

# Partner Search Form



Date

Deadline

## CONTACT

Organisation	SimeTRA Pharm LTD	Department	
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Country	Israel	Website	www.simetrpharm.com

Are you familiar with the European Framework Programme?

YES  NO

## PROJECT

Title **Developing anti-cancer drugs based on pro-apoptotic molecules**

Acronym **apoptotic anti-cancer drugs**

Project type	<input type="checkbox"/> Integrated Project	<input type="checkbox"/> Network of Excellence	<input checked="" type="checkbox"/> STREP	<input type="checkbox"/> Other:
Status	<input checked="" type="checkbox"/> planned for submission	<input type="checkbox"/> running EU project		
Call references	4 <sup>th</sup> call	FP6-2002-LIFESCIHEALTH		

Priorities' Main Research Areas

Life Science genomics and biotechnology for health  
 ii) COMBATING MAJOR DISEASES  
 b) COMBATING CANCER  
  
 i) ADVANCED GENOMICS AND ITS APPLICATIONS FOR HEALTH  
 b) APPLICATION OF KNOWLEDGE AND TECHNOLOGIES IN THE FIELD OF GENOMICS AND BIOTECHNOLOGY FOR HEALTH  
 • Rational and accelerated development of new, safer, more effective drugs including pharmacogenomics approaches

Workprogramme Topic (according to each priority workprogramme)

LSH-2005-2.2.0-2: Modulation of apoptosis in cancer prevention and therapy  
  
 LSH-2005-2.2.0-3: Innovative diagnostic approaches and novel therapies of childhood cancers – STREP.  
  
LSH-2005-1.2.1-3Rational and accelerated development of new, safer, more effective drugs including pharmacogenomics approaches

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## Project description

SimeTRA Pharm is searching for drugs that will specifically trigger the apoptotic process in cancer cells. SimeTRA is developing drugs based on ARTS, a proprietary powerful pro-apoptotic protein. ARTS is a highly potent pro-apoptotic protein that acts mainly through antagonizing Inhibitor of Apoptosis Proteins (IAPs). In living cells, ARTS resides in mitochondria, but in response to pro-apoptotic stimuli it is released and directly binds to IAPs, thereby inhibiting their ability to prevent apoptosis. Significantly, we have found that ARTS is a tumor suppressor in childhood Acute Lymphoblastic Leukemia (ALL), lymphoma and possibly other malignancies as well.

SimeTRA's first products will be focused on treating Hematopoietic cancers (Leukemia, Lymphoma and Myeloma).

SimeTRA is currently focusing on structure - function studies of the ARTS protein as a basis for creating an ARTS mimetic molecule. Small ARTS derived peptides are currently being tested for binding and neutralizing IAPs as well as for their selective apoptotic activity in various cancer cells. The company intends to start testing the relevant peptides and small molecules in an animal model starting Q2/2006, and plans to start pre-clinical studies by Q1/2007 and phase I clinical studies during Q4/2007.

## Keywords

Apoptosis, IAPs, ARTS, cancer, leukemia

## Partners already involved

## Project budget (for the running projects)

Budget reserved for SMEs

## Profile of SME sought

### Role

<input checked="" type="checkbox"/> technology development	<input checked="" type="checkbox"/> research	<input type="checkbox"/> training
<input type="checkbox"/> dissemination	<input type="checkbox"/> demonstration	<input type="checkbox"/> other:

### Country /region

All Europe

### Start of partnership

start-up phase  mid-term  end-phase

### Expertise required

We are looking for financial support as well as collaborative efforts in developing anti-cancer drug, and novel diagnostic tools for childhood Acute lymphoblastic leukaemia based on pro-apoptotic molecules. Specific expertise such as NMR or crystallography aimed at exploring ARTS structure would expedite drug development .

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I agree with the publication of my data

YES

NO

PLEASE FILL IN THE PARTNER SEARCH FORM AND RETURN IT TO:

Smadar Hirsh  
ISERD  
smadar@iserd.org.il

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