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Organoids Mimicking Articular Tissue

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closed (15 August 2022)

Message from the Guest Editors

Dear Colleagues,

The current Special Issue invites contributions from researchers working in the field of tissue engineering and organoids, with a focus on musculoskeletal diseases, to publish their research on organoids mimicking joint tissue organization. These models can combine various cell types participating in joint pathophysiology. Moreover, different strategies may be applied, including the use of microfluid systems or specifically designed microwells. Furthermore, submissions for research in the fields of imaging analysis and biomechanical studies are highly encouraged.

We look forward to receiving your contributions, which highlight and emphasize the research in the field of organoids.

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Message from the Editor-in-Chief

Functional human 3D tissue models are attractive platforms for disease studies, drug development and toxicity testing. They serve as a bridge between cell cultures, animal models and clinical trials. Such models are called organoids. Numerous scientists worldwide are currently researching the generation of new complex organoid models and improving culturing conditions to handle them in a way that is reproducible, cost-effective, and easy. Achieving this goal is still a major challenge, but the organoid field has developed rapidly in recent years, reaching a new level of complexity and playing a growing role in medical research. Organoids' goal is to create a platform to present new and exciting data covering all aspects of organoid, assembloid, embryoid, or organ-on-a-chip research.

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