

Brain Organoids as Tools for Modeling Human Neurodevelopmental Disorders.

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Public Summary:

This comprehensive review describes several works using human brain organoids to model diseases and environmental factors, such as emergent viruses like Zika. A critical perspective discuss how this technology could be associated with previous neuroscience methods to improve disease modeling.

Scientific Abstract:

Brain organoids recapitulate in vitro the specific stages of in vivo human brain development, thus offering an innovative tool by which to model human neurodevelopmental disease. We review here how brain organoids have been used to study neurodevelopmental disease and consider their potential for both technological advancement and therapeutic development.

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