





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 * | Gianluca |
| Last name * | Giavaresi |
| Position * | Senior Medical Researcher |
| Telephone number | +39 334 997 0300 |
| E-mail address* | gianluca.giavaresi@ior.it |
| Website address | http://www.ior.it/laboratori/lab-ing-tiss/piattaforma-tecnologica-lingegneria-tissutale-teranostica-e-oncologia |
| Institution/Organisation * | Istituto Ortopedico Rizzoli |
| Department* | Piattaforma Tecnologica per l'Ingegneria Tissutale, Teranostica e Oncologia |
| Street | Via Divisi, 83 |
| Postal Code / City * | 90133 Palermo |
| Country * | Italy |

***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): Clinical and Immunological relevance of osteosarcoma derived exosomes

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

The lack of significant progress in osteosarcoma treatment prompted us to investigate if osteosarcoma derived exosomes present in patients' plasma may represent useful biomarkers i) to monitor disease course and patients' response to therapy and ii) to investigate the mechanisms utilized by osteosarcoma cells to avoid host's immune system.

The project aim to develop novel and non-invasive exosome isolation protocols to obtain exclusively cancer-derived exosomes from plasma of osteosarcoma patients (enrolled at diagnosis and during follow-up of disease) by taking advantage of tumor antigen-specific monoclonal antibodies, which recognize epitopes selectively expressed on cancer cell-derived exosomes. The development of mAbs-based technology with prognostic value may transform osteosarcoma management from diagnosis, treatment to follow-up monitoring.

We are looking for collaborators with expertise in exosomes research, immunology and orthopedic oncology.



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):

The 'Istituto Ortopedico Rizzoli' is an Italian (Bologna) reference center for orthopedics healthcare and research. It deals with musculo-skeletal oncology (treatment of primary and secondary tumors of bone and soft tissue) and orthopedics. The 'Piattaforma Tecnologica per l'Ingegneria Tissutale, Teranostica e Oncologia' is a laboratory developed in Palermo thanks to the National Operational Programme "Research and Competitiveness" 2007-2013 grants funded by the Italian Ministry of University and Research. Among its fields of interest, the modulation of pathological microenvironments by secretome in cancer bone disease and in degenerative bone pathologies such as osteoporosis and osteoarthritis is the most investigated one. The Lab. offers facilities for cell biology and ultrastructural analysis (i.e. confocal microscopy, SEM and TEM), molecular biology and genetic analysis (i.e. next-generation DNA and RNA sequencing), proteomics analysis (i.e. nano mass spectrometric analysis), preclinical *in vitro* and *in vivo* models and technical and scientific skills in regenerative medicine and oncology.