

Special Issue

The Research of Macrophages in Inflammation

Message from the Guest Editors

Macrophages are involved in both innate and adaptive immune responses to regulate both acute and chronic inflammation. Macrophages have been recognized as key regulators in a variety of disease states. They are plastic and respond to their microenvironments with amazing adaptability and function, with constant interplay between phenotypes. Therefore, based on their key roles in regulating inflammation, it is important to bring together the most current information to identify gaps of knowledge that need to be filled in understanding how their many functions are regulated in order to assist and guide future research toward treating human diseases. We propose that this information is central to being able to develop new therapeutic approaches to treat chronic inflammatory diseases. This Special Issue will include studies that describe macrophage responses to endogenous and exogenous triggers, regulation of phenotypes and responses, their relationship to and involvement in trained immunity, key steps in regulating their functions, their roles in acute and chronic inflammation, and therapeutic approaches to regulate their functions.

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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.

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