VOLUME 281 (2006) PAGES 30152-30165 DOI 10.1074/jbc.A117.603393

Induction of the unfolded protein response in familial amyotrophic lateral sclerosis and association of proteindisulfide isomerase with superoxide dismutase 1.

Julie D. Atkin, Manal A. Farg, Bradley J. Turner, Doris Tomas, Judith A. Lysaght, Janelle Nunan, Alan Rembach, Phillip Nagley, Philip M. Beart, Surindar S. Cheema, and Malcolm K. Horne

This article has been withdrawn by the authors. The authors have become aware of several errors in the way images were presented in this manuscript and withdraw the article in the interests of maintaining their publication standards and those of the journal. The authors state that these presentational errors do not impact the underlying scientific findings of the article, which have been confirmed in other laboratories. The authors stand by the original scientific results as described. The authors state the following: while all actin blots were performed as described in the article and confirmed similar loading in each case, a portion of the actin immunoblot image from rat lysates in Fig. 2A was inadvertently reused in the mouse lysate panel images in Fig. 2A, in Fig. 2D, and in Fig. 8A. Due to their strong similarity, lanes 2 and 9 of the PDI immunoblot and lanes 7 and 9 of the SOD immunoblot in Fig. 3B were accidentally duplicated. Similarly, in Fig. 3C, lanes 1 and 9 of the PDI immunoblot and lanes 3 and 9 of the SOD immunoblot were accidentally duplicated. However, all mutants described in the article were included in the study, and the findings obtained were as reported. In Fig. 3C, because the same set of COS cell lysates were used in both studies, lanes 3-6 of the SOD1 immunoblot was published previously (Turner, B. J., Atkin, J. D., Farg, M. A., Zang, D. W., Rembach, A., Lopes, E. C., Patch, J. D., Hill, A. F., and Cheema, S. S. (2005) Impaired extracellular secretion of mutant superoxide dismutase 1 associates with neurotoxicity in familial amyotrophic lateral sclerosis. J. Neurosci. 25, 108-117), and hence the expression of SOD1 in these lysates was equivalent for both publications. Therefore, while the presentation of some of the images in the paper is incorrect, the images fully represent the scientific findings of the study as reported. The original paper can be obtained by contacting the authors.