



B cell Biology  
Laboratory  
PI: Andrea Cerutti  
IMIM-PRBB  
Barcelona, Spain



## **MASTER STUDENT INTERNSHIP OFFER AT B CELL BIOLOGY GROUP**

**(Ref. 2112 - CERUTTI)**

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### **OFFER**

The “B cell Biology Group” belonging to the Clinical and Translational Research Program at the Institut Hospital del Mar d’Investigacions Mèdiques (IMIM) is looking for a highly motivated **Master student** to explore the role of mucosal and systemic humoral responses in homeostasis and inflammation, under the supervision of Drs. Andrea Cerutti and Giuliana Magri.

He/she will benefit from an exciting international scientific environment, access to state of the art infrastructure, lectures and seminars, specialized scientific and technological courses, complementary skills training, as well as social activities.

### **THE LABORATORY**

The B Cell Biology Group (Cerutti/Magri lab) uses state-of-the-art cellular, molecular and in vivo techniques to address clinically relevant questions related to the regulation of antibody production by B cells. We are particularly interested in the mechanisms whereby intestinal B cells generate antibodies to commensal bacteria and how these antibodies shape the composition of the gut microbiota (Tejedor et al., J Exp Med 2021, to be submitted; Grasset et al. Science Immunology 2020; Chen/Magri, et al. Nature Rev Immunol. 2020; Magri/Comerma et al, Immunity 2017; Gutzeit et al, Immunol Rev 2014; Shan et al, Science 2013). We are also interested in the function and regulation of IgD in the respiratory tract (Tachó-Piñot et al., in preparation; Shan et al., Immunity 2018) and IgG ad IgM in the spleen (Magri et al., Nature Immunol. 2014; Puga et al., Nature Immunol. 2012). Our research recently extended to human

antibody responses to SARS-CoV2, the causative agent of COVID-19 (De Campos Mata et al., Clin Transl Immunol 2021; Tejedor-Vaquero/de Campos-Mata, Front Immunol 2021).

## LINKS

[https://www.imim.es/programesrecerca/rct/en\\_bcellbiology.html](https://www.imim.es/programesrecerca/rct/en_bcellbiology.html)

<https://www.icrea.cat/Web/ScientificStaff/Andrea-Cerutti-452>

## APPLICATION & ADMISSION

We encourage highly motivated, outstanding candidates that hold a Bachelor degree in biological or medical sciences such as biology, physics, medicine biochemistry, biotechnology computer sciences or a related subject to apply for the position. Premise of being awarded with a Master Internship is the registration and admission to an official Master Programme of their choice. Furthermore, all candidates require excellent written and spoken English skills.

We seek candidates who have excellent communication and multi-tasking skills, are team-oriented, critical, open-minded and proactive. Previous experience in a immunology Lab will be a definitive advantage.

## PROJECT SUMMARY

The broad aim of this project is to explore the phenotypic, transcriptional, clonal and functional properties of human B cell subsets from both mucosal surfaces and systemic compartments in health and disease, including inflammatory bowel disease and COVID-19.

**Enquires and applications should be sent to** Professor Andrea Cerutti ([acerutti@imim.es](mailto:acerutti@imim.es)) and Giuliana Magri ([gmagri@imim.es](mailto:gmagri@imim.es)), indicating **Master student internship 2021** in the subject.

### **The application must include the following documents in English:**

- a) A personal letter
- b) Curriculum vitae including academic scores

All applicants will be welcome irrespective of race, nationality, gender or sexual orientation.