Journal of
Clinical Medicine

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New Frontiers in Neurodevelopmental Disorders

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Deadline for manuscript submissions:
closed (1 September 2021)

Message from the Guest Editors

The prevalence of neurodevelopmental disorders (NDDs) has seen a dramatic increase in the last decade due to remarkable diagnostic evolution fueled by omics approaches such as WES or WGS combined with CNV microarrays, which made it possible to identify numerous novel intellectual disability (ID) genes. The mechanisms underlying an increasing number of NDDs started to be unraveled by patient-specific iPSC–neuronal models appointing morphological, molecular, and functional "disease" biomarkers. iPSc modeling also provided the platform for high-throughput screening of myriad chemicals and candidate drugs, speeding up the discovery of eventual cures for these debilitating diseases.

This Special Issue aims to provide an update on NDDs, from diagnostic genomic and postgenomic approaches to deep patient phenotyping, iPSC-modeling for the dissection of basic pathomechanisms, and drug screening for therapeutic prospects.

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