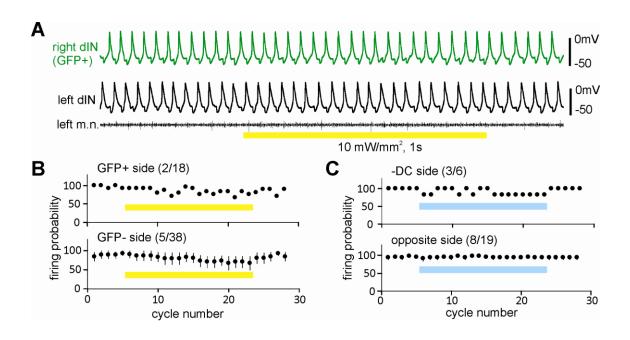
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Supplemental Information

Fast Silencing Reveals a Lost Role

## for Reciprocal Inhibition in Locomotion

Peter R. Moult, Glen Cottrell, and Wen-Chang Li



**Figure S1. Cycle-by-cycle neuronal firing probability did not drop significantly in trials where one-sided silencing failed to stop swimming.** (A) An example trial when light failed to decrease neuronal firing probability (right and left dIN) and stop swimming (left m.n.). Note the reliable mid-cycle inhibition in both dINs. (B) Neuronal firing probability in light illumination experiments. Yellow bars indicate 1 second period of illumination. (C) Firing probability in –DC injection experiments. Blue bars indicate 1 second of current injections. Numerals in brackets are number of cells/trials, respectively. Vertical bars are standard errors. Cycle-by-cycle firing probability was first calculated for each cell and then averaged. One second period of one-sided silencing lasted for 18-21 cycles and only the first 17 cycles were used for averaging.

The continuous neuronal firing/swimming during silencing period means that reciprocal inhibition was not significantly suppressed as expected in these cases. Comparing probability in the last 5 cycles during silencing with control revealed no significance in all cases (GFP+ side and –DC side data pooled together, p>0.05, Wilcoxon Signed Rank test in each case).