



## Postdoctoral Fellowship in human IgE biology / asthma

### Reber Lab at the INSERM - Center of Pathophysiology Toulouse Purpan (CPTP), Toulouse, France.

A postdoctoral position is available for an enthusiastic scientist in the laboratory of Dr. Laurent Reber to study human IgE repertoires and functions in asthma. The lab performs translational research on allergies, with a focus on human antibodies and Fc receptors, and the development of novel antibody-based therapies. We are seeking a talented postdoc to study the role of human IgE in severe asthma. Work will include study of IgE B cell repertoires using clinical samples and a new high-throughput repertoire analysis method developed in the lab, functional characterization of IgE in vitro and in vivo in a novel humanized mouse model. The project and the position are fully funded by the French ANR.

We have an international team composed of both primary researchers and clinicians specialized in asthma and allergy. Our team is part of the Center of Pathophysiology Toulouse-Purpan CPTP (<https://www.cptp.inserm.fr/en/>), a leading research institute composed of 11 research teams structured along three main themes: Immunology, inflammation and infectious diseases.

#### Selected recent publications from the lab:

- A highly sensitive bioluminescent method for measuring allergen-specific IgE in microliter samples. Goyard S, Balbino B, Chinthrajah RS, Lyu SC, Janin YL, Bruhns P, Poncet P, Galli SJ, Nadeau KC, Reber LL\*, Rose T\*. *Allergy*. **2020** May 14. (\*co-last)
- The anti-IgE mAb omalizumab induces adverse reactions by engaging Fcγ receptors. Balbino B, Herviou P, Godon O, Stackowicz J, Goff OR, Iannascoli B, Sterlin D, Brûlé S, Millot GA, Harris FM, Voronina VA, Nadeau KC, Macdonald LE, Murphy AJ, Bruhns P, Reber LL. *J Clin Invest*. **2020** Mar 2;130(3):1330-1335.
- Approaches to target IgE antibodies in allergic diseases. Balbino B, Conde E, Marichal T, Starkl P, Reber LL. *Pharmacol Ther*. **2018** Nov;191:50-64.
- Evidence that neutrophils do not promote Echiniscus carinatus venom-induced tissue destruction. Stackowicz J, Balbino B, Todorova B, Godon O, Iannascoli B, Jönsson F, Bruhns P, Reber LL. *Nat Commun*. **2018** Jun 13;9(1):2304.
- Pathways of immediate hypothermia and leukocyte infiltration in an adjuvant-free mouse model of anaphylaxis. Balbino B, Sibilano R, Starkl P, Marichal T, Gaudenzio N, Karasuyama H, Bruhns P, Tsai M, Reber LL\*, Galli SJ\*. *J Allergy Clin Immunol*. **2017** Feb;139(2):584-596.e10. (\*co-last)

**Candidate requirements:** Candidates should have a PhD and a strong background in immunology/allergy, with expertise in flow cytometry. Strong knowledge on B cells/antibodies is a plus. Motivated candidates with creative and innovative skills, as well as capacity to work within a team, are especially encouraged to apply.

**Starting Date:** January 2021.

**Applications:** in English including a cover letter, a detailed CV with publication list and references should be sent to Laurent Reber at [laurent.reber@inserm.fr](mailto:laurent.reber@inserm.fr)