



Applications of 3D Cell Culture in Biomedicines

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

In recent years, research on fabrication and application of living tissues and organs has been widely conducted using 3D culture techniques. In other words, a culture environment similar to a living organism can be reconstructed in vitro and created using MEMS (micro electro mechanical system) technology. In addition, it has been possible to induce pluripotent cells (ES cells and iPS cells) and tissue stem cells into target 3D models by improving culture methods and conditions. The obtained tissues and organs are expected to be applied in many fields of biomedicine, regenerative therapy, and drug discovery. Here, we call for reports on 'Applications of 3D Cell Culture in Biomedicines' in various fields of biomedicines. Examples of topics of interest include:

- 3D cultures (culture technology, biomaterials, culture device, culture device design, simulation, etc.).
- 3D tissue and organs (biomedicine, regenerative therapy, and drug discovery, in vitro, in vivo, ex vivo).

Therefore, this Special Issue seeks to publish high-quality articles, including original research and reviews.

Dr. Yoshitaka Miyamoto

Guest Editor





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Message from the Editor-in-Chief

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