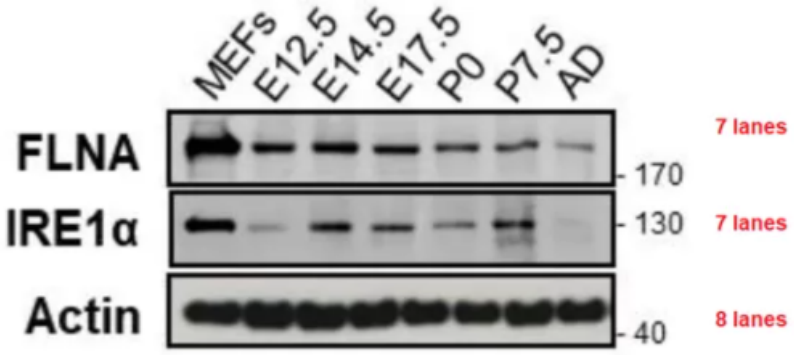
1. Publication

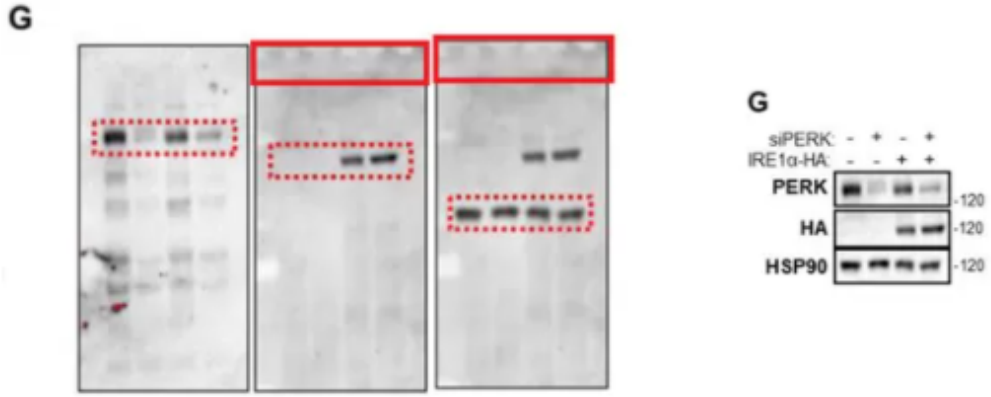
Urra H, Henriquez DR, Cánovas J, Villarroel-Campos D, Carreras-Sureda A, Pulgar E, Molina E, Hazari YM, Limia CM, Alvarez-Rojas S, Figueroa R, Vidal RL, Rodriguez DA, Rivera CA, Court FA, Couve A, Qi L, Chevet E, Akai R, Iwawaki T, Concha ML, Glavic Á, Gonzalez-Billault C, Hetz C**. IRE1α governs cytoskeleton remodelling and cell migration through a direct interaction with filamin A. Nat Cell Biol.** 2018 Aug;20(8):942-953. doi: 10.1038/s41556-018-0141-0. Epub 2018 Jul 16. Erratum in: Nat Cell Biol. 2018 Oct;20(10):1228. PMID: 30013108.

2. Pubpeer Comments

Supplementary Fig. 8: Could authors check if the Actin blot correspond to Ire1 and FLNA experiment please? For some reason, this particular result is not available in the raw data file.



A second issue is with the raw data of Supplementary Fig. S3D. They present a very similar background. Could authors provide the highest quality image of these gels please?



3. Answer

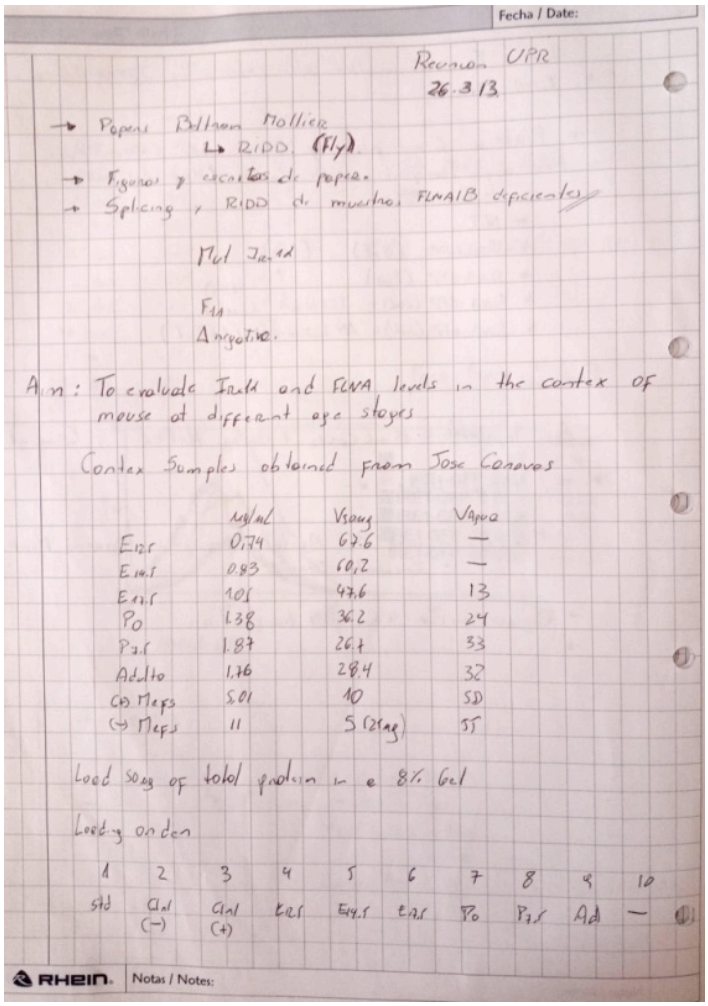
We apologize for this mistake since the extra lane should not be part of the figure. These experiments were `performed by Dr Hery Urra in Collaboration with Jose

Canovas at the laboratory of Dr Manuel Kukuljan at the University of Chile. The full experiment contained two protein amounts of total extracts of MEF cells since we didn't know a priori which quantity was going to serve as the best control for this experiment. The first lane corresponds to this extra control that was not shown in the IRE1 and FLNA blots (see original experiment in lab book page, Figure 1A). Unfortunately, when we prepared the full scan file for Nature Cell Biology (NCB) we were not able to find the original data for this supplementary figure. These experiments with embryos were done by the first author of the paper in collaboration with a laboratory that is actually shut down 4 years ago. We disclosed this problem to the editor and proposed to eliminate this figure from the paper since it was not fundamental (Figure 2). However, they approved to show this figure and no further actions were required. The corrected figure is now included here (Figure 1B).

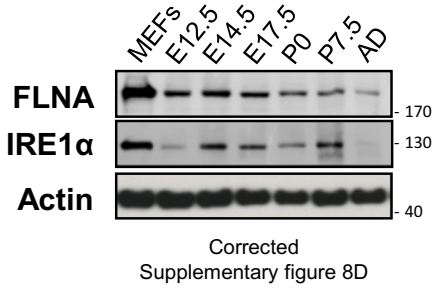
We have contacted the editorial office of Nature Cell Biology to replace supplementary figure 8 (see email attached). **The editor reviewed data and confirmed our conclusions. A correction has been submitted and accepted.**

Regarding the second comment of the figure S3D, these blots correspond to serial re-blots of the same membrane. Immunoprocipitation experiments are always performed in this way. First, we blot for PERK, then HA to detect IRE1a and then the loading control HSP90 in the same membrane. The antibody to detect HA tag (Antibody Anti-HA High Affinity 3F10, Roche) is very strong and the signal is hard to remove. In this case no Stripping Solution was used to remove primary and secondary antibodies of the previous blot. The antibody for HSP90 (Anti-HSP90, Santa cruz Biotechnology) works well but high exposure was used to detect the signal; therefore, the signal and background also appears from the previous blot specially when is accompanied to secondary antibodies that are dirty because we used the same membrane. We agree that the background looks similar but several spots and signals of the previous blots look faint due to washing and antibody incubation. A high resolution image is provided as requested by Pubpeer users (Figure 3).

A



B



Corrected
Supplementary figure 8D

Figure 1. (A) Original design of experiment in lab book page showing the loading order of the SDS-PAGE. **(B)** Corrected supplementary figure 8D excluding the first lane of the actin blot that correspond to a 25 ug.

Gmail Claudio Hetz <claudio.hetz@gmail.com>

final requests

Christina Rosenthal <C.Karlsson-Rosenthal@nature.com> Thu, Jun 7, 2018 at 12:00 PM
To: "Hetz, Claudio" <chetz@hsph.harvard.edu>

Dear Claudio,

Thank you for providing most of the original scans. It's fine not to include the full scans that are missing.

I have only a few questions now. You say that the cropping of 4D was not mentioned in the legend. I still can't see that this is mentioned so, can you please clarify what the line means in the legend.

Also, it would be great if you could modify the Integrated Supplementary document so that full scans are added as Supplementary Figure 9. They will take up more than one page, but you can add several figures that are labelled, Supplementary Figure 9, continued, subsequent to the first one. Please also combine the full scans of figure 2/3 , S1/S3 and S6/S7 on one page to save some space.

Legends for tables and videos should follow after Supplementary Figure 9.

Thanks in advance,

Christina

[Quoted text hidden]

Figure 2. Confirmation email by the editorial office of Nature Cell Biology regarding the raw data not included of supplementary figure 8D.

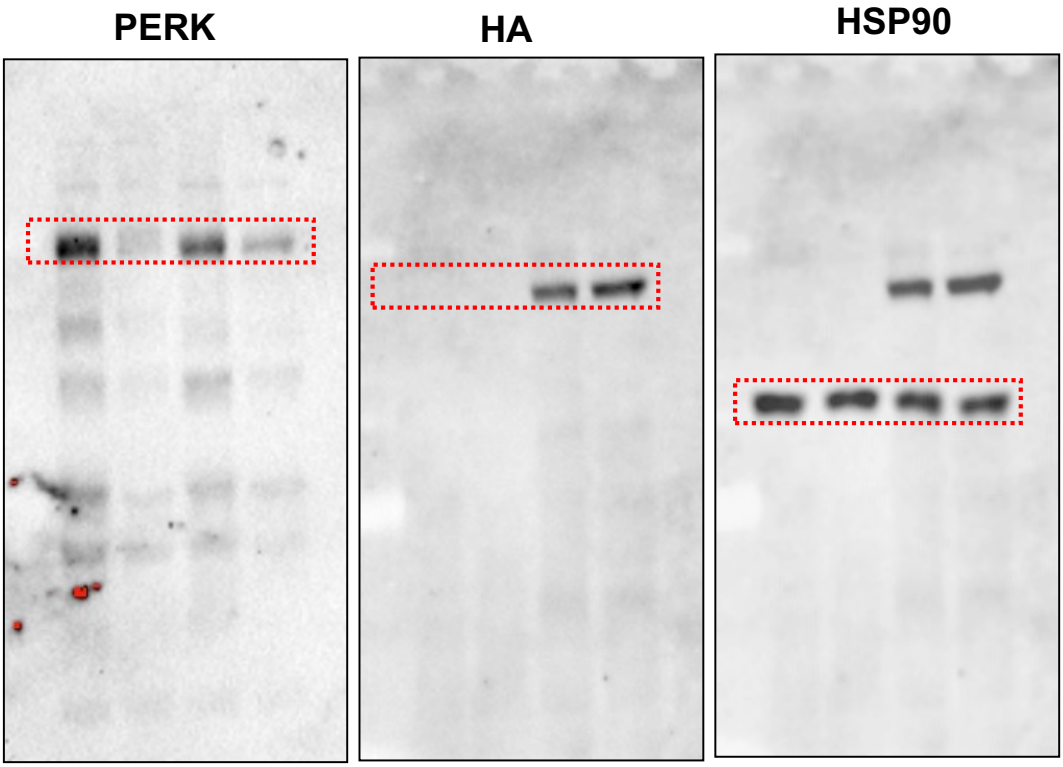


Figure 3. High resolution images of raw data from figure S3D

nature cell biology

AMENDMENTS

https://doi.org/10.1038/s41556-021-00673-2

Check for updates

Author Correction: IRE1α governs cytoskeleton remodeling and cell migration through a direct interaction with filamin A

Hery Urra, Daniel R. Henriquez, José Cánovas, David Villarroel-Campos, Amado Carreras-Sureda, Eduardo Pulgar, Emiliano Molina, Younis M. Hazari, Celia M. Limia, Sebastián Alvarez-Rojas, Ricardo Figueroa, Rene L. Vidal, Diego A. Rodriguez, Claudia A. Rivera, Felipe A. Court, Andrés Couve, Ling Qi, Eric Chevet, Ryoko Akai, Takao Iwawaki, Miguel L. Concha, Álvaro Glavic, Christian Gonzalez-Billault and Claudio Hetz

Correction to: *Nature Cell Biology* https://doi.org/10.1038/s41556-018-0141-0, published online 16 July 2018

In the version of the Article originally published, there was an error in Supplementary Fig. 8d. In the previous version of the figure, an extra band was accidentally included in the first lane of the actin blot that corresponds to an additional control of the experiment. The error has been corrected.

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