

Supplementary Table. Light intensity threshold and tail clippin trial information for individual mice

		Mouse #1	Mouse #2	Mouse #3	Mouse #4
Light intensity threshold (mV/mm ²)		2.5	3	2	2.5
No stimulation	Trial #	17	11	10	10
	Mean (SD) of T(s)	1.22 (0.33)	0.77 (0.23)	1.03 (0.28)	1.02 (0.22)
Continous, 2 s stimulation	Trial #	11	12	11	10
	Mean (SD) of T(s)	1.40 (0.21)	1.09 (0.37)	1.12 (0.37)	1.08 (0.35)
15 Hz, 2 s stimulation	Trial #	12	11	13	14
	Mean (SD) of T(s)	4.58 (2.47)	2.80 (0.31)	4.16 (1.64)	3.18 (0.53)
	Mean (SD) of τ (s)	2.32 (2.52)	0.56 (0.30)	1.92 (1.71)	0.94 (0.54)
30 Hz, 2 s stimulation	Trial #	10	13	12	13
	Mean (SD) of T(s)	3.62 (0.49)	2.97 (0.52)	4.06 (0.71)	3.18 (0.57)
	Mean (SD) of τ (s)	1.34 (0.55)	0.72 (0.48)	1.82 (0.68)	0.91 (0.56)
40 Hz, 2 s stimulation	Trial #	14	11	12	10
	Mean (SD) of T(s)	4.01 (1.59)	2.85 (0.45)	3.60 (0.64)	3.35 (1.76)
	Mean (SD) of τ (s)	1.80 (1.56)	0.62 (0.42)	1.36 (0.65)	1.12 (1.78)
15 Hz, 1 s stimulation	Trial #	18	12	11	14
	Mean (SD) of T(s)	3.02 (0.83)	1.69 (0.27)	2.29 (0.38)	2.83 (1.60)
	Mean (SD) of τ (s)	1.75 (0.83)	0.43 (0.26)	1.05 (0.36)	1.59 (1.59)
15 Hz, 3 s stimulation	Trial #	19	11	11	12
	Mean (SD) of T(s)	5.64 (1.42)	4.16 (0.73)	5.12 (0.80)	4.22 (0.73)
	Mean (SD) of τ (s)	2.39 (1.43)	0.90 (0.72)	1.87 (0.81)	0.92 (0.74)