Wise et al. Supplement

Cholinergic Modulation of Disorder-Relevant Neural Circuits in Generalized Anxiety Disorder

Supplemental Information

Table S1. Activation elicited by viewing fearful faces in the placebo condition (p < .05 FDR corrected). There were no clusters that showed significant deactivation in the fearful face condition relative to baseline.

Region	Brodmann areas	Cluster extent (voxels)	τ	p	MNI coordinates
Cerebellum, lingual gyrus, superior occipital gyrus, middle occipital gyrus, calcarine sulcus	18, 19	7730	10.56	< .001	12, -55, -19
Precentral gyrus	6	118	6.63	< .001	45, -7, 53
Inferior frontal gyrus	44	166	6.41	< .001	42, 17, 20
Inferior frontal gyrus	44	44	6.13	0.007	-33, 14, 23
Middle frontal gyrus	46	91	5.87	< .001	-27, 41, 26
Superior frontal gyrus	46	73	5.8	0.001	24, 44, 14
Postcentral gyrus, angular gyrus	40, 7	201	5.61	< . 001	27, -37, 44
Supramarginal gyrus	42	45	4.89	0.007	60, -40, 26

Table S2. Comparisons between drug conditions for all emotions. F-tests represent the overall main effect of drug in an ANOVA, while t-tests represent the comparison between each drug and placebo. Degrees of freedom differ across drug conditions due to differing numbers of excluded subjects based on motion. Positive *t* values represent a reduction in activity relative to placebo.

Emotion	Hemisphere	F-test	Lorazepam	BNC210 low dose	BNC210 high dose
Fear	Left	F(3, 69) = 1.53 p = 0.38	t(19) = 1.78 p = 0.088	t(19) = 2.78 p = 0.011	t(19) = 0.2 p = 0.61
	Right	F(3, 69) = 2.56 p = 0.12	t(19) = 2.12 p = 0.047	t(19) = 3.07 p = 0.006	t(19) = 0.07 p = 0.69
Нарру	Left	F(3, 73) = 0.62 p = 0.85	t(18) = 1.82 p = 0.08	t(18) = 0.97 p = 0.31	t(18) = 0.97 p = 0.31
	Right	F(3, 73) = 0.19 p = 0.99	t(18) = 0.80 p = 0.39	t(18) = 1.30 p = 0.20	t(18) = 0.46 p = 0.54
Sad	Left	F(3, 61) = 2.01 p = 0.22	t(15) = 2.74 p = 0.015	t(15) = 1.03 p = 0.30	t(15) = -0.98 p = 0.97
	Right	F(3, 61) = 0.81 p = 0.74	t(15) = 1.64 p = 0.12	t(15) = 0.58 p = 0.49	t(15) = -0.31 p = 0.85