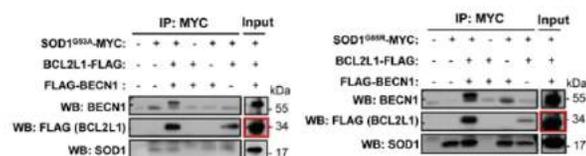


1. Publication

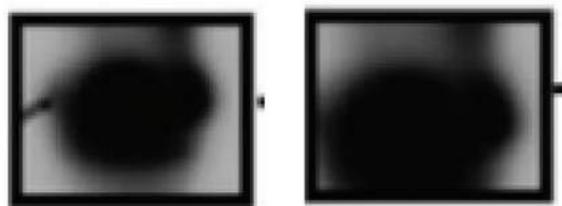
Nassif M, Valenzuela V, Rojas-Rivera D, Vidal R, Matus S, Castillo K, Fuentealba Y, Kroemer G, Levine B, Hetz C. **Pathogenic role of BECN1/Beclin 1 in the development of amyotrophic lateral sclerosis. Autophagy.** 2014 Jul;10(7):1256-71. doi: 10.4161/auto.28784. Epub 2014 May 12. PMID: 24905722; PMCID: PMC4203551.

2. Pubpeer Comments

Figure 7B and 7C – more similar than expected (Looks like it is the same original picture with different magnification). Could authors check it please?



Side by side comparison:



3. Answer

We thank users for noticing this issue. These experiments were performed by Melissa Calegari, PhD student in the lab. Here, there was a mistake by selecting incorrect input bands in SOD1G93A and SOD1G85R immunoprecipitations, including a duplicated band (reported in the PubPeer post). Importantly, the biological conclusion of the experiment is not altered by this mistake. We apologize for this error and here we provide the original films by the first author of the paper Dr Melisa Nassif who performed the experiments. In Figure 1, red boxes show the mistaken bands. In Figure 2, white rectangles show the different proteins of interest. The original blots revealed that in SOD1G93A mutant, the correct band for anti-BECN1 blot (Figure 2, number 1, first lane), and the band for anti-BCL2L (Figure 2, number 2, first lane) are different (we included a lower exposition also of the image to the right). The corrected figure is shown in Figure 3.

After reviewing all data, we noticed that something similar happened in the analysis of SOD1G85R mutant (Figures 4-6). In figure 4, red boxes show the mistaken bands. In Figure 5, white rectangles show the different proteins of interest. The original blots revealed that in SOD1G85R mutant, the correct band for anti-BECN1 blot (Figure 5, number 3, first lane), and the band for anti-BCL2L (Figure 5, number 4, first lane) are different. The corrected figure is shown in Figure 6 (we included a lower exposure of the band to the right). Because of signal saturation in total extracts a lower exposure was shown in some of the images.

We apologize for this error; however we believe that this error does not alter the biological conclusions of this result. **We have contacted the editorial office of Autophagy**

Journal, analyzed the case and a Corrigendum has been accepted. Raw data and explanations have been posted in PubPeer.

1: BECN1
2: BCL2L (BCL_{xl})

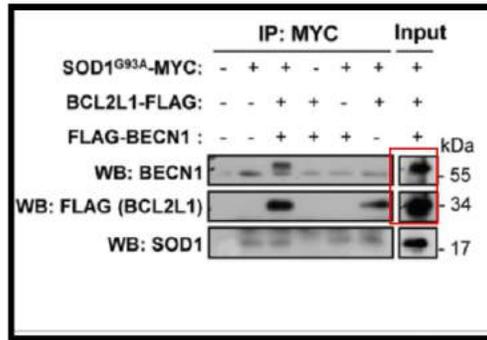


Figure 1. Data published in Figure 7B. Red box shows the incorrect bands of BECN1 and BCL2L respectively.

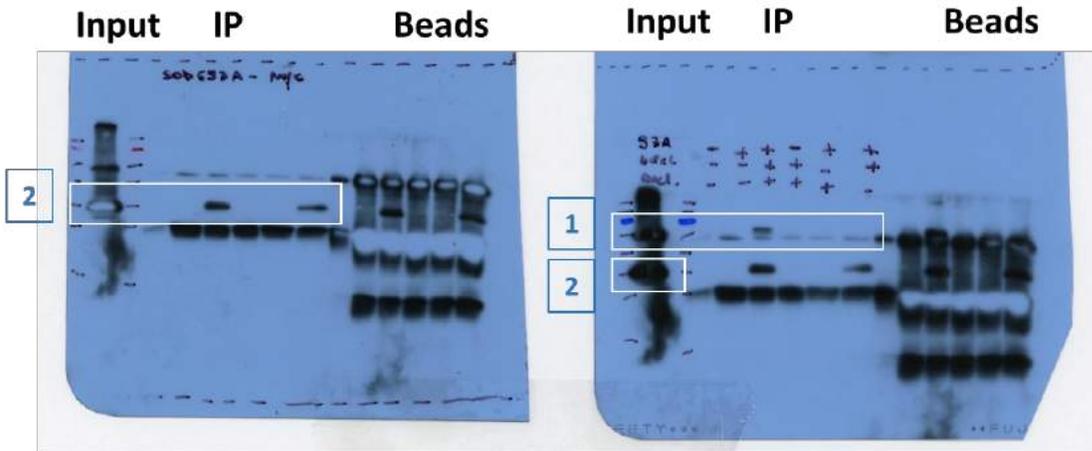


Figure 2. Raw data and band identification of Figure 7B. Number 1, BECN1; number 2, BCL2L.

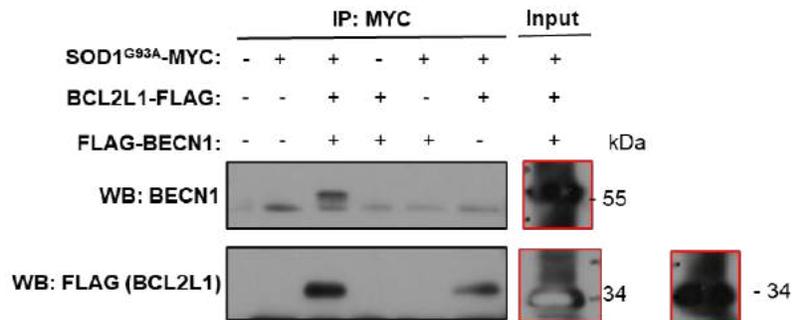


Figure 3. Band replacement of Figure 7B. In red box, corrected bands.

- 3: BECN1
- 4: BCL2L (BCL_{xL})

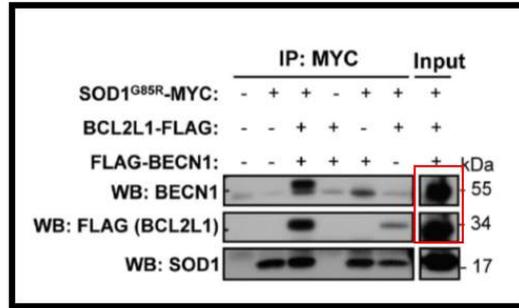


Figure 4. Data published in Figure 7C. Red box shows the incorrect bands of BECN1 and BCL2L respectively.



Figure 5. Raw data and band identification of Figure 7C. Number 3, BECN1; number 4, BCL2L.

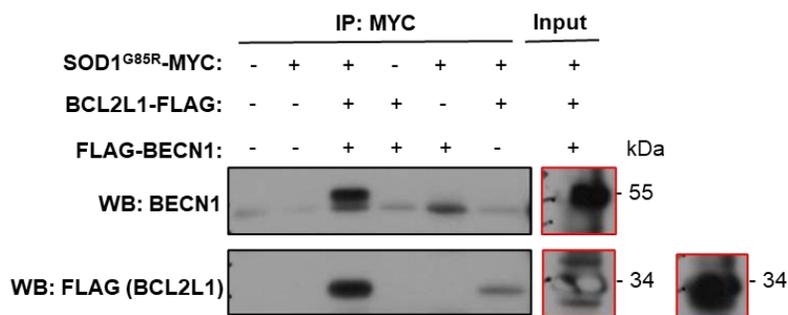


Figure 6. Band replacement of Figure 7C. In red box, corrected bands.



Autophagy



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Correction

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Correction

Article title: Pathogenic role of BECN1/Beclin 1 in the development of amyotrophic lateral sclerosis.

Authors: Nassif M, Valenzuela V, Rojas-Rivera D, Vidal R, Matus S, Castillo K, Fuentealba Y, Kroemer G, Levine B, Hetz C.

Journal: *Autophagy*

Bibliometrics: Volume 10, Issue 7, Pages 1256-1271

DOI: 10.4161/aut0.28784

There was an inadvertent mistake in Figures 7B and 7C by selecting incorrect input bands in SOD1^{G93A} and SOD1^{G85R} immunoprecipitations. These errors were caused during the western blot image preparation when reformatting our manuscript and do not alter the conclusions of the particular experiment. We apologize for this error, and here

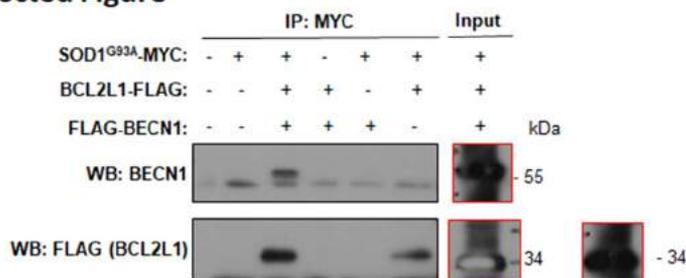
we provide the original films as follows: Items 1 and 2 refer to Figure 7B, with the raw films. Red boxes show the incorrect bands. White rectangles show the proteins of interest. The original blots revealed that in the SOD1^{G93A} mutant, the correct band for the anti-BECN1 blot (Figure 1, number 1, first lane) and the band for anti-BCL2L1 (item 1, number 2, first lane) are different (we included a lower exposure also of the image to the right). Items 3 and 4, are refer to the original Figure 7C, with a similar correction.

Figures 7B and C should be corrected as shown, and these corrections do not change the description, interpretation, or the original conclusions of the manuscript. The authors apologize for any confusion this may have caused.

1- Figure 7B, Raw Data



2- Corrected Figure



3- Figure 7C, Raw Data

3: BECN1

4: BCL2L1/BCL_{xl}



4- Corrected Figure

