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A New Lecture Series Focused on Induced Pluripotent Stem Cells
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CHOROID PLEXUS ORGANOID MODEL CSF SECRETION AND BARRIER FUNCTION IN THE DEVELOPING BRAIN

The choroid plexus is secretory tissue in the brain. This tissue forms a protective epithelial barrier and secretes the cerebrospinal fluid (CSF). The CSF is important for the transport of signalling molecules and for maintaining the ventricular pressure that drives brain expansion. To explore the role of the choroid plexus-CSF system in early stages of human brain development, we developed choroid plexus organoids. These organoids develop the choroid plexus and recapitulate fundamental functions of this tissue, namely secretion and formation of a tight epithelial barrier.

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