

Figure	p, F, np2 stats: Interaction- Genotype X Exposure	p, F, np2 stats: Genotype	p, F, np2 stats: Exposure	Multiple comparison Sidak adjusted p value with 95% CI and Hedges' g :	Multiple comparison Sidak adjusted p value with 95% CI and Hedges' g :	Multiple comparison Sidak adjusted p value with 95% CI and Hedges' g :
				Exposure effect in val/val	Exposure effect in met/met	Genotype effect in air exposed animals
1a CA1 volume (P15) Female	p = 0.0066* F(1,28) = 8.622, np2 = 0.235	p = 0.1935 F(1,28) = 1.770 np2 = 0.06	p = 0.4608 F(1,28) = 0.4608 np2 = 0.020	p = 0.2483 CI = -96011650 to 20019400 g = 0.61	p = 0.0289* CI = 5949225 to 121980275 g = 1.62	p = 0.4618 CI = -85863150 to 30167900 g = 0.63
1b CA3 volume (P15) Female	p = 0.0741 F(1,28) = 3.443 np2 = 0.11	p = 0.2018 F(1,28) = 1.7090 np2 = 0.058	p = 0.5450 F(1,28) = 0.3754 np2 = 0.013	p = 0.6241 CI = -81112898 to 37128648 g = 0.4	p = 0.1753 CI = -15448898 to 102792648 g = 0.87	p = 0.9107 CI = -68824023 to 49417523 g = 0.21
1c DG volume (P15) Female	p = 0.0177* F(1,28) = 6.356 np2 = 0.185	p = 0.4974 F(1,28) = 0.4727 np2 = 0.017	p = 0.2364 F(1,28) = 1.464 np2 = 0.050	p = 0.5927 CI = -112220442 to 48970442 g = 0.41	p = 0.0267* CI = 9400683 to 170591567 g = 1.33	p = 0.3686 CI = -124822067 to 36368817 g = 0.62
1d CA1 volume (P15) Male	p = 0.0080** F(1,28) = 8.153 np2 = 0.091	p = 0.1053 F(1,28) = 2.802 np2 = 0.091	p = 0.1988 F(1,28) = 1.732 np2 = 0.058	p = 0.4898 CI = -74600381 to 27545631 g = 0.64	p = 0.0127* CI = 12684619 to 114830631 g = 1.19	p = 0.6526 CI = -69131381 to 33014631 g = 0.38
1e CA3 volume (P15) Male	p = 0.0304* F(1,28) = 5.200 np2 = 0.157	p = 0.0470* F(1,28) = 4.316 np2 = 0.134	p = 0.5437 F(1,28) = 0.378 np2 = 0.013	p = 0.4358 CI = -68874907 to 23054407 g = 0.58	p = 0.0978 CI = -6140407 to 85788907 g = 0.93	p = 0.9872 CI = -48753532 to 43175782 g = 0.07
1f DG volume (P15) Male	p = 0.3004 F(1,28) = 1.1130 np2 = 0.038	p = 0.1157 F(1,28) = 2.636 np2 = 0.086	p = 0.3113 F(1,28) = 1.063 np2 = 0.037	p = 0.9998 CI = -78757971 to 77632796 g = 0.01	p = 0.2797 CI = -29371259 to 127019509 g = 0.62	p = 0.9044 CI = -64894759 to 91496009 g = 0.21
2a- Zero maze Time in open arms % Female	p = 0.0861 F(1,53) = 3.058 np2 = 0.055	p = 0.9666 F(1,53) = 0.001 np2 < 0.001	p = 0.4672 F(1,53) = 0.5362 np2 = 0.010	p = 0.6238 CI = -11.46 to 5.157 g = 0.26	p = 0.2483 CI = -3.911 to 19.29 g = 0.92	p = 0.3631 CI = -15.44 to 4.337 g = 0.54
2b- Zero maze Open time frequency Female	p = 0.5647 F(1,53) = 0.3358 np2 = 0.006	p = 0.7405 F(1,53) = 0.1108 np2 = 0.002	p = 0.6499 F(1,53) = 0.2083 np2 = 0.004	p = 0.6127 CI = -14.35 to 6.348 g = 0.27	p = 0.9964 CI = -13.98 to 14.93 g = 0.05	p = 0.9803 CI = -13.27 to 11.37 g = 0.08
2c- Zero maze Total distance moved Female	p = 0.8745 F(1,53) = 0.0252 np2 < 0.001	p = 0.0447* F(1,53) = 4.226 np2 = 0.074	p = 0.4861 F(1,53) = 0.4921 np2 = 0.009	p = 0.8725 CI = -1856 to 1231 g = 0.12	p = 0.8392 CI = -2651 to 1660 g = 0.66	p = 0.2186 CI = -561.8 to 3113 g = 0.81
2d- Zero maze Velocity Female	p = 0.9254 F(1,53) = 0.0088 np2 < 0.001	p = 0.0355* F(1,53) = 4.655 np2 = 0.081	p = 0.4665 F(1,53) = 0.5381 np2 = 0.010	p = 0.8279 CI = -6.531 to 4.015 g = 0.14	p = 0.8502 CI = -8.992 to 5.735 g = 0.65	p = 0.2082 CI = -1.846 to 10.71 g = 0.85
2e- Zero maze Time in open arms % Male	p = 0.3536 F(1,69) = 0.8721 np2 = 0.012	p = 0.5511 F(1,69) = 0.3589 np2 = 0.005	p = 0.0012** F(1,69) = 11.36 np2 = 0.141	p = 0.1443 CI = -15.54 to 1.815 g = 0.59	p = 0.0096** CI = -21.63 to -2.611 g = 0.94	p = 0.4746 CI = -4.654 to 13.29 g = 0.36
2f- Zero maze Open time frequency Male	p = 0.5738 F(1,69) = 0.3194 np2 = 0.005	p = 0.9949 F(1,69) < 0.0001 np2 = <0.001	p = 0.0107* F(1,69) = 6.877 np2 = 0.091	p = 0.2458 CI = -17.68 to 3.524 g = 0.47	p = 0.0677 CI = -22.58 to 0.6537 g = 0.76	p = 0.8995 CI = -8.992 to 12.92 g = 0.13
2g- Zero maze Total distance moved Male	p = 0.5837 F(1,69) = 0.3032 np2 = 0.004	p = 0.0226* F(1,69) = 5.439 np2 = 0.073	p = 0.1110 F(1,69) = 2.606 np2 = 0.036	p = 0.6783 CI = -947.2 to 461.1 g = 0.27	p = 0.2730 CI = -1266 to 277.1 g = 0.46	p = 0.0829 CI = -69.28 to 1387 g = 0.65
2h- Zero maze Velocity Male	p = 0.6055 F(1,69) = 0.2693 np2 = 0.004	p = 0.0131* F(1,69) = 6.488 np2 = 0.086	p = 0.1075 F(1,69) = 2.66 np2 = 0.037	p = 0.6546 CI = -3.216 to 1.511 g = 0.28	p = 0.2778 CI = -4.239 to 0.9416 g = 0.46	p = 0.0613 CI = -0.09196 to 4.795 g = 0.70
5a DCX cell density Dorsal GCL	p = 0.1516 F(1,36) = 2.146 np2 = 0.056	p = 0.2639 F(1,36) = 1.288 np2 = 0.035	p = 0.7486 F(1,36) = 0.1043 np2 = 0.003	p = 0.6690 CI = -6.659e-006 to 3.235e-006 g = 0.42	p = 0.3826 CI = -2.267e-006 to 7.628e-006 g = 0.47	p = 0.9664 CI = -5.442e-006 to 4.452e-006 g = 0.09
5b DCX cell density Ventral GCL	p = 0.2118 F(1,36) = 1.616 np2 = 0.043	p = 0.0161* F(1,36) = 6.384 np2 = 0.151	p = 0.0393* F(1,36) = 4.577 np2 = 0.113	p = 0.0418* CI = 1.33e-007 to 8.071e-006 g = 0.96	p = 0.7913 CI = -2.925e-006 to 5.013e-006 g = 0.29	p = 0.0216* CI = 5.987e-007 to 8.536e-006 g = 1.12

Supplemental Table 2. Detailed statistics from BDNF genotype X exposure condition two-way ANOVAs from Figures 1, 2, and 5. The BDNF genotype X exposure interaction, genotype, and exposure p values and F ratios are presented. Post-hoc analysis of exposure condition within BDNF genotype, as well as of genotype effect within air exposed animals are also presented, with Sidak multiplicity adjusted p values and 95% confidence intervals.