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Drug Screening or Toxicology Research Based on 3D-Cultured Cell Models

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

In this Special Issue, we intend to widen our knowledge about the potential of grafting 3D cultured cell models onto the areas of drug screening and toxicology. From a fundamental hurdle in a two-dimensional (2D) cell culture approach, which is a lack of representation of the microenvironment of in vivo tissue, to date, the demand for the development of three-dimensional (3D) cell culture platforms in both/either drug screening and/or toxicology is gradually magnified. In this regard, it is confidently expected that the similarity of 3D cell cultures to in vivo tissue provides the reliability in drug screening with in-depth understanding of the toxic nature of substances. Herein, we hope that this Special Issue opens up a new promising way to underpin the capability of 3D cultured cell platforms (e.g., spheroids, hanging drop, bioreactors, cell culture scaffolds, and any of the 3D co-cultured fashions) toward either drug screening or toxicology research with a multidisciplinary approach.

- three-dimensional cell cultures
- spheroids
- scaffolds
- bioreactors
- drug screening
- toxicology

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Message from the Editor-in-Chief

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