



Feb 13, 2025

Version 2

Collection of protocols related to Article - Proteostasis and lysosomal repair deficits in transdifferentiated neurons of Alzheimer's disease V.2

 [Nature Cell Biology](#)

DOI

<https://dx.doi.org/10.17504/protocols.io.kxygxw4wwwv8j/v2>

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DOI: <https://dx.doi.org/10.17504/protocols.io.kxygxw4wwwv8j/v2>

External link: <https://doi.org/10.1038/s41556-025-01623-y>

Collection Citation: Ching-Chieh Chou, Judith Frydman 2025. Collection of protocols related to Article - Proteostasis and lysosomal repair deficits in transdifferentiated neurons of Alzheimer's disease. **protocols.io**

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Manuscript citation:

Chou, CC., Vest, R., Prado, M.A. *et al.* Proteostasis and lysosomal repair deficits in transdifferentiated neurons of Alzheimer's disease. *Nat Cell Biol* **27**, 619–632 (2025). <https://doi.org/10.1038/s41556-025-01623-y>

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Protocol status: Working

We use this collection and it's working

Created: February 13, 2025

Last Modified: February 13, 2025

Collection Integer ID: 120151

Keywords: ASAPCRN, lysosomal repair deficit, proteostasi, transdifferentiated neuron, disease

Funders Acknowledgements:

Aligning Science Across Parkinson's

Grant ID: ASAP-000282

Aligning Science Across Parkinson's

Grant ID: ASAP-024268

Abstract

A collection of protocols used in the study.



Files

 SEARCH

Protocol

NAME

Human primary fibroblast culture

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Protocol

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Neuronal transdifferentiation from human primary adult fibroblasts

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Lentivirus preparation for neuronal transdifferentiation

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Lentivirus preparation for neuronal transdifferentiation

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Immunohistochemistry on free-floating and paraffin-embedded tissue sections

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Cytokine profiling analysis on conditioned medium of human neurons using Luminex multiplex assay

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Caspase-3/7 activity

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Lysosomal and mitochondrial functional assays in human neurons

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Perfusion/ Fixation for cryostat slicing for HHC

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CSF Processing

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LC-MS/MS Analysis

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Chuyu Chen

Northwestern University, Aligning Science Across Parkinson's (ASAP) Collaborative Research Network, Chevy Chase, MD 20815

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Protocol



NAME

🔗 Multiplexed TMTpro proteomic sample preparation of whole cell HeLa lysates from various growth conditions ± FAC

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