



OPEN

Author Correction: Structure of full-length wild-type human phenylalanine hydroxylase by small angle X-ray scattering reveals substrate-induced conformational stability

Catarina S. Tomé , Raquel R. Lopes, Pedro M. F. Sousa, Mariana P. Amaro, João Leandro, Haydyn D. T. Mertens , Paula Leandro & João B. Vicente

Correction to: *Scientific Reports* <https://doi.org/10.1038/s41598-019-49944-x>, published online 20 September 2019

The authors would like to acknowledge the missing reference of Arturo and colleagues publication in the original version of the Article, which describes structural data for a full-length p.C29S PAH variant in its L-Phe-activated form. This paper is cited here as Ref. 1 and should have been included in the text as below.

In the Introduction, the paragraph,

“Structural analyses of hPAH have relied on crystal structures of truncated forms of the enzyme lacking one or two domains^{5–12} and full-length bound to BH₄¹², and on crystallographic and SAXS structures of the full-length rat homologue^{13–15}.”

should read:

“Structural analyses of hPAH have relied on crystal structures of truncated forms of the enzyme lacking one or two domains^{5–12} and full-length bound to BH₄¹², and on crystallographic and SAXS structures of the full-length C29S variant form of hPAH¹ and full-length rat homologue^{13–15}.”

In the same section, the paragraph,

“Solution structural analyses of rat PAH confirmed distinct conformations for the inactive and L-Phe-activated enzymes and supported dimerisation of regulatory domains as the substrate activation mechanism^{13,15}.”

should read

“Solution structural analyses of rat PAH and hPAH C29S variant confirmed distinct conformations for the inactive and L-Phe-activated enzymes and supported dimerisation of regulatory domains as the substrate activation mechanism^{1,13,15}.”

In the Discussion,

“Similar variations in the 0.05–0.2 Å⁻¹ region have previously been observed for rat PAH^{13,15}.”

Published online: 20 November 2019

should read:

“Similar variations in the 0.05–0.2 Å⁻¹ region have previously been observed for rat PAH^{13,15} and, more recently, for the hPAH C29S variant¹.”

This correction does not alter the main conclusions of the Article.

Reference

1. Arturo, E. C., Gupta, K., Hansen, M. R., Borne, E. & Jaffe, E. K. Biophysical characterization of full-length human phenylalanine hydroxylase provides a deeper understanding of its quaternary structure equilibrium. *J Biol Chem* **294**(26), 10131–45 (2019).



Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>.

© The Author(s) 2019