



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



PREDOCTORAL POSITION OFFER AT B CELL BIOLOGY GROUP

(Ref. 2111 - CERUTTI)

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 **PhD 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.**

*This position offer is subjected to obtaining a competitive pre-doctoral fellowship from AGAUR, i-PFIS, LaCaixa or inPhINIT, among others. Salary will be covered using internal funds until a pre-doctoral fellowship is awarded.

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.icrea.cat/Web/ScientificStaff/Andrea-Cerutti-452>

CANDIDATE'S REQUERIMENTS

- a) Graduate or related degree in natural and medical sciences, such as biology, physics, medicine, Biotechnology or in quantitative sciences, such as mathematics, statistics or computer science.
- b) The degree must satisfy the PhD program admission requirements as established by the article 6 of Royal Decree 99/2011 of January 28th that regulates the official admission to a doctorate, modified by the Royal Decree 43/2015, of February 2nd, with the following details:
 - Undergraduate or graduate studies must be completed at the time of application.
 - In the case of degree with a minimum duration of 300 credits (ETCs), the applicants must possess the degree at the time of application.
- c) The candidate shouldn't have completed the PhD at the time of application
- a) The score of the degree must be 7,0 (on a scale of 1 to 10) or higher for bachelor degrees and 7,5 or higher for Master Degree, calculated in accordance with the criteria specified in the Royal Decree 1125/2003, of September 5th.
- b) For students that obtained their degree abroad, the Degree score must be calculated by the National Agency for Quality Assessment and Accreditation (ANECA). It is the candidate's responsibility to request this equivalence to the ANECA. Available information can be found in <http://notasmedias.aneca.es>

The candidate must be proficient in oral and written English. We seek candidates who have excellent communication and multi-tasking skills, are team-oriented, critical, open-minded and proactive. Previous experience in immunology and/or big data analysis 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) and Giuliana Magri (gmagri@imim.es), indicating **PhD call 2021** in the subject.

The application must include the following documents in English:

- a) A personal letter
- b) Curriculum vitae
- c) academic record copy

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