



Sep 28, 2024 Version 2

# 🌐 Nielsen and Ford (2024) - Reduced striatal M4-cholinergic signaling following dopamine loss differentially contributes to parkinsonian and L-DOPA-induced dyskinetic behaviors V.2

DOI

**[dx.doi.org/10.17504/protocols.io.dm6gp336jvzp/v2](https://dx.doi.org/10.17504/protocols.io.dm6gp336jvzp/v2)**

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**Collection Citation:** Beatriz E Nielsen, Christopher P Ford 2024. Nielsen and Ford (2024) - Reduced striatal M4-cholinergic signaling following dopamine loss differentially contributes to parkinsonian and L-DOPA-induced dyskinetic behaviors. **protocols.io**

**<https://dx.doi.org/10.17504/protocols.io.dm6gp336jvzp/v2>**Version created by **[Beatriz E Nielsen](#)**

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**We use this collection and it's working**

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## Abstract

This collection contains protocols detailing methods used in Nielsen and Ford (2024)-Reduced striatal M4-cholinergic signaling following dopamine loss differentially contributes to parkinsonian and L-DOPA-induced dyskinetic behaviors.

## Files

 SEARCH

### Protocol



NAME

**Stereotaxic Surgery**

**VERSION 1**

CREATED BY



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OPEN →

### Protocol



NAME

**Motor behavioral assessment**

**VERSION 1**

CREATED BY



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### Protocol



NAME

**Immunohistochemistry**

**VERSION 1**

CREATED BY



**Kelsey Barcomb**

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OPEN →

### Protocol



NAME

**6-OHDA mouse model of Parkinson's disease**

**VERSION 1**

CREATED BY



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**OPEN** →

## Protocol



NAME

**Levodopa-induced dyskinesia mouse model**

**VERSION 1**

CREATED BY



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**OPEN** →

## Protocol



NAME

**Electrophysiology and 2-photon imaging of Ca<sup>2+</sup>-transients**

**VERSION 2**

CREATED BY



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**OPEN** →

## Protocol



NAME

**Ex vivo electrophysiology**

**VERSION 1**

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## Protocol



NAME

**Western Blot**

**VERSION 1**

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## Protocol



NAME

**Acute Brain Slices**

**VERSION 1**

CREATED BY



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