



Sep 03, 2025

Co-pathology Manuscript Protocols 2025

DOI

<https://dx.doi.org/10.17504/protocols.io.j8nlky8nxg5r/v1>

Jhodi Webster¹, Asta Zane¹, Vickie Yang¹, Aidan Miller¹, Ashley Harms¹

¹University of Alabama at Birmingham



Jhodi Webster

University of Alabama at Birmingham

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.j8nlky8nxg5r/v1>

Collection Citation: Jhodi Webster, Asta Zane, Vickie Yang, Aidan Miller, Ashley Harms 2025. Co-pathology Manuscript Protocols 2025. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.j8nlky8nxg5r/v1>

Manuscript citation:

Webster, J. M., et al. (2024). "Amyloid-beta, alpha-synuclein and tau aggregated co-pathologies enhance neuropathology and neuroinflammation." [bioRxiv](https://doi.org/10.1101/2024.2010.2013.618101): 2024.2010.2013.618101.



License: This is an open access collection distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this collection and it's working

Created: August 26, 2025

Last Modified: September 03, 2025

Collection Integer ID: 225525

Keywords: ASAPCRN, neuropathology in vivo, neuropathology, neuroinflammation, flow cytometry, immunohistochemistry, methods for immunohistochemistry, immunofluorescence

Funders Acknowledgements:

Aligning Science Across Parkinson's

Grant ID: ASUB00000984

Abstract

A collection of protocols included in the study assessing the role of co-pathologies on neuroinflammation and neuropathology in vivo. This collection includes optimized methods for immunohistochemistry (IHC), immunofluorescence (IF), flow cytometry, behavior techniques and quantification methods (stereology for example) developed by members of the Harms Lab and collaborators.

Files

 SEARCH

Protocol

NAME

Mouse Stereotaxic Surgeries

VERSION 1

CREATED BY



Jhodi Webster
University of Alabama at Birmingham

OPEN →

Protocol

NAME

Brain Single Cell Isolation for Flow Cytometry

VERSION 1

CREATED BY



Jhodi Webster
University of Alabama at Birmingham

OPEN →

Protocol

NAME

Free Floating DAB Staining

VERSION 1

CREATED BY



Jhodi Webster
University of Alabama at Birmingham

OPEN →

Protocol

NAME

Free Floating IHC Fluorescent Staining

VERSION 1

CREATED BY



Jhodi Webster
University of Alabama at Birmingham

OPEN →

Protocol

NAME

Barnes Maze

VERSION 1

CREATED BY



Jhodi Webster
University of Alabama at Birmingham

OPEN →

Protocol

NAME

Pole Test

VERSION 1

CREATED BY



Jhodi Webster
University of Alabama at Birmingham

OPEN →

Protocol

NAME

Unbiased Stereology (MBF Bioscience, StereoInvestigator Software)

VERSION 1

CREATED BY



Jhodi Webster
University of Alabama at Birmingham

OPEN →

Protocol

NAME

Mouse Perfusions

VERSION 1

CREATED BY



Jhodi Webster
University of Alabama at Birmingham

OPEN →



Protocol

NAME

Cryoprotection of Mouse Brain

VERSION 1

CREATED BY

**Jhodi Webster**
University of Alabama at Birmingham[OPEN](#) →

Protocol

NAME

Serial Sectioning of Mouse Brain

VERSION 1

CREATED BY

**Jhodi Webster**
University of Alabama at Birmingham[OPEN](#) →

Protocol

NAME

Rotarod Test

VERSION 1

CREATED BY

**Jhodi Webster**
University of Alabama at Birmingham[OPEN](#) →

Protocol

NAME

TRT/SDS Sol/Insol Fractionation for Lysate prep from Mouse Brains

VERSION 1

CREATED BY

**Jhodi Webster**
University of Alabama at Birmingham[OPEN](#) →

Protocol

NAME

Western Blot

VERSION 1

CREATED BY



Jhodi Webster
University of Alabama at Birmingham

OPEN →

Protocol

NAME

Open Field

VERSION 1

CREATED BY



Ashley Adamson
University of Alabama at Birmingham

OPEN →

Protocol



NAME

🔗 Sonication of α -synuclein Fibrils for injection into the mouse brain

VERSION 3

CREATED BY



Saroj Kumar Sah
Yale University

OPEN →