



# SME / Association / Researcher profile form



Date (dd/mm/yyyy): 21/06/2010

Profile valid until (dd/mm/yyyy): 20/06/2011

## Section 1 - Contact details

<b>Organisation Name</b> (full name)	Milano-Bicocca University Dept Experimental Medicine
<b>Organisation acronym</b> (Abbreviation)	DIMS
<b>Address</b>	Via Cadore 48
<b>Postal code</b>	20052
<b>City</b>	Monza
<b>Country</b>	Italy
<b>www address</b>	<a href="http://www.dimesab.medicina.unimib.it/organico/associati/perego_ing.htm">http://www.dimesab.medicina.unimib.it/organico/associati/perego_ing.htm</a>

<b>Contact person:</b>	
<b>Title</b>	Prof
<b>First Name</b>	Roberto
<b>Family Name</b>	Perego
<b>Telephone</b>	+39 02 6448 8303
<b>Fax</b>	+39 02 6448 8068
<b>E-mail</b>	roberto.perego@unimib.it

## Section 2 – Type of organisation

### If you are an Enterprise

<b>Enterprise type</b>	<input type="checkbox"/> Private <input type="checkbox"/> Non profit	<b>Is your Company a Small-Medium sized Enterprise (SME)?</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO
	<input type="checkbox"/> Public <input type="checkbox"/> Other		<b>if YES, Number of Employees</b>
<p>According to Article 2 of the annex of Commission Recommendation 2003/361/EC of 6 May 2003, which applies from 01 January 2005, an SME (Micro, Small or Medium-sized Enterprise) is an enterprise which:</p> <ul style="list-style-type: none"> <li>• has fewer than 250 employees,</li> <li>• has an annual turnover not exceeding 50 million euro, and/or</li> <li>• an annual balance-sheet total not exceeding 43 million euro.</li> </ul> <p><a href="http://europa.eu.int/comm/enterprise/enterprise_policy/sme_definition/index_en.htm">http://europa.eu.int/comm/enterprise/enterprise_policy/sme_definition/index_en.htm</a></p>		<input type="checkbox"/> < 10 <input type="checkbox"/> > 10 and < 50 <input type="checkbox"/> < 250	
<b>Owned by a non SME:</b>		<input type="checkbox"/> YES <input type="checkbox"/> NO	
<b>Description of the organisation (max 1.000 characters):</b>			

### If you are an Association

<b>Association type</b>	<input type="checkbox"/> SME <input type="checkbox"/> Industrial	<b>Sector of activity</b>	
	<input type="checkbox"/> Cultural <input type="checkbox"/> Civil society		
	<input type="checkbox"/> Other:		
<b>Description of the association (max 1.000 characters):</b>			



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## If you are a Research Organisation

<b>Research Organisation type</b>	Research Organisation ( <input type="checkbox"/> Private <input type="checkbox"/> Public) <del>High Education School</del> / <b>University</b> / <del>Institute</del> ( <input type="checkbox"/> Private <input checked="" type="checkbox"/> <b>Public</b> ) <input type="checkbox"/> Other, please specify:
<b>Description of the organisation (max 1.000 characters):</b> In our Department of Experimental Medicine (DIMS), at Milano-Bicocca University, there are different expertise and positions. The DIMS, a 1000 square meter facility located in Monza, has facilities for molecular biology, cellular biology, biochemistry, and chemistry, our group has the availability or the access to equipments for cellular cultures and molecular biology, for Real-time PCR with TLD card, sequencing, mass spectrometry, cell sorting and FACS analysis, confocal microscopy, tissue microarray and FISH analysis. There are rooms dedicated for storing samples at -80°C and -180°C, for radioisotope manipulation and animal facilities for immunodepressed mice. DIMS is connected to clinical groups, joined to "Azienda Ospedaliera S Gerardo" that has a convention with Milano-Bicocca University	

## Section 3 – Sector of interest

<b>FP7 Programme</b>	<input checked="" type="checkbox"/> Cooperation 1. Health (Click for choosing the Theme) <input type="checkbox"/> Ideas <input type="checkbox"/> People <input type="checkbox"/> Capacities (Click for choosing type of programme)
<b>Further information on the sector of interest</b> (max. 500 characters)	We are interested in joining projects or project consortia to which we can offer our strong expertise in cellular (including stem cells), molecular, genomic, transcriptomic approaches for studying neoplastic and degenerative (diabetic nephropathy, epithelial-mesenchymal transition) renal pathologies
<b>Research topic according to the work programme</b> (if available, specify the code of the topic(s) that you are interested in, e.g. ENV.2010 2.1.3-4.or KBBE-2010-1-7-01)	We are interested for the next FP7 Cooperation: Health 2011, in the topic concerning: BIOTECHNOLOGY, GENERIC TOOLS AND MEDICAL TECHNOLOGIES FOR HUMAN HEALTH - High-throughput Research - Innovative therapeutic approaches and interventions TRANSLATING RESEARCH FOR HUMAN HEALTH - Cancer - Diabetes and Obesity We are interested in the subjects represented in the last calls like: - FP7-HEALTH;HEALTH-2007-1.4 - FP7-HEALTH;HEALTH-2007-1.4-6 - FP7-HEALTH;HEALTH-2007-1.4-7 - FP7-HEALTH;HEALTH-2007-1.4-8 - FP7-HEALTH;HEALTH-2007-2 - FP7-HEALTH;HEALTH-2007-2.1.2-3 - FP7-HEALTH;HEALTH-2007-2.4.1 - FP7-HEALTH;HEALTH.2010.2.4.1-2 - FP7-HEALTH;HEALTH.2010.2.4.1-5 - FP7-HEALTH;HEALTH.2010.2.4.1-6

## Section 4 - Description of your expertise



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<p><b>Description of the expertise</b> (max 2.000 characters)</p>	<p>Competence in renal pathology. Cellular, molecular, genomic, transcriptomic, proteomic approaches to study renal cell carcinoma (RCC). Primary cell cultures of cortex and RCC, and characterization of AnxA3 gene product. Genomic, transcriptomic and microRNA profiling and RNA interference on these primary cultures.</p> <p>Nephrosphere forming assay and PKH dye for identification, isolation and characterization of resident renal stem cells and cancer stem cells of RCC. The stem cells isolated from nephrospheres by cell sorting are characterized by high-throughput transcriptomic approach to find out the stem cell signature, the normal stem cells are cultivated into semisolid substrates to evaluate their capacity to differentiate, and the cancer stem cells are grown in immunodepressed mice.</p> <p>The molecular mechanisms of tubular epithelial-mesenchymal transition (EMT) of Diabetic Nephropathy are studied using an in vitro model of human tubular primary epithelial cells cultures treated with high glucose concentration. The EMT development is assessed by morphological changes; immunocytofluorescence and FACS analysis, evaluating the downexpression of epithelial and the overexpression of mesenchymal markers; molecular analysis by Real-Time PCR, western blot. In this model of tubular EMT the modulation of cytoskeleton, stress fibers and focal adhesions, typical of EMT process, is evaluated.</p> <p>Eight Arg (Abl2) non receptor tyrosine kinase isoforms, identified by us, play different roles in regulating cell morphology, adhesion, cytoskeleton organization as evidenced by transfection, immunofluorescence, confocal microscopy studies. Arg, that through its kinase domain and C-terminal region inhibits cellular migration modulating cellular cytoskeleton, is downregulated in our in vitro EMT model and this correlates with cytoskeleton rearrangements occurring during EMT development</p>
<p><b>Keywords describing the expertise offered</b> (if needed more than one)</p>	<ol style="list-style-type: none"> <li>1. kidney</li> <li>2. renal cell carcinoma</li> <li>3. normal and tumor renal primary cell cultures</li> <li>4. normal and tumor renal stem cells</li> <li>5. genomic, transcriptomic, miRNA profiling</li> <li>6. RNA interference</li> <li>7. epithelial-mesenchymal transition</li> <li>8. diabetic nephropathy</li> <li>9. cytoskeleton</li> <li>10. non receptor tyrosine kinase ABL2</li> </ol>

## Section 5 – Your previous experience in FP projects

<p><b>Former participation in FP European projects?</b></p>	<p><input type="checkbox"/> YES    <input checked="" type="checkbox"/> NO</p>
<p><b>If YES</b></p>	<p>Please choose</p> <p>Project title:</p> <p>Acronym:</p>
<p><b>Activities performed</b></p>	<p><input type="checkbox"/> Research    <input type="checkbox"/> Demonstration    <input type="checkbox"/> Training</p> <p><input type="checkbox"/> Technology    <input type="checkbox"/> Dissemination    <input type="checkbox"/> Management</p> <p><input type="checkbox"/> Other:</p>



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<b>Please describe briefly</b> (max. 700 characters):	
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## Section 6 – Expectations

<b>Term commitment</b>	<input type="checkbox"/> Short (< 1 year) <input checked="" type="checkbox"/> Medium (1 to 3 years) <input checked="" type="checkbox"/> Long (more than 3 years)
<b>Commitment offered</b>	<input checked="" type="checkbox"/> <b>Research</b> <input type="checkbox"/> Demonstration <input type="checkbox"/> Training <input type="checkbox"/> Technology <input type="checkbox"/> Dissemination <input type="checkbox"/> Management <input type="checkbox"/> Other:
<b>Proposed role in the project</b>	<input type="checkbox"/> Coordinator <input checked="" type="checkbox"/> <b>Work package leader</b> <input checked="" type="checkbox"/> <b>Partner</b> <input type="checkbox"/> Other role:
<b>Expected results for your organisation</b> (max 500 characters)	We expect to meet groups or consortia, with proposal in our areas of interest, looking for partners to take on project submission

## Section 7 – International cooperation

<b>Are you interested in international cooperation?</b>	<input checked="" type="checkbox"/> <b>YES</b> <input type="checkbox"/> <b>NO</b>
<b>If YES, please specify the geographical area(s) of interest</b>	<input checked="" type="checkbox"/> <b>Mediterranean area</b> <input checked="" type="checkbox"/> <b>Balkan area</b> <input checked="" type="checkbox"/> <b>Russia and NIS (Newly independent States)</b> <input type="checkbox"/> Asia <input type="checkbox"/> Africa <input checked="" type="checkbox"/> <b>South America</b> <input type="checkbox"/> Other:

**I agree with the publication of my data**

Please fill in the form and send to: [ricercapartner@apre.it](mailto:ricercapartner@apre.it)