



Researcher / Enterprise Profile form - FP7 - Health

Date 2009 08 01Valid until: 2010 11 19

CONTACT DETAILS

Research organisation / Enterprise	Research organisation (High Education)
Organisation Name	"Iuliu Hatieganu" University of Medicine and Pharmacy - UMFCN
Department	3 rd Surgical Clinic
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Researcher / Contact person	
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ORGANISATION TYPE

Research organisation type	<input checked="" type="checkbox"/> Research Organisation	Is your company a Small and Medium Sized Enterprise (SME*)? Number of employees:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	<input type="checkbox"/> Company			
	<input type="checkbox"/> Other			

Description of research activity:

Being part of a leading medical university, our main activities are research and higher education in the field of surgical diseases.

Our main research activity is focussed on liver cancer surgical and minimally invasive therapies (such as radiofrequency ablation, chemoembolization, carbon nanotubes), being involved until now in several national funded research projects that investigated this topic. The fruitful collaboration with the Cluj Napoca Technical University - the Industrial Robots Simulation and Testing Center puts our research group in the leading position in Romania in the field of robotic surgery. Right now being involved in the development of a project which main target consists in joining competences coming from multiple domains, in order to develop innovative solutions with high performances, and advanced control systems based on the concept and the features of parallel robots, that will offer efficient solutions for applications in the field of minimum invasive surgery.

Former participation in an FP European project?

YES NO

Project title / Acronym:

Activities performed:

* Your enterprise is an SME if:

- it is engaged in **economic activity**
- it has **less than 250 employees**
- it has either an **annual turnover not exceeding €50M**, or an **balance sheet total not exceeding €43M**
- it is **autonomous**

For the definition of SMEs, look at:

http://ec.europa.eu/enterprise/enterprise_policy/sme_definition/index_en.htm



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EXPERTISE/COMMITMENT OFFERED

Keywords specifying the expertise:

Laparoscopic surgery, hepatobiliopancreatic surgery, clinical studies, robotic surgery, research in visceral surgery, virtual surgical environments.

Description of the expertise:

The basic field of expertise is open an laparoscopic interventions for abdominal diseases, the main interest being liver surgery, involving different types of procedures, experimental robotic surgery and virtual surgical environments. We have an intensive and fruitful cooperation with Cluj Napoca Technical University - the Industrial Robots Simulation and Testing Center that gave us an extensive expertise in the field of surgery robots (kinematics, dynamics, control, workspace, design, control) as well as e-learning platforms for laparoscopic surgery.

Commitment offered

Research Demonstration Training
 Technology Dissemination Other:

Interested in participation in Project types

<input type="checkbox"/> Large-scale integrating collaborative project	<input checked="" type="checkbox"/> Small or medium-scale focused research collaborative project	<input type="checkbox"/> Targeted to SMEs	<input type="checkbox"/> Other (Marie Curie Actions, ERA-NET...):
<input type="checkbox"/> Coordination and Support Action	<input type="checkbox"/> Network of Excellence	<input type="checkbox"/> Research for the benefit of SMEs	

Call references

HEALTH.2010.2.4.1-9. Optimising the delivery of (chemo)radiotherapy and/or surgery to cancer patients. FP7-HEALTH-2010-two-stage.

Main Research Topics :

Robotic laparoscopic liver surgery.

The main interest is developing a robotic surgery technique for the improvement of the outcome of hepatocellular carcinoma patients. Additionally, we intend to focus on the improvement of the delivery of the intra-arterial chemotherapy in liver cancer patients by using (micro)robotic techniques.

EXPECTATIONS

Term commitment

Short (< 1 year) Medium (1 to 3 years) Long (more than 3 years)

Expected results for your organisation:

We intent to be part of a consortium that adress these research topics eighter as a partner, or as a coordinator, so our interes is to have a proposal finished untill November the 1st.

We are looking for partners with expertise in one of these domains:
Surgery
Robots for surgery applications
Software for surgery
Modeling and Simulation of robotic systems for medical applications
Virtual surgery
Haptic devices for medical applications

I agree with the publication of my contact data: YES NO

PLEASE FILL IN THE PROFILE FORM AND RETURN IT TO:

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