CUSTOM NEURON PRODUCTION FROM PATIENT-DERIVED IPSCS

BrainXell harnesses the potential of iPSCs to model human biology and disease. With neurodevelopment expertise that is unmatched, we utilize our proprietary directed differentiation protocols to guide stem cells to the desired neuronal fate. Our mission is to bring the most relevant neuronal cell models to CNS researchers and we work with customers to design project outcomes that meet their needs.

Process Overview

- Customer acquisition of patientderived and gene-edited iPSC lines
- iPSC growth and assessment
- Induction to NEPs
- Differentiation to early NPCs
- Expansion and differentiation to late-stage NPCs
- Vialing and cryopreservation
- QC Testing and Assay Services

RELEVANT NEURONAL CELL TYPES

- Motor Neurons
- Cortical GABAergic

Medium Spiny

Mixed Cortical

- Astrocytes
- Microglia
- Cortical
 Glutamatergic
 - Layer V
 Glutamatergic

EXAMPLE PROJECTS

Cortical neurons from Niemann-Pick Disease, Friedreich's Ataxia, and NGLY1 Deficiency Medium spiny neurons from Huntington's Disease lines

Motor neurons from ALS and SMA lines



RECEIPT OF CUSTOMER IPSCS TO CRYOPRESERVED NEURONS IN 4 MONTHS

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