



Mediators of Inflammation

Special Issue on **Macrophages as Tumor Disease Markers and Their Role in Tumor Immunity**

CALL FOR PAPERS

Immune cells are important part of the microenvironment with direct influence on the growth of tumor cells, angiogenesis, and remodeling of the extracellular matrix. Among these cells, macrophages are the key cells linking inflammation and tumor development and are identified as such in a number of tumor models. The tumor microenvironment is strongly influenced by the maturation and differentiation of macrophages in different states of polarization. The classical (M1) macrophages gain potential to produce the proinflammatory and antiangiogenic cytokines and destroy tumor cells while alternatively activated (M2) macrophages more often support tumor growth, invasion, migration, and its ability to metastasize. The tumor macrophages are most often activated in a way approximating M2 activation, but not fully as M2 macrophages making the use of macrophages as biomarkers much more difficult. The production of numerous proangiogenic and immunosuppressive growth factors, including EGF, TGF- β , and members of FGF and VEGF family, has been linked more precisely to M2 phenotype.

We invite investigators to contribute original research articles as well as review articles related to macrophages and their role as tumor disease markers, cells included in tumor progression and immunity in the broadest sense.

Potential topics include, but are not limited to:

- ▶ Recent development and progress identifying macrophages as the tumor biomarkers
- ▶ The role of macrophages in the pathogenesis of tumor propagation
- ▶ The physiological role of macrophages in human metabolism compared to their role in pathophysiology of the tumor associated inflammation
- ▶ The use of activated peripheral blood monocytes as biological markers due to their better accessibility
- ▶ The differences between mouse and human macrophage markers in experimental and clinical models

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/mi/mtdm/>.

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