



## B Cells and Immunological Tolerance

Guest Editors:

**Dr. Marcos López-Hoyos**

1. Immunology Service,  
University Hospital Marqués de  
Valdecilla-IDIVAL, 39008  
Santander, Spain

2. Molecular Biology Department,  
Universidad de Cantabria, 39005  
Santander, Spain

**Dr. Ramón Merino**

Instituto de Biomedicina y  
Biotecnología de Cantabria,  
Consejo Superior de  
Investigaciones Científicas-  
Universidad de Cantabria,  
Molecular Biology Department,  
Universidad de Cantabria, 39011  
Santander, Spain

Deadline for manuscript  
submissions:

**closed (25 September 2018)**

### Message from the Guest Editors

Dear Colleagues,

The main goal of the immune system is to protect the body against foreign agents. To achieve this mission, the immune system acquires an advanced degree of specialization that allows it to recognize and neutralize any pathogen and danger signal present in the organism. On the other hand, this high degree of specialization increases the risk of systemic ruptures of the physiological mechanisms controlling immunological tolerance and anomalous or unanticipated responses are induced, as in the case of autoimmune diseases, where some "misguided" immune cells attack their own antigens (autoantigens). To counter these effects, the immune system has established a balanced equilibrium between the effector and the inhibitor mechanisms of the immune response. This issue focuses on tolerance mechanisms affecting B cell responses from the molecular level (microRNA, microbiota...) to the cellular level (apoptosis, Bregs). These are targets for the development of diagnostic and/or therapeutic approaches in human inflammatory, autoimmune or alloimmune processes.

Dr. Marcos López-Hoyos

Dr. Ramón Merino

*Guest Editors*





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maurizio Battino

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

## Contact Us

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI