

EDITORIAL NOTE

Editorial Note: Zileuton Improves Memory Deficits, Amyloid and Tau Pathology in a Mouse Model of Alzheimer's Disease with Plaques and Tangles

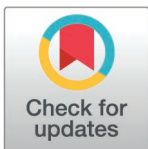
The *PLOS One* Editors

The *PLOS One* Editors issue this Editorial Note to inform readers of similarities between images originally published in this article [1] and those in three later-published articles [2–4] by some of the same authors, all of which have since been retracted.

Specifically, the following similarities were identified between panels with differently labelled samples and/or conditions:

- The AT8 3xTg-zileuton panel in Fig 3D of [1] appears similar to the AT8 htau-zileuton panel in Fig 3F of [2].
- The AT180 3xTg panel in Fig 3D of [1] appears similar to the AT180 htau panel in Fig 3F of [2].
- The MAP2 3xTg panel in Fig 4E of [1] appears similar to the MAP2 WT and MAP2 WT-zileuton panels in Fig 5C of [3].
- The PSD-95 3xTg-zileuton panel in Fig 4E of [1] appears similar to the PSD-95 WT-5LO panel in Fig 4C of [4].

The corresponding author states that the correct experimental information is reported in this article [1], which precedes other articles containing duplicate material.



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Citation: The *PLOS One* Editors (2026) Editorial Note: Zileuton Improves Memory Deficits, Amyloid and Tau Pathology in a Mouse Model of Alzheimer's Disease with Plaques and Tangles. *PLoS One* 21(5): e0349725. <https://doi.org/10.1371/journal.pone.0349725>

Published: May 20, 2026

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References

1. Chu J, Li J-G, Praticò D. Zileuton improves memory deficits, amyloid and tau pathology in a mouse model of Alzheimer's disease with plaques and tangles. *PLoS One*. 2013;8(8):e70991. <https://doi.org/10.1371/journal.pone.0070991> PMID: 23951061
2. Giannopoulos PF, Chu J, Sperow M, Li J-G, Yu WH, Kirby LG, et al. RETRACTED: Pharmacologic inhibition of 5-lipoxygenase improves memory, rescues synaptic dysfunction, and ameliorates tau pathology in a transgenic model of tauopathy. *Biol Psychiatry*. 2015;78(10):693–701. <https://doi.org/10.1016/j.biopsych.2015.01.015> PMID: 25802082
3. Giannopoulos PF, Chiu J, Praticò D. RETRACTED ARTICLE: Learning impairments, memory deficits, and neuropathology in aged tau transgenic mice are dependent on leukotrienes biosynthesis: role of the cdk5 kinase pathway. *Mol Neurobiol*. 2019;56(2):1211–20. <https://doi.org/10.1007/s12035-018-1124-7> PMID: 29881943
4. Giannopoulos PF, Praticò D. RETRACTED ARTICLE: overexpression of 5-lipoxygenase worsens the phenotype of a mouse model of tauopathy. *Mol Neurobiol*. 2018;55(7):5926–36. <https://doi.org/10.1007/s12035-017-0817-7> PMID: 29128902