

**PRINCIPAL INVESTIGATOR**  
**FOR PATIENT STRATIFICATION RESEARCH STUDIES IN**  
**RHEUMATIC DISEASES**  
(Ref. 2408 - TÍO)

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The Fundació IMIM and the Rheumatology Department at Hospital del Mar are seeking a **Lead Researcher** to spearhead research projects focused on the stratification of patients with rheumatic diseases. The selected candidate will drive innovative research initiatives and contribute to advancing our understanding and treatment of these conditions.

The Cellular Research Group on Inflammation and Cartilage led by Dr. Jordi Monfort has a strong multidisciplinary nature, in order to carry out quality translational research. The group's research focuses on rheumatic diseases, mainly immune-mediated diseases (such as systemic erythematosus lupus, rheumatoid arthritis or scleroderma), osteoarthritis and fibromyalgia. Its main life motive is to achieve Personalized Precision Medicine in these disease by describing predictive models that improve the monitoring and treatment of patients. Our research focuses on the identification of patients' characteristics (at molecular, cellular and clinical level) that can predict the efficacy of a treatment or the prognosis of the disease. The group works both with data from its own cohorts as well as from national and international cohorts.

The group is part of the research net of the Hospital del Mar Medical Research Institute Foundation (FIMIM) located in the Barcelona Biomedical Research Park, forming part of an international community of resident scientists with access to a wide range of cutting-edge scientific and technical services.

More information at <https://www.imim.es/programesrecerca/rct/recercacel.html>

**WE OFFER:**

- **Scientific and Logistical Support:** Comprehensive support for scientific and logistical aspects to advance your scientific career, including opportunities to apply for prestigious grants such as ERC Starting Grants, Juan de la Cierva, Sara Borrell, Beatriu de Pinós and others.
- **Collaborative Work Environment:** Opportunity to work in a dynamic and collaborative environment with professionals from various disciplines.
- **Professional Development:** Opportunities for continuous training and professional growth.
- **Participation in Innovative Projects:** Involvement in pioneering and high-impact research projects in the field of rheumatic diseases.
- **Full-time permanent postdoctoral contract,** with a gross salary in the range of 31,000-36,000 €/year, according to experience and publications provided.

- Flexibility measures, contemplated in the labour regulations of the FIMIM (teleworking, flexible working hours...)

#### **Candidate person requirements:**

- ✓ Scientific profile with special interest medicine research
- ✓ Students graduated in Biology, Biotechnology, Biomedical engineering, Health Sciences, Bioinformatician, Statistics, Mathematics, Physics, or related
- ✓ Having completed a PhD.
- ✓ Experience in prediction models, data mining and / or Machine learning.
- ✓ Proactive attitude to solve problems and develop new ideas.
- ✓ Ability to pay attention to detail, teamwork and a high level of empathy.

#### **Main Responsibilities**

- Research Project Development and leadership: Create and write a research project based on the candidate's chosen objectives within the field of rheumatic diseases. Lead and manage the research projects.
- Data Analysis: Conduct and oversee data collection, analysis, and interpretation.
- Collaboration: Work closely with multidisciplinary teams, including clinicians, researchers, and other stakeholders.
- Publication and Dissemination: Publish research findings in high-impact journals and present at scientific conferences.
- The candidate will also participate in achieving the objectives set in the projects currently ongoing. They are focused on two rheumatic pathologies: osteoarthritis (the most prevalent rheumatic disease) and systemic sclerosis (a rare disease with a prevalence <5/10,000). The candidate will be involved in the development of machine learning and deep learning algorithms applied to the description of phenotypes of subgroups of patients, and in the design of prediction models applied to the progression of the diseases.
- The candidate will participate in the design, writing and execution of future projects.
- The candidate will direct and supervise the work carried out by students (Bachelor, master and doctoral thesis students).

Those interested in this offer must apply via e-mail to [ltio@researchmar.net](mailto:ltio@researchmar.net) indicating the job reference in the subject. The application must include:

- **A cover letter with a brief description of the scientific and academic achievements accomplished.**
- **A recent resume.**
- **Two letters of recommendation or 2 work/academic references (with full address, e-mail and work telephone number).**

**Deadline for submitting CVs: 31/ 08/2024**