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Do, Q. B. et al. (2023) Early striatal hyperexcitability in an in vitro human striatal microcircuit model carrying the Parkinson's GBA-N370S mutation V.1

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ABSTRACT

This collection contains eight protocols detailing methods used in Do, Q. B. *et al.* (2023) *Early striatal hyperexcitability in an in vitro human striatal microcircuit model carrying the Parkinson's GBA-N370S mutation*.

Protocol status: Working
We use this collection and it's working

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FILES

Protocol

NAME
Expansion and maintenance of human induced pluripotent stem cells (iPSCs)

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Protocol

NAME
Custom open-chamber microfluidic fabrication

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NAME
Differentiation of human Dopamine Neurons (DaNs) from induced pluripotent stem cells (iPSCs)

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Protocol

NAME

Differentiation of human cortical neurons (CNs) from induced pluripotent stem cells (iPSCs) and their coculture with rat astrocytes

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Differentiation of human medium spiny neurons (MSNs) from induced pluripotent stem cells (iPSCs

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Immunocytochemistry of cultured human Medium Spiny Neurons (MSNs)

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Visualisation and quantification of dendritic spines in cultured human Medium Spiny Neurons (MSNs)

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Whole-cell patch-clamping of cultured human neurons

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