

**Postdoctoral Research Fellow
Fundamental Immunology & Autoimmunity**

INFINITY – Toulouse Institute for Infectious and Inflammatory Diseases - Toulouse, France

One postdoctoral position is available in the laboratories of Dr Carole Le Coz and of Dr Nicolas Fazilleau to investigate the cellular and molecular mechanisms regulating germinal center (GC) responses and antibody-mediated immunity.

Research Project

Protective humoral immunity depends on GCs, where high-affinity antibody-producing B cells are generated. This process is orchestrated by follicular helper T (T_{fh}) cells and follicular regulatory T (T_{fr}) cells, which respectively promote and regulate B-cell responses. Although T_{fh} biology is well established, the role of T_{fr} remains poorly understood. Our recent work suggests that T_{fr} are functionally heterogeneous and adapt to tissue-specific and inflammatory environments, challenging the classical view of these cells as a uniform suppressive population.

The successful candidates will join an ambitious research program combining human samples, mouse models, high-dimensional flow cytometry, single-cell and spatial transcriptomics to characterize T_{fr} heterogeneity and determine their role in GC responses and autoimmune diseases.

Candidate Profile

Applicants must hold a PhD in Immunology, Cell Biology, Molecular Biology, or a related discipline by the start date of the position

Essential qualifications

- Strong background in immunology.
- Experience in cellular and molecular biology.
- Expertise in multicolor flow cytometry, cell culture, and transcriptomic approaches.
- Excellent organizational, communication and teamwork skills.
- Ability to work independently while contributing to a collaborative research environment.

Desirable qualifications

- Experience in bioinformatics and transcriptomic data analysis.
- Experience in advanced microscopy or cell imaging.

Research Environment

INFINITY is one of France's leading institutes in immunology, infectious diseases and inflammation, located in the vibrant city of Toulouse, in the south of France. Our laboratory is internationally recognized for pioneering work on T follicular helper and follicular regulatory T cells, offering an outstanding scientific environment, access to state-of-the-art technological platforms, and excellent opportunities for career development.

Recent publications from the teams on this topic

- Martinez et al. Sci Transl Med 2025 doi: 10.1126/scitranslmed.ady1268.
- Péralis et al. Br J Dermatol 2025 doi: 10.1093/bjd/ljae355.
- Hebert et al. Br J Dermatol 2024 doi: 10.1093/bjd/ljae220.
- Castaño D et al. Sci Immunol. 2024 doi: 10.1126/sciimmunol.adf2047
- Le Coz et al. Sci Immunol. 2023 doi: 10.1126/sciimmunol.ade8162.

Application

The method of application is via email to cure.infinity.job@gmail.com

Applicants should submit:

- A cover letter describing their research interests and motivation.
- A curriculum vitae.
- Contact information for 2–3 referees.

Applications will be reviewed as they are received and will remain open until the positions are filled.

Start date: January 2027