

Special Issue

Molecular Interactions between Cancer Cells and Tumor Microenvironment 2.0

Message from the Guest Editors

The complexity and dynamic nature of the tumor microenvironment (TME) and interaction between stromal cells and cancer cells still remains a challenge for the pre- and clinical studies of tumors. The TME has been recognized as a factor influencing the treatment resistance of radiotherapy and chemotherapy. TME components, such as cancer-associated fibroblasts (CAFs), tumor-associated macrophages (TAMs) or tumor-infiltrating lymphocytes (TILs), are associated with tumor biology and patient prognosis. They are mostly involved in cancer cell proliferation, changes in cancer cell metabolism, angiogenesis, metastasis formation or epithelial to mesenchymal transition (EMT). TME promotes tumorigenesis by secreting cytokines and initiating extracellular matrix (ECM) remodeling. ECM proteins also play an important role in the regulation of cancer cell biology, metastatic potential and patient outcome. In this 2nd Special Issue, we will discuss the biology of TME components and their interactions with cancer cells, as well as their impact on the effectiveness of therapy.

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