

Supplementary materials

The effect of optimistic expectancies on attention bias: Neural and behavioral correlates

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Supplementary Table 1. Areas displaying differential activation for incongruent versus congruent information during the visual search phase following optimistic and pessimistic expectancies separately.

H	Brain Region	<i>k</i>	<i>x</i>	<i>y</i>	<i>z</i>	<i>T_{max}</i>	<i>p_{FWE}</i>
Optimistic expectancies: Gain Target > Loss Target							
Whole-Brain Analysis							
R	SMG, STG	45	64	-22	25	6.6	.002
L	MOFC	20	-2	45	-10	6.24	.008
Optimistic expectancies: Loss Target > Gain Target							
Whole-Brain Analysis							
R	SMA, MeFG, MCA	426	-4	14	48	8.78	<.001
R	INS	102	33	25	-3	8.22	<.001
L	INS	38	-34	21	-5	8.09	<.001
L	SOG, MOG, SPL, IPL, PCU	625	-24	-73	38	7.82	<.001
L	PreCG, IFGpo, IFGpt	360	-38	0	50	7.78	<.001
R	SOG, MOG, SPL, IPL, PCU, ANG	471	27	-63	40	7.66	<.001
R	MFG, SFG	68	33	2	58	7.45	<.001
L	SFG, MFG, PreCG	112	-24	0	63	7.41	<.001
R	SMG	14	41	-39	43	6.87	.001
R	IFGpo, PreCG	11	37	6	30	6.34	.006
Pessimistic expectancies: Gain Target > Loss Target							
Whole-Brain Analysis							
R	MeFG	55	5	35	53	7.46	<.001

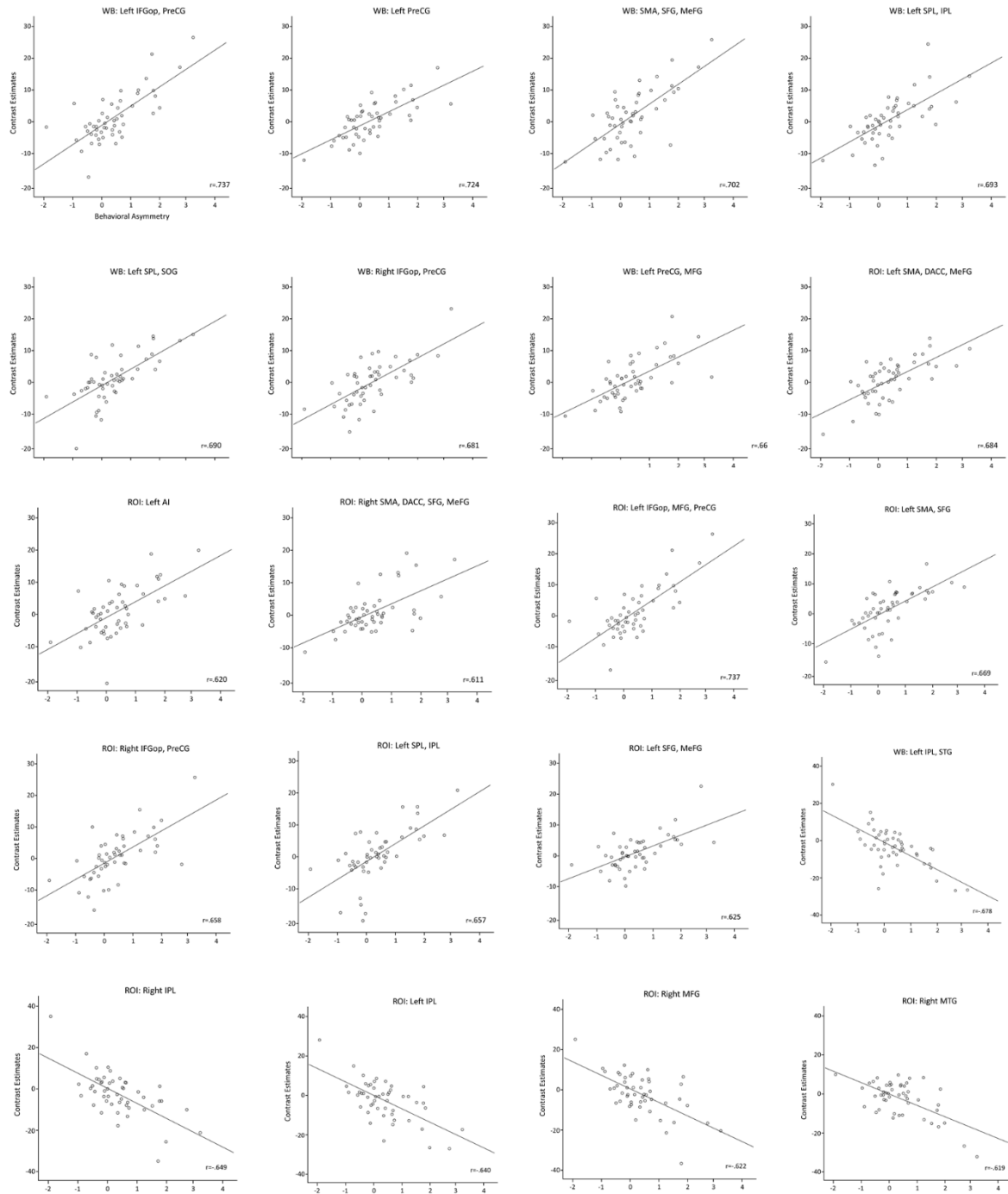
L	IPL, SPL, SOG, MOG	295	-36	-51	43	7.28	<.001
R	SPL, SOG, ANG	165	25	-69	53	7.15	<.001
R	INS	36	35	23	-3	6.84	.001
R	IFGpt	14	49	25	30	6.3	.006

Pessimistic expectancies: Loss Target > Gain Target

Whole-Brain Analysis

no significant results

Note. All coordinates (x, y, z) of peak voxel activation are given in Montreal Neurological Institute (MNI) space; *k* = cluster size in number of voxels (voxel size = 2 x 2 x 2.5 mm); L = left, R = right, B = bilateral; for exploratory whole-brain analyses, a clustering threshold of $p < .05$, whole-brain FWE corrected, and an additional cluster-extent threshold of 10 voxels was used; ANG = Angular Gyrus, CAL = Calcarine Sulcus, IFGpo = Inferior Frontal Gyrus - pars opercularis, IFGpt = Inferior Frontal Gyrus – pars triangularis, INS = Insula, IPL = Inferior Parietal Lobule, LING = Lingual Gyrus, MCA = Midcingulate Area, MeFG = Medial Frontal Gyrus, MFG = Middle Frontal Gyrus, MOFC = Medial Orbitofrontal Cortex, MOG = Middle Occipital Gyrus, PCU = Precuneus, PreCG = Precentral Gyrus, SFG = Superior Frontal Gyrus, SOG = Superior Occipital Gyrus, SMA = Supplementary Motor Area, SMG = Supramarginal Gyrus, SPL = Superior Parietal Lobule, STG = Superior Temporal Gyrus.



Supplementary Figure 1. Scatterplots displaying the relation between neural and behavioral asymmetry. Behavioral asymmetry: (DiffGainCue > DiffLossCue) in reaction times. Neural asymmetry score: (DiffGainCue > DiffLossCue) in neural activity related to the visual search phase in areas specified in Table 2.