



# Expression of Concern

**Expression of Concern. Tub Has a Key Role in Insulin and Leptin Signaling and Action In Vivo in Hypothalamic Nuclei. Diabetes 2013;62:137–148. DOI: 10.2337/db11-1388**

DOI: 10.2337/db16-ec04

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On the basis of the recommendation of the American Diabetes Association's Panel on Ethical Scientific Programs (ESP), the American Diabetes Association, the publisher of *Diabetes*, is issuing this expression of concern to alert readers to questions about the reliability of the data in the above-cited article.

After readers of the journal contacted *Diabetes* about potentially duplicated images in the article, the ESP reviewed the following issues:

- The IB:Tub strip in Fig. 1B (LH) appears to have been previously published, with horizontal rotation, in the following article:

Rocha et al. *Clin Cancer Res* 2011;17:3993–4005. DOI: 10.1158/1078-0432.CCR-10-2243. PMID: 21543517 (Fig. 4D, IB:mTOR strip)

- The IB:Tub strip in Fig. 1G (LH) appears to have been previously published, with horizontal rotation, in the following articles:

Ropelle et al. *PLoS Biol* 2010;8:e1000465. DOI: 10.1371/journal.pbio.1000465. PMID: 20808781 (Fig. 8H, IB:α-tubulin, lanes 3–5)

Flores et al. *Gastroenterology* 2012;143:741–753.e1–e4. DOI: 10.1053/j.gastro.2012.05.045. PMID: 22677195 (Fig. 2D, IB:β-tubulin, lanes 2–4)

This image may have been subsequently republished, with adjustments made to size, brightness, and contrast, in three other articles representing different experiments:

Barbosa et al. *Int J Cardiol* 2013;167:2983–2988. DOI: 10.1016/j.ijcard.2012.08.050. PMID: 22989604 (Fig. 1B, IB:eNOS, lanes 3–5)

Chiarrotto-Ropelle et al. *Am J Physiol Endocrinol Metab* 2013;305:E649–E659. DOI: 10.1152/ajpendo.00272.2013. PMID: 23880311 (Fig. 5B, IB:α-tubulin, lanes 3–5)

Souza Pauli et al. *J Physiol* 2014;592(Pt. 6):1325–1340. DOI: 10.1113/jphysiol.2013.264002. PMID: 24396063 (Fig. 3B, IB:β-actin, lanes 3–5)

- In Fig. 2A, the second lane displayed for medial hypothalamus (MH) appears to be a duplicate of the first lane for paraventricular nucleus (PVN), with horizontal rotation.
- The IB:Tub strip in Fig. 6B (Arc) appears to have been previously published in the following articles:

Rocha et al. *Clin Cancer Res* 2011;17:3993–4005. DOI: 10.1158/1078-0432.CCR-10-2243. PMID: 21543517 (Fig. 4B, IB:p53, lanes 2–5)

Flores et al. *Gastroenterology* 2012;143:741–753.e1–e4. DOI: 10.1053/j.gastro.2012.05.045. PMID: 22677195 (Fig. 3E, IB:pAKT, with horizontal rotation)

- The IB:Tub strip in Fig. 6B (PVN) appears to be a duplicate, with size and contrast adjustments, of the IB:pIR $\beta$ Tyr<sup>1162/1163</sup> strip of Fig. 2A in the following 2010 *PLOS Biology* article:

Ropelle et al. *PLoS Biol* 2010; 8:e1000465. DOI: 10.1371/journal.pbio.1000465. PMID: 20808781

The Panel has contacted the corresponding author to inform him of these concerns, and the corresponding author's institution, the University of Campinas (São Paulo, Brazil), has been asked to undertake an investigation of these issues. *Diabetes* will make a final decision on the publication status of this article after the journal obtains more information on the reliability of the data and conclusions presented in the article.

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