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 and testing of new preventive and therapeutic tools, such as somatic gene and cell therapies (in particular stem cell therapies, f.e. those on neurological and neuromuscular disorders) and immunotherapies

- LSH-2005-1.2.4-1: Tissue engineering approaches to treating children with birth defects - INTEGRATED PROJECT
- LSH-2005-1.2.4-2: Hepatitis C vaccine - INTEGRATED PROJECT
- LSH-2005-1.2.4-3: Stem Cell Therapy for Stroke Patients – STREP
- LSH-2005-1.2.4-4: Methodological research to underpin stem cell banking - STREP
- LSH-2005-1.2.4-5: Understanding monogenic rare diseases using insight from stem cell lines – STREP
- LSH-2005-1.2.4-6: Use of baculovirus as a vector in gene therapy (especially orientated towards small and medium sized companies) - STREP
- LSH-2005-1.2.4-7: Development and testing of new preventive and therapeutic tools, such as somatic gene and cell therapies (in particular stem cell therapies) and immunotherapies – STREPs dedicated to SMEs

Projects # 11, 101

Project #11

Project #11 - Hebrew University - Israel

Date: 2004/09/13	Deadline: 2006/12/31

Contact

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

PROJECT

Title: Ex vivo non viral gene therapy	**Acronym:**

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 · Development and testing of new preventive and therapeutic tools, such as somatic gene and cell therapies (in particular stem cell therapies, for example those on neurological and neuromuscular disorders) and immunotherapies
Workprogramme Topic (according to each priority workprogramme)	LSH-2005-1.2.4-7: Development and testing of new preventive and therapeutic tools, such as somatic gene and cell therapies (in particular stem cell therapies, for example those on neurological and neuromuscular disorders) and immunotherapies

Project description Development of new non-viral gene delivery technologies for ex vivo gene-based therapies (especially orientated towards involvement of SMEs) Combining adult stem cells and electro-gene delivery for the development of novel orthopedic and neurosurgical therapeutic platforms.			
Keywords	Non-viral gene delivery, electroporation, adult stem cells		
Partners already involved			
Project budget (for the running projects)	nc	**Budget reserved for SMEs**	nc

Research topics

• LSH-2005-1.2.4-7: Development and testing of new preventive and therapeutic tools, such as somatic gene and cell therapies (in particular stem cell therapies) and immunotherapies – STREPs dedicated to SMEs

Profile of SME sought

Role	technology development, research
Country /region	Europe (preferably not from Belgium)
Start of partnership	start-up phase
Expertise required	In-the-market or developed prototype of electropration system (device and related buffers).

Project #101

Project #101 - Universidad Pablo de Olavide - Spain

Date: 2005/06/22	Deadline: 2005/11/09

Contact

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

PROJECT

Title: Exploring the patient's cancer stem cell as a novel therapeutic target	**Acronym:**

Project type	STREP
Status	Planned for submission

Call references	Call 4th

Priorities' Main Research Areas	Regulation of hematopoietic stem cell differentiation during development
Workprogramme Topic (according to each priority workprogramme)	LSH-2005-2.2.0-5

Project description
Current studies focus in three lines of work:

- Notch signaling pathway in HSC biology by manipulation of Notch family members expression by the 3'enhancer;

-contribution potential of HSC to vascular endothelium during development and
- characterization of new HSC enhancer from SCL, an ongoing collaboration with the Cambridge group.

Future work will continue to explore the differentiation potential of HSC during development in combination with the analisys of genes relevant to HSC biology and their targeted expression driven by HSC-enhancers.

Keywords	stem cell, cancer		
Partners already involved			
Project budget (for the running projects)	nc	**Budget reserved for SMEs**	nc

Research topics

- LSH-2005-1.2.4-1: Tissue engineering approaches to treating children with birth defects - INTEGRATED PROJECT.
- LSH-2005-1.2.4-3: Stem Cell Therapy for Stroke Patients - STREP
- LSH-2005-2.2.0-5: Exploring the patient's cancer stem cell as a novel therapeutic target - STREP

Profile of SME sought

Role	technology development, research, dissemination, demonstration

Country /region	Any country/ region
Start of partnership	start-up phase
Expertise required	Collaborative research should focus on multidisciplinary, transnational research on several of the pertinent issues of cancer stem cells such as identification, isolation and characterization of cancer stem cells, elucidating signalling pathways that drive their growth and the application of this knowledge to novel treatment strategies. Research on stem cells in other diseases will not be considered in this topic.