



Seeking applicants for Marie Sklodowska-Curie Actions Postdoctoral Fellowships (MSCA-PF) at Pere Virgili Institute for Health Research (IISPV) for the PO&B group – Biomedical engineering

HOST INSTITUTION:

The Pere Virgili Institute for Health Research (IISPV) integrates the biomedical research of Camp de Tarragona and Terres de l'Ebre (Catalonia, Spain). The IISPV is the instrument provided by the university hospitals of the province of Tarragona (Joan XXIII University Hospital of Tarragona; Verge de la Cinta Hospital of Tortosa; Sant Joan University Hospital of Reus; Institute Pere Mata University Hospital of Reus) and the University Rovira i Virgili (URV), to bring together and manage biomedical research and innovation in the territory.

We are an institute committed to our society, and we promote health research in our territory with the aim of improving well-being and transferring knowledge to patients.

In 2022, IISPV renewed its commitment with Human Resources for Researchers obtaining HRS4R certification. IISPV and URV work together to promote and organize seminars and training activities applied to research, thus our staff can access to several courses. The institution is fully committed with gender dimension, open access, data management, and social impact, organizing annual workshops for these cross-cutting issues.

The institutional infrastructures are: Cell Culture Core Unit; Flow cytometry Platform; SeaHorse; Clinical trials Unit; Biobank; Histological Platform; Bioinformatics Platform; Animal Housing Facilities; Metabolomics Platform; Scientific and Technical Resource Centre (Confocal laser scanning and electron microscopy, MS MALDI TOF, etc.).



www.iispv.cat





RESEARCH GROUP:

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The PO&B team of the IISPV, based at the Hospital de Tortosa Verge de la Cinta, has been working for more than 15 years on the prevention and advanced diagnosis of cancer. Led by Marylène Lejeune, PhD and Carlos López, PhD, the PO&B team is an interdisciplinary group that includes pathologists, oncologists, biologists, biotechnologists and computer specialists, with strategic clinical and methodological skills for the development of the group's research lines.

The consolidated lines of research of the PO&B team focus on the study of the tumor microenvironment through digital image analysis and mathematical modeling. The immune response is one of the components of the tumor microenvironment that has been shown to play an important role in the evolution of cancer patients. Changes in the type and number of immune cells in the tumor microenvironment have been related to differences in disease functionality. Our team has studied these changes through the development of new computer-assisted image analysis algorithms capable of providing more accurate and reproducible automated quantification of immune biomarkers with immunohistochemical and fluorescence staining. They have leaded or participated in more than 15 national or European projects related to image analysis and cancer.

OFFER DESCRIPTION & REQUIREMENTS:

Salut/ HJ23 Hospital Joan XXIII

The main goal is to explore the interplay between tumor cells and the immune microenvironment in breast cancer (BC) using genomic and transcriptomic data. We are looking for a Biomedical scientist or related fields with experience in omics data analysis to examine different datasets through Gene Set Enrichment Analysis (GSEA)-based algorithms and deconvolution-based tools Other scopes are: (a) finding the cellular and genetic immune profile associated with poorer prognosis in BC patients, (b) characterizing the immunogenomic landscape of the metastatic and non-metastatic axillary lymph nodes, and (c) identifying the mechanisms and the signaling pathways involved.

The selected candidate will be invited to work on the proposal with Carlos López, PhD and the International Projects Unit of IISPV starting in June 2024. Therefore, it is important to have availability during the summer months for the preparation of the proposal, which opens on 23 April 2024 and closes on 11 September 2024, 17.00, CEST.

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In addition, the applicant must meet the eligibility and mobility requirements of the MSCA-PF. For eligibility:

- Have a Doctoral degree and a maximum of 8 years of full-time equivalent research experience.
- The candidate has not resided or carried out his/her main activity (e.g., work, studies) in the country of the Host Institution (Spain) for more than 12 months in the 3 years immediately prior to the reference date (exceptions to this apply under the career restart and reintegration panels).

HOW TO APPLY?

The applicant must express their interest by sending an email to <u>carlos.lopez@urv.cat</u> with the subject "**MSCA-PF Manifestation of interest - CANDIDATE NAME**" before 10th June 2024. For any technical questions, please contact Carlos López, PhD. The email must include:

- 1) Curriculum Vitae.
- 2) A brief outline of the proposed research project with defined objectives (max 2 pages).
- 3) Motivation letter.

HR EXCELLENCE IN RESEARCH

The IISPV has the European accreditation The Human Resources Strategy for Researchers (HRS4R), complies with the general principles of the European Charter for Researchers and the Code of Conduct for the recruitment of researchers.

The IISPV has an internal recruitment policy that follows the Open, Transparent and Merit-based Recruitment (OTM-R) policies. More information about the HRS4R policies implemented at the IISPV is available on the following website: https://www.iispv.cat/hrs4r-hr-excellenceresearch/

The IISPV will guarantee the right to equal opportunities and treatment, as well as the real and effective exercise of rights by people with disabilities under equal conditions with respect to other citizens, through the promotion of personal autonomy, universal accessibility, access to employment, inclusion in the community and independent living and the eradication of any form of discrimination, in accordance with articles 9.2, 10, 14 and 49 of the Spanish Constitution and the International Convention on the Rights of Persons with Disabilities and international treaties and agreements ratified by Spain. In the event of a tie, priority will be given to hiring the person with a disability.

In the event of a tie between people of different genders, the person of the least represented gender in the work group/department/service in which he joins will be hired.

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