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Do, Q. B. & Nebuloni, F. et al. (2023) A fluid walled microfluidic platform for human neuronal microcircuits and axotomy. V.1

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Abstract

This collection contains six protocols detailing methods used in Do, Q. B. & Nebuloni, F. et al. (2023) *A fluid walled microfluidic platform for human neuronal microcircuits and axotomy*.

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Protocol



NAME

 Differentiation of human cortical neurons (CNS) from induced pluripotent stem cells (iPSCs)

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

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Fabrication of fluid-walled dumbbells and generation of the human corticostriatal pathway

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Automatic flow in fluid-walled dumbbells driven by Laplace pressure

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Localised axotomy of human Cortical Neurons (CNS) from induced pluripotent stem cells (iPSCs)

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Immunostaining of corticostriatal culture on fluid-walled dumbbells

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