



Modelling Human Development and Disease Using Pluripotent Stem Cell-Derived Organoids

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Message from the Guest Editor

Organoids, three-dimensional (3D) multicellular structures formed by the self-aggregation and differentiation of pluripotent stem cells, present unique opportunities to study and understand complex biology within a physiologically relevant and tractable context. Their 3D nature better represents the in vivo environment than more traditional 2D cell models, and by manipulating growth conditions and signalling factors, organoids can be generated to typify an ever-increasing variety of human organs.

This Special Issue will focus on recent advances in the generation of organoids derived from human pluripotent stem cells and the application of these organoids to the investigation of developmental biology and disease modelling. Original articles and reviews are invited from basic research studies on all aspects of human PSC-derived organoid development, and the application of organoid technology to the development of novel model systems and the interrogation of complex disease phenotypes.





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Message from the Editor-in-Chief

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