



<https://doi.org/10.1038/s41467-021-23485-2>

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Publisher Correction: Dissociable roles of cortical excitation-inhibition balance during patch-leaving versus value-guided decisions

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Correction to: *Nature Communications* <https://doi.org/10.1038/S41467-020-20875-W>, published online 10 February 2021.

The original version of this Article contained an error in the “Methods” section, under the “Decision-making task” heading. The results of a t test were reported with the incorrect degrees of freedom, incorrectly written as “ $t_{18858} = -20.915$, $p < 0.001$.” The correct version replaced “ t_{18858} ” with “ t_{18558} .” This has been corrected in both the PDF and HTML versions of the Article.

The original version of this Article also contained an error in the “Methods” section titled “Behavioural modelling of value-guided decisions” in which Eqs. 5 and 6 inadvertently swapped during production. The incorrect version stated

Since it is known that humans do not weigh magnitudes and probabilities in a statistically optimal way, we considered systematic distortions in the weighting of reward information in our models ($u(m)$ and $w(p)$, for reward magnitudes and probabilities, Eqs. 5 and 6, respectively)⁵⁶.

$$u(m_O) = m_O^\alpha \quad (5)$$

where p_O are the objective reward probabilities and γ is a free parameter used to fit subjective reward probabilities. Subjective magnitudes were estimated by:

$$w(p_O) = \frac{p_O^\gamma}{(p_O^\gamma + (1 - p_O)^\gamma)^{1/\gamma}} \quad (6)$$

The correct version states

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The original version of this Article also contained an error in the Methods section under the heading “MRS data acquisition”, in which the terms “rM1 and lM1” were incorrectly ordered. The incorrect version stated

Average M1 voxel centroids in standard space were estimated at MNI $x = -28.97 \pm 0.82$, $y = -18.48 \pm 0.92$, $z = 51.86 \pm 0.59$ and MNI $x = 31.90 \pm 0.71$, $y = -14.76 \pm 1.06$, $z = 49.76 \pm 0.88$ for rM1 and lM1, respectively.

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Published online: 17 June 2021



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