

SMEs go LifeSciences – Projects under preparation

1. ADVANCED GENOMICS AND ITS APPLICATION FOR HEALTH

b) Application of knowledge and technologies in the field of genomics and biotechnology for health

Development of new diagnostics

Projects # 10, 49, 55, 57, 65, 85, 87, 105, 110, 119, 121

- LSH-2005-1.2.2-1: High throughput molecular diagnostics for hereditary diseases - INTEGRATED PROJECT.
- LSH-2005-1.2.2-2: Development of innovative methods for diagnosis of nervous system disorders - STREP.
- LSH-2005-1.2.2-3: Nanoparticles-based diagnostics – STREP
- LSH-2005-1.2.2-4: Development of new diagnostics - STREPs dedicated to SMEs

Project #10

Project #10 - Biosensor Systems Design, Ltd. - Israel

Date: 2004/09/12	Deadline: 2006/12/31
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Contact

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Website	www.biosd.com		

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

PROJECT

Title: Rapid Prion Sensor	Acronym: RPS
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Project type	STREP
Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	i.b. Application of knowledge and technologies in the field of genomics and biotechnology for health Development of new diagnostics
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Workprogramme Topic (according to each priority workprogramme)	LSH-2005-1.2.2-4: Development of new diagnostics
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Project description

Biosensor Systems Design (BSD) has developed a proprietary novel biosensor technology, that can rapidly (<150 seconds) and inexpensively detect specific targets, such as disease-causing microorganisms and poisons. BSD's technology overcomes the problems associated with traditional biosensors. The biosensor is not dependent on any specific chemistries, optical effects, or electrical properties associated with the binding agents or targets. The technology is suitable for all binding agents ranging from enzymes to antibodies to antigens, synthetic binding agents, receptors and nucleic acids.

Keywords	prion, BSE, TSE, mad cow, scrapie, rapid, detection, diagnostics, food, feed, safety, blood, brain, sensor, biosensor
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Partners already involved	Herzog Hospital - Israel
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Project budget (for the running projects)	nc	Budget reserved for SMEs	nc
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Research topics

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

Profile of SME sought

Role	technology development, dissemination
Country /region	All Europe
Start of partnership	mid-term
Expertise required	Target partners will have expertise in (some of) the following areas: food/feed pathogens, animal and human diagnostics, bacteriology, virology, strong knowledge of prion and mutated prion related disease, general food and veterinary science/health, product development and ramp-up, finger on market needs and distribution capabilities.

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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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

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

PROJECT

Title: Electron Source, Time-of-flight, Electron capture	Acronym: ESTOFEC
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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 #57

Project #57 - United Kingdom

Date: 2005/01/14	Deadline: 2005/11/09
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Contact

Partner search located in United Kingdom

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: Security using Sensors	Acronym: SuSS
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Project type	Integrated Project
Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	<p>Integrating sensor technologies for security applications</p> <p>New Sensor development</p> <p>New interrogation techniques</p> <p>New sampling techniques</p> <p>Integrated data collection processing and transfer</p>
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Workprogramme Topic (according to each priority workprogramme)	NMP-2004-SME-3.4.4.7 Nanotechnological approaches for improved security systems
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<p>Project description</p> <p>Developing new sensor based or molecular systems, sampling regimes, data processing and communications capabilities for security systems.</p> <p>There are many different types of security systems, an integrated approach into developing new nanotechnological systems based on sensors and molecular recognition should improve security systems.</p>
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Keywords	Volatiles, Sensors, Security
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Partners already involved	0
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Project budget (for the running projects)	nc	Budget reserved for SMEs	7,000,000.00€
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Research topics

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

Profile of SME sought

Role	technology development, research, training, dissemination, demonstration
Country /region	any
Start of partnership	start-up phase
Expertise required	Data processing Sensor development Polymers Security experts

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)	-

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 physic-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 #85

Project #85 - BIG - Glucose - Israel

Date: 2005/06/07	Deadline: 2006/12/31
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Contact

Organisation	BIG - Glucose	Department	
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Website			

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

PROJECT

Title: SugarWatch	Acronym: SW
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Project type	STREP
Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	Life Science genomics and biotechnology for health
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Workprogramme Topic (according to each priority workprogramme)	LSH -2005-1.2.2-4: Development of new diagnostics – STREPs dedicated to SMEs		
<p>Project description</p> <p>Developing, producing, and dissemination of new non-invasive blood glucose continue monitoring device (SugarWatch). We reach the first stage of developing by having desk-top electronic system connected to PC with develop computer program. We did a lot of development testing and fined out that our ideas of measure blood glucose by bio-impedance technology has good ground. Our invention is to measure the parameters droved from the impact of the autonomic nerve system on the body impedance. These parameters (8 different parameters that we measured) are correlated to the glucose level in the blood. We have business plane and work program to finish the development and do all medical trials needed to receive CE and Country specific approvals.</p> <ol style="list-style-type: none"> 1. Basic research on the Relationship between bio-impedance and the autonomic nerve system 2-3 years of basic research to explore and understand the influence of glucose level on the autonomic nerve system and the impact of it on the bioimpedance measured. (our invention show a way to control blood glucose by measuring of bioimpedance parameters droved from the autonomic nerve system operation, but we don't understand the rationale of it) 2. Research on the adaptive of bioimpedance technology to monitor blood glucose of diabetic patients. Influence of personal parameters, drags, health condition est. 2-3 years of research to explore our technology. We use bioimpedance to monitor the blood glucose level and need to know its limitations, influence of the patient's condition, diabetic type, influence of parameters like age, sex, weight, ethnic origin est. on the monitoring, stability of it, calibration. 3. Medical trials of new non-invasive blood glucose monitoring device 2-3 years of medical trial to receive CE and specific countries approvals. 4. Miniaturizing electronic system to watch device 8- 12 month to develop a miniaturize device like watch from the desk-top electronic system we developed. 5. Market research for dissemination and introducing new non-invasive blood glucose controlling device to Europe. 1 year of market research at the end of the development face 			
Keywords	Basic research, bio impedance, blood glucose, medical device, non-invasive monitoring		
Partners already involved			
Project budget (for the running projects)	nc	Budget reserved for SMEs	nc

Research topics

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

Profile of SME sought

Role	technology development, research, dissemination, demonstration
Country /region	Any
Start of partnership	start-up phase
Expertise required	<ol style="list-style-type: none"> 1. Research center or University familiars with bio-impedance technology and medical device testing that has the ability to do basic research on the autonomic nerve system in body. 2. Research center, University or medical center with experience of diabetics' patients and medical device testing. 3. OSR or medical center with experience of CE regulations and specific European country regulation 4. Electronic company with experience in electronic miniaturization or watch design. 5. Medical device distributor or medical market research knowledge

Project #87

Project #87 - Ben Gurion University of the Negev - Israel

Date: 2005/06/09	Deadline: 2006/12/31
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Contact

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

PROJECT

Title: Rapids-detection disease diagnostic kits	Acronym: RAPDIA
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Project type	STREP
Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	i) ADVANCED GENOMICS AND ITS APPLICATIONS FOR HEALTH b) APPLICATION OF KNOWLEDGE AND TECHNOLOGIES IN THE FIELD OF GENOMICS AND BIOTECHNOLOGY FOR HEALTH <ul style="list-style-type: none"> • Development of new diagnostics 		
Workprogramme Topic (according to each priority workprogramme)	LSH-2005-1.2.2-4: Development of new diagnostics – STREPs dedicated to SMEs.		
Project description			
<p>The goal of the project is the development of diagnostic kits for rapid disease detection on site [doctor's office, field applications, sensitive facilities]. The underlying technology of the diagnostic kit would be a colorimetric platform - a demonstrated bio-mimetic assembly which undergoes dramatic visible blue-red changes, induced by clinically-important biological molecules and pathogens.</p>			
Keywords	pathogen detection, biosensors, polydiacetylene, catecholamines		
Partners already involved	Ben-Gurion University of the Negev.		
Project budget (for the running projects)	nc	Budget reserved for SMEs	nc

Research topics

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

Profile of SME sought

Role	technology development, training, dissemination, demonstration
Country /region	all
Start of partnership	start-up phase

**Expertise
required**

device development and fabrication, optical signal processing, health-care services, pathogen analysis.

Project #105

Project #105 - Netherlands

Date: 2005/06/23	Deadline: 2005/11/09
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Contact

Partner search located in Netherlands

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

Organisation	CR 20 / SENTERNOVEM		
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Familiar with the European Framework Programme? **YES**

PROJECT

Title: Early markers for Alzheimer's disease	Acronym: EarlyAD
Project type	STREP

Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	1.B. APPLICATION OF KNOWLEDGE AND TECHNOLOGIES IN THE FIELD OF GENOMICS AND BIOTECHNOLOGY FOR HEALTH
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Workprogramme Topic (according to each priority workprogramme)	1.B.2. Development of new diagnostics
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Project description Aim of the project is to investigate the diagnostic properties of new markers for early Alzheimer's disease in a clinical setting. Also, a cost-benefit evaluation will take place.	
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Keywords	Alzheimer
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Partners already involved	
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Project budget (for the running projects)	nc	Budget reserved for SMEs	nc
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Research topics

<ul style="list-style-type: none"> • LSH-2005-1.2.2-2: Development of innovative methods for diagnosis of nervous system disorders - STREP.
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<ul style="list-style-type: none"> • LSH-2005-1.2.2-4: Development of new diagnostics - STREPs dedicated to SMEs

<ul style="list-style-type: none"> • LSH-2005-2.1.3-1: Neuroimaging: "Bridging genetics and neural function" - INTEGRATED PROJECT
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<ul style="list-style-type: none"> • LSH-2005-2.1.3-8: Early markers and new targets for neurodegenerative diseases - STREPs dedicated to SMEs

Profile of SME sought

Role	research, dissemination
Country /region	Europe
Start of partnership	start-up phase
Expertise required	Test for Alzheimer's disease based on proteomics and genomics approach available for diagnosing testing.

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

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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:
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Project type	STREP
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Status	Planned for submission
Call references	Call 4th

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

<ul style="list-style-type: none"> 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
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<ul style="list-style-type: none"> LSH-2005-1.2.2-2: Development of innovative methods for diagnosis of nervous system disorders - STREP.
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<ul style="list-style-type: none"> LSH-2005-2.1.1-12: Development of in vitro and/or animal models for rare diseases - STREPs dedicated to SMEs
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- 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 #119

Project #119 - Innsbruck Medical University - Austria

Date: 2005/07/14	Deadline: 2005/12/31
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Contact

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

PROJECT

Title: Fast and Integrated Serum & DNA Chip: An Analytical Platform for Metabolic Diseases	Acronym: FIS & CHIPS
Project type	Integrated Project
Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	Life Science, genomics and biotechnology for health, 4th Call		
Workprogramme Topic (according to each priority workprogramme)	LSH-2005-1.2.2-1: High throughput molecular diagnostics for hereditary diseases - INTEGRATED PROJECT.		
Project description Most inherited metabolic diseases are rare, diagnosis is complex and currently based on genetics, biochemistry and enzymology. We propose to develop integrated "cluster chips" that allows integrated and rapid analysis for rare metabolic syndromes. Primary a mass spectrometry based array of analytes will be developed. Analytes will be chosen on a functional basis and their relationship in metabolic pathways so that rare syndromes can be diagnosed or excluded rapidly and accurately			
Keywords	hereditary disease, metabolic syndrome, mass spectrometry, cluster chip		
Partners already involved	Kherion Technology, Ltd; Cambridge University Department of Medicine		
Project budget (for the running projects)	nc	Budget reserved for SMEs	nc

Research topics

- LSH-2005-1.2.2-1: High throughput molecular diagnostics for hereditary diseases - INTEGRATED PROJECT.

Profile of SME sought

Role	technology development, dissemination, demonstration
Country /region	any european country
Start of partnership	start-up phase

**Expertise
required**

Development & Application of Mass spectrometers
Development & Application of Chip technology
Development & Application of DNA, PCR and sequencing
technology
Development & Application of biomolecule separation

Project #121

Project #121 - France

Date: 2005/07/19	Deadline: 2039/12/12
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Contact

Organisation	Institut Curie	Department	UMR 144 du CNRS
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Country FRANCE

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

PROJECT

Title: Project on bladder cancers	Acronym:
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Project type	STREP
Status	Planned for submission
Call references	Call 4th

Priorities' Main Research Areas	1. Advanced genomics and its application for health / b) Application of knowledge and technologies in the field of genomics and biotechnology for health
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Workprogramme Topic (according to each priority workprogramme)	"Development of new diagnostics: New diagnostic tests, and development of new tools and non-invasive methods for early diagnosis, monitoring of disease progression and interpretation of in-vivo data so as to increase the possibilities and effectiveness of the existing therapies."		
Project description Bladder cancer is unpredictable disease and is the most expensive cancer for the society. Recently a mutated tyrosine kinase receptor, FGFR3, has been identified in this cancer. The goals of the project are: <ul style="list-style-type: none"> - Drugs are being developed against FGFR3, set up a test to detect FGFR3 mutations to be able to select the patients which will benefit from a tyrosine kinase inhibitor therapy - Bladder cancers often recur or progress, set up a test to predict the aggressiveness of the tumours based on DNA microarrays 			
Keywords	Bladder cancer, diagnostics, prognostic, tyrosine kinase receptor		
Partners already involved	Progenika, Derio, Spain IMIM, Barcelona, Spain Institut Curie, Paris, France Pepscan, Lelystad, Netherlands		
Project budget (for the running projects)	2,500,000.00€	Budget reserved for SMEs	1,200,000.00€

Research topics

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

Profile of SME sought

Role	technology development, research, training, dissemination, demonstration
Country /region	any
Start of partnership	mid-term

**Expertise
required**

Open but one partner could be a specialist of microarray
quality improvement