BIOTECHNOLOGY AND BIOSCIENCES SEMINARS

**Dipartimento di Biotecnologie e Bioscienze – UNIMIB**

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# Engineering human brain organoids to study neurodevelopment and disease


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**Abstract:** Development of the human brain is a complex process involving the coordination of cell fate acquisition and tissue morphogenesis. Brain organoids are 3D models that mimic these steps *in vitro* by reproducing cell composition and tissue architecture of the developing brain. Therefore, organoids hold the potential to recapitulate features of the human brain with greater complexity than 2D models and are being increasingly used to model a variety of brain diseases. Here I will discuss the applicability of brain organoids for modeling neurodevelopmental disorders and brain infections, and current improvements of organoid technologies that will help to improve their disease modelling capacity.


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