

Special Issue

The Role of Dendritic Cell in Cancers and Immune Diseases

Message from the Guest Editors

Dendritic cells (DCs) are the most efficient antigen-presenting cells, and thus play a central role in immunity. Their main function is to process antigen material and present it on the cell surface to the T cells of the immune system. They act as messengers between the innate and the adaptive immune systems. Their ability to generate specific anti-tumor T cells, able to infiltrate the tumor bed and kill the target cells through cytolytic mechanisms (i.e., perforin and granzyme B), has led to the use of dendritic cells loaded with tumor antigens in several clinical studies. Moreover, the modulation of DCs can lead to defective or dysregulated T-cell-mediated immunity and subsequently decreased resistance to infectious disease, or, conversely, increased incidence of allergies or autoimmune disease. Improved knowledge on the role of the altered distribution and/or incorrect functionality of DCs may lead to an improvement in therapy for these autoimmune diseases. In this Special Issue, we invite contributions in the form of original research articles, reviews, or shorter perspective articles on all aspects related to dendritic cells and the themes above.

Guest Editors

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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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