

## Special Issue

# Cancer Organoids in Basic Science and Translational Medicine

### Message from the Guest Editors

Organoids, a type of cellular 3D microstructure that can expand almost indefinitely under appropriate niche factors, are revolutionizing sample specimen collection. Following the pioneering experiments done by a few laboratories, private and public initiatives are under development for worldwide dissemination of this resource for modelling human pathologies. In the cancer field, it was demonstrated that all phases of cancer progression can be reproduced also from a single patient needle biopsy. Somatic mutations, DNA methylation, transcriptomics, drug response, drug sensitivity, and predictive biomarkers of drug response can be studied under a real, feasible, and economical personalized approach. This Special Issue aims to provide an overview of the last research on the following: (a) initiatives on biobank collection; (b) improved approaches to recreate the cancer microenvironment; (c) biomaterials to mimic the extracellular environment; (d) chip technology to mimic the human body; (e) molecular and cellular approaches to reproduce cancer; and (f) applications in cancer translational medicine.

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### Guest Editors

Dr. Flavio Rizzolio

Prof. Dr. Vincenzo Canzonieri

Dr. Lorenzo Memeo

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### Deadline for manuscript submissions

closed (30 September 2020)



## Cancers

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Samuel C. Mok

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