

SCIENTIFIC REPORTS

OPEN

Author Correction: Anion-conducting channelrhodopsins with tuned spectra and modified kinetics engineered for optogenetic manipulation of behavior

Jonas Wietek¹, Silvia Rodriguez-Rozada⁴, Janine Tutas², Federico Tenedini², Christiane Grimm¹, Thomas G. Oertner³, Peter Soba², Peter Hegemann¹ & J. Simon Wiegert^{3,4}

Correction to: *Scientific Reports* <https://doi.org/10.1038/s41598-017-14330-y>, published online 02 November 2017

This Article contains errors in the Results section under subheading ‘Biophysical characterization in HEK cells’.

“Because Chronos exhibits no serine at the homologous position of S63, which is a main constituent of the inner gate in CrChR2 we speculated that a differently arranged inner gate could be responsible for the missing photo-currents. Therefore, we created the double mutant Chronos^{A80S E107R} to reconstitute a serine residue at the putative inner gate while rendering the central gate anion conductive.”

should read:

“Because Chronos exhibits no serine at the homologous position of S63, which is a main constituent of the central gate in CrChR2 we speculated that a differently arranged central gate could be responsible for the missing photo-currents. Therefore, we created the double mutant Chronos^{A80S E107R} to reconstitute a serine residue at the putative central gate while rendering the central gate anion conductive.”



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) 2018

¹Institute for Biology, Experimental Biophysics, Humboldt-Universität zu Berlin, Invalidenstraße 42, 10115, Berlin, Germany. ²Research Group Neuronal Patterning and Connectivity, Center for Molecular Neurobiology Hamburg, Falkenried 94, 20251, Hamburg, Germany. ³Institute for Synaptic Physiology, Center for Molecular Neurobiology Hamburg, Falkenried 94, 20251, Hamburg, Germany. ⁴Research Group Synaptic Wiring and Information Processing, Center for Molecular Neurobiology Hamburg, Falkenried 94, 20251, Hamburg, Germany. Correspondence and requests for materials should be addressed to J.S.W. (email: simon.wiegert@zmn.uni-hamburg.de)