

Metabolite	Brain Regions							
	BA 9	BA 17	BA 22	BA 24	BA 40	DN	HPC	PB
Acetylcholine	↑		↓	↓	↓	↓		
2-Amino-3-Phosphonoprionic Acid	↑	↓	↓		↓		↓	
Arginine		↓			↓			
Citric Acid	↑		↑	↑		↑	↑	↑
Creatine	↓	↑	↑				↑	
Ethanol	↓	↑	↓	↑	↑	↑		
Gamma-Aminobutyric Acid (GABA)	↑	↑	↑	↑	↑		↑	
Glycyl-Glycine	↑	↓		↓		↓		↓
Glycerol	↑	↑	↓				↑	↑
Glucose	↑	↓		↓	↓			↓
Isoleucine		↓	↓	↓	↓	↓	↓	↓
Leucine	↓	↓	↓	↓	↓		↓	↓
Malonic Acid	↑	↑	↑	↑		↑	↑	
N-acetylaspartate (NAA)	↑	↑	↑	↑	↑		↑	↑
Phenylalanine	↑	↓	↓	↓	↓		↓	↓
Phosphorylcholine	↑	↓	↓	↓	↓		↑	
Serine		↓	↓		↓	↓	↓	
Tyrosine	↑	↓	↓		↓		↓	↓
Valine	↑	↓	↓	↓	↓		↓	↓

Supplemental table S1: Summary of the most notable significant metabolites for BA9, BA17, BA22, BA24, BA40, DN, HPC, and PD and their regulation (↑ upregulated; ↓ downregulated).