

Hoau-Yan Wang Fraud: New Evidence of Serial Deceit and Editorial Failures

Jesse Brodtkin <jessebrodtkin@yahoo.com>

Fri, Jul 1, 2022 at 10:31 AM

To: "Jlerma@umh.es" <jlerma@umh.es>, "sanesslab@brown.edu" <sanesslab@brown.edu>, "tbale@som.umaryland.edu" <tbale@som.umaryland.edu>, "c.fennell@elsevier.com" <c.fennell@elsevier.com>, "J.J.Aalberg@elsevier.com" <J.J.Aalberg@elsevier.com>, "d.Georgescu@elsevier.com" <d.Georgescu@elsevier.com>, "JN_EIC@sfn.org" <JN_EIC@sfn.org>, "MARINA.PICCIOTTO@yale.edu" <MARINA.PICCIOTTO@yale.edu>, "wmusrey@ucdavis.edu" <wmusrey@ucdavis.edu>, "peter@nbang.com" <peter@nbang.com>, "rapp@mail.nih.gov" <rapp@mail.nih.gov>, "paissen@usc.edu" <paissen@usc.edu>, jacques.touchon@wanadoo.fr, "vellas.b@chu-toulouse.fr" <vellas.b@chu-toulouse.fr>, "joao.monteiro@us.nature.com" <joao.monteiro@us.nature.com>, "tomlutz@vetphys.uzh.ch" <tomlutz@vetphys.uzh.ch>, "staff@the-jci.org" <staff@the-jci.org>, "elizabeth.mcnally@northwestern.edu" <elizabeth.mcnally@northwestern.edu>, "olivier.david@inserm.fr" <olivier.david@inserm.fr>, "Jedrzej.Daszkiwicz@degruyter.com" <Jedrzej.Daszkiwicz@degruyter.com>, "john.krystal@yale.edu" <john.krystal@yale.edu>, "ADJ@kra.net" <ADJ@kra.net>, "alexander.runko@hhs.gov" <alexander.runko@hhs.gov>, "eric.bastings@fda.hhs.gov" <eric.bastings@fda.hhs.gov>, "cder-osi-gcpreferrals@fda.hhs.gov" <cder-osi-gcpreferrals@fda.hhs.gov>

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Dear Editors and Publishers -

As you are aware, concerns have been raised regarding research misconduct of Dr. Hoau-Yan Wang in thirty-two (32) papers dating back two decades, including data fabrication that has so far led to seven retractions, multiple Expressions of Concern, an investigation at CUNY, and at least three federal investigations.

We have obtained, via the NYS Freedom of Information Law, a remarkable set of emails revealing the chronology and content of many of Dr. Wang's interactions with journal editors. These documents confirm both the astonishing pattern of Wang's deceit **including the serial submission of fabricated images in response to editorial inquiries (see Appendix A), and the glaring inconsistency in how different journals have evaluated evidence and made and backpedaled on decisions, based on fabricated data provided to them.**

We commend those editors and publishers who have retracted fraudulent papers. However, **ten months** after concerns were first raised, several journals have not yet issued retractions of papers exhibiting egregious evidence of fabrication, despite new and incriminating information that has since emerged. Several journals, in fact, published misleading "corrections" and milquetoast "Expressions of Concern", and thus continue to serve as apologists and defenders of Dr. Wang's deceptions.

For all seven (7) papers which have been retracted, Dr. Wang provided editors with supposedly "original" images of "uncropped blots." Astute editors at three different journals from two publishers (Springer Nature and PLoS) observed clear evidence of fabrication in both the published manuscripts and the "original" data later provided, which called into question the integrity and reliability of data in the articles and **necessitated retraction (Appendix A)**. These determinations were made by editors and image forensics experts at the publishers. This evidence included:

- **Identical patterns of noise in the background** of images of western blots which purportedly represent completely different experiments.
- **Sharp boundaries of rectangular regions** on "original" images with different average levels of background noise.
- Absence of molecular weight markers (or lanes where they might have been present on the original gel) and other expected control experiments missing.
- **Inconsistencies between bands in published figures and the "originals" provided**, including groups of bands that are flipped in orientation, or multiple distinct experiments derived from the same "original" blot.
- **Absurd, non-scientific excuses** that did not even address the concerns raised

There are twenty-five (25) papers outstanding. **For six (6) of these papers, editors have published misleading errata and corrections, based upon and including further instances of fabricated data. In some cases, editors have explicitly stated that they have "found no evidence of manipulation", alongside figures exhibiting exactly the same kind of quantifiable evidence that three other journals concluded had justified retraction.**

We can hypothesize only six reasons to explain the glaring discrepancy in how the same fact pattern has been handled across different journals: apathy, ignorance, incompetence, stubbornness, coercion, or corruption. We do not know which of these factors are responsible.

The table below documents Dr. Wang's serial submission of fraudulent data to rebut accusations of fraud, and establishes that Dr. Wang's *modus operandi* is to deceptively manipulate images. For every paper listed, there is clear evidence (see Appendix A and links to PubPeer) of attempts to mislead, not only in the original manuscripts, but also in responses to requests for original data. This **The sheer number of problematic publications and the consistent methods and indicia of fabrication establish that Dr. Wang and his co-conspirators have intended to deceive.** That Dr. Wang continues this behavior even while a subject of federal investigations shows his incorrigible nature and highlights the urgency of action. Now that Dr. Wang's pattern of deception has been identified, quantified, and documented, not only on PubPeer, but by editors at three independent journals, it is incumbent upon **all** of you to swiftly conclude your investigations and take appropriate action.

Those editors who merely expressed concerns months ago, those who have allowed Dr. Wang to publish misleading errata, and those who have so far ignored concerns entirely must now reevaluate their positions and correct their mistakes. In light of the pattern of deception and Dr. Wang's reliance on now retracted citations, all affected papers should be retracted. We hope that seeing Dr. Wang's consistent dishonesty explicitly arrayed in the table will help you recognize his attempts at fraud in your cases and prevail upon you to complete your inquiries. We have included specific observations and recommendations in the postscript.

It appears that not all involved are aware of the multiple, ongoing investigations. We encourage each of you to contact the other recipients of this email and share the evidence you have found and obtain the evidence you need. This advice may sound elementary, but it is clear that so far, too many decisions have been taken and too much indecision has festered in silos with incomplete information, insufficient communication and a lack of transparency. It is especially problematic that at least six of the most egregiously unresolved papers and published fraudulent errata are under the same publisher. That those journals have ignored Dr. Wang's deceptions and not yet taken action is inexcusable.

Many investigators and editors seem reluctant to act. **You have the authority, institutional duty, and a responsibility to the scientific community to independently ensure the integrity of material published in your journals.** There is no requirement that any publication inquiry waits for any institutional investigation to complete before rendering a decision. Some editors have shown courage and proven this by already issuing retractions despite CUNY's dithering. Helpfully, the COPE guidelines explicitly state "the decision to correct or retract an article should be made by the journal and does not necessarily depend on an institutional finding of misconduct." Within the scientific community, multiple independent conclusions would greatly enhance confidence in the ultimate judgment of Dr. Wang's credibility.

With every day that passes without resolution, more patients enroll in sham clinical trials based on Dr. Wang's completely fraudulent work, more families are given false hope, more investors are fleeced, and the credibility of the entire field of Alzheimer's research and of your institutions deteriorates. Delaying action on the matter before you is not without cost and it is your duty to the scientific community and the public to act promptly and to stand up for scientific integrity and reality.

Sincerely,

Adrian Heilbut, PhD

Jesse Brodtkin, PhD

Table 1: Dr. Wang's Pattern of Deception

| Citation & Pubpeer Link | Journal | Physically Implausible claims | Cites retracted papers | Evidence of Data Fabrication Reported in Publication | | | | Evidence of Deliberately Fabricated "Original" Data in Responses to Editor's Inquiry | | | Status of Paper June 2022 |
|--|--|-------------------------------|------------------------|--|--------------------------------------|--|------------------------------|---|---|--|---|
| | | | | Cross paper band dupe | Photo-shopped bands or WB background | Missing or Duplicated Controls; Reagent issues | Microscopy Image duplication | Identical noise or discontinuous background in WB | Discrepancies between paper figures & "originals" | Missing controls and markers in "original" western blot images | |
| 1 Wang_2009 | PLoS ONE (PLoS) | | | | | | | | | | Retracted by Editors |
| 2 Wang_2008 | | | | | | | | | | | Retracted by Editors |
| 3 Bakshi_2011 | | | | | | | | | | | Retracted by Editors |
| 4 Bakshi_2014 | | | | | | | | | | | Retracted by Editors |
| 5 Stucky_2016 | | | | | | | | | | | Retracted by Editors |
| 6 Wang_2017 | Alz Res & Tx (BMC Springer Nature) | | | | | | | Fabricated original data as submitted to editors is now visible via FOIL | | | Retracted by Editors |
| 7 S.Wang_20210 | Mol Neurodegen (BMC Springer Nature) | | | | | | | "original" blog images had signs looking like image manipulation per Springer Nature Integrity Group Corresponding author retracted the paper | | | Retracted by Editors & Authors Article now republished without Dr. Wang and his fabrications |
| 8 Wang_2005 | Neuroscience (Elsevier) | | | | Fig 12A | Fig 2, 3, 5 | | Fig 2,3,5 | Fig 2, 3 | Fig 5 | Misleading erratum published; Expression of Concern |
| 9 Robinson_2021 | Neuroscience (Elsevier) | | | | | | | Fig 7A | Fig 4, 7 | Fig 4, 7 | Misleading erratum published; No Editorial Action |
| 10 Wang_2017 | Neurobiol Aging (Elsevier) | | | | | | | Authors' response was not made public. Editors' dismissal of image duplications is demonstrably and quantifiably wrong. Radioassay issues undercut all conclusions. | | | Many 'errors' acknowledged by editors, which undermine all results of paper No Editorial decision; waiting for CUNY |
| 11 Wang_2012 | J Neurosci (SIN) | | | | | | | Fig 9 | Fig 9 | Fig 6,9 | Misleading erratum initially accepted by Editors EoC issued Dec 2021, waiting for CUNY |
| 12 Meade_2021 | Physiol & Behavior (Elsevier) | | | | | | | No original images provided; authors merely assert that "data have not been manipulated" | | | Misleading erratum does not address issues raised |
| 13 Wang_Morain_2009 | J Neurosci (SIN) | | | | | | | ? | ? | ? | Editor-in-Chief: "No evidence of manipulation" after 94 minutes of review of submitted "original" blots. EoC issued Dec 2021; waiting for CUNY |
| 14 Bakshi_2009 | J Neurosci (SIN) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 15 Wang_2011 | J Neurosci (SIN) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 16 Wang_2010 | Biol Psych(Elsevier) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 17 Wang_2019 | Neurobiol Aging (Elsevier) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 18 Wang_2020 | JPAD | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 19 Talbot_2012 | JCI (ASCI) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 20 Hahn_2006 | Nature Medicine (Springer Nature) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 21 Wang_2011 | Translational Neurosci (De Gruyter) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 22 Wang_2020 | Molecular Psychiatry (Springer Nature) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 23 Banerjee_2015 | Molecular Psychiatry (Springer Nature) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 24 Paquette_2007 | Behavioral Pharmacology (LWW) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 25 Wang & Burns_2006 | Journal of Neurobiology (Wiley) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 26 Wang_2003 | JBC (ASBMB) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 27 Jin_2001 | Journal of Neurochemistry (Wiley) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 28 Jones_2000 | J Neurosci (SIN) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 29 Wang_2000 | JBC (ASBMB) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 30 Wang_2021 | Alzheimer's & Dementia (Wiley / AA) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 31 Largent-Milnes_2008 | Journal of Pain (Elsevier) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |
| 32 Hahn_2009 | PLoS ONE (PLoS) | | | | | | | ? | ? | ? | CONCERNS IGNORED BY EDITORS |

Collaborator Group Legend & Senior Collaborators

| | |
|--|---|
| | Pain Therapeutics / Cassava Sciences (Lindsay Burns) |
| | Servier (Bruno Vellas) |
| | Wang Lab / CUNY (Eitan Friedmann) |
| | UPenn & Rush (Chang-Gyu Hahn, Steven E Arnold, Zoe Arvanitakis, Rex Ahima, Konrad Talbot) |
| | Hamilton College (Siobhan Robinson) |

Specific Recommendations For Journal Editors and Investigators

1. Journal of Neuroscience should retract Wang, 2012 (Reducing amyloid-related Alzheimer's disease pathogenesis by a small molecule targeting filamin A), and its "Erratum". For Wang 2012, as documented on Pubpeer, the "original, uncropped" blot provided for Figure 9 was not an uncropped blot, is missing controls and markers, and

shows clear signs of fabrication. Duplicated bands in Figure 11A were not addressed, nor was the duplicated micrograph that was shifted and had its color adjusted in Figure 8 explained.

2. **Journal of Neuroscience** should immediately issue expressions of concern on Bakshi 2009 (“Reducing amyloid-related Alzheimer’s disease pathogenesis by a small molecule targeting filamin A”) and Wang 2011 (“Repetitive transcranial magnetic stimulation enhances BDNF-TrkB signaling in both brain and lymphocyte”), and fully investigate the concerns that have been raised on PubPeer and elsewhere. It is unclear why these have so far been ignored. The material provided in support of Wang 2009 should be properly assessed by experts and made available for public scrutiny, and if evidence of fabrication is found, the paper should be retracted.
3. **The Society for Neuroscience should open an independent investigation into the process by which the Journal of Neuroscience editor initially evaluated concerns and the data provided by the authors.**
 - a. How long did the “careful” review of Wang 2009 take, and who conducted that review?
 - b. How long did the review of Wang, 2012 take, and who conducted that review? Other than the authors and the editors, who else was involved in discussions and review of these papers and data provided?
 - c. What was the basis for and rationale behind issuing the statement that “No evidence of data manipulation was found for Western blot data.”? Why did the Journal of Neuroscience take the unusual step of providing this statement?
4. **Neurobiology of Aging should immediately retract Wang 2017 (“PTI-125 binds and reverses an altered conformation of filamin A to reduce Alzheimer’s disease pathogenesis”).** The editor has already conceded scores of “errors” in the radiochemistry experiments supposedly performed, and in western blots. The paper contains two figures with obviously duplicated photomicrographs or serial sections claimed to represent completely different experiments, which have now been pointed out and are easily verifiable by eye. The paper cites and critically depends on multiple fraudulent papers that have now already been retracted, which claimed to discover and establish the target of the small molecule studied (eg. Wang 2008, Wang 2016). The conclusions of the paper are thus completely unsupported, regardless of intent, and the additional context provided here further demonstrates that the misconduct in this paper was deliberate. The editor should make all of the materials that have been provided in support of the paper available for public scrutiny, as it is likely that they contain further evidence of fabrication.
5. **Neuroscience (Elsevier) should immediately retract the misleading errata provided by Wang, and retract both [Wang 2005](#) and [Robinson 2021](#).** Both of these papers, and their “original uncropped blots” exhibit clear evidence of image manipulation of the same sort present in Wang’s papers that have already been retracted by other publishers. The Editor of Neuroscience was informed on December 20, 2021, the same day that the “Editorial Note” was published, about concerns about the “original” images of blots, which were used to justify not retracting the Wang 2005 paper (as had been originally intended.) **The editor has not responded to repeated inquiries about these issues.** In the meantime, Neuroscience published its “corrigendum” for Robinson 2021, which exhibits similar evidence of fabrication.

As noted by Dr. Bik and others on PubPeer, among other issues:

In Wang 2005:

- a. Background noise in the “original” blots is statistically and visibly identical across supposedly different experiments. This is readily apparent by eye and has been quantified by multiple independent analyses on pubpeer.
- b. Bands from Wang 2005 have been copied into **three** different subsequent papers and claimed to represent different experiments.
- c. There are discrepancies between the published figures and the “original uncropped blots” from which they are supposedly derived.

In Robinson 2021:

- d. The experiment shown in Figure 7A and 7B of Robinson 2021 is impossible, because it uses as a loading control a protein (beta-Actin) that would not be present in the immunoprecipitation (anti-Arc) described. The “original” blots also do not show any of the appropriate controls that expected to have been run for this kind of experiment. Furthermore, the experiment was conducted on 24 samples, yet only one “original” blot is shown.
- e. The molecular weights of proteins on the “original” Robinson blots are incorrect and inconsistent with the published figures. Bands are copy-and-pasted from the same “original” “uncropped” blots into figures that are claimed to represent completely different experiments.

6. **The Journal for Prevention of Alzheimer’s Disease should immediately issue an Expression of Concern on [Wang, 2021 “PTI-125 Reduces Biomarkers of Alzheimer’s Disease in Patients”](#) and properly investigate the paper.** We note that Dr. Bruno Vellas, who serves on the JPAD editorial board and on the organizing committee for the parent Clinical Trials on Alzheimer’s Disease (CTAD) conference at which Cassava Sciences has presented, is a co-author with Dr. Wang and Servier on an already retracted paper, and should be recused from any investigation.
7. **Physiology & Behavior should retract the misleading Erratum for [Meade 2021](#), issue an Expression of Concern, and properly investigate the paper.** This paper exhibits the same issues including spliced bands and unusual uniform noise background as many other Wang papers.
8. **Hamilton College should initiate an investigation into the original Robinson & Wang papers, into the misleading errata, and into the College’s handling of reports of misconduct and warnings about fabrications in responses to journals.** Dr. Robinson and the Research Integrity Officer and Dean at Hamilton College were notified of concerns with the two Robinson / Wang papers in November of 2021, and specifically warned in January 2022 that Dr. Wang was fabricating data in his responses to journals. The RIO explicitly declined to investigate these concerns or take them seriously, and stated that their inquiry “will be limited to monitoring the situation with regard to Professor Robinson’s interaction with the two journals to confirm that any concerns the journals have about the research are properly addressed.” The concerns were improperly addressed.
9. **Penn Medicine, MGH, Harvard Medical School and Rush University should open their own independent investigations into all seven papers co-authored by Chang-Gyu Hahn, Steven E Arnold, and Zoe Arvanitakis with Dr. Wang with concerns flagged on PubPeer, as well as potential conflicts of interest.** We note that Dr. Arnold was a member of the Cassava Sciences Scientific Advisory Board until it was recently disbanded, as well as a co-investigator on NIH grants to Cassava Sciences. We also note that Dr. Rex Ahima, the former editor of the Journal of Clinical Investigation, is a co-author of multiple published and submitted papers with Dr. Wang and Dr. Arnold. The Journal of Clinical Investigation explicitly declined to investigate concerns about Talbot, 2012, reported to them in the Fall of 2021.
10. **CUNY, the City University of New York, should promptly complete its ongoing investigation and commit to transparently releasing a report.** In the meantime, CUNY must prevent misleading errata from being published, and ensure that evidence is neither destroyed nor fabricated.

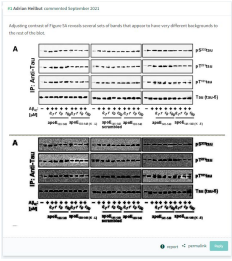
As per COPE guidelines on responding to whistleblowers we look forward to a response “ideally within 24 hours, saying that you are going to investigate” (<https://publicationethics.org/files/respond-whistleblowers-concerns-on-socialmedia-cope-flowchart.pdf>)

Wang 2017, Alz Research & Therapy → RETRACTED



RETRACTED: Increased Aβ42-α7-like nicotinic acetylcholine receptor complex level in lymphocytes is associated with apolipoprotein E4-driven Alzheimer's disease pathogenesis

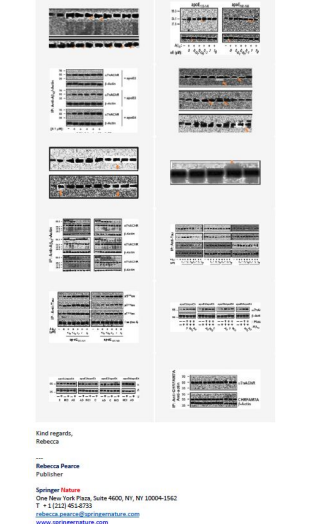
1 **Concerns Raised on PubPeer & elsewhere**



2 **Editors confirm concerns; request data**

From: Rebecca Pearce <rebecca.pearce@springer.com>
Sent: Tuesday, October 10, 2017, 12:22 PM
To: Hou-Yan Wang <houyanwang@springer.com>; Rebecca Pearce <rebecca.pearce@springer.com>
Subject: RE: Alz Res Ther 9, 54 (2017) 10.1186/s13195-017-0280-8

Dear Authors,
I am contacting you regarding concerns that have been raised regarding an article published in Alzheimer's Research & Therapy. I have reviewed the article and the concerns raised. I have made a series of checks and inconsistencies in Figures 1, 5, and 6 in the publication have been identified. I have made a series of checks and inconsistencies in Figures 1, 5, and 6 in the publication have been identified. I have made a series of checks and inconsistencies in Figures 1, 5, and 6 in the publication have been identified.

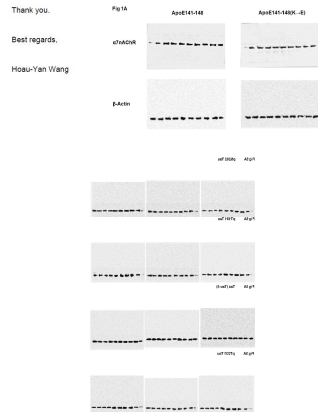


3 **"Original Blots" provided by Wang**

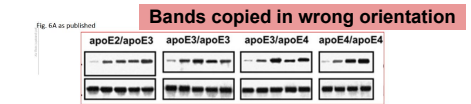
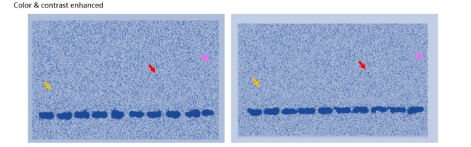
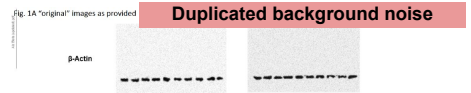
Dear Ms. Pearce,
Enclosed are the requested whole blot images used in Figures 1A, 1C, 5A, and 6A arranged according to the format presented in the published article. It should be noted that the data included in this article were collected over 9 years (2008-2016) with most of it collected before 2017. All plasma and blood cell samples were processed blind to the subjects' identities and conditions. Analysis of the raw data was performed by Seivier's statistical team, not by me or my team. We received permission to publish the results in late 2016.

As you can see from attached TIFF files, the images in the published article derived from the respective 300 dpi whole blot images without any manipulation. The images retrieved from the online article by the PubPeer are probably even lower resolution. The alleged inconsistencies and breaks could simply be artifacts of making extreme adjustments of contrast and brightness to the low-resolution images in the published article. Many factors could alter and break continuity among background pixels of low-resolution images, including streaks of a film produced by the film processor, wrinkles and folds of the plastic wrap that cover the membrane to prevent drying from influencing the background of the figure, air bubbles, trace amounts of chemiluminescent reagents and/or patches intrinsic to the nitrocellulose membranes. Such changes in background may be exaggerated during processing of the images for publication.

Regardless of the reasons for the alleged inconsistencies and breaks in our published figures, the attached whole blot images for these figures verify that the original images were not manipulated or misrepresented in any way in the published article. Indeed, no such concern was mentioned in the three rounds of peer review of the manuscript or by readers after publication.



4 **Fraud Detected by Editors in "Original" Data**



RETRACTION NOTE

Retraction Note: Increased Aβ₄₂-α7-like nicotinic acetylcholine receptor complex level in lymphocytes is associated with apolipoprotein E4-driven Alzheimer's disease pathogenesis

Hou-Yan Wang^{1,2*}, Caryn Trochim-Thibierge¹, Andrew Study^{1,2}, Sanket M. Shah¹, Jessica Kujawa¹, Amber Khan¹, Philippe Morain^{1,2}, Isabelle Guignot¹, Eva Rougier¹, Karine Desche¹, Maria Puyes¹, Elisabeth Moczer¹, Pierre-Jean Coussy¹, Bruno Verjat¹ and Vera Klyachko¹

Retraction Note: Alz Res Ther 9, 54 (2017) <https://doi.org/10.1186/s13195-017-0280-8>

The Editors-in-Chief have retracted this article following publication, concerns have been raised regarding the western blot images presented in Figs. 1, 5 and 6. The authors have provided the raw data, which have been assessed by independent experts and deemed insufficient to address the concerns. The Editors-in-Chief therefore no longer have confidence in the integrity of the data in this article.

Authors Isabelle Guignot, Eva Rougier, Karine Desche, Maria Puyes and Pierre-Jean Coussy agree to this retraction. Author Bruno Verjat agrees to this retraction but disagrees with the Retraction Note. Authors Hou-Yan Wang, Caryn Trochim-Thibierge, Elisabeth Moczer and Vera Klyachko do not agree to this retraction.

The original article can be found online at <https://doi.org/10.1186/s13195-017-0280-8>

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Bizarre Retbutal, Written By Lawyers Appeal to authority of editors of Neuroscience and J Neurosci!

October 9, 2017
Doreen D'Amico, PhD and Paul Swanson, PhD

RE: Concern on Wang et al. (2017) Increased Aβ₄₂-α7-like nicotinic acetylcholine receptor complex level in lymphocytes is associated with apolipoprotein E4-driven Alzheimer's disease pathogenesis. *Alzheimer's Research & Therapy* 9, 54 (2017) 10.1186/s13195-017-0280-8

Dear Drs. Swanson and D'Amico,

We are pleased to hear that you have reviewed our article and are concerned about the retraction. We would like to clarify some points regarding the retraction and our response.

First, we would like to express our appreciation for your review and for the attention you have given to our work. We are sorry to hear that you have concerns about the retraction. We would like to clarify some points regarding the retraction and our response.

Second, we would like to express our appreciation for your review and for the attention you have given to our work. We are sorry to hear that you have concerns about the retraction. We would like to clarify some points regarding the retraction and our response.

Third, we would like to express our appreciation for your review and for the attention you have given to our work. We are sorry to hear that you have concerns about the retraction. We would like to clarify some points regarding the retraction and our response.

Finally, we would like to express our appreciation for your review and for the attention you have given to our work. We are sorry to hear that you have concerns about the retraction. We would like to clarify some points regarding the retraction and our response.

Wang S 2021, Molecular Neurodegen → **RETRACTED**



Retraction Note: Calcium-dependent cytosolic phospholipase A2 activation is implicated in neuroinflammation and oxidative stress associated with ApoE4



“So yes, Dr. HY Wang did provide a few images that he said were the original blot images; and no, we don’t think so.”

Thank you for reach out to us. This message is to address the inquiry you sent to our Editor-in-Chief, Dr. Bu.

For you question, "*Can you clarify whether or not the journal received any raw data from the authors*", a short answer is yes and no. The data of the integrity concern is Fig 9 of the paper, which was added in revision to address reviewers' concerns, and these data were not produced in Dr. Yassine's lab, but a "newly added" author for that round of submission, Dr. HY Wang from the City College of New York. When the potential integrity issue was called to our attention, Dr. Yassine requested the original blot images from Dr. HY Wang for MN's editorial team and Springer Nature's Research Integrity Group to examine. Unfortunately, these "original" blot images from Dr. HY Wang also had visible signs very much looking like image manipulation, and Dr. Wang said he couldn't find other images from the repeated experiments. So, yes, Dr. HY Wang did provide a few images that he said were the original blot images; and no, we don't think so.

By the way, Dr. Yassine also provided original blot images in Fig 1-8 that were produced in his lab; and those have passed our scrutinization.

After reviewing the "original" blot images provided by Dr. HY Wang, all the authors, editors, and our publisher agreed retraction is the right call in this case.

Hope this answers your question.

The PLoS Five → RETRACTED



1 Concerns Raised in CP and PubPeer

Naloxone's Pentapeptide Binding Site on Flavin A Blocks Mu Opioid Receptor-Gs Coupling and CREB Activation of Acute Morphine
 Xiao-Yu Wang, Lindsey H. Stern
 Published: January 27, 2009 • <https://doi.org/10.1371/journal.pone.0009102>

| Title | Authors | Metrics | Comments | Media Coverage |
|------------|---------|---------|--|----------------|
| Retraction | | | Retraction Following the publication of this article [1], concerns were raised regarding results presented in Figs 1, 2, and 3. Specifically: 1. In the first MOR panel on the left side of Fig. 2A, the density of background noise just below the results presented in lanes 1, 2, and 3 is the density of background noise immediately surrounding the band in lane 4. This is not apparent in the background image immediately above the band in lane 4. 2. In the first MOR panel on the right side of Fig. 2A, the density of background noise just below the results presented in lanes 1-2 is the density of background noise immediately surrounding the band in lane 3. 3. In the first MOR panel on the right side of Fig. 2A, when levels are adjusted, there appears to be a vertical impugnant suggestion of a splice line between the results presented in lanes 1-2 and lanes 3-7. 4. In an image of "MOR2 panel" of Fig. 5A, when levels are adjusted, there appears to be a vertical impugnant suggestion of a splice line between the results presented in lanes 1-2 and lanes 3-7. The first author confirmed that the WANG + Naloxone MO result was unfortunately mislabeled as MOR1. The WANG + Naloxone MO result was provided as a separate image. The first author explained that the concerns raised with the Fig. 2A and 2A MOR panels and the Fig. 2A MOR panel, stating that each panel was obtained from a single blot and the observed impugnant were likely due to image compression artifacts. | |

2 Editors confirm concerns; request data

High-Affinity Naloxone Binding to Flavin A Prevents Mu Opioid Receptor-Gs Coupling Underlying Opioid Tolerance and Dependence
 Xiao-Yu Wang, Lindsey H. Stern
 Published: February 4, 2008 • <https://doi.org/10.1371/journal.pone.0009104>

| Title | Authors | Metrics | Comments | Media Coverage |
|------------|---------|---------|--|----------------|
| Retraction | | | Retraction Following the publication of this article [1], concerns were raised regarding results presented in Figs 1 and 7. Specifically: 1. There appear to be horizontal and vertical impugnant suggestion of a splice line on the following panels: - Between lanes between lanes 4-5 of the Fig. 1A left and right FLN, panels, right MOR panels, and left and right Gs panels. - Between the 52-30A and the 50-4A marker of the Fig. 1A left MOR panel. - Between lanes 1-3 of the Fig. 7A Morphine + NLX + FLN, FLN, and Gs panels. - Around multiple bands presented in the Fig. 7A MOR and Gs panels. 2. Fig. 7C, neither the published panel nor the underlying data provided to follow-up discussion includes a positive control sample. The absence of a positive control calls into question the reliability of the results presented in Fig. 7C. 3. The Fig. 7A NLX and FLN, FLN, and Gs panels appear similar. The corresponding author noted that the Fig. 7A NLX and FLN, FLN, and Gs panels were inadvertently duplicated and provided a replacement panel for the FLN, FLN, and Gs panels. However, the corresponding author disagreed with the Fig. 7A concerns, stating that the observations are likely the result of image compression artifacts. The corresponding author provided image data to support the correlated western blot results in this [1] and other PLoS ONE articles [2-5]. Per PLoS' assessment of the data files, the pixel patterns in background areas of blot images provided for multiple panels in [1-5] appear more similar than would be expected for data obtained in independent experiments. Furthermore, the corresponding data files did not contain positive controls as needed to verify the reliability of the results. In response to these concerns, the corresponding author stated that the repetitive features in the background areas of the image data are likely the result of scanner artifacts. The explanation given for the background image similarities did not resolve the journal's concerns as to the PLoS ONE assessment of the data files. The data and comments provided did not resolve the concerns about the integrity and reliability of data presented in this article. In light of these issues, the PLoS ONE Editors elected to retract this article. HWY did not agree with the retraction. HWY stated in the article's footnote: HWY did not agree with the retraction. HWY stated in the article's footnote: I do not request or could not be retracted. HWY stands by the article's findings. 30 Mar 2022: The PLoS ONE Editors (2022) Retraction: High-Affinity Naloxone Binding to Flavin A Prevents Mu Opioid Receptor-Gs Coupling Underlying Opioid Tolerance and Dependence. PLoS ONE. 17(3): e0268927. https://doi.org/10.1371/journal.pone.0268927 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8927192/ https://www.researchprotocols.org/2022/1/e268927 | |

3 "Original Blots" provided by Wang

Prenatal Cocaine Exposure Increases Synaptic Localization of a Neuronal RASGEF, GRASP-1, in Hyperphosphorylation of AMPAR Anchoring Protein, GRIP
 Nahid Bakhsh, Mary Yessouli, Richard E. Nagler, Eileen Frawley, Heather Yang
 Published: November 27, 2011 • <https://doi.org/10.1371/journal.pone.0028850>

| Title | Authors | Metrics | Comments | Media Coverage |
|------------|---------|---------|--|----------------|
| Retraction | | | Retraction Following the publication of this article [1], concerns were raised regarding results presented in Figs 1, 2, 4, and 5. Specifically: 1. There appear to be horizontal and vertical impugnant suggestion of a splice line on the following panels: - Fig. 1C, lanes 1-3 and 4-6 of the Caspase-3 panel. - Fig. 2A, just above the 50kDa marker of the GRASP-1 panel. - Fig. 2A, just above each individual band in the GRASP-1 panel. - Fig. 2A, between lanes 7-8 of the GRASP-2 panel. 2. Further impugnant have been observed in the background of the following panels: - Fig. 2A Right panel, near the lower right edge of the panel there appears to be a horizontal gradient of a darker band. - Fig. 3C, where the published panel nor the underlying data provided to follow-up discussion includes a positive control sample. The absence of a positive control calls into question the reliability of the results presented in Fig. 3C. The corresponding author noted that the Fig. 2A NLX and FLN, FLN, and Gs panels were inadvertently duplicated and provided a replacement panel for the FLN, FLN, and Gs panels. However, the corresponding author disagreed with the Fig. 7A concerns, stating that the observations are likely the result of image compression artifacts. The corresponding author provided image data to support the published western blot results in this [1] and other PLoS ONE articles [2-5]. Per PLoS' assessment of the data files, the pixel patterns in background areas of blot images provided for multiple panels in [1-5] appear more similar than would be expected for data obtained in independent experiments. Furthermore, the corresponding data files did not contain positive controls as needed to verify the reliability of the results. In response to these concerns, the corresponding author stated that the repetitive features in the background areas of the image data are likely the result of scanner artifacts. The explanation given for the background image similarities did not resolve the journal's concerns as to the PLoS ONE assessment of the data files. The data and comments provided did not resolve the concerns about the integrity and reliability of data presented in this article. In light of these issues, the PLoS ONE Editors elected to retract this article. HWY did not agree with the retraction. HWY stated in the article's footnote: I do not request or could not be retracted. HWY stands by the article's findings. 30 Mar 2022: The PLoS ONE Editors (2022) Retraction: Prenatal Cocaine Exposure Increases Synaptic Localization of a Neuronal RASGEF, GRASP-1, in Hyperphosphorylation of AMPAR Anchoring Protein, GRIP. PLoS ONE. 17(11): e0268920. https://doi.org/10.1371/journal.pone.0268920 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8920192/ https://www.researchprotocols.org/2022/1/e268920 | |

4 Fraud Detected by Editors in "Original Data"

Prenatal Cocaine Exposure Uncouples mGluR1 from Homer1 and Gq Proteins
 Nahid Bakhsh, Mary Yessouli, Richard E. Nagler, Eileen Frawley, Heather Yang
 Published: March 15, 2014 • <https://doi.org/10.1371/journal.pone.0098861>

| Title | Authors | Metrics | Comments | Media Coverage |
|------------|---------|---------|--|----------------|
| Retraction | | | Retraction Following the publication of this article [1], concerns were raised regarding results presented in Figs 1 and 2. Specifically: 1. The Fig. 2A Frontal cortex Homer1 panel, there appears to be a horizontal discontinuity in the background above the bands in lanes 1 and 2, as well as horizontal and vertical discontinuities across the top band in lane 4. 2. The band in the fourth lane of the Fig. 2A Frontal cortex mGluR1 panel appears similar to the band in the first lane of the Fig. 5A Frontal cortex mGluR1 panel. 3. The bands in lanes 2 and 3 of the Fig. 2A Hippocampus mGluR1 panel appear similar to the bands in the Fig. 2A Hippocampus mGluR1 panel. The corresponding author disagrees with the concerns raised by Fig. 2 and 5. Regarding the impugnant in the Fig. 2A Homer1 panel, the corresponding author suggests that the observed impugnant are likely the result of image artifacts or experimental artifacts such as reagent remnants or patches intrinsic to the membrane. If otherwise, the corresponding author stated that the mGluR1 panels presented in Figs. 2A and 5A were obtained from separate blots. The corresponding author provided image data to support their published result in this [1] and other PLoS ONE articles [2-5]. Per PLoS' assessment of the data files, the pixel patterns in background areas of blot images provided for multiple panels in [1-5] appear more similar than would be expected for data obtained in independent experiments. The corresponding author stated that the repetitive features in the background areas of the underlying data are likely the result of scanner artifacts. The data and comments provided to PLoS did not resolve the concerns about the integrity and reliability of the reported data. In light of these issues, the PLoS ONE Editors elected to retract this article. HWY did not agree with the retraction and stands by the article's findings. RR, RP, SKG, MW, and EF either did not request directly or could not be retracted. 30 Mar 2022: The PLoS ONE Editors (2022) Retraction: Prenatal Cocaine Exposure Uncouples mGluR1 from Homer1 and Gq Proteins. PLoS ONE. 17(3): e0268928. https://doi.org/10.1371/journal.pone.0268928 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8928192/ https://www.researchprotocols.org/2022/1/e268928 | |

5 Editorial Retractions

Prenatal Cocaine Exposure Upregulates BDNF-TrkB Signaling
 Nahid Bakhsh, Mary Yessouli, Richard E. Nagler, Eileen Frawley, Heather Yang
 Published: August 19, 2014 • <https://doi.org/10.1371/journal.pone.0102862>

| Title | Authors | Metrics | Comments | Media Coverage |
|------------|---------|---------|--|----------------|
| Retraction | | | Retraction Following the publication of this article [1], concerns were raised regarding results presented in Figs 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, and 9A. Specifically: 1. The following concerns were raised: - The Fig. 1A Hippocampus and Frontal Cortex BDNF panels and the Fig. 2A Hippocampus and Frontal Cortex p44/p42 panels. - The Fig. 3A Hippocampus Homer1 panel and the Fig. 4A Hippocampus Homer1 panel. - The Fig. 5A Hippocampus mGluR1 panel and the Fig. 6A Hippocampus mGluR1 panel. - The Fig. 7A Prostate cells in the panel of the Fig. 7A Prostate cells mGluR1 panel. - The Fig. 8A Prostate cells in the panel of the Fig. 8A Prostate cells mGluR1 panel. - The Fig. 9A Prostate cells in the panel of the Fig. 9A Prostate cells mGluR1 panel. 2. When levels are adjusted, there appears to be a vertical impugnant suggestion of a splice line between the results presented in lanes 1-2 and lanes 3-7. 3. The Fig. 1A Hippocampus Homer1 panel, there appears to be a horizontal discontinuity in the background above the bands in lanes 1 and 2, as well as horizontal and vertical discontinuities across the top band in lane 4. 4. The band in the fourth lane of the Fig. 2A Frontal cortex mGluR1 panel appears similar to the band in the first lane of the Fig. 5A Frontal cortex mGluR1 panel. 5. The bands in lanes 2 and 3 of the Fig. 2A Hippocampus mGluR1 panel appear similar to the bands in the Fig. 2A Hippocampus mGluR1 panel. The corresponding author disagrees with the concerns raised by Fig. 2 and 5. Regarding the impugnant in the Fig. 2A Homer1 panel, the corresponding author suggests that the observed impugnant are likely the result of image artifacts or experimental artifacts such as reagent remnants or patches intrinsic to the membrane. If otherwise, the corresponding author stated that the mGluR1 panels presented in Figs. 2A and 5A were obtained from separate blots. The corresponding author provided image data to support their published result in this [1] and other PLoS ONE articles [2-5]. Per PLoS' assessment of the data files, the pixel patterns in background areas of blot images provided for multiple panels in [1-5] appear more similar than would be expected for data obtained in independent experiments. The corresponding author stated that the repetitive features in the background areas of the underlying data are likely the result of scanner artifacts. The data and comments provided to PLoS did not resolve the concerns about the integrity and reliability of the reported data. In light of these issues, the PLoS ONE Editors elected to retract this article. HWY did not agree with the retraction and stands by the article's findings. RR, RP, SKG, MW, and EF either did not request directly or could not be retracted. 30 Mar 2022: The PLoS ONE Editors (2022) Retraction: Prenatal Cocaine Exposure Upregulates BDNF-TrkB Signaling. PLoS ONE. 17(3): e0268929. https://doi.org/10.1371/journal.pone.0268929 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8929192/ https://www.researchprotocols.org/2022/1/e268929 | |

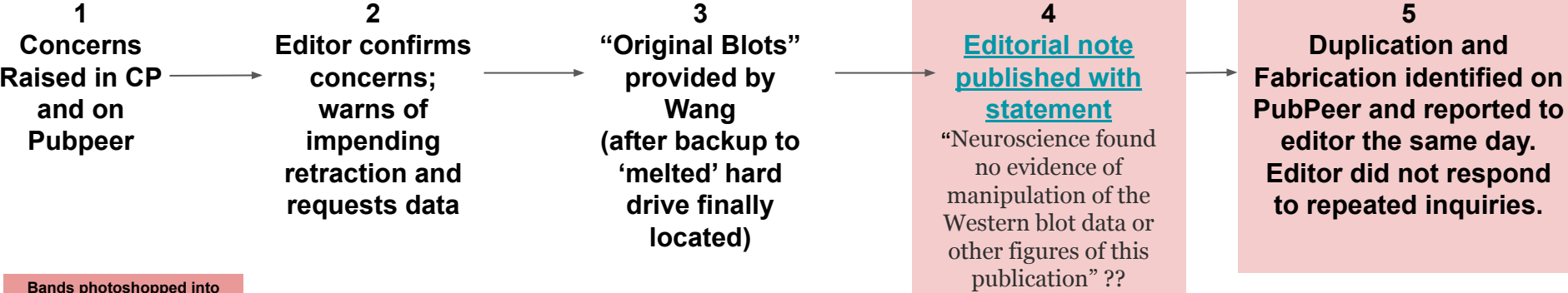
"The corresponding author provided image data to support their published result in this [1] and other PLoS ONE articles [2-5]. Per PLoS' assessment of the data files, the pixel patterns in background areas of blot images provided for multiple panels in [1-5] appear more similar than would be expected for data obtained in independent experiments. The corresponding author stated that the repetitive features in the background noise of the underlying data are likely the result of scanner artifacts."

- Duplicated background noise
- Differences in background around certain bands
- Missing controls
- Data provided did not match figure in paper

Wang, 2005 Neuroscience (Elsevier)



Ultra-low-dose naloxone suppresses opioid tolerance, dependence and associated changes in mu opioid receptor-G protein coupling and Gbetagamma signaling



Bands photoshopped into THREE subsequent papers representing different experiments

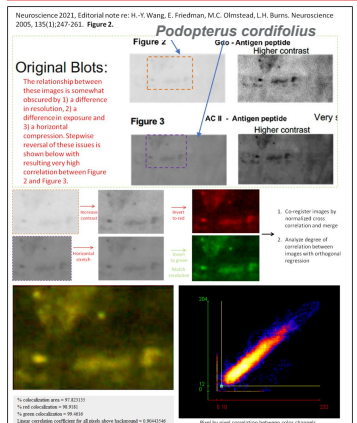
Bands duplicated within paper

Rectangular backgrounds around copy/pasted bands

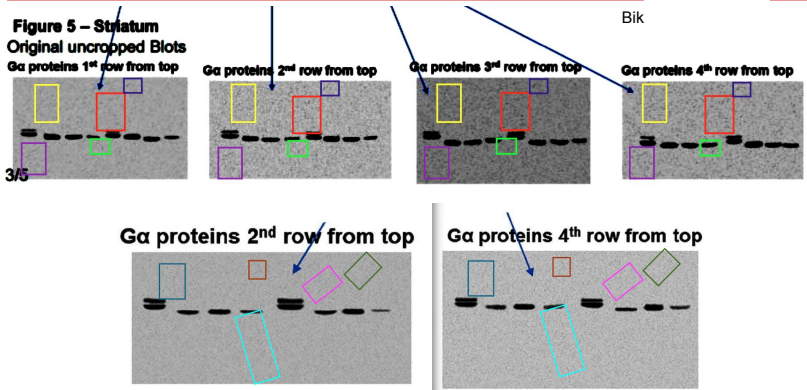
Linear cuts in pasted bands

Meanwhile, on PubPeer

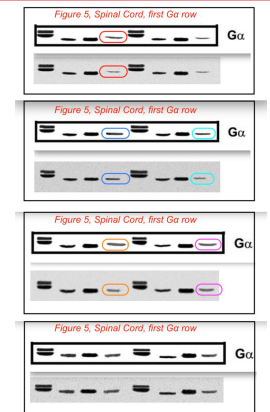
Duplicated background noise



Duplicated background noise



Inconsistencies with original data



Wang 2017, Neurobiology of Aging (Elsevier)

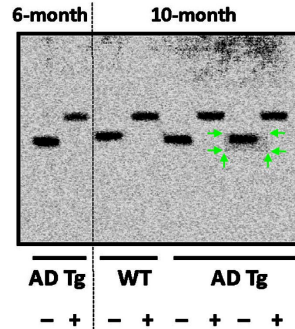
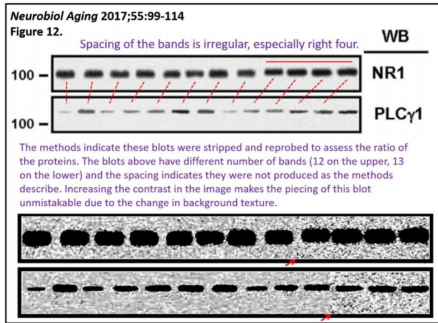


1
Concerns
Raised in CP
and on Pubpeer

2
Additional concerns raised
in CP supplements
Impossible radiochemistry.
Editor warned about
fabrications.

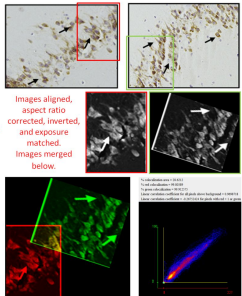
3
?

4
Editor issues
“Expression of Concern”
with statement that “the editors did not find
compelling evidence of data manipulation
intended to misrepresent results” despite
almost everything in paper being an “error” ??
“original data” not shown.
Obvious microscopy image duplications denied
or not addressed at all.



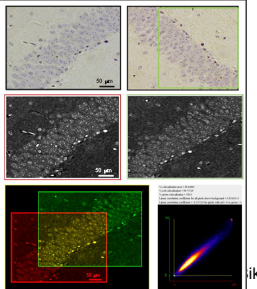
Wang HY, Lee KC, Pei Z, Khan A, Bakshi K, Burns LH. **PTI-125 binds and reverses an altered conformation of filamin A to reduce Alzheimer's disease pathogenesis.** Neurobiol Aging. 2017 Jul;55:99-114. Figure 6.

There is an overlapping corner in these two images (original images in upper panels). To prove the sameness of these images, they were converted to monochromatic images and assigned a color. When the red and green images are the same, the merged image will look yellow. The degree of sameness can be quantified. Pearson correlation coefficient is 0.97 for the shared portion of the images. This is an exceedingly high degree of correlation.



Wang HY, Lee KC, Pei Z, Khan A, Bakshi K, Burns LH. **PTI-125 binds and reverses an altered conformation of filamin A to reduce Alzheimer's disease pathogenesis.** Neurobiol Aging. 2017 Jul;55:99-114. Figure 7.

There is an overlapping zone in these two images (original images in upper panels). To prove the sameness of these images, they were converted to monochromatic images and assigned a color. When the red and green images are the same, the merged image will look yellow. The degree of sameness can be quantified. Pearson correlation coefficient is 0.95 for the shared portion of the images. This is an exceedingly high degree of correlation.



Expression of Concern: Wang et al., (2017) PTI-125 binds and reverses an altered conformation of filamin A to reduce Alzheimer's disease pathogenesis. Neurobiol. Aging, 55:99-114

A reader has made the editors aware of concerns regarding the above-referenced report published at Neurobiology of Aging. These issues were conveyed to the authors, who provided a detailed response, including images of relevant uncropped western blots and photomicrographs, as the editor requested. The material was evaluated by an independent expert with relevant methodological expertise, the manuscript was scanned by AI-based figure proofing software (i.e., Proofs), and all available input was considered by the handling editor and Editor-in-Chief. Overall, the editors did not find compelling evidence of data manipulation intended to misrepresent the results. However, the following errors in the primary report were identified during the course of the evaluation:

- The commercial catalog number listed for the primary antibody against α7 nicotinic receptor is incorrect.
- The specific activity of the C¹⁴-PTI-125 is incorrect.
- The filamin A (FLNA) concentration in the binding assay is incorrect.
- The scintillation counter used to assay C¹⁴ was not properly calibrated or configured for the C¹⁴ radioisotope, and the absolute values reported are not reliable.

- In Figure 7, the 10-month-old HP panel for the WT - PTI-125 group is duplicated as the 6-month-old HP panel for the WT - vehicle group.
- Labeling in the key to Figure 12, lane 8, is incorrect.
- NR1 loading controls in Figure 12 were not measured from stripped re-probed gels as indicated in the published report; they were run on separate gels and one lane was omitted in Figure 12.
- Whereas the composition of Figure 12 suggests that all conditions were run on the same gel, conditions were in fact split across two gels (without internal controls or repeats).

The authors have requested a corrigendum to correct these issues. However, Neurobiology of Aging is aware of an ongoing inquiry of these and other concerns by the sponsoring institution, the City University of New York (CUNY), and will make a final decision as to appropriate corrective action once that inquiry has been concluded.

Robinson, 2021 Neuroscience (Elsevier)



1
Concerns Raised on Pubpeer

2
Editors and Research integrity Officers **warned** about fabrication in other Wang "corrections"

3
?

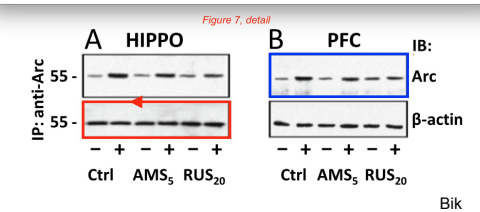
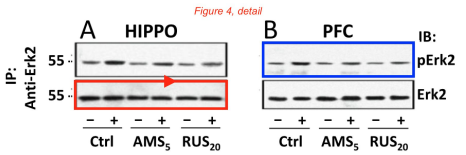
4
"Corrigendum"

- Duplicated background noise
- Differences in background around certain bands
- Missing controls; impossible experiments
- Data provided did not match figure in paper

5
Fabrication of data in "corrigendum" documented on PubPeer and reported to editor.

Editor did not respond to inquiries. No EoC.

The "Flipped Hippo"

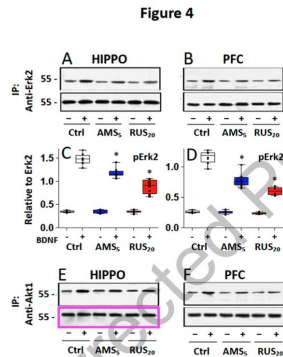


Bands duplicated within paper

Linear cuts in pasted bands

Corrigendum

S. Robinson et al. / Neuroscience xxx (2022) xxx-xxx



S. Robinson et al. / Neuroscience xxx (2022) xxx-xxx

Corrigendum

Figure 7

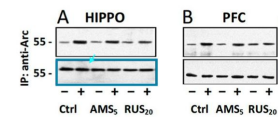


Figure 7A – uncropped blot

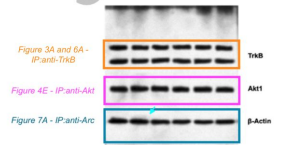
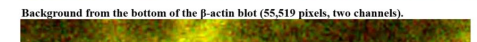
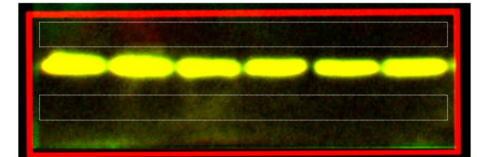
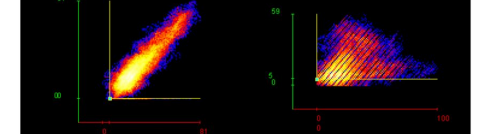


Figure 7.



Linear correlation coefficient for all pixels above background = 0.19162594

Linear correlation coefficient for all pixels above background = 0.11952095



Wang 2012, Journal of Neuroscience

Reducing Amyloid-Related Alzheimer's Disease Pathogenesis by a Small Molecule Targeting Filamin A



1
Concerns
Raised in CP
and on
[Pubpeer](#)

2
?

3
Editor publishes erratum and provides
(but does not publish) an unprecedented
statement to Cassava Sciences that “No
evidence of data manipulation was found
for Western blot data.” Almost
immediately, evidence of manipulation in
the “original, uncropped” errata figures
noted on PubPeer

4
Evidence of fabrication
noted on PubPeer.

Editor does not publish
responsive
eLetters

Expression of Concern
published Dec 17, 2021

No further action taken
since

Fabricated erratum
remains published.

Bands duplicated within paper

Rectangular backgrounds around
copy/pasted bands

Linear cuts in pasted bands

Photomicrographs duplicated

Hou-Yan Wang et al., J Neuroscience (2012),
doi: 10.1523/jneurosci.0354-12.2012
Erratum, November 2021

Published, cropped Figure 9A

Original, uncropped Figure 9A, with two extra bands

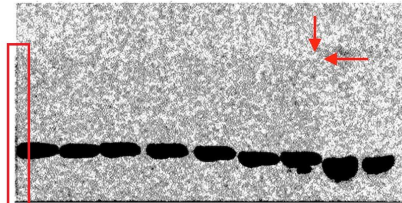


Figure 9.

Cassava Sciences issues [press release](#) with statement
declaring “no evidence of data manipulation” attributed
to JNeurosci Editors, 9am, November 4 2021

Wang 2009, Journal of Neuroscience



Dissociating beta-amyloid from alpha 7 nicotinic acetylcholine receptor by a novel therapeutic agent, S 24795...

1
Concerns
Raised in CP
and on
Pubpeer

2
?

3
Nov 3 2021, 3:37pm
Wang provides EIC
with “original,
uncropped” blot
images

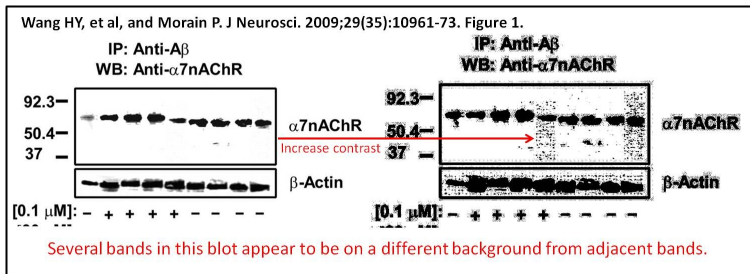
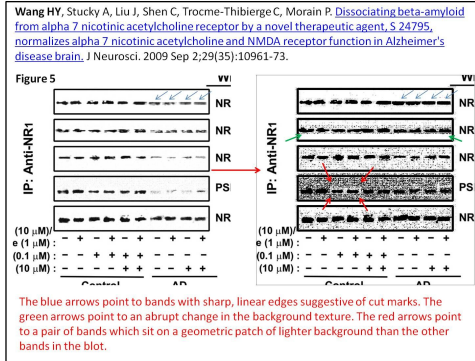
4
Editor-in-chief
replies
94 minutes later,
stating in email:
“Thank you for
forwarding the
images of the
uncropped
Western blots for
this article. I have
reviewed them
carefully
and agree that
there is no
evidence of data
manipulation.””

5
Expression of concern
published December 17

No action since.

Submitted “original”
data never published.

No EOC on [Wang 2011](#)
No EOC on [Bakshi 2009](#)



November 4th, 9am: Cassava halts stock;
issues press release proclaiming JNeurosci statement
about Wang 2012 paper