Supplementary Material

Patterns of Regional Cerebral Blood Flow as a Function of Obesity in Adults

Supplementary Material 1. Obesity Categories and Baseline Perfusion (separate Word document)

Supplementary Material 2. Obesity Categories and Concentration Perfusion (separate Word document)

Supplementary Table 1. Partial Correlations Between BMI and Resting/Concentration Perfusion

Brain Regions		BMI
Baseline_Amygdala_L	Correlation	-0.173
	Significance (2-tailed)	< 0.001
Baseline_Amygdala_R	Correlation	-0.179
	Significance (2-tailed)	< 0.001
Baseline_Angular_L	Correlation	-0.212
	Significance (2-tailed)	< 0.001
Baseline_Angular_R	Correlation	-0.201
	Significance (2-tailed)	< 0.001
Baseline Calcarine L	Correlation	-0.183
	Significance (2-tailed)	< 0.001
Baseline_Calcarine_R	Correlation	-0.209
	Significance (2-tailed)	< 0.001
Baseline Caudate L	Correlation	-0.196
	Significance (2-tailed)	< 0.001
Baseline_Caudate_R	Correlation	-0.205
	Significance (2-tailed)	< 0.001
Baseline_Cerebellum_10_L	Correlation	-0.138
	Significance (2-tailed)	< 0.001
Baseline_Cerebellum_10_R	Correlation	-0.073
	Significance (2-tailed)	< 0.001
Baseline Cerebellum 3 L	Correlation	-0.214
	Significance (2-tailed)	< 0.001
Baseline_Cerebellum_3_R	Correlation	-0.204
	Significance (2-tailed)	< 0.001
Baseline_Cerebellum_4_5_L	Correlation	-0.218

	Significance (2-tailed)	< 0.001
Baseline Cerebellum 4 5 R	Correlation	-0.218
Busering_Coroccaum_1_0_10	Significance (2-tailed)	< 0.001
Baseline Cerebellum 6 L	Correlation	-0.232
Busering_Coreconding_CE	Significance (2-tailed)	< 0.001
Baseline Cerebellum 6 R	Correlation	-0.226
	Significance (2-tailed)	< 0.001
Baseline Cerebellum 7b L	Correlation	-0.106
	Significance (2-tailed)	< 0.001
Baseline Cerebellum 7b R	Correlation	-0.082
	Significance (2-tailed)	< 0.001
Baseline Cerebellum 8 L	Correlation	-0.125
	Significance (2-tailed)	< 0.001
Baseline Cerebellum 8 R	Correlation	-0.162
	Significance (2-tailed)	< 0.001
Baseline Cerebellum 9 L	Correlation	-0.145
	Significance (2-tailed)	< 0.001
Baseline Cerebellum 9 R	Correlation	-0.171
	Significance (2-tailed)	< 0.001
Baseline_Cerebellum_Crus1_L	Correlation	-0.195
	Significance (2-tailed)	< 0.001
Baseline_Cerebellum_Crus1_R	Correlation	-0.151
	Significance (2-tailed)	< 0.001
Baseline_Cerebellum_Crus2_L	Correlation	-0.097
	Significance (2-tailed)	< 0.001
Baseline_Cerebellum_Crus2_R	Correlation	-0.091
	Significance (2-tailed)	< 0.001
Baseline_Cingulum_Ant_L	Correlation	-0.212
	Significance (2-tailed)	< 0.001
Baseline_Cingulum_Ant_R	Correlation	-0.198
	Significance (2-tailed)	< 0.001
Baseline_Cingulum_Mid_L	Correlation	-0.231
	Significance (2-tailed)	< 0.001
Baseline_Cingulum_Mid_R	Correlation	-0.234
	Significance (2-tailed)	< 0.001
Baseline_Cingulum_Post_L	Correlation	-0.172
	Significance (2-tailed)	< 0.001
Baseline_Cingulum_Post_R	Correlation	-0.158
	Significance (2-tailed)	< 0.001

Baseline Cuneus L	Correlation	-0.198
	Significance (2-tailed)	< 0.001
Baseline Cuneus R	Correlation	-0.2
	Significance (2-tailed)	< 0.001
Baseline Frontal Inf Oper L	Correlation	-0.25
	Significance (2-tailed)	< 0.001
Baseline Frontal Inf Oper R	Correlation	-0.257
	Significance (2-tailed)	< 0.001
Baseline Frontal Inf Orb L	Correlation	-0.17
	Significance (2-tailed)	< 0.001
Baseline Frontal Inf Orb R	Correlation	-0.193
	Significance (2-tailed)	< 0.001
Baseline Frontal Inf Tri L	Correlation	-0.252
	Significance (2-tailed)	< 0.001
Baseline Frontal Inf Tri R	Correlation	-0.219
	Significance (2-tailed)	< 0.001
Baseline Frontal Mid L	Correlation	-0.255
	Significance (2-tailed)	< 0.001
Baseline Frontal Mid Orb L	Correlation	-0.209
	Significance (2-tailed)	< 0.001
Baseline Frontal Mid Orb L 9	Correlation	-0.199
	Significance (2-tailed)	< 0.001
Baseline_Frontal_Mid_Orb_R	Correlation	-0.211
	Significance (2-tailed)	< 0.001
Baseline_Frontal_Mid_Orb_R_10	Correlation	-0.161
	Significance (2-tailed)	< 0.001
Baseline_Frontal_Mid_R	Correlation	-0.266
	Significance (2-tailed)	< 0.001
Baseline_Frontal_Sup_L	Correlation	-0.241
	Significance (2-tailed)	< 0.001
Baseline_Frontal_Sup_Medial_L	Correlation	-0.248
	Significance (2-tailed)	< 0.001
Baseline_Frontal_Sup_Medial_R	Correlation	-0.246
	Significance (2-tailed)	< 0.001
Baseline_Frontal_Sup_Orb_L	Correlation	-0.178
	Significance (2-tailed)	< 0.001
Baseline_Frontal_Sup_Orb_R	Correlation	-0.2
	Significance (2-tailed)	< 0.001
Baseline_Frontal_Sup_R	Correlation	-0.263

	Significance (2-tailed)	< 0.001
Baseline Fusiform L	Correlation	-0.207
Buseline I usitoriii L	Significance (2-tailed)	<0.001
Baseline Fusiform R	Correlation	-0.209
Buseline I usitoriii IC	Significance (2-tailed)	<0.001
Baseline Heschl L	Correlation	-0.204
Buseline_Tresein_E	Significance (2-tailed)	< 0.001
Baseline Heschl R	Correlation	-0.196
Busenine_Heseni_R	Significance (2-tailed)	< 0.001
Baseline_Hippocampus_L	Correlation	-0.194
Buseline_IIIppocumpus_E	Significance (2-tailed)	< 0.001
Baseline Hippocampus R	Correlation	-0.216
	Significance (2-tailed)	< 0.001
Baseline Insula L	Correlation	-0.221
	Significance (2-tailed)	< 0.001
Baseline Insula R	Correlation	-0.233
	Significance (2-tailed)	< 0.001
Baseline_Lingual_L	Correlation	-0.211
3	Significance (2-tailed)	< 0.001
Baseline_Lingual_R	Correlation	-0.226
	Significance (2-tailed)	< 0.001
Baseline Occipital Inf L	Correlation	-0.129
	Significance (2-tailed)	< 0.001
Baseline_Occipital_Inf_R	Correlation	-0.115
	Significance (2-tailed)	< 0.001
Baseline_Occipital_Mid_L	Correlation	-0.19
	Significance (2-tailed)	< 0.001
Baseline_Occipital_Mid_R	Correlation	-0.167
	Significance (2-tailed)	< 0.001
Baseline_Occipital_Sup_L	Correlation	-0.186
	Significance (2-tailed)	< 0.001
Baseline_Occipital_Sup_R	Correlation	-0.178
	Significance (2-tailed)	< 0.001
Baseline_Olfactory_L	Correlation	-0.189
	Significance (2-tailed)	< 0.001
Baseline_Olfactory_R	Correlation	-0.182
	Significance (2-tailed)	< 0.001
Baseline_Pallidum_L	Correlation	-0.2
	Significance (2-tailed)	< 0.001

Baseline Pallidum R	Correlation	-0.219
	Significance (2-tailed)	< 0.001
Baseline Paracentral Lobule L	Correlation	-0.178
	Significance (2-tailed)	< 0.001
Baseline Paracentral Lobule R	Correlation	-0.216
	Significance (2-tailed)	< 0.001
Baseline_ParaHippocampal_L	Correlation	-0.168
	Significance (2-tailed)	< 0.001
Baseline_ParaHippocampal_R	Correlation	-0.18
	Significance (2-tailed)	< 0.001
Baseline Parietal Inf L	Correlation	-0.221
	Significance (2-tailed)	< 0.001
Baseline Parietal Inf R	Correlation	-0.248
	Significance (2-tailed)	< 0.001
Baseline Parietal Sup L	Correlation	-0.171
	Significance (2-tailed)	< 0.001
Baseline Parietal Sup R	Correlation	-0.177
	Significance (2-tailed)	< 0.001
Baseline_Postcentral_L	Correlation	-0.257
	Significance (2-tailed)	< 0.001
Baseline_Postcentral_R	Correlation	-0.257
	Significance (2-tailed)	< 0.001
Baseline_Precentral_L	Correlation	-0.239
	Significance (2-tailed)	< 0.001
Baseline_Precentral_R	Correlation	-0.276
	Significance (2-tailed)	< 0.001
Baseline_Precuneus_L	Correlation	-0.223
	Significance (2-tailed)	< 0.001
Baseline_Precuneus_R	Correlation	-0.234
	Significance (2-tailed)	< 0.001
Baseline_Putamen_L	Correlation	-0.217
	Significance (2-tailed)	< 0.001
Baseline_Putamen_R	Correlation	-0.229
	Significance (2-tailed)	< 0.001
Baseline_Rectus_L	Correlation	-0.165
	Significance (2-tailed)	< 0.001
Baseline_Rectus_R	Correlation	-0.184
	Significance (2-tailed)	< 0.001
Baseline_Rolandic_Oper_L	Correlation	-0.244

	Significance (2-tailed)	< 0.001
Baseline Rolandic Oper R	Correlation	-0.222
	Significance (2-tailed)	< 0.001
Baseline Supp Motor Area L	Correlation	-0.205
	Significance (2-tailed)	< 0.001
Baseline_Supp_Motor_Area_R	Correlation	-0.22
	Significance (2-tailed)	< 0.001
Baseline_SupraMarginal_L	Correlation	-0.234
	Significance (2-tailed)	< 0.001
Baseline_SupraMarginal_R	Correlation	-0.22
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Inf_Ant_L	Correlation	-0.131
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Inf_Ant_R	Correlation	-0.106
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Inf_Mid_L	Correlation	-0.143
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Inf_Mid_R	Correlation	-0.12
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Inf_Post_L	Correlation	-0.145
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Inf_Post_R	Correlation	-0.162
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Mid_Ant_L	Correlation	-0.209
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Mid_Ant_R	Correlation	-0.179
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Mid_Mid_L	Correlation	-0.219
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Mid_Mid_R	Correlation	-0.209
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Mid_Post_L	Correlation	-0.211
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Mid_Post_R	Correlation	-0.215
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Pole_Mid_L	Correlation	-0.131
	Significance (2-tailed)	< 0.001
Baseline_Temporal_Pole_Mid_R	Correlation	-0.139
	Significance (2-tailed)	< 0.001

Baseline Temporal Pole Sup L	Correlation	-0.198
	Significance (2-tailed)	< 0.001
Baseline Temporal Pole Sup R	Correlation	-0.226
	Significance (2-tailed)	< 0.001
Baseline Temporal Sup Ant L	Correlation	-0.219
	Significance (2-tailed)	< 0.001
Baseline Temporal Sup Ant R	Correlation	-0.268
	Significance (2-tailed)	< 0.001
Baseline Temporal Sup Mid L	Correlation	-0.213
	Significance (2-tailed)	< 0.001
Baseline Temporal Sup Mid R	Correlation	-0.248
	Significance (2-tailed)	< 0.001
Baseline Temporal Sup Post L	Correlation	-0.222
	Significance (2-tailed)	< 0.001
Baseline Temporal Sup Post R	Correlation	-0.182
	Significance (2-tailed)	< 0.001
Baseline Thalamus L	Correlation	-0.18
	Significance (2-tailed)	< 0.001
Baseline Thalamus R	Correlation	-0.203
	Significance (2-tailed)	< 0.001
Baseline_Vermis_1_2	Correlation	-0.2
	Significance (2-tailed)	< 0.001
Baseline_Vermis_10	Correlation	-0.228
	Significance (2-tailed)	< 0.001
Baseline_Vermis_3	Correlation	-0.22
	Significance (2-tailed)	< 0.001
Baseline_Vermis_4_5	Correlation	-0.225
	Significance (2-tailed)	< 0.001
Baseline_Vermis_6	Correlation	-0.211
	Significance (2-tailed)	< 0.001
Baseline_Vermis_7	Correlation	-0.144
	Significance (2-tailed)	< 0.001
Baseline_Vermis_8	Correlation	-0.156
	Significance (2-tailed)	< 0.001
Baseline_Vermis_9	Correlation	-0.18
	Significance (2-tailed)	< 0.001
Concentration_Amygdala_L	Correlation	-0.195
	Significance (2-tailed)	< 0.001
Concentration_Amygdala_R	Correlation	-0.194

Concentration_Angular_L Concentration_Angular_R Concentration_Angular_R	ignificance (2-tailed) Correlation ignificance (2-tailed)	<0.001 -0.232
Concentration_Angular_R C		-0.232
Concentration_Angular_R C	ignificance (2-tailed)	
		< 0.001
Si	Correlation	-0.229
	ignificance (2-tailed)	< 0.001
Concentration_Calcarine_L C	Correlation	-0.172
Si	ignificance (2-tailed)	< 0.001
Concentration_Calcarine_R C	Correlation	-0.194
Si	ignificance (2-tailed)	< 0.001
Concentration_Caudate_L C	Correlation	-0.201
Si	ignificance (2-tailed)	< 0.001
Concentration_Caudate_R C	Correlation	-0.217
Si	ignificance (2-tailed)	< 0.001
Concentration_Cerebellum_10_L C	Correlation	-0.134
Si	ignificance (2-tailed)	< 0.001
Concentration_Cerebellum_10_R C	Correlation	-0.134
Si	ignificance (2-tailed)	< 0.001
Concentration_Cerebellum_3_L Concentration_Cerebellum_3_L	Correlation	-0.204
Si	ignificance (2-tailed)	< 0.001
Concentration_Cerebellum_3_R Concentration_Cerebellum_3_R	Correlation	-0.201
Si	ignificance (2-tailed)	< 0.001
Concentration_Cerebellum_4_5_L Concentration_Cerebellum_4_5_L	Correlation	-0.21
Si	ignificance (2-tailed)	< 0.001
Concentration_Cerebellum_4_5_R Concentration_Cerebellum_4_5_R	Correlation	-0.207
Si	ignificance (2-tailed)	< 0.001
Concentration_Cerebellum_6_L	Correlation	-0.223
Si	ignificance (2-tailed)	< 0.001
Concentration_Cerebellum_6_R C	Correlation	-0.227
Si	ignificance (2-tailed)	< 0.001
Concentration_Cerebellum_7b_L Concentration_Cerebellum_7b_L	Correlation	-0.116
Si	ignificance (2-tailed)	< 0.001
Concentration Cerebellum 7b R	Correlation	-0.082
	ignificance (2-tailed)	< 0.001
	Correlation	-0.146
	ignificance (2-tailed)	< 0.001
-	Correlation	-0.156
	ignificance (2-tailed)	< 0.001
	Correlation	-0.146
	ignificance (2-tailed)	< 0.001

Concentration Cerebellum 9 R	Correlation	-0.162
	Significance (2-tailed)	< 0.001
Concentration Cerebellum Crus1 L	Correlation	-0.202
	Significance (2-tailed)	< 0.001
Concentration Cerebellum Crus1 R	Correlation	-0.188
	Significance (2-tailed)	< 0.001
Concentration Cerebellum Crus2 L	Correlation	-0.118
	Significance (2-tailed)	< 0.001
Concentration Cerebellum Crus2 R	Correlation	-0.112
	Significance (2-tailed)	< 0.001
Concentration Cingulum Ant L	Correlation	-0.191
	Significance (2-tailed)	< 0.001
Concentration_Cingulum_Ant_R	Correlation	-0.18
	Significance (2-tailed)	< 0.001
Concentration Cingulum Mid L	Correlation	-0.225
	Significance (2-tailed)	< 0.001
Concentration_Cingulum_Mid_R	Correlation	-0.223
	Significance (2-tailed)	< 0.001
Concentration Cingulum Post L	Correlation	-0.183
	Significance (2-tailed)	< 0.001
Concentration_Cingulum_Post_R	Correlation	-0.181
	Significance (2-tailed)	< 0.001
Concentration_Cuneus_L	Correlation	-0.187
	Significance (2-tailed)	< 0.001
Concentration_Cuneus_R	Correlation	-0.2
	Significance (2-tailed)	< 0.001
Concentration_Frontal_Inf_Oper_L	Correlation	-0.241
	Significance (2-tailed)	< 0.001
Concentration_Frontal_Inf_Oper_R	Correlation	-0.256
	Significance (2-tailed)	< 0.001
Concentration_Frontal_Inf_Orb_L	Correlation	-0.195
	Significance (2-tailed)	< 0.001
Concentration_Frontal_Inf_Orb_R	Correlation	-0.199
	Significance (2-tailed)	< 0.001
Concentration_Frontal_Inf_Tri_L	Correlation	-0.243
	Significance (2-tailed)	< 0.001
Concentration_Frontal_Inf_Tri_R	Correlation	-0.238
	Significance (2-tailed)	< 0.001
Concentration_Frontal_Mid_L	Correlation	-0.262

Concentration Frontal Mid Orb L Significance (2-tailed) <0.001		Significance (2-tailed)	< 0.001
Significance (2-tailed) <0.001	Concentration Frontal Mid Orb I		
Concentration Frontal Mid Orb L 9 Correlation -0.176	Concentration_Frontal_tviid_Orb_L		
Significance (2-tailed) <0.001	Concentration Frontal Mid Orb I O		
Concentration Frontal Mid Orb R Significance (2-tailed) <0.001	Concentration_Frontal_wiid_Orb_L_9		
Concentration Frontal Mid Orb R 10 Correlation -0.172 Concentration Frontal Mid R Correlation -0.265 Concentration Frontal Mid R Correlation -0.265 Concentration Frontal Sup L Correlation -0.248 Concentration Frontal Sup L Correlation -0.248 Concentration Frontal Sup Medial L Correlation -0.238 Concentration Frontal Sup Medial R Correlation -0.237 Concentration Frontal Sup Medial R Correlation -0.237 Concentration Frontal Sup Orb L Correlation -0.18 Concentration Frontal Sup Orb L Correlation -0.18 Concentration Frontal Sup Orb R Correlation -0.183 Concentration Frontal Sup R Correlation -0.258 Concentration Frontal Sup R Correlation -0.258 Concentration Frontal Sup R Correlation -0.2001 Concentration Frontal Sup R Correlation -0.2001 Concentration Frontal Sup R Correlation -0.2001 Concentration Fusiform L Correlation -0.2001 Concentration Fusiform R Correlation -0.2001 Concentration Fusiform R Correlation -0.2001 Concentration Heschl L Correlation -0.2001 Concentration Heschl L Correlation -0.193 Significance (2-tailed) <0.001 Concentration Heschl R Correlation -0.193 Concentration Hippocampus L Correlation -0.183 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.183 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.183 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.184 Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223 Concentration Insula R Correlation -0.223	Concentration Frontal Mid Oak D		
Concentration Frontal Mid Orb R 10 Concentration Frontal Mid R Correlation Concentration Frontal Mid R Correlation Concentration Frontal Mid R Correlation Concentration Frontal Sup L Correlation Concentration Frontal Sup L Correlation Concentration Frontal Sup Medial L Correlation Concentration Frontal Sup Medial R Correlation Concentration Frontal Sup Medial R Correlation Concentration Frontal Sup Orb L Correlation Concentration Frontal Sup Orb L Correlation Concentration Frontal Sup Orb R Correlation Concentration Frontal Sup Orb R Correlation Concentration Frontal Sup Orb R Correlation Concentration Frontal Sup R Correlation Concentration Fusiform L Correlation Concentration Fusiform R Correlation Concentration Fusiform R Correlation Concentration Heschl L Correlation Concentration Heschl R Correlation Concentration Hippocampus L Correlation Concentration Hippocampus R Correlation Concentration Hippocampus R Correlation Concentration Hippocampus R Correlation Concentration Insula L Correlation Concentration Insula R Correlation Concentration Insula R Correlation Concentration Insula R Correlation Concentration Insula R Correlation Concentration Insula R	Concentration_Frontal_MId_Orb_R		
Significance (2-tailed) <0.001			
Concentration Frontal Mid R Correlation -0.265	Concentration_Frontal_Mid_Orb_R_10		
Significance (2-tailed) <0.001			
Concentration Frontal Sup L Significance (2-tailed) <0.001 Concentration Frontal Sup Medial L Correlation -0.238 Concentration Frontal Sup Medial R Significance (2-tailed) <0.001 Concentration Frontal Sup Medial R Correlation -0.237 Concentration Frontal Sup Orb L Correlation -0.18 Concentration Frontal Sup Orb R Correlation -0.183 Concentration Frontal Sup Orb R Correlation -0.183 Concentration Frontal Sup Orb R Correlation -0.258 Concentration Frontal Sup R Correlation -0.258 Concentration Frontal Sup R Correlation -0.207 Concentration Fusiform L Correlation -0.207 Concentration Fusiform R Correlation -0.209 Concentration Fusiform R Correlation -0.209 Concentration Heschl L Correlation -0.193 Concentration Heschl R Correlation -0.212 Concentration Hippocampus L Correlation -0.183 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223 Significance (2-tailed) <0.001 Concentration Insula R Correlation -0.223	Concentration_Frontal_Mid_R		
Significance (2-tailed) Concentration Frontal Sup Medial L Correlation Concentration Frontal Sup Medial R Significance (2-tailed) Concentration Frontal Sup Medial R Correlation Concentration Frontal Sup Orb L Correlation Concentration Frontal Sup Orb L Correlation Concentration Frontal Sup Orb R Correlation Concentration Frontal Sup Orb R Correlation Concentration Frontal Sup Orb R Correlation Concentration Frontal Sup R Correlation Concentration Frontal Sup R Correlation Concentration Frontal Sup R Correlation Concentration Fusiform L Correlation Concentration Fusiform R Correlation Concentration Fusiform R Correlation Concentration Fusiform R Correlation Concentration Fusiform Correlation Concentration Fusiform Correlation Concentration Concentration Fusiform Correlation Concentration Concentration Fusiform Concentration Fusiform Concentration Fusiform Concentration Fusiform Concentration C		` ` '	
Concentration Frontal Sup Medial L Correlation -0.238 Significance (2-tailed) <0.001 Concentration Frontal Sup Medial R Correlation -0.237 Significance (2-tailed) <0.001 Concentration Frontal Sup Orb L Correlation -0.18 Significance (2-tailed) <0.001 Concentration Frontal Sup Orb R Correlation -0.183 Concentration Frontal Sup R Correlation -0.258 Significance (2-tailed) <0.001 Concentration Frontal Sup R Correlation -0.258 Significance (2-tailed) <0.001 Concentration Fusiform L Correlation -0.207 Significance (2-tailed) <0.001 Concentration Fusiform R Correlation -0.209 Significance (2-tailed) <0.001 Concentration Heschl L Correlation -0.193 Significance (2-tailed) <0.001 Concentration Heschl R Correlation -0.212 Significance (2-tailed) <0.001 Concentration Hippocampus L Correlation -0.183 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223 Significance (2-tailed) <0.001 Concentration Insula R Correlation -0.223	Concentration_Frontal_Sup_L		
Significance (2-tailed) <0.001		Significance (2-tailed)	< 0.001
Concentration Frontal Sup Medial R Significance (2-tailed) <0.001 Concentration Frontal Sup Orb L Correlation -0.18 Concentration Frontal Sup Orb R Significance (2-tailed) <0.001 Concentration Frontal Sup Orb R Correlation -0.183 Concentration Frontal Sup R Correlation -0.258 Concentration Frontal Sup R Correlation -0.258 Concentration Fusiform L Correlation -0.207 Concentration Fusiform R Correlation -0.207 Concentration Fusiform R Correlation -0.209 Concentration Heschl L Correlation -0.209 Concentration Heschl L Correlation -0.193 Concentration Heschl R Correlation -0.212 Concentration Hippocampus L Correlation -0.183 Concentration Hippocampus L Correlation -0.183 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.223 Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223 Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223 Significance (2-tailed) <0.001 Concentration Insula R Correlation -0.228	Concentration_Frontal_Sup_Medial_L	Correlation	-0.238
Significance (2-tailed) <0.001		Significance (2-tailed)	< 0.001
Concentration Frontal Sup Orb LCorrelation-0.18Concentration Frontal Sup Orb RCorrelation-0.183Concentration Frontal Sup RCorrelation-0.258Concentration Frontal Sup RCorrelation-0.258Concentration Fusiform LCorrelation-0.207Concentration Fusiform RCorrelation-0.207Concentration Heschl LCorrelation-0.209Concentration Heschl LCorrelation-0.193Concentration Heschl RCorrelation-0.212Concentration Hippocampus LCorrelation-0.212Concentration Hippocampus LCorrelation-0.183Concentration Hippocampus RCorrelation-0.186Concentration Insula LCorrelation-0.223Concentration Insula RCorrelation-0.223Concentration Insula RCorrelation-0.223	Concentration_Frontal_Sup_Medial_R	Correlation	-0.237
Significance (2-tailed) <0.001		Significance (2-tailed)	< 0.001
Concentration Frontal Sup Orb R Significance (2-tailed) <0.001 Concentration Frontal Sup R Correlation -0.258 Significance (2-tailed) <0.001 Concentration Fusiform L Correlation -0.207 Significance (2-tailed) <0.001 Concentration Fusiform R Correlation -0.209 Concentration Heschl L Correlation -0.193 Concentration Heschl R Correlation -0.212 Significance (2-tailed) <0.001 Concentration Heschl R Correlation -0.212 Significance (2-tailed) <0.001 Concentration Hippocampus L Correlation -0.183 Concentration Hippocampus L Correlation -0.183 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223 Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223	Concentration_Frontal_Sup_Orb_L	Correlation	-0.18
Significance (2-tailed) <0.001		Significance (2-tailed)	< 0.001
Concentration_Frontal_Sup_RCorrelation-0.258Significance (2-tailed)<0.001	Concentration_Frontal_Sup_Orb_R	Correlation	-0.183
Significance (2-tailed) <0.001		Significance (2-tailed)	< 0.001
Concentration Fusiform LCorrelation-0.207Concentration Fusiform RCorrelation-0.209Concentration Heschl LCorrelation-0.209Concentration Heschl LCorrelation-0.193Concentration Heschl RCorrelation-0.212Concentration Hippocampus LSignificance (2-tailed)<0.001	Concentration_Frontal_Sup_R	Correlation	-0.258
Significance (2-tailed) <0.001		Significance (2-tailed)	< 0.001
Concentration Fusiform RCorrelation-0.209Significance (2-tailed)<0.001	Concentration_Fusiform_L	Correlation	-0.207
Significance (2-tailed) <0.001 Concentration Heschl L Correlation -0.193 Significance (2-tailed) <0.001 Concentration Heschl R Correlation -0.212 Significance (2-tailed) <0.001 Concentration Hippocampus L Correlation -0.183 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223 Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223 Concentration Insula R Correlation -0.228		Significance (2-tailed)	< 0.001
Concentration Heschl L Correlation -0.193 Significance (2-tailed) <0.001 Concentration Heschl R Correlation -0.212 Significance (2-tailed) <0.001 Concentration Hippocampus L Correlation -0.183 Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223 Significance (2-tailed) <0.001 Concentration Insula R Correlation -0.228	Concentration Fusiform R		-0.209
Significance (2-tailed) <0.001 Concentration_Heschl_R Correlation -0.212 Significance (2-tailed) <0.001 Concentration_Hippocampus_L Correlation -0.183 Significance (2-tailed) <0.001 Concentration_Hippocampus_R Correlation -0.186 Significance (2-tailed) <0.001 Concentration_Insula_L Correlation -0.223 Significance (2-tailed) <0.001 Concentration_Insula_R Correlation -0.228		Significance (2-tailed)	< 0.001
Significance (2-tailed) <0.001 Concentration_Heschl_R Correlation -0.212 Significance (2-tailed) <0.001 Concentration_Hippocampus_L Correlation -0.183 Significance (2-tailed) <0.001 Concentration_Hippocampus_R Correlation -0.186 Significance (2-tailed) <0.001 Concentration_Insula_L Correlation -0.223 Significance (2-tailed) <0.001 Concentration_Insula_R Correlation -0.228	Concentration Heschl L	Correlation	-0.193
Concentration Heschl RCorrelation-0.212Significance (2-tailed)<0.001		Significance (2-tailed)	< 0.001
Significance (2-tailed) <0.001 Concentration_Hippocampus_L Correlation -0.183 Significance (2-tailed) <0.001 Concentration_Hippocampus_R Correlation -0.186 Significance (2-tailed) <0.001 Concentration_Insula_L Correlation -0.223 Significance (2-tailed) <0.001 Concentration_Insula_R Correlation -0.228	Concentration Heschl R	†	-0.212
Concentration Hippocampus L Significance (2-tailed) <0.001 Concentration Hippocampus R Correlation -0.186 Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223 Significance (2-tailed) <0.001 Concentration Insula R Correlation -0.228		Significance (2-tailed)	
Significance (2-tailed) <0.001 Concentration_Hippocampus_R Correlation -0.186 Significance (2-tailed) <0.001 Concentration_Insula_L Correlation -0.223 Significance (2-tailed) <0.001 Concentration_Insula_R Correlation -0.228	Concentration Hippocampus L	` ` '	
Concentration Hippocampus RCorrelation-0.186Significance (2-tailed)<0.001			
Significance (2-tailed) <0.001 Concentration Insula L Correlation -0.223 Significance (2-tailed) <0.001 Concentration Insula R Correlation -0.228	Concentration Hippocampus R		
Concentration_Insula_LCorrelation-0.223Significance (2-tailed)<0.001	_ FFF		
Significance (2-tailed) <0.001 Concentration_Insula_R Correlation -0.228	Concentration Insula L	` ` '	
Concentration_Insula_R Correlation -0.228			
	Concentration Insula R		
		Significance (2-tailed)	< 0.001

Concentration_Lingual_L	Correlation	-0.192
_ 5 _	Significance (2-tailed)	< 0.001
Concentration_Lingual_R	Correlation	-0.188
	Significance (2-tailed)	< 0.001
Concentration Occipital Inf L	Correlation	-0.131
	Significance (2-tailed)	< 0.001
Concentration Occipital Inf R	Correlation	-0.101
	Significance (2-tailed)	< 0.001
Concentration Occipital Mid L	Correlation	-0.178
	Significance (2-tailed)	< 0.001
Concentration Occipital Mid R	Correlation	-0.17
	Significance (2-tailed)	< 0.001
Concentration_Occipital_Sup_L	Correlation	-0.183
	Significance (2-tailed)	< 0.001
Concentration Occipital Sup R	Correlation	-0.188
	Significance (2-tailed)	< 0.001
Concentration Olfactory L	Correlation	-0.187
	Significance (2-tailed)	< 0.001
Concentration Olfactory R	Correlation	-0.194
	Significance (2-tailed)	< 0.001
Concentration Pallidum L	Correlation	-0.191
	Significance (2-tailed)	< 0.001
Concentration Pallidum R	Correlation	-0.195
	Significance (2-tailed)	< 0.001
Concentration_Paracentral_Lobule_L	Correlation	-0.216
	Significance (2-tailed)	< 0.001
Concentration_Paracentral_Lobule_R	Correlation	-0.219
	Significance (2-tailed)	< 0.001
Concentration_ParaHippocampal_L	Correlation	-0.166
	Significance (2-tailed)	< 0.001
Concentration_ParaHippocampal_R	Correlation	-0.199
	Significance (2-tailed)	< 0.001
Concentration_Parietal_Inf_L	Correlation	-0.258
	Significance (2-tailed)	< 0.001
Concentration_Parietal_Inf_R	Correlation	-0.24
	Significance (2-tailed)	< 0.001
Concentration_Parietal_Sup_L	Correlation	-0.22
	Significance (2-tailed)	< 0.001
Concentration_Parietal_Sup_R	Correlation	-0.204

	Significance (2-tailed)	< 0.001
Concentration Postcentral L	Correlation	-0.277
	Significance (2-tailed)	< 0.001
Concentration Postcentral R	Correlation	-0.269
-	Significance (2-tailed)	< 0.001
Concentration Precentral L	Correlation	-0.28
	Significance (2-tailed)	< 0.001
Concentration Precentral R	Correlation	-0.276
	Significance (2-tailed)	< 0.001
Concentration Precuneus L	Correlation	-0.226
	Significance (2-tailed)	< 0.001
Concentration_Precuneus_R	Correlation	-0.229
	Significance (2-tailed)	< 0.001
Concentration_Putamen_L	Correlation	-0.217
	Significance (2-tailed)	< 0.001
Concentration_Putamen_R	Correlation	-0.226
	Significance (2-tailed)	< 0.001
Concentration_Rectus_L	Correlation	-0.177
	Significance (2-tailed)	< 0.001
Concentration_Rectus_R	Correlation	-0.186
	Significance (2-tailed)	< 0.001
Concentration_Rolandic_Oper_L	Correlation	-0.226
	Significance (2-tailed)	< 0.001
Concentration_Rolandic_Oper_R	Correlation	-0.239
	Significance (2-tailed)	< 0.001
Concentration_Supp_Motor_Area_L	Correlation	-0.227
	Significance (2-tailed)	< 0.001
Concentration_Supp_Motor_Area_R	Correlation	-0.233
	Significance (2-tailed)	< 0.001
Concentration_SupraMarginal_L	Correlation	-0.26
	Significance (2-tailed)	< 0.001
Concentration_SupraMarginal_R	Correlation	-0.263
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Inf_Ant_L	Correlation	-0.14
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Inf_Ant_R	Correlation	-0.134
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Inf_Mid_L	Correlation	-0.137
	Significance (2-tailed)	< 0.001

Concentration Temporal Inf Mid R	Correlation	-0.126
	Significance (2-tailed)	< 0.001
Concentration Temporal Inf Post L	Correlation	-0.153
	Significance (2-tailed)	< 0.001
Concentration Temporal Inf Post R	Correlation	-0.138
	Significance (2-tailed)	< 0.001
Concentration Temporal Mid Ant L	Correlation	-0.24
	Significance (2-tailed)	< 0.001
Concentration Temporal Mid Ant R	Correlation	-0.231
	Significance (2-tailed)	< 0.001
Concentration Temporal Mid Mid L	Correlation	-0.197
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Mid_Mid_R	Correlation	-0.179
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Mid_Post_L	Correlation	-0.211
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Mid_Post_R	Correlation	-0.194
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Pole_Mid_L	Correlation	-0.142
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Pole_Mid_R	Correlation	-0.163
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Pole_Sup_L	Correlation	-0.207
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Pole_Sup_R	Correlation	-0.229
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Sup_Ant_L	Correlation	-0.233
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Sup_Ant_R	Correlation	-0.244
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Sup_Mid_L	Correlation	-0.208
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Sup_Mid_R	Correlation	-0.218
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Sup_Post_L	Correlation	-0.208
	Significance (2-tailed)	< 0.001
Concentration_Temporal_Sup_Post_R	Correlation	-0.222
	Significance (2-tailed)	< 0.001
Concentration_Thalamus_L	Correlation	-0.199

	Significance (2-tailed)	< 0.001
Concentration_Thalamus_R	Correlation	-0.2
	Significance (2-tailed)	< 0.001
Concentration_Vermis_1_2	Correlation	-0.182
	Significance (2-tailed)	< 0.001
Concentration_Vermis_10	Correlation	-0.221
	Significance (2-tailed)	< 0.001
Concentration_Vermis_3	Correlation	-0.198
	Significance (2-tailed)	< 0.001
Concentration_Vermis_4_5	Correlation	-0.202
	Significance (2-tailed)	< 0.001
Concentration_Vermis_6	Correlation	-0.197
	Significance (2-tailed)	< 0.001
Concentration_Vermis_7	Correlation	-0.173
	Significance (2-tailed)	< 0.001
Concentration_Vermis_8	Correlation	-0.168
	Significance (2-tailed)	< 0.001
Concentration_Vermis_9	Correlation	-0.209
	Significance (2-tailed)	< 0.001