Special Issue

Complex Approaches to Modeling the Tumor Microenvironment

Message from the Guest Editor

This invitation is asking for significant contributions to the field of organotypic model systems, with the specific goal of mimicking the complexity of cancer biopsies. While numerous model systems exist, most of these are of a highly reductionist nature and are not capable of even remotely recapitulating the heterogeneity of genuine cancer tissues. These models typically fail to represent the composition of the tumor microenvironment. This outstanding intra- and inter-tumor heterogeneity is also pivotal for responses against the resistance of tumors to therapies, including radiation, generic cytostatic and targeted anti-cancer drugs, immune checkpoint inhibitors, and CAR-T cell therapeutics. There is an unmet need for more complex, more representative, and more physiologically relevant model systems in translational and clinical cancer research, personalized medicine, and early-stage drug discovery. The focus of contributions should be on recapitulating key aspects of the heterogeneity and complexity of solid cancers, ideally in the form of reproducible in vitro model systems and robust assay formats, allowing high-content imaging and thorough biological analyses.

Guest Editor

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Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

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