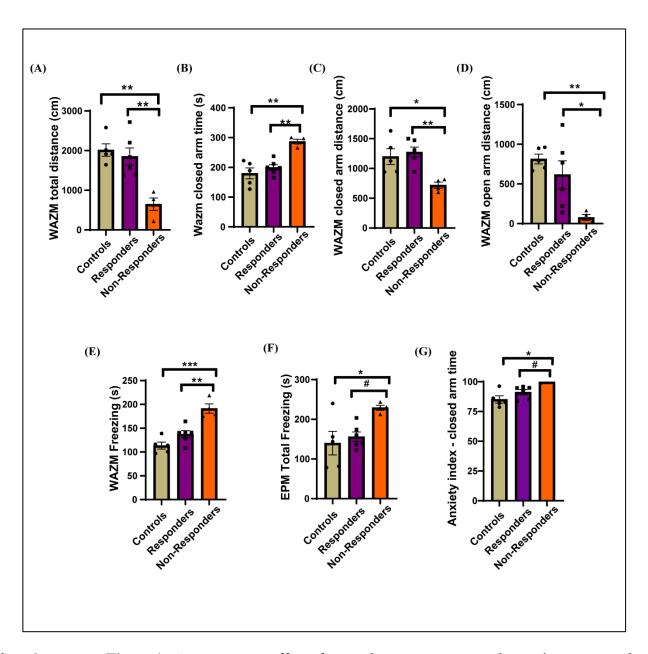


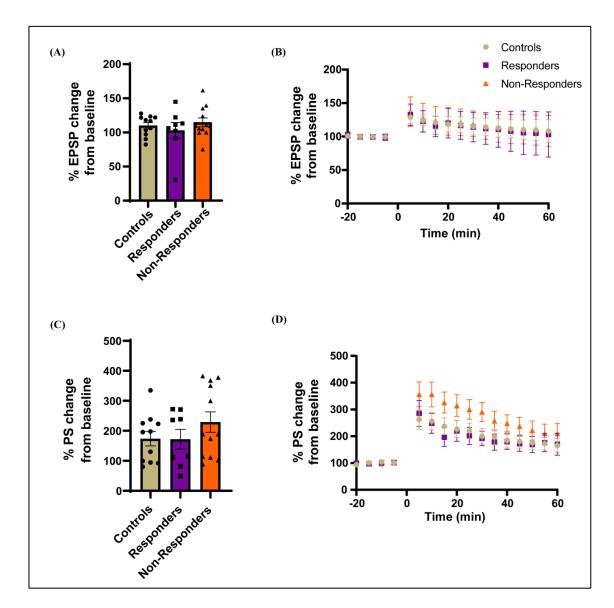
## Supplementary Material

## 1 Supplementary Figures



**Supplementary Figure 1.** Average group effect of *controls*, treatment *responders* and *non-responders* used in western blot experiments on behavioural parameters of WAZM and EPM. (A) Total distance travelled in WAZM by the *non-responders* was the least while *responders* and *control* travelled similar distance [Ordinary one-way ANOVA ( $F_{(2,12)} = 13.51$ , p = 0.0008); Bonferroni's post hoc test  $p^{**}<0.001$ ]. (B) Time spent in the WAZM closed arms was the highest by the *non-responders* but

responders and controls spent similar time [Ordinary one-way ANOVA ( $F_{(2,12)} = 16.05$ , p = 0.0004); Bonferroni's post hoc test p\*\*<0.01 p\*\*\*<0.0001]. (C) Distance travelled in the closed arms was the least by non-responders but responders and controls traversed similar distance [Ordinary one-way ANOVA ( $F_{(2,12)} = 8.317$ , p = 0.0054); Bonferroni's post hoc test p\*<0.05 p\*\*<0.01]. (D) Distance travelled in the open arm of the WAZM was least by the non-responders while responders and controls covered similar istances [Ordinary one-way ANOVA ( $F_{(2,12)} = 7.581$ , p = 0.0074); Bonferroni's post hoc test p\*<0.05 p\*\*<0.01]. (E) Total time spent freezing in the WAZM was highest amongst the nonresponders but responders and controls spent similar time freezing [Ordinary one-way ANOVA (F<sub>(2,12)</sub> = 21.15, p = 0.0001); Bonferroni's post hoc test  $p^{**}<0.01$ ,  $p^{***}<0.0001$ ]. (H) Time spent freezing in the EPM was higher in the non-responders than the controls [Ordinary one-way ANOVA ( $F_{(2,12)}$  = 5.293, p = 0.0225); Bonferroni's post hoc test p\*\*<0.05, p<sup>#</sup> = 0.0663]. A similarly strong trend was also observed between responders and non-responders (I) Anxiety index in the EPM was higher in the non-responders than the controls. A similarly strong trend was also observed between responders and non-responders. [Kruskal-Wallis test (H(3) = 9.165, p = 0.002); Dunn's post hoc test p\*\*<0.01, p<sup>#</sup>= 0.0843] All data represented as mean  $\pm$  SEM. Controls (n = 5), treatment responders (n = 6), treatment non-responders (n = 4).



**Supplementary Figure 2.** (A) Sixty minutes following the application of TBS, *controls, responders* and *non-responders* showed increase in EPSP slope than baseline levels. (B) However no difference was observed between the groups across time in EPSP slope [2-way repeated measures, interaction effect ( $F_{(22,319)} = 0.8256$ ,  $F_{(22,319)} =$