrated Project
Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	Advanced Genomics and its applications fro Health Combating Major Diseases
Workprogramme Topic (according to each priority workprogramme)	Application of knowledge and Technologies in the field of genomics and biotechnology for health Research on cardiovascular disease Research on Type II diabetes

Project description

The results obtained by our group within the research project AGL2002-0078, as well as those published by other authors, led us to hypothesize that procyanidins might be functionally bioactive molecules for the prevention and/or correction of the metabolic syndrome. In a first step, we will identify, using and in vitro screening, those species of procyanidins that are more bioactive, either individually or combined in different proportions. Next, we will test the effectiveness of the selected procyanidins in laboratory animals in which a metabolic situation similar to that of metabolic syndrome in humans will be induced by a high-fat diet. In these animals, we will assess the effectiveness of the selected procyanidin/s both in preventing and in correcting the syndrome. To get insight into the metabolic targets of the procyanidin/s, we will perform different methodological approaches: in silico analysis of ligand-protein interactions; evaluation of procyanidin/s effects on the main metabolic pathways that are altered in the metabolic syndrome and in the global gene expression profile. Finally, we will evaluate the effectiveness of the selected procyanidins in cultured human macrophages and adipocytes obtained from individuals affected by the metabolic syndrome, since accumulating suggest that the dysfunction of adipose tissue and its production of cytokines is tightly linked with the genesis and progression of the metabolic syndrome. The interest of this project is the use of procyanidins in the design of functional foods, aimed to the prevent or correct the increasing incidence of the metabolic syndrome, a pathology of high prevalence in developed societies, and whose etiology is origin is highly associated with nutritional habits.

Keywords	procyanidins, metabolic syndrome, functional food		
Partners already involved			
Project budget (for the running projects)	nc	Budget reserved for SMEs	nc

Research topics

- LSH-2005-1.1.1-1: A systems approach to understanding the regulation of gene transcription - INTEGRATED PROJECT.
- LSH-2005-1.2.1-3: Rational and accelerated development of new, safer, more effective drugs including pharmacogenomics approaches - STREPs dedicated to SMEs
- LSH-2005-2.1.1-10: Research on cardiovascular disease with strong SME involvement - STREPs dedicated to SMEs
- LSH-2005-2.1.1-4: Functional genomics and regulatory networks in lipid metabolism and their effects on the development of atherogenic vascular disease - STREP
- LSH-2005-2.1.1-5: Gene-environment interaction on the incidence of type 2 diabetes - INTEGRATED PROJECT

Profile of SME sought

Role	other
Country /region	All
Start of partnership	start-up phase
Expertise required	Our partners should be SME interested in flavonoids and its impact on health and healthier foods.

Project #120

Project #120 - Genomic Expression - Denmark

Date: 2005/07/14	Deadline: 2007/03/30
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Contact

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Familiar with the European Framework Programme? **YES**

PROJECT

Title: Development of New Universal chip technology principle for various applications including expression profiling, methylation profiling, and micro deletion profiling.	Acronym: Universal Chip
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Project type	STREP dedicated to SME
Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	Technology development and integration of different technologies into a product
Workprogramme Topic (according to each priority workprogramme)	development of tools and technologies for functional genomics + research focusing on multidisciplinary functional genomics

Project description

Activities Performed

- 1) Optimization of enzyme reactions
- 2) Development of detection platform (gene chip & microfluid chip)
- 3) Development of software
- 4) Development of new instrumentation
- 5) Test of chip for the following applications:
 - expression profiling,
 - methylation profiling,
 - micro deletion profiling,
 - SNP profiling,
 - miRNA profiling,
 - alternative promotor profiling,
 - splice variant profiling,
 - alternative polyadenylation profiling,
 - fingerprinting of microorganisms, and
 - monitoring of complex mixtures of micro organisms,

Genomic Expression is interested in taking up the Coordinator's role.

Keywords	Chip, expression profiling, methylation profiling, micro detection profiling		
Partners already involved			
Project budget (for the running projects)	nc	Budget reserved for SMEs	2,000,000.00€

Research topics

- LSH-2005-1.1.0-3: Proposals concerned with the development of tools and technologies for functional genomics + research focusing on multidisciplinary functional genomics approaches to study basic biological processes. – STREPs dedicated to SMEs

Profile of SME sought

Role	technology development, research, demonstration
Country /region	Europe
Start of partnership	start-up phase

Expertise required

To add to Genomic Expression's own strengths within integration of technologies and development of new tools for creating biological insight based on genomics:

- 1) Optimization of enzyme reactions
- 2) Development of detection platform (gene chip & microfluid chip)
- 3) Development of software
- 4) Development of new instrumentation
- 5) Test of chip for the following applications:
 - expression profiling,
 - methylation profiling,
 - micro deletion profiling,
 - SNP profiling,
 - miRNA profiling,
 - alternative promotor profiling,
 - splice variant profiling,
 - alternative polyadenylation profiling,
 - fingerprinting of microorganisms, and
 - monitoring of complex mixtures of micro organisms,



b)

