



Supplementary Figure S1. Temperature fluctuations of the culture medium following exposure to 2 THz.

Supplementary Table S1. Arithmetic mean of experimental results ($\bar{X} \pm SEM$)

Experimental project		C	R
Temperature		36.59 ± 0.34	37.37 ± 0.15
Western Blot	VAMP2	1.00 ± 0.05	1.10 ± 0.08
	SNAP	1.00 ± 0.04	1.34 ± 0.39
	rSec6	1.00 ± 0.07	1.16 ± 0.01 ^{***}
	Synaptophysin	1.00 ± 0.02	1.17 ± 0.12
	GluN1	1.00 ± 0.10	0.92 ± 0.12
	GluN2A	1.00 ± 0.25	1.05 ± 0.24
	GluN2B	1.00 ± 0.09	1.42 ± 0.12 [*]
	GluA1	1.00 ± 0.03	1.17 ± 0.06 [*]
	PSD95	1.00 ± 0.07	1.08 ± 0.03 [*]
	CaMKII	1.00 ± 0.17	1.03 ± 0.04
	nNOS	1.00 ± 0.06	1.25 ± 0.04 [*]
CREB	1.00 ± 0.09	1.26 ± 0.04 ^{**}	
Neurotransmitter	Asp	1.00 ± 0.20	0.74 ± 0.34
	Glu	1.00 ± 0.05	1.15 ± 0.03 [*]
	Gly	1.00 ± 0.16	0.59 ± 0.15 [*]
Ca ²⁺ concentration	Cytoplasm	1.00 ± 0.03	0.86 ± 0.03 [*]
	Endoplasmic reticulum	1.00 ± 0.09	1.52 ± 0.18 [*]
	Mitochondria	1.00 ± 0.13	1.73 ± 0.07 ^{**}
Voltage-gated calcium channel activity	-10 mV	-9.90 ± 1.16	-13.29 ± 1.22 [*]
	0 mV	-14.26 ± 1.89	-18.49 ± 1.91 [*]

Note. Compared to the C group, ^{*} $P < 0.05$, ^{**} $P < 0.01$, ^{***} $P < 0.001$.