

Special Issue on
Dendritic Cells in Cancer: Understanding the Immunobiology to Improve Therapy

CALL FOR PAPERS

Antitumor immunoresponse includes both natural and adaptive mechanisms of resistance, and dendritic cells (DC) work as a bridge between these two arms of immunity. In fact, DC are essential to process and present antigens to trigger a specific lymphocyte-mediated response against tumor cells, influencing and being influenced by other cells to drive a protective response. DC are also responsible for regulating this antitumor response, in order to keep autotolerance and avoid autoimmune response. Sometimes, this regulatory role allows tumor escape, development of premetastatic niches, and tumor growth. Therefore, despite the efforts for the development of dendritic cell-based therapeutic vaccines, a deeper understanding of how DC work in tumor microenvironment and how they can be manipulated to restore antitumor immunity are required to mobilize the immune system to develop an effective antitumor response.

We invite authors to contribute for this special issue with original clinical and experimental research articles, as well as review articles on DC in cancer.

Potential topics include but are not limited to the following:

- ▶ Immunobiology of DC
- ▶ DC subsets in cancer
- ▶ DC and T subsets
- ▶ Improvement of DC vaccines
- ▶ Clinical trials on DC vaccine
- ▶ DC and gene therapy
- ▶ New strategies to improve DC function in cancer
- ▶ Combinatory therapy with chemical antineoplastic agents and DC
- ▶ Effects of immunomodulatory agents on DC in cancer
- ▶ Role of DC in tumor escape
- ▶ Tumor-infiltrating DC
- ▶ Tumor-derived suppressor/regulatory factors
- ▶ IDO, DC, and cancer
- ▶ DC and mast cells
- ▶ MDSC and DC relationship
- ▶ Influence of inflammation mediators on DC
- ▶ Checkpoint blockade
- ▶ Aging, stress, and DC in cancer
- ▶ Approaches for restoring DC functions

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jir/dcc/>.

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First Round of Reviews

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