

CORRECTION

Correction: Investigating the Proton Donor in the NO Reductase from *Paracoccus denitrificans*

The PLOS ONE Staff

There is an error in the second sentence of the “Ligand Binding” subsection within the Discussion. The correct sentence is: At 1 mM CO, the fast phase has a time constant (τ_1) of 14 μs ($k_{\text{on}} \sim 0.7 \times 10^8 \text{ M}^{-1} \text{ s}^{-1}$) and the slower phase shows $\tau_2 \sim 130 \mu\text{s}$ ($k_{\text{on}} \sim 7.5 \times 10^6 \text{ M}^{-1} \text{ s}^{-1}$). The publisher apologizes for this error.

There is an error in the caption for Fig 3. The number ‘108’ should be ‘10⁸’. Please see the complete, correct Fig 3 caption here. The publisher apologizes for this error.

Fig 3. pH dependence of the proton-coupled electron transfer (ETPT) in the reaction between O₂ and fully reduced cNOR variants at the entrance of proton transfer pathway 1. The rate constants of the ETPT plotted as a function of pH: wild type (black circles), K54^oA (red squares), E58^oQ (blue triangles down), E58^oD (green triangles up). The data from E58^oQ, K54^oA and wildtype are from Ref. [7,8] (added for comparison). The data for wildtype was fitted to a pKa ~ 6.6 and a k_{max} (maximal rate at low pH) of $\sim 250 \text{ s}^{-1}$ (black line). The data for E58^oQ was fitted to a pKa of ~ 5.8 and a k_{max} of $\sim 50 \text{ s}^{-1}$ (blue line, data and fit from Ref. [7]). The data for K54^oA was fitted to a pKa of ~ 6.4 and a k_{max} of $\sim 250 \text{ s}^{-1}$ (red line, data and fit from Ref. [7]) and for E58^oD to a pKa of ~ 6.4 and a k_{max} of $\sim 250 \text{ s}^{-1}$ (green line). Note that data points for K54^oA as well as the E58^oD do not follow the fit around pH 7–7.5, and also plotted (see text) are two theoretical diffusion rate constants ($k_{\text{diff}}^*[\text{H}^+]$) as a function of pH ($= -\log[\text{H}^+]$), assuming a k_{diff} of $2.5 \times 10^8 \text{ M}^{-1} \text{ s}^{-1}$ in K54^oA (red dashed line) and $3.5 \times 10^8 \text{ M}^{-1} \text{ s}^{-1}$ in E58^oD (green dashed line).

There is an error in the Abstract. The first paragraph should be included in the Abbreviations. The Abstract should begin with the first sentence of the second paragraph: Bacterial NO reductases (NORs) are integral membrane proteins from the heme-copper oxidase superfamily. Most heme-copper oxidases are proton-pumping enzymes that reduce O₂ as the last step in the respiratory chain.

Reference

1. ter Beek J, Krause N, Ädelroth P (2016) Investigating the Proton Donor in the NO Reductase from *Paracoccus denitrificans*. PLoS ONE 11(3): e0152745. doi:[10.1371/journal.pone.0152745](https://doi.org/10.1371/journal.pone.0152745) PMID: [27030968](https://pubmed.ncbi.nlm.nih.gov/27030968/)



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