



Immunosenescence - Signaling PhD position, available in Toulouse, France

A fully funded PhD position is open in the team “Integrative mapping of lymphocyte signaling and function” headed by Renaud Lesourne and Loïc Dupré at the Toulouse Institute for Infectious and Inflammatory diseases (<https://www.infinity.inserm.fr/en/>).

PhD project overview

The research program aims at identifying molecular networks governing T cell senescence and exhaustion during ageing. The selected candidate will implement a combination of high-throughput proteomic and phosphoproteomic analyses to investigate the early mechanism leading to senescent T cell activation. The gained fundamental knowledge will then be applied to better characterize responses associated with T-cell senescence and to possibly restore normal inflammatory and proliferative responses in senescent T cells.

The group focus

The project will benefit from a lab environment dedicated to the detailed mechanistic understanding of the biology of T lymphocytes in the context of health and disease. Our lab has assembled an original combination of technological expertise, mainly quantitative microscopy approaches and proteomics to unravel novel molecular mechanisms that tune lymphocyte signaling and to investigate how such mechanisms control functional responses in vivo in murine models.

Our institute

The Toulouse Institute for Infectious and Inflammatory diseases (INFINITY) provides a stimulating environment to perform state-of-the-art research in immunology and infectious diseases, with integrated on-site technological facilities. Research teams at the Center host international trainees of various nationalities, ranging from undergraduate students to postdocs. External seminars and lab meetings are held in English. The CPTP is located in Toulouse, a dynamic city in the Southwest of France, 1-hr away from Paris by plane.

Requirements and desired qualifications:

- Master's degree in Life Sciences
- Experience in cellular and molecular immunology
- Experience in molecular biology and CRISPR/Cas9 gene editing
- Background in large data processing tools
- Team-orientated personality

Please send your application with CV, a statement of interest, a brief outline of previous research and contact info for 2 references to: renaud.lesourne@inserm.fr

