



Correction

Correction: Piatkevich et al. Advances in Engineering and Application of Optogenetic Indicators for Neuroscience. *Appl. Sci.* 2019, 9, 562

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We, the authors, wish to make the following corrections to our paper [1]. We found typos in Table 3 for the fluorescence spectrum peaks and kinetics of the Glu_u sensor. These typos resulted in an incorrect statement in the main text:

"Similar temporal resolution was also achieved by the iGluSnFR-S72T point mutant, named iGlu $_{\rm u}$ (u stands for "ultrafast"), although it suffered from 1.5-fold lower sensitivity than SF-iGluSnFR-S72A under similar imaging conditions (Table 3)."

We would like to correct the values in the Table 3 and corresponding sentences in the main text. Thus, Table 3 and the statement would be changed to:

"Even higher temporal resolution was achieved by the iGluSnFR-S72T point mutant, named iGluu (u stands for "ultrafast") [129], which was able to resolve responses at single synapses in hippocampal slices during single action potentials evoked even at frequencies of 100 Hz. However, it showed about 1.5-fold lower sensitivity than SF-iGluSnFR-S72A under similar imaging conditions (Table 3). Overall, the kinetics and sensitivity of SF-iGluSnFRs and iGluu make them superior to the fastest green calcium sensor GCaMP6f in terms of monitoring presynaptic activity, as was demonstrated for granule cell axons within mouse cerebellar brain slices."

The authors would like to apologize for any inconvenience caused. The manuscript will be updated, and the original version will remain online on the article webpage.

Reference

1. Piatkevich, K.D.; Murdock, M.H.; Subach, F.V. Advances in Engineering and Application of Optogenetic Indicators for Neuroscience. *Appl. Sci.* **2019**, *9*, 562. [CrossRef]



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