

Special Issue

Patient-Derived Organoids in Personalized Medicine

Message from the Guest Editor

Although classical 2D cell cultures have provided a tremendous amount of data on how cancers and other diseases are established, they do not properly model the intra- and interpatient cellular heterogeneity, characteristic for the *in vivo* situation. In addition, some diseases are difficult to model with mouse systems. The 3D organoid technology is a promising tool to solve many of these problems; it captures much of the cellular heterogeneity of the original tissue, is genetically stable, and it represents the complex architecture of the epithelial tissue of origin well. Not surprisingly, this technology has become an invaluable tool in the study of stem cells and their niche, the effect of mutations for diseases, and in finding novel drug combinations for individual cancer patients. In this Special Issue, we welcome original articles and reviews about the application of organoids in disease modelling and drug testing, in understanding the development of tissues and organs, and about methodological advancements in organoid technology.

Guest Editor

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