

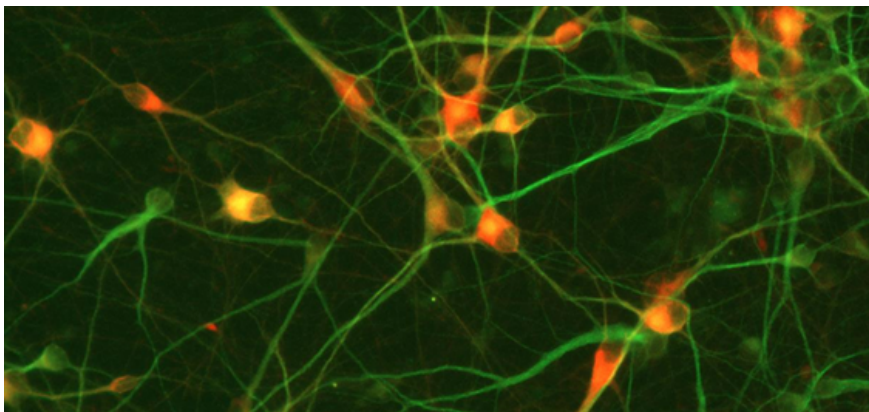
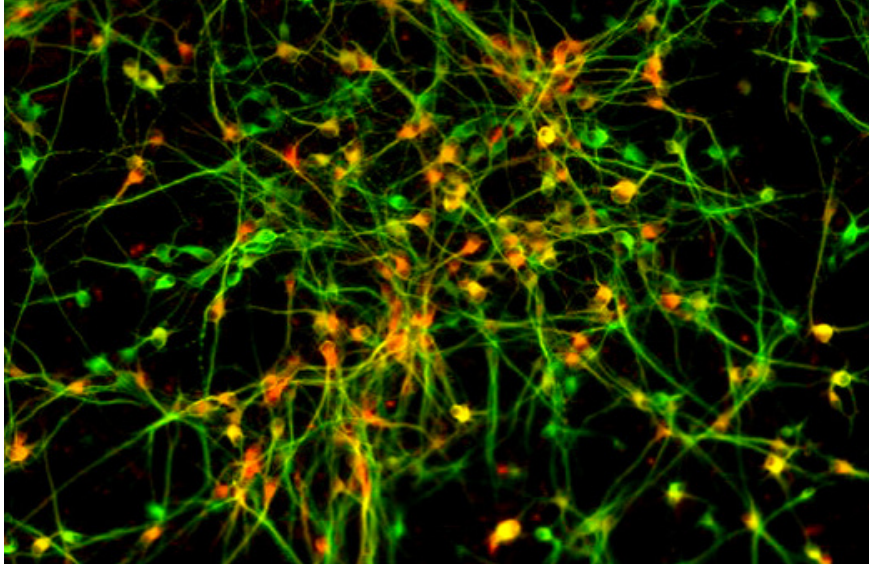


Midbrain Dopaminergic Neurons

iPSC-Derived Neurons

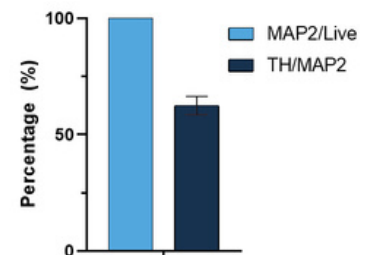
BrainXell leverages cutting-edge stem cell technology to derive high-quality dopaminergic neurons from human induced pluripotent stem cells (hiPSCs).

BrainXell's dopaminergic progenitors rapidly mature into functional neurons. After thawing and re-plating in enriched maturation media, neurite outgrowth begins within the first week. By day 14, the neurons are fully mature and can remain viable in culture for at least three weeks, offering a fast and dependable solution for neurological research.



Purity

>95% **MAP2-positive**
>60% authentic **TH+**
dopaminergic neurons.

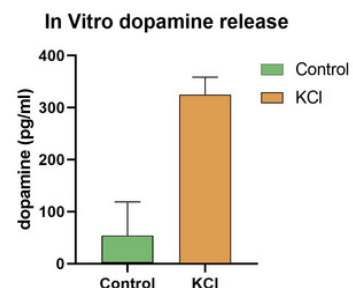


Markers

- MAP2 (ICC, mRNA profiling)
- TH (ICC, mRNA)
- OTX2 (mRNA)
- FOXA2 (mRNA)

Functional

Dopamine release by day 14 in culture.

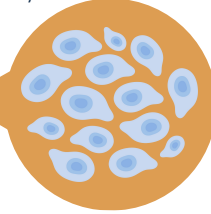


Workflow

Rapid, scalable cell prep:
Differentiation into >95% pure
dopaminergic neurons.

1 INDUCTION OF iPSCs TO A NEURAL LINEAGE

Pluripotent Stem Cells
(PSC)

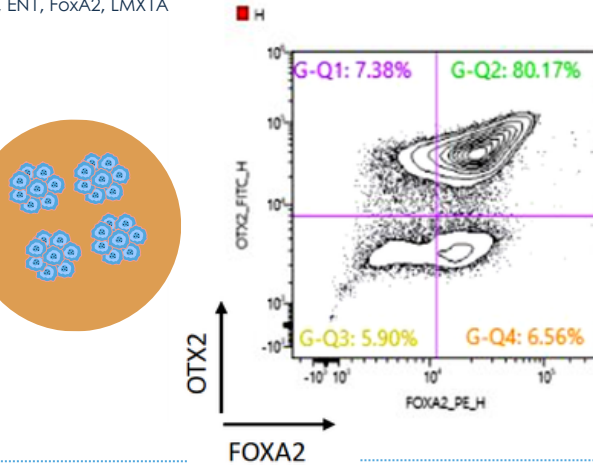


2 DRIVEN TO MIDBRAIN FLOOR PLATE

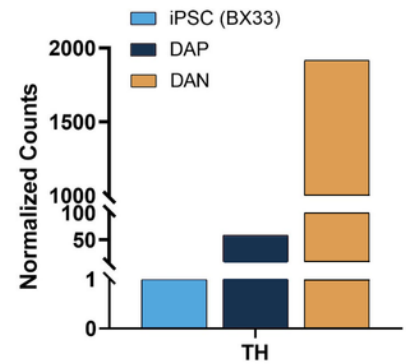
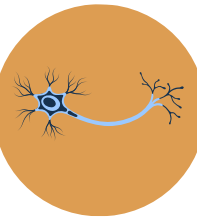


3 DIFFERENTIATION TO MIDBRAIN DOPAMINERGIC PROGENITOR

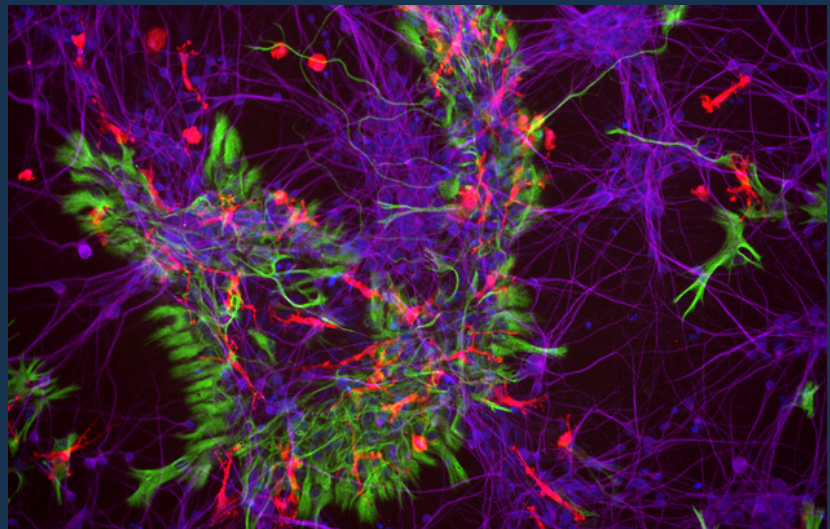
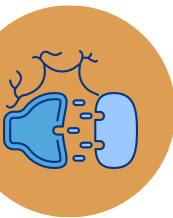
Midbrain dopaminergic progenitor (mDAP)
OTX2, EN1, FoxA2, LMX1A



4 MATURATION Midbrain Dopaminergic Neurons (mDAN) TH



5 FUNCTIONAL NEUROTRANSMITTER



CATALOG NUMBER

BX-0200-30
BX-0200-33

CELL TYPE

Midbrain Dopaminergic Neurons
Midbrain Dopaminergic Neurons

iPSC LINE

WC-30
BX-33

SEX

M
F

Get in Touch

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 **BrainXell**
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