

**Figure 7 – Supplement 1: Chemogenetic stimulation of the LC:PFC module is anxiogenic in chronic pain**(A) Timeline of nerve injury and open field testing  
(B) Representative heat maps showing activity in the open field test (OFT) after saline or PSEM308 (10 mg/kg) injection for sham, **LC:SC** and **LC:PFC** groups. Chemogenetic activation of **LC:PFC** reduced the time spent in the centre of the arena and increased immobility but PSEM308 had no effect on **LC:SC** transduced rats or sham rats (2-way repeated measures ANOVA with Bonferroni’s multiple comparison PSEM308 vs saline, \* P<0.05).  
(C) Co-application of reboxetine (1 mg/kg) and PSEM308 (10 mg/kg) in **LC:PFC** rats increased immobility time, decreased the distance travelled and decreased the time spent in the centre of the arena as compared to reboxetine alone.   
Co-application of reboxetine and PSEM308 (10 mg/kg) also increased immobility as compared to PSEM308 alone (paired t-test PSEM308 vs PSEM308 + Reboxetine, + P<0.05).