

## Master's thesis position in B cell Immunology

B-cell responses are essential for humoral immunity against pathogens because they lead to the generation of antibody-secreting cells that produce large amounts of antigen-specific antibodies. These cells also have the potential to become quiescent and long-lived, which is fundamental for immunological memory against pathogens. B-cell responses are also key mediators of diseases, including allergies, antibody-mediated autoimmunity, and malignancies.

Our Group at the Institute of Allergy Research (IAF)/Center of Allergy and Environment (ZAUM) at Helmholtz Munich focuses on studying the processes of B lymphocyte activation and differentiation into effector B cells, such as antibody-secreting cells and memory B cells. **We are seeking a highly motivated Master's student to join our research team for a thesis project.**

The lab previously established an *in vivo* model system for pooled single-guide RNA (sgRNA) CRISPR/Cas9 screening, identifying several novel regulators of antibody-secreting cell development and homeostasis. The student's project will explore the function and underlying molecular mechanisms of some of these newly identified regulators using novel experimental approaches along with *in vitro* and *in vivo* mouse models.

### Student Profile

We are looking for a candidate with the following qualifications:

- Practical scientific experience and a strong theoretical background in fields such as immunology, genetics, epigenetics, molecular biology or biochemistry.
- An interest in research using mice as animal models.
- A high degree of scientific curiosity, creativity, flexibility, and enthusiasm for working in an interdisciplinary and international team.

If you have any questions, feel free to contact Dr. Lesly Calderon ([lesly.calderon@helmholtz-munich.de](mailto:lesly.calderon@helmholtz-munich.de)). **We look forward to receiving your application, including your letter of motivation, CV, the contact details of a referee, and BSc and MSc academic transcripts.**

For more information, check the **Molecular Immunology laboratory** website:

<https://www.helmholtz-munich.de/en/iaf/research-groups/rg-calderon>