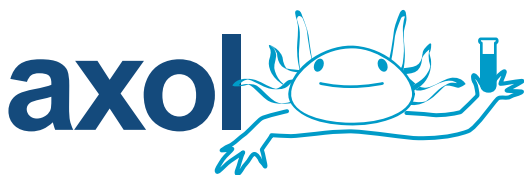


Axol Cerebral Cortical Neurons (hCCNs)



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Axol hCCNs are derived from integration-free, induced pluripotent stem (iPS) cells under fully defined neural induction conditions. These cells express typical markers of **cerebral cortical neurons**, such as Tbr1, Ctip2, Brn2 and Cux1. They are electrically active and able to form functional synapses and circuits in culture.

Cerebral cortical neurons are implicated in numerous neurological diseases including Alzheimer's disease, autism, epilepsy and stroke. Despite strong interest in these diseases, high quality human *in vitro* cell models for cortical neurophysiology have been unavailable until now. With Axol hCCNs, we provide neuroscience researchers with a high quality *in vitro* human system to complement their existing studies of cortical development, function and diseases using animal models.