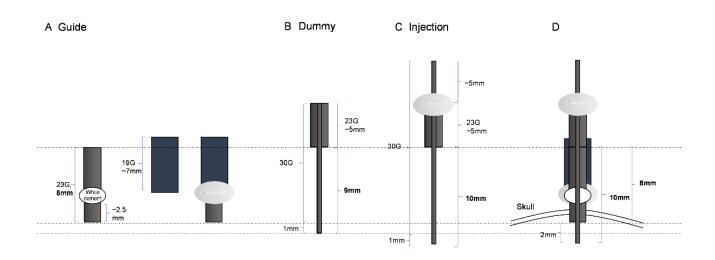
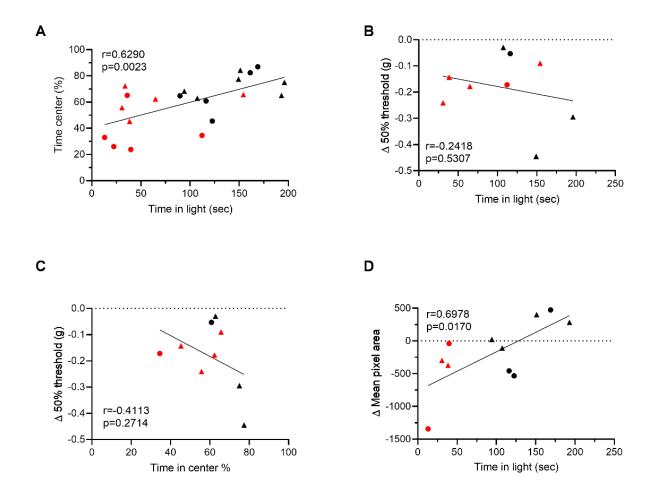


Supplementary Material

1.1 Supplementary Figures



Supplementary Fig. 1 Cannula design and assembly diagram. (A) Guide cannulas. The guide cannula was made from an 8-mm, 23-gauge needle (left) with the ventral portion covered by a ~7-mm, 19-gauge tubing (middle), which were adhered by adhesive and dental cement (right). The plastic holder was removed from 23-gauge needle without removing the original white cement (left). The ~7-mm, 19-gauge tubing is ~2 mm higher than the 23-gauge needle to shield the junction between guide's top and the dummy or injection cannula after their insertion, allowing the dummy or the injection cannula to stay in position after insertion (right). (B) Dummy cannulas. The dummy cannula, used to seal and keep the guide cannula free of clogs, was made by crimping a short segment of ~5-mm, 23-gauge tubing to a ~14 mm piece of 30-gauge tubing. The bottom of the 30-gauge tubing was cut to ensure that the 30-gauge segment below the ~5-mm, 23-gauge segment is 9 mm. (C) Injection cannulas. The injection cannula was made by adhering a short segment of ~5-mm, 23-gauge tubing ~5 mm below the top of a ~20-mm piece of 30-gauge tubing with adhesive and dental cement. The bottom of the 30-gauge tubing was cut to ensure that the 30-gauge segment below the ~5-mm, 23-gauge segment is 10 mm. (D) The injection cannula extended 2 mm beyond the base of the guide cannula when was inserted into the guide cannula.



Supplementary Fig. 2 Correlation of behavioral outputs. (**A**) Correlation between time in light and time in center. PBS (n=11) or CGRP (n=10). (**B**) Correlation between time in light and changes in the left paw withdrawal threshold. PBS (n=4) or CGRP (n=5). (**C**) Correlation between time in center and changes in the left paw withdrawal threshold. PBS (n=4) or CGRP (n=5). (**D**) Correlation between time in light and changes in mean pixel area. PBS (n=7) or CGRP (n=4). Black circle (**●**) represents PBS-treated female mice; black triangle (**△**) represents PBS-treated male mice; red circle (**●**) represents CGRP-treated female mice; red triangle (**△**) represents CGRP-treated male mice. Statistics are described in Supplementary Table 1.

Supplementary Table 1 Statistical analyses

| Figure no. | Analysis | Statistics (symbol on Figure) |
|---|-----------------------------------|--|
| Fig. 1A left (all mice) | Two-way repeated measure ANOVA | |
| | Interaction factor | F (5, 95) = 1.734, P=0.1343 |
| | Treatment factor | F (1, 19) = 23.23, P=0.0001 |
| | Time factor | F (2.677, 50.86) = 6.280, P=0.0015 |
| Fig. 1A middle (females) | Two-way repeated measure ANOVA | 1 |
| | Interaction factor | F (5, 40) = 0.7746, P=0.5738 |
| | Treatment factor | F (1, 8) = 14.45, P=0.0052 |
| | Time factor | F (2.675, 21.40) = 9.368, P=0.0005 |
| Fig. 1A right (males) | Two-way repeated measure ANOVA | 1 |
| | Interaction factor | F (5, 45) = 1.074, P=0.3877 |
| | Treatment factor | F (1, 9) = 8.808, P=0.0158 |
| | Time factor | F (2.076, 18.68) = 1.891, P=0.1777 |
| Fig. 1B left (all mice) | Unpaired 2-tailed t-test | t=4.820, df=19, P=0.0001 |
| Fig. 1B middle (females) | Unpaired 2-tailed t-test | t=3.802, df=8, P=0.0052 |
| Fig. 1B right (males) | Unpaired 2-tailed t-test | t=2.968, df=9, P=0.0158 |
| Fig. 1B Female CGRP vs. Male CGRP | Unpaired 2-tailed t-test | t=0.6791, df=8, P=0.5163 |
| Fig. 2A upper panel | | |
| Left (all mice) | Two-way repeated measure ANOVA | A (mixed effects analysis) |
| | Interaction factor | F (5, 84) = 0.7322, P=0.6013 |
| | Treatment factor | F (1, 19) = 0.01297, P=0.9105 |
| | Time factor | F (2.807, 47.16) = 8.859, P=0.0001 |
| Middle (females) | Two-way repeated measure ANOVA | A (mixed effects analysis) |
| | Interaction factor | F (5, 36) = 0.4571, P=0.8053 |
| | Treatment factor | F (1, 8) = 0.6466, P=0.4446 |
| | Time factor | F (1.952, 14.05) = 7.334, P=0.0068 |
| Right (males) | Two-way repeated measure ANOVA | A (mixed effects analysis) |
| | Interaction factor | F (5, 38) = 1.570, P=0.1918 |
| | Treatment factor | F (1, 9) = 0.7938, P=0.3961 |
| | Time factor | F (1.714, 13.03) = 6.755, P=0.0119 |
| Fig. 2A lower panel | | |
| Left (all mice) | Two-way repeated measure ANOVA | A Company of the Comp |
| | Interaction factor | F (5, 95) = 2.995, P=0.0148 |
| | Treatment factor | F (1, 19) = 28.00, P<0.0001 |
| | Time factor | F (3.220, 61.18) = 41.21, P<0.0001 |
| | Šídák's multiple comparisons test | *P < .05, **P < .01, ***P < .001 |
| Middle (females) | Two-way repeated measure ANOVA | A Company of the Comp |
| | Interaction factor | F (5, 40) = 4.713, P=0.0018 |
| | Treatment factor | F (1, 8) = 17.02, P=0.0033 |
| | Time factor | F (2.779, 22.23) = 31.66, P<0.0001 |
| | Šídák's multiple comparisons test | *P < .05, **P < .01 |
| Right (males) | Two-way repeated measure ANOVA | A Company of the Comp |
| | Interaction factor | F (5, 45) = 0.6068, P=0.6950 |
| | Treatment factor | F (1, 9) = 10.24, P=0.0108 |
| | Time factor | F (2.691, 24.22) = 15.43, P<0.0001 |
| Fig. 2B upper panel | | |
| Left (all mice) | Unpaired 2-tailed t-test | t=0.06504, df=19, P=0.9488 |
| Middle (females) | Unpaired 2-tailed t-test | t=0.9003, df=8, P=0.3942 |
| Right (males) | Unpaired 2-tailed t-test | t=0.7370, df=9, P=0.4799 |
| Fig. 2B lower panel | | |
| Left (all mice) | Unpaired 2-tailed t-test | t=5.291, df=19, P<0.0001 |
| Middle (females) | Unpaired 2-tailed t-test | t=4.125, df=8, P=0.0033 |
| Right (males) | Unpaired 2-tailed t-test | t=3.200, df=9, P=0.0108 |

Supplementary Material

| Fig. 2C upper panel | | | | | |
|---------------------|--------------------------------|------------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Left (all mice) | Two-way repeated measure ANOV | | | | |
| | Interaction factor | F (5, 84) = 1.411, P=0.2288 | | | |
| | Treatment factor | F (1, 19) = 4.694, P=0.0432 | | | |
| | Time factor | F (2.759, 46.35) = 0.5223, P=0.6 | 6542 | | |
| Middle (females) | Two-way repeated measure ANOV | | | | |
| | Interaction factor | F (5, 36) = 2.016, P=0.0997 | | | |
| | Treatment factor | F (1, 8) = 3.530, P=0.0971 | | | |
| | Time factor | F (1.482, 10.67) = 0.1453, P=0.8 | 3048 | | |
| Right (males) | Two-way repeated measure ANOV | A (mixed effects analysis) | | | |
| | Interaction factor | F (5, 38) = 0.9688, P=0.4491 | | | |
| | Treatment factor | F (1, 9) = 1.575, P=0.2411 | | | |
| | Time factor | F (1.905, 14.48) = 0.9849, P=0.3 | 3933 | | |
| Fig. 2C lower panel | | | | | |
| Left (all mice) | Two-way repeated measure ANOV | 4 | | | |
| | Interaction factor | F (5, 95) = 1.020, P=0.4104 | | | |
| | Treatment factor | F (1, 19) = 4.554, P=0.0461 | | | |
| | Time factor | F (1.690, 32.10) = 5.394, P=0.01 | 29 | | |
| Middle (females) | Two-way repeated measure ANOV | 4 | | | |
| | Interaction factor | F (5, 40) = 2.197, P=0.0737 | | | |
| | Treatment factor | F (1, 8) = 3.328, P=0.1055 | | | |
| | Time factor | F (1.459, 11.67) = 4.477, P=0.04 | 153 | | |
| Right (males) | Two-way repeated measure ANOVA | | | | |
| | Interaction factor | F (5, 45) = 0.4386, P=0.8192 | | | |
| | Treatment factor | F (1, 9) = 1.189, P=0.3039 | | | |
| | Time factor | F (2.333, 20.99) = 2.168, P=0.13 | 332 | | |
| Fig. 2D upper panel | | | | | |
| Left (all mice) | Unpaired 2-tailed t-test | t=2.300, df=19, P=0.0330 | | | |
| Middle (females) | Unpaired 2-tailed t-test | t=1.979, df=8, P=0.0831 | | | |
| Right (males) | Unpaired 2-tailed t-test | t=1.321, df=9, P=0.2192 | | | |
| Fig. 2D lower panel | | | | | |
| Left (all mice) | Unpaired 2-tailed t-test | t=2.131, df=19, P=0.0464 | | | |
| Middle (females) | Unpaired 2-tailed t-test | t=1.854, df=8, P=0.1008 | t=1.854, df=8, P=0.1008 | | |
| Right (males) | Unpaired 2-tailed t-test | t=1.084, df=9, P=0.3066 | | | |
| Fig. 2E | | | | | |
| Left (all mice) | Two-way repeated measure ANOV | A | | | |
| | Interaction factor | F (5, 95) = 2.190, P=0.0617 | | | |
| | Treatment factor | F (1, 19) = 19.19, P=0.0003 | | | |
| | Time factor | F (3.507, 66.63) = 7.639, P<0.00 | 001 | | |
| Middle (females) | Two-way repeated measure ANOV | 4 | | | |
| | Interaction factor | F (5, 40) = 2.181, P=0.0755 | | | |
| | Treatment factor | F (1, 8) = 10.05, P=0.0132 | | | |
| | Time factor | F (2.947, 23.58) = 4.349, P=0.01 | 45 | | |
| Right (males) | Two-way repeated measure ANOV | A | | | |
| | Interaction factor | F (5, 45) = 0.6413, P=0.6694 | | | |
| | Treatment factor | F (1, 9) = 8.275, P=0.0183 | | | |
| | Time factor | F (2.478, 22.31) = 3.553, P=0.03 | 375 | | |
| Fig. 2F | | | | | |
| Left (all mice) | Unpaired 2-tailed t-test | t=4.380, df=19, P=0.0003 | | | |
| Middle (females) | Unpaired 2-tailed t-test | t=3.170, df=8, P=0.0132 | | | |
| Right (males) | Unpaired 2-tailed t-test | t=2.877, df=9, P=0.0183 | | | |
| | | LF | RF | LH | RH |
| Fig. 3A (all mice) | Two-way repeated measure ANOV | 4 | | | |
| | Interaction factor | F (1, 24) = 0.6154, P=0.4404 | F (1, 24) = 0.01717, P=0.8968 | F (1, 24) = 0.08938, P=0.7675 | F (1, 24) = 0.02838, P=0.8676 |
| | Treatment factor | F (1, 24) = 5.359, P=0.0295 | F (1, 24) = 4.852, P=0.0375 | F (1, 24) = 4.018, P=0.0564 | F (1, 24) = 6.202, P=0.0201 |
| | Condition factor | F (1, 24) = 0.0006404, P=0.9800 | F (1, 24) = 0.06471, P=0.8014 | F (1, 24) = 1.430, P=0.2434 | F (1, 24) = 1.882, P=0.1828 |
| Fig. 3B (all mice) | Two-way repeated measure ANOV | 4 | | | |
| | | | | | |

| Trailered Harder F(1,29) = 5,847, F-0,0000 F(1,24) = 1,0000, F-0,0000 F(1,24) = 2,000, F-0,0000 F(1,15) = 0,0000, F-0,0000 F(1,15) = 0,00000, F-0,0000 F(1,15) = 0,0000, F-0,0000 | | Interaction factor | F (1, 24) = 0.5979, P=0.4469 | F (1, 24) = 2.546e-029, P>0.9999 | F (1, 24) = 1.158, P=0.2926 | F (1, 24) = 1.026, P=0.3213 |
|--|---|-----------------------------------|----------------------------------|--|-----------------------------|-----------------------------|
| Content factor | | Treatment factor | F (1 26) = 5.467 P=0.0280 | | F (1 24) = 4 075 P=0 0548 | F (1 24) = 5 840 P=0 0236 |
| Fig. 20 (tension) Tension (pasted measure AND/A) F(1, 15) = 0.01855, P=0.5264 F(1, 13) = 0.15075, P=0.02675 F(1, 13) = 0.01855, P=0.02675 F(1, 13) = 0.15075, P=0.02675 F(1, 13) = 0.01845, P=0.02675 F(1, 13) = 0.01815, P=0.02675 F(1, 13) = 0.01815, P=0.02675 F(1, 13) = 0.05712, P=0.02675 F(1, 13) = 0.05702, P=0.02675 F(1, 13) | | | | | | , , , |
| Interaction Indust | Fig. 3C (females) | | , , , , | (, , , , , , , , , , , , , , , , , , , | (, ,, | (, |
| Procession Pro | | Interaction factor | F (1, 13) = 0.04835, P=0.8294 | | | F (1, 13) = 1.409, P=0.2565 |
| Fig. 3D (females) Fig. 3D (fem | | Treatment factor | F (1, 13) = 6.555, P=0.0237 | F (1, 13) = 6.113, P=0.0280 | F (1, 13) = 6.307, P=0.0260 | F (1, 13) = 7.275, P=0.0183 |
| Pig. 30 (females) Tex-every repeated measure ANOVA F(1, 13) = 0.04216, P=0.0405 F(1, 13) = 0.05000, P=0.0855 F(1, 13) = 0.7895, P=0.0865 F(1, 13) = 0.7895, P=0.0865 F(1, 13) = 0.7895, P=0.0865 F(1, 13) = 0.0200, P=0.0200 F(1, 13 | | Condition factor | F (1, 13) = 0.1194, P=0.7352 | | | |
| Interpretion factor | Fig. 3D (females) | Two-way repeated measure ANOV | A | 7 -0.01 10 | 1 =0.0070 | 7 -0.0002 |
| Fig. 3E (reales) Condition factor Fig. 15 (reales) Towarrant factor Fig. 15 (reales) Towarrant factor Fig. 15 (reales) Towarrant factor Fig. 16 (reales) Towarrant factor Fig. 16 (reales) Towarrant factor Fig. 16 (reales) Towarrant factor Fig. 17 (real policy) Towarrant factor Fig. 18 (reales) Towarrant factor Fig. 19 (reales) Fig. 20 (reales) Towarrant factor Fig. 20 (reales) Fig. 30 (reales) Towarrant factor Fig. 30 (reales) Fig. 30 (reales) Fig. 30 (reales) Towarrant factor Fig. 30 (reales) Fig. 30 (reales) Towarrant factor Fig. 30 (reales) Fig. 30 | | Interaction factor | F (1, 13) = 0.04216, P=0.8405 | | | F (1, 13) = 3.145, P=0.0996 |
| Fig. 3E (mailed) The version registed measure ANDVA Interaction factor Fig. 19 - 0.6554, P-0.4425 Fig. 3F (mailed) Treatment factor Fig. 19 - 0.6554, P-0.4425 Fig. 19 - 0.2555, P-0.2571 Treatment factor Fig. 19 - 0.6554, P-0.4425 Fig. 19 - 0.2555, P-0.2571 Treatment factor Fig. 19 - 0.6574, P-0.5559 Fig. 19 - 0.6574, P-0.2559 Fig. 19 - 0.6574, P-0.2559 Fig. 19 - 0.6574, P-0.2575 Fig. 19 - 0.6574, P-0.25 | | Treatment factor | F (1, 13) = 5.438, P=0.0364 | F (1, 13) = 7.020, P=0.0200 | F (1, 13) = 7.021, P=0.0200 | F (1, 13) = 6.418, P=0.0250 |
| Fig. 58 (males) Newway repeated measure ANDVA Fig. 9 = 0.8494, P=0.4425 Fig. 9 = 0.8495, P=0.5111 Fig. 9 = 0.03195, P=0.9627 Fig. 9 = 0.03195, P=0.0319 Fig. 9 = 0.03195, P=0.03195 Fig. 9 = 0.03195, P=0.03195 Fig. 9 = 0.03195, P=0. | | Condition factor | F (1, 13) = 0.3795, P=0.5485 | | F (1, 13) = 1.316, P=0.2720 | F (1, 13) = 1.132, P=0.3067 |
| Interaction factor | Fig. 3E (males) | Two-way repeated measure ANOV | A | 7 -0.0021 | | |
| Treatment factor | | Interaction factor | F (1 9) = 0.6454 P=0.4425 | F (1 0) = 0.3455 P=0.5711 | F (1, 9) = 0.03195, | F (1 0) = 0.5894 P=0.4623 |
| Fig. 30 | | | | | | |
| Fig. 3F (make) Treament factor F(1,9) = 0.8670, P-0.3924 F(1,9) = 0.1070, P-0.7511 F(1,9) = 0.007390, F(| | | | | P=0.8110 | |
| Internation factor | | | , , , | F (1, 9) = 0.3455, P=0.5711 | F (1, 9) = 1.026, P=0.3376 | F (1, 9) = 0.8910, P=0.3698 |
| Treatment factor | Fig. 3F (males) | I wo-way repeated measure ANOV | A | E (1 0) = 0.04120 | | |
| Condition factor | | Interaction factor | F (1, 9) = 0.8070, P=0.3924 | | , , , | F (1, 9) = 0.1848, P=0.6774 |
| Fig. 4A left (all mice) Two-way repeated measure ANOVA Interaction factor F (5, 100) = 5.414, P=0.0002 Treatment factor F (1, 20) = 0.155, P=0.0067 Time factor F (3.129, 62.59) = 9.223, P=0.0001 Fig. 4A middle (females) Two-way repeated measure ANOVA Interaction factor F (5, 40) = 1.270, P=0.2880 Treatment factor F (1, 5) = 8.899, P=0.0175 Time factor F (3.302, 72.71) = 3.397, P=0.0276 Fig. 4A right (males) Treatment factor F (1, 5) = 4.846, P=0.0011 Treatment factor F (1, 5) = 4.846, P=0.0011 Treatment factor F (1, 10) = 4.013, P=0.0730 Time factor F (1, 41) = 3.084, P=0.0017 Treatment factor F (1, 41) = 0.003699, P=0.0121 Make CGRP vs. | | Treatment factor | F (1, 9) = 0.6519, P=0.4403 | F (1, 9) = 0.1070, P=0.7511 | | F (1, 9) = 0.5434, P=0.4798 |
| Interaction factor | | Condition factor | F (1, 9) = 0.8070, P=0.3924 | F (1, 9) = 2.019, P=0.1891 | F (1, 9) = 2.153, P=0.1763 | F (1, 9) = 1.663, P=0.2294 |
| Treatment factor F (1, 20) = 9.155, P=0.0067 | Fig. 4A left (all mice) | Two-way repeated measure ANOV | A | | | |
| Time factor | | Interaction factor | F (5, 100) = 5.414, P=0.0002 | | | |
| Stdák's multiple comparisons test | | Treatment factor | F (1, 20) = 9.155, P=0.0067 | | | |
| Fig. 4A middle (females) Two-way repeated measure ANOVA Interaction factor F (5, 40) = 1.270, P=0.2960 | | Time factor | F (3.129, 62.59) = 9.223, P<0.00 | 01 | | |
| Interaction factor | | Šídák's multiple comparisons test | *P < .05, **P < .01 | | | |
| Treatment factor F (1, 8) = 8.899, P=0.0175 Fig. 4A right (males) Two-way repeated measure ANOVA Interaction factor F (5, 50) = 4.946, P=0.0011 Treatment factor F (1, 10) = 4.013, P=0.0730 Time factor F (5, 50) = 4.946, P=0.0011 Treatment factor F (1, 10) = 4.013, P=0.0730 Time factor F (2, 74, 23.74) = 5.795, P=0.0065 Fig. 4B right (mildle) Unpaired 2-tailed t-test t=3.026, df=20, P=0.0067 Fig. 4B right (males) Unpaired 2-tailed t-test t=2.983, df=8, P=0.0175 Fig. 4B right (males) Unpaired 2-tailed t-test t=2.003, df=10, P=0.0730 Fig. 4B right (males) Unpaired 2-tailed t-test t=2.003, df=10, P=0.0730 Fig. 5A left (all mice) Two-way repeated measure ANOVA Interaction factor F (1, 41) = 3.884, P=0.0619 Treatment factor F (1, 41) = 0.003699, P=0.9518 Condition factor F (1, 41) = 17.87, P=0.0001 Fig. 5A middle (females) Two-way repeated measure ANOVA Interaction factor F (1, 20) = 8.429, P=0.0088 Treatment factor F (1, 20) = 9.630, P=0.0956 Paired 2-tailed t-test "**P < .001 Treatment factor F (1, 20) = 9.630, P=0.0956 Paired 2-tailed t-test "**P < .001 Two-way repeated measure ANOVA Interaction factor F (1, 10) = 0.05351, P=0.0156 Paired 2-tailed t-test "**P < .001 Two-way repeated measure ANOVA Fig. 5A right (males) Two-way repeated measure ANOVA Fig. 5A right (males) Two-way repeated measure ANOVA Fig. 5A right (males) Two-way repeated measure ANOVA Fig. 5B right (males) Two-way repeated measure ANO | Fig. 4A middle (females) | Two-way repeated measure ANOV | Α | | | |
| Time factor F (3.397, 27.17) = 3.397, P=0.0276 | | Interaction factor | F (5, 40) = 1.270, P=0.2960 | | | |
| Fig. 4A right (males) Two-way repeated measure ANOVA | | Treatment factor | F (1, 8) = 8.899, P=0.0175 | | | |
| Interaction factor | | Time factor | F (3.397, 27.17) = 3.397, P=0.02 | 76 | | |
| Treatment factor | Fig. 4A right (males) | | | | | |
| Time factor F (2.374, 23.74) = 5.795, P=0.0065 Fig. 4B left (all mice) Unpaired 2-tailed t-test t=3.026, df=20, P=0.0075 Fig. 4B middle (females) Unpaired 2-tailed t-test t=2.983, df=8, P=0.0175 Fig. 4B right (males) Unpaired 2-tailed t-test t=2.003, df=10, P=0.0730 Fig. 4B Female CGRP vs. | | | | | | |
| Fig. 4B left (all mice) Unpaired 2-tailed t-test t=3.026, df=20, P=0.0067 Fig. 4B middle (females) Unpaired 2-tailed t-test t=2.983, df=8, P=0.0175 Fig. 4B right (males) Fig. 4B right (males) Unpaired 2-tailed t-test t=2.903, df=10, P=0.0730 Fig. 4B Female CGRP vs. Male CGRP Male CGRP Fig. 5A left (all mice) Two-way repeated measure ANOVA Interaction factor F (1, 41) = 3.684, P=0.0619 Treatment factor F (1, 41) = 0.003699, P=0.9518 Condition factor F (1, 41) = 1.787, P=0.0001 Fig. 5A middle (females) Two-way repeated measure ANOVA Interaction factor F (1, 20) = 8.429, P=0.0088 Treatment factor F (1, 20) = 0.06922, P=0.7952 Condition factor F (1, 20) = 0.06922, P=0.07952 Condition factor F (1, 20) = 0.05922, P=0.07952 Todition factor F (1, 20) = 0.05923, P=0.0056 Paired 2-tailed t-test ""P < .001 Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 0.05351, P=0.8195 Fig. 5B Fig. 5B Female CGRP vs. Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | | | | | | |
| Fig. 4B middle (females) Unpaired 2-tailed t-test t=2.983, df=8, P=0.0175 Fig. 4B right (males) Unpaired 2-tailed t-test t=2.003, df=10, P=0.0730 Fig. 4B right (males) Unpaired 2-tailed t-test t=3.133, df=9, P=0.0121 Two-way repeated measure ANOVA Interaction factor F (1, 41) = 3.684, P=0.0619 Treatment factor F (1, 41) = 0.003699, P=0.9518 Condition factor F (1, 41) = 17.87, P=0.0001 Fig. 5A middle (females) Two-way repeated measure ANOVA Interaction factor F (1, 20) = 8.429, P=0.0088 Treatment factor F (1, 20) = 0.6992, P=0.7952 Condition factor F (1, 20) = 0.930, P=0.0056 Paired 2-tailed t-test "P < .001 Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor F (1, 20) = 0.930, P=0.0056 Treatment factor F (1, 20) = 0.930, P=0.0056 Treatment factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Fig. 5B right (males) Unpaired 2-tailed t-test "P < .05 Fig. 5B Fig. 5B Fig. 5B Fig. 5B Unpaired 2-tailed t-test "P < .05 | Fig. 4D left (all price) | | , , , , , | 65 | | |
| Fig. 4B right (males) Unpaired 2-tailed t-test t=2.003, df=10, P=0.0730 Fig. 4B Pemale CGRP vs. Male CGRP Fig. 5A left (all mice) Treatment factor Fig. 4.41) = 3.684, P=0.0619 Treatment factor Fig. 4.41) = 0.003699, P=0.9518 Condition factor Fig. 5A middle (females) Two-way repeated measure ANOVA Fig. 5A middle (females) Treatment factor Fig. 5A middle (females) Treatment factor Fig. 5A right (males) Treatment factor Fig. 5A right (males) Two-way repeated measure ANOVA Fig. 5A right (males) Two-way repeated measure ANOVA Treatment factor Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor Fig. 5B right (males) Two-way repeated measure ANOVA Interaction factor Fig. 5B right (males) Two-way repeated measure ANOVA Interaction factor Fig. 19 = 0.1018, P=0.7532 Treatment factor Fig. 19 = 0.1018, P=0.7532 Treatment factor Fig. 19 = 0.1018, P=0.7532 Treatment factor Fig. 5B remale CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | . , | • | | | | |
| Fig. 4B Female CGRP vs. Male CGRP vs. Male CGRP vs. Interaction factor F (1, 41) = 0.003699, P=0.9518 Fig. 5A left (all mice) Treatment factor F (1, 41) = 0.003699, P=0.9518 Condition factor F (1, 41) = 17.87, P=0.0001 Fig. 5A middle (females) Two-way repeated measure ANOVA Interaction factor F (1, 20) = 8.429, P=0.0088 Treatment factor F (1, 20) = 0.06922, P=0.7952 Condition factor F (1, 20) = 9.630, P=0.0056 Paired 2-tailed t-test ""P < .001 Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor F (1, 20) = 9.630, P=0.0056 Paired 2-tailed t-test ""P < .001 Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test "P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | | | | | | |
| Female CGRP vs. Unpaired 2-tailed t-test t=3.133, df=9, P=0.0121 | • • • | Unpaired 2-tailed t-test | t=2.003, dt=10, P=0.0730 | | | |
| Interaction factor F (1, 41) = 3.684, P=0.0619 Treatment factor F (1, 41) = 0.003699, P=0.9518 Condition factor F (1, 41) = 17.87, P=0.0001 Paired 2-tailed t-test ""P < 0.0001 Fig. 5A middle (females) Two-way repeated measure ANOVA Interaction factor F (1, 20) = 8.429, P=0.0088 Treatment factor F (1, 20) = 0.06922, P=0.7952 Condition factor F (1, 20) = 9.630, P=0.0056 Paired 2-tailed t-test ""P < .001 Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test "P < .05 Fig. 5B Female CGRP vs. Male CGRP vs. Male CGRP Interaction factor Male = 0.00314 (1-24, P=0.0041) | Female CGRP vs. Male CGRP | Unpaired 2-tailed t-test | t=3.133, df=9, P=0.0121 | | | |
| Treatment factor F (1, 41) = 0.003699, P=0.9518 Condition factor F (1, 41) = 17.87, P=0.0001 Paired 2-tailed t-test ""P < 0.0001 Fig. 5A middle (females) Two-way repeated measure ANOVA Interaction factor F (1, 20) = 8.429, P=0.0088 Treatment factor F (1, 20) = 0.06922, P=0.7952 Condition factor F (1, 20) = 9.630, P=0.0056 Paired 2-tailed t-test ""P < .001 Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test "P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | Fig. 5A left (all mice) | Two-way repeated measure ANOV | Α | | | |
| Condition factor F (1, 41) = 17.87, P=0.0001 Paired 2-tailed t-test ****P < 0.0001 Fig. 5A middle (females) Two-way repeated measure ANOVA Interaction factor F (1, 20) = 8.429, P=0.0088 Treatment factor F (1, 20) = 0.06922, P=0.7952 Condition factor F (1, 20) = 9.630, P=0.0056 Paired 2-tailed t-test ***P < .001 Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test *P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | | | | | | |
| Paired 2-tailed t-test ****P < 0.0001 Fig. 5A middle (females) Two-way repeated measure ANOVA Interaction factor F (1, 20) = 8.429, P=0.0088 Treatment factor F (1, 20) = 0.06922, P=0.7952 Condition factor F (1, 20) = 9.630, P=0.0056 Paired 2-tailed t-test ***P < .001 Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test *P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | | | , | | | |
| Fig. 5A middle (females) Two-way repeated measure ANOVA Interaction factor F (1, 20) = 8.429, P=0.0088 Treatment factor F (1, 20) = 0.06922, P=0.7952 Condition factor F (1, 20) = 9.630, P=0.0056 Paired 2-tailed t-test ***P < .001 Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test *P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | | | , | | | |
| Interaction factor F (1, 20) = 8.429, P=0.0088 Treatment factor F (1, 20) = 0.06922, P=0.7952 Condition factor F (1, 20) = 9.630, P=0.0056 Paired 2-tailed t-test ***P < .001 Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test *P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | E. 54 11 | | | | | |
| Treatment factor F (1, 20) = 0.06922, P=0.7952 Condition factor F (1, 20) = 9.630, P=0.0056 Paired 2-tailed t-test ***P < .001 Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test *P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | Fig. 5A middle (females) | | | | | |
| Condition factor F (1, 20) = 9.630, P=0.0056 Paired 2-tailed t-test ***P < .001 Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test *P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | | | (, , , , , | | | |
| Paired 2-tailed t-test ***P < .001 Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test *P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | | | | | | |
| Fig. 5A right (males) Two-way repeated measure ANOVA Interaction factor Treatment factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test *P < .05 Female CGRP vs. Male CGRP Two-way repeated measure ANOVA Interaction factor F (1, 19) = 0.1018, P=0.7532 The condition factor F (1, 19) = 0.1018, P=0.0103 F (1, 19) = 0.0018, P=0.0103 F (1, 19) = | | | , , , | | | |
| Interaction factor F (1, 19) = 0.1018, P=0.7532 Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test *P < .05 Female CGRP vs. Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | Fig. 5A right (males) | | | | | |
| Treatment factor F (1, 19) = 0.05351, P=0.8195 Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test *P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | g. or right (males) | | | | | |
| Condition factor F (1, 19) = 8.113, P=0.0103 Paired 2-tailed t-test *P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | | | | | | |
| Paired 2-tailed t-test *P < .05 Fig. 5B Female CGRP vs. Male CGRP Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 | | | , | | | |
| Female CGRP vs. Unpaired 2-tailed t-test t=3.170, df=24, P=0.0041 Male CGRP | | | | | | |
| | Fig. 5B Female CGRP vs. Male CGRP | | | | | |
| | Fig. 5C left (all mice) | Two-way repeated measure ANOV | Α | | | |

Supplementary Material

| | Interaction factor | F (1, 41) = 0.01288, P=0.9102 | |
|---|--------------------------------|--------------------------------|--|
| | Treatment factor | F (1, 41) = 0.005324, P=0.9422 | |
| | Condition factor | F (1, 41) = 44.42, P<0.0001 | |
| | Paired 2-tailed t-test | ***P < .001, ****P < .0001 | |
| Fig. 5C middle (females) | Two-way repeated measure ANOVA | | |
| | Interaction factor | F (1, 20) = 0.1767, P=0.6787 | |
| | Treatment factor | F (1, 20) = 0.7693, P=0.3908 | |
| | Condition factor | F (1, 20) = 14.41, P=0.0011 | |
| | Paired 2-tailed t-test | **P < .01 | |
| Fig. 5C right (males) | Two-way repeated measure ANOVA | | |
| | Interaction factor | F (1, 19) = 0.2071, P=0.6542 | |
| | Treatment factor | F (1, 19) = 1.028, P=0.3233 | |
| | Condition factor | F (1, 19) = 30.49, P<0.0001 | |
| | Paired 2-tailed t-test | **P < .01 | |
| Fig. 5D Female CGRP vs. Male CGRP | Unpaired 2-tailed t-test | t=0.4501, df=24, P=0.6567 | |
| Fig. 6A right (all mice) | Two-way repeated measure ANOVA | | |
| | Interaction factor | F (1, 55) = 4.902, P=0.0310 | |
| | Treatment factor | F (1, 55) = 0.7006, P=0.4062 | |
| | Condition factor | F (1, 55) = 10.26, P=0.0023 | |
| | Paired 2-tailed t-test | **P < .01 | |
| Fig. 6B right (females) | Two-way repeated measure ANOVA | A | |
| | Interaction factor | F (1, 29) = 2.756, P=0.1077 | |
| | Treatment factor | F (1, 29) = 0.08961, P=0.7668 | |
| | Condition factor | F (1, 29) = 9.036, P=0.0054 | |
| | Paired 2-tailed t-test | *P < .05 | |
| Fig. 6C right (males) | Two-way repeated measure ANOVA | 4 | |
| | Interaction factor | F (1, 24) = 2.309, P=0.1417 | |
| | Treatment factor | F (1, 24) = 0.8393, P=0.3687 | |
| | Condition factor | F (1, 24) = 3.282, P=0.0826 | |
| Changes in mean pixel area: Female CGRP vs. Male CGRP | Unpaired 2-tailed t-test | t=0.5501, df=25, P=0.5871 | |
| Suppl. Fig. 2A | Pearson correlation | r=0.6290, P=0.0023 | |
| Suppl. Fig. 2B | Pearson correlation | r=-0.2418, P=0.5307 | |
| Suppl. Fig. 2C | Pearson correlation | r=-0.4113, P=0.2714 | |
| Suppl. Fig. 2D | Pearson correlation | r=0.6978, P=0.0170 | |