



## Bioinformatician in the Molecular Basis of Inflammation Team

The Molecular Basis of Inflammation Team, is recruiting a bioinformatician, to work on cell type specific nucleic acid immunity.

### Research Topic:

The Molecular Basis of Inflammation Team is interested in the study of cell type specific inflammatory responses and their intertwining with metabolic homeostasis. Inflammation is a normal reaction of the immune system in response to infections or tissue damage and plays a pivotal role in triggering adaptive immunity. However, unresolved inflammation is pervasive and fosters several etiologically distinct human pathologies that present with a broad range of symptoms. Such pathologies include cancer, auto-inflammatory and auto-immune disorders, but also metabolic diseases. With the support of the European Research Council (ERC), we will investigate

1. how chronic inflammation is triggered in metabolic cells
2. how tissue-level immunity is controlled in metabolic tissues
3. whether metabolic alterations fuel chronic inflammatory pathologies

These projects will all require the expertise of a bioinformatician for data analysis, hypothesis formulation and pipeline set up.

### Candidate profile:

The Molecular Basis of Inflammation laboratory is actively seeking to recruit a bioinformatician. Prospective candidates should have expertise in RNA sequencing data analysis and single cell and/or spatial technologies. Expertise in the proteomics and metabolomics analysis would be a plus. In addition, prospective candidates should be able to work autonomously to develop innovative ideas, but also collaborate with other lab members to promote interdisciplinarity. In addition, the recruited bioinformatician will be in tight interaction with the DarkDNA group ([darkdna.gr](http://darkdna.gr)), historic collaborator of the molecular basis of inflammation lab for in silico experimentation.

### Research environment:

The Molecular Basis of Inflammation Team recently joined the “Institut de Génétique Moléculaire de Montpellier” ([www.igmm.cnrs.fr](http://www.igmm.cnrs.fr)), a CNRS/Montpellier University center for basic research, located in the South of France. The IGMM is part of a major CNRS campus in Montpellier and enjoys tight connections with other major research centers, dedicated notably to chemistry (IBMM, ICCG), cell biology (CRBM) and infectious diseases (IRIM), as well as access to 18 platforms (<http://biocampus.cnrs.fr>). The IGMM also host excellent in-house facilities, including a bioinformatics hub, that will ease implementation of the project. The campus therefore provides an exceptional environment to foster scientific interactions. The Molecular Basis of Inflammation Team enjoys a tight network of interdisciplinary collaborators, providing ground for out of the box ideas and strategies.

### Recruitment procedure and key dates:

Applications should be sent as soon as possible (before the 1st of July 2023). The position is available from the 1<sup>st</sup> of October 2023 for 1 year and renewable. The job offer is available on the CNRS recruitment website (reference: UMR5535-NADLAG-003).

To apply, please send an email explaining your motivation, background and interests, curriculum vitae, and contact information for three references to:

Nadine Laguette : [Nadine.laguette@cnrs.fr](mailto:Nadine.laguette@cnrs.fr) or [nadine.laguette@igmm.cnrs.fr](mailto:nadine.laguette@igmm.cnrs.fr)

