

**JOINT TRANSNATIONAL CALL 2016:****"Minimally and non-invasive methods for early detection and/or progression of cancer"****PARTNER REQUEST/COLLABORATION OFFER**

If you would like to have your profile published on the TRANSCAN-2 website, "Looking for a research partner" webpage, please fill out this form and send it to

If you have any questions about this form, please do not hesitate to contact us at

**Note:** Fields marked with a \* are mandatory

Contact Information	
First name *	Juan Luis
Last name *	Fernández Martínez
Position *	Professor
Telephone number	+34985103199
E-mail address*	jlfm@uniovi.es
Website address	<a href="https://www.researchgate.net/profile/Juan_Martinez22">https://www.researchgate.net/profile/Juan_Martinez22</a>
Institution/Organisation *	University of Oviedo, Faculty of Science
Department*	Department of Maths
Street	Avda. Calvo Sotelo, s/n
Postal Code / City *	33007 / Oviedo
Country *	Spain

**\*I agree with the publication of my contact data and of this form on the TRANSCAN-2 Website:**

YES



## SEARCH FOR A COLLABORATOR

IF YOU ARE LOOKING FOR A PARTNER IN YOUR SUGGESTED PROPOSAL, PLEASE SPECIFY ALSO THE NEEDED EXPERTISE

### Project proposal

Project title (draft):

Short description of the project in preparation and of the consortium; description of the areas of expertise needed (Max. 2000 words):



## OFFER FOR COLLABORATION

IF YOU PROPOSE YOURSELF AS A PARTNER IN A CONSORTIUM, PLEASE DETAIL YOUR EXPERTISE

Short description of the areas of interest and expertise (Max. 2000 words):

Our research group is an expert on Inverse Problems, Optimization and Machine Learning. We have a broad expertise on model reduction and uncertainty analysis of very complex systems. We are interested in designing biomedical robots for their application in the analysis of rare, neurodegenerative diseases and also cancer from genetic and clinical data.

We are able to extract important information from very complex data and designing classifiers and predictors with their corresponding uncertainty and risk analysis.

**Keywords:** Biomedical robots, machine learning, model reduction, uncertainty analysis, global optimization, biometry and digital image processing, rare and neurodegenerative diseases, cancer, big-data analysis, translational medicine.

