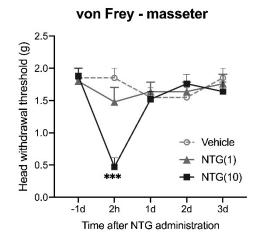
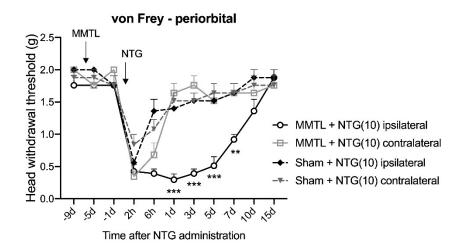




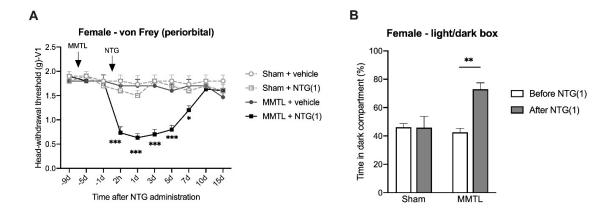
Supplementary Materials



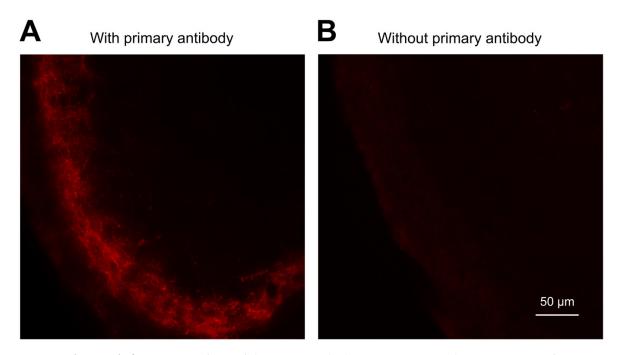
Supplemental Figure 1. Systemic injection of NTG induces mechanical hypersensitivity in trigeminal nerve V3-innervated masseter area of mice. Intraperitoneal injection (i.p.) of NTG at 10 mg/kg, but not 1 mg/kg, decreased the head withdrawal threshold in the skin area over masseter muscle (n = 5 per group). *** $P < 0.001 \ vs$ the vehicle-treated group. NTG, nitroglycerin; NTG(1): 1 mg/kg of nitroglycerin; NTG(10): 10 mg/kg of nitroglycerin.



Supplemental Figure 2. MMTL differentially affects NTG-induced mechanical hypersensitivity in ipsilateral and contralateral periorbital area. We observed that the MMTL significantly extended the NTG-decreased head withdrawal threshold in the ipsilateral periorbital area, but only slightly prolonged the NTG-decreased head withdrawal threshold on the contralateral side (n = 5 per group). **P < 0.01, ***P < 0.001 vs the respective "MMTL + NTG(10) contralateral" group. F_{treatment} (3, 16) = 29.950, P < 0.001; F_{time} (10, 160) = 51.510, P < 0.001; F_{interaction} (30, 160) = 4.914, P < 0.001. NTG(10), 10 mg/kg of nitroglycerin.



Supplemental Figure 3. MMTL enhances NTG-induced migraine-like hypersensitivity in female mice. **(A)** MMTL pretreatment enabled the lower dose (1 mg/kg) of NTG to decrease the head withdrawal threshold in the periorbital region (n = 6 per group). F_{treatment} (3, 20) = 8.700, P < 0.001; F_{time} (9, 180) = 9.98, P < 0.001; F_{interaction} (27, 180) = 5.46, P < 0.001. ***P < 0.001, *P < 0.05 vs the corresponding time points in the "sham + vehicle" group. **(B)** MMTL pretreatment enabled the lower dose (1 mg/kg) of NTG to produce the light-aversive behavior (n = 6 per group). F_{treatment} (1, 10) = 6.879, P < 0.05; F_{time} (1, 10) = 7.520, P < 0.05; F_{interaction} (1, 10) = 7.798, P < 0.05. **P < 0.01 as indicated in the figure. MMTL: masseter muscle tendon ligation; NTG: nitroglycerin; NTG(1): 1 mg/kg of nitroglycerin.



Supplemental Figure 4. Specificity of the CGRP antibody. Sp5C-containing brainstem tissues from wild-type mice were harvested for immunofluorescence staining. **(A)** The staining with primary CGRP antibody showed CGRP-positive signals in the superficial laminae of the Sp5C. **(B)** The staining with the primary CGRP antibody omitted showed no positive signals in the area.