

Special Issue

New Advances of Macrophages in Cancer

Message from the Guest Editors

Macrophages are a major component of the solid tumor microenvironment. Depending on their activation status, macrophages can exert dual influences on tumorigenesis, by either promoting tumor growth or by enhancing antitumor responses. Currently, there are two main macrophage-centered anticancer therapeutic strategies, namely: (1) depletion/re-education of disease-promoting tumor-associated macrophages (TAM), and (2) adoptive transfer of designer macrophages reprogrammed/engineered ex vivo and possessing anti-tumor activities. There is a strong hope that designer macrophages will finally deliver on the promise of adoptive cell immunotherapy for solid tumors. Macrophages and other phagocytes naturally traffic to tumors. This makes them “the perfect cell” type to reprogram for tumor-targeting purposes. This Special Issue will be dedicated to the current knowledge available on the pathophysiological role of macrophages in cancer and macrophage-centered approaches to anticancer therapy, including experimental tumor models. We welcome contributions in the form of original research articles and reviews.

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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