

S1 Fig. Longer exposure time increases signal-to-noise ratio of PER2::LUC rhythms. (A) Brightfield image of SCN slice culture. Dotted lines indicate third ventricle (3V) and optic chiasm (OC). (B) PER2::LUC Intensity traces from singlecells imaged with 14.5 min exposure time (cf. Fig 1B for 29 min exposure time). Raw bioluminescence intensity traces and corresponding smoothed traces from short photoperiod (SP; anterior; n = 131 cells; top and middle panel), and smoothed traces from long photoperiod (LP; anterior; n = 65 cells; bottom panel). (C) Average amplitude and (D) number of cells from recordings with 14.5 min exposure time, for both LP (green squares, anterior & posterior: n = 6), and SP (red dots; anterior: n = 5; posterior: n = 8). (E) Amplitude and (F) number of cells from the recordings with 29 min exposure time, for LP (green squares; n = 6), and SP (red dots; n = 4). Black bars indicate mean ± SEM.