

Special Issue

Dendritic Cell and Cancer Therapy

Message from the Guest Editor

The strategies for cancer immunotherapy have obtained mixed results mainly due to immune suppression and several immune escape mechanisms induced by tumor cells. In this regard, Dendritic Cells have become a hopeful instrument for cancer vaccines that aims to re-educate the immune system, leading to a potent anti-cancer response that is able to overcome the immunosuppressive tumor microenvironment. However, cancer cells can deregulate Dendritic Cell function by a combination of different mechanisms, including antigen down-regulation and secretion of molecules that together adjust the immune-stimulating or the immune-suppressive functional plasticity of Dendritic Cells.

Therefore, new insights will be helpful to define molecules and pathways that can modulate the performance of Dendritic Cell subsets. In particular, a better comprehension of the complex interactions occurring in the tumor microenvironment will undoubtedly improve the design of really efficient and durable immunotherapeutic approaches for tumor disease control.

Guest Editor

Dr. Domenico Galati

Haematology-Oncology and Stem Cell Transplantation Unit,
Department of Haematology and Developmental Therapeutics, Istituto
Nazionale Tumori - IRCCS - Fondazione G. Pascale, Napoli, Italia

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4052 Basel, Switzerland
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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

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