



Statement of Retraction

Statement of Retraction. A Central Role for Neuronal AMP-Activated Protein Kinase (AMPK) and Mammalian Target of Rapamycin (mTOR) in High-Protein Diet-Induced Weight Loss. *Diabetes* 2008;57:594–605. DOI: 10.2337/db07-0573

DOI: 10.2337/db17-rt03b

The above-cited article has been retracted by the American Diabetes Association, the publisher of *Diabetes*. This article was previously the subject of an expression of concern in the April 2016 issue of the journal (*Diabetes* 2016;65:1122–1123. DOI: 10.2337/db16-ec04a. PMID: 27208022).

Because of ongoing concerns related to instances of potential image duplication, the American Diabetes Association's Panel on Ethical Scientific Programs (ESP) believes that the study as a whole is unreliable and that the only responsible course of action for updating the status of *Diabetes* 2008;57:594–605 is to issue a full retraction. The American Diabetes Association has approved the Panel's recommendation.

The ESP maintains that the following instances of potential duplication affect the overall reliability of the study:

- Lanes 4 and 5 of the of the phospho p760K strip in Fig. 3A appear to be duplicates of lanes 1 and 2 of the Total p70S6K strip in Fig. 3B.
- Lanes 1–4 of the total p70S6K strip in Fig. 3B appear to be duplicates of lanes 2, 3, 1, and 4, respectively, of the IB:GLUT4 strip in Fig. 4I of the following 2006 *FEBS Letters* article:
 - Prada et al. *FEBS Lett* 2006;580:4889–4894. DOI: 10.1016/j.febslet.2006.08.004. PMID: 16919274
- These lanes, with size, brightness, and contrast adjustments, appear to also have been previously published in the following articles:
 - Flores et al. *Diabetes* 2006;55:2554–2561. DOI: 10.2337/db05-1622. PMID: 16936204 (Fig. 6F, lanes 2–5, bottom strip)
 - De Souza et al. *FASEBJ* 2007;21:1153–1163. DOI: 10.1096/fj.06-7148com. PMID: 17209127. (Fig. 6B, IB:IRS1)
 - Ropelle et al. *Endocrinology* 2007;148:5220–5229. DOI: 10.1210/en.2007-0381. PMID: 17717055 (Fig. 2B, total AMPK)
- In addition, these images appear to have been subsequently republished in independent and unrelated experiments reported in the following articles:
 - Ropelle et al. *PLoS ONE* 2008;3:e3856. DOI: 10.1371/journal.pone.0003856. PMID: 19052642 (Fig. 2G, IB:JAK2, and Fig. 2H, IB:STAT3)
 - Ropelle et al. *J Physiol* 2009;587:2069–2076. DOI: 10.1113/jphysiol.2008.164202. PMID: 19273580 (Fig. 2C, IB:α-tubulin)
 - Flores et al. *Gastroenterology* 2012;143:741–753.e1–e4. DOI: 10.1053/j.gastro.2012.05.045. PMID: 22677195 (Fig. 1D, IB:IKKβ, and Fig. 2D, IB:IRβ)
 - Calisto et al. *Crit Care* 2012;16:R158. DOI: 10.1186/cc11478. PMID: 22897821 (Fig. 4B, IB:IR, lanes 2–5)

Eduardo R. Ropelle, José R. Pauli, Maria Fernanda A. Fernandes, Silvana A. Rocco, Rodrigo M. Marin, Joseane Morari, Kellen K. Souza, Marília M. Dias, Maria C. Gomes-Marcondes, José A.R. Gontijo, Kleber G. Franchini, Lício A. Velloso, Mario J.A. Saad, and José B.C. Carvalheira

- Cintra et al. *Life Sci* 2012;91:395–401. DOI: 10.1016/j.lfs.2012.08.002. PMID: 22906631. (Fig. 1B, β -actin)
- Lanes 1 and 2 and lanes 3 and 4 in Fig. 6L, total eIF4E, appear to be identical. In addition, the total eIF4E strip appears to be a duplicate of an image originally published in the following 2006 *FEBS Letters* article:
 - Prada et al. *FEBS Lett* 2006;580:4889–4894. DOI: 10.1016/j.febslet.2006.08.004. PMID: 16919274 (Fig. 4C, IB:IRS-1)
- This image appears to also have been previously published in the following articles:
 - Tsukumo et al. *Diabetes* 2007;56:1986–1998. DOI: 10.2337/db06-1595. PMID: 17519423 (Fig. 5B, Akt strip, lanes 1–4)
 - Ropelle et al. *Endocrinology* 2007;148:5220–5229. DOI: 10.1210/en.2007-0381. PMID: 17717055 (Fig. 2D, total AMPK, and Fig. 2F, α -tubulin, with horizontal and vertical rotation)
- Furthermore, the image may have been subsequently republished, with size, orientation, brightness, and contrast adjustments, in independent and unrelated experiments reported in the following articles:
 - De Souza et al. *J Physiol* 2010;588:2239–2253. DOI: 10.1113/jphysiol.2009.183996. PMID: 20421289 (Fig. 1G, IB:Foxo1, and Fig. 1C, IB:IRS2)
 - Oliveira et al. *Diabetes* 2011;60:784–796. DOI: 10.2337/db09-1907. PMID: 21282367 (Fig. 3A, IB:IKK β)
 - Calisto et al. *Crit Care* 2012;16:R158. DOI: 10.1186/cc11478. PMID: 22897821 (Fig. 4B, IB:Akt, lanes 1–4)

Diabetes is a member journal of the Committee on Publication Ethics (COPE) (publicationethics.org). As such, the editors of the journal and the ESP refer to COPE's guidelines and recommendations when reviewing such matters.