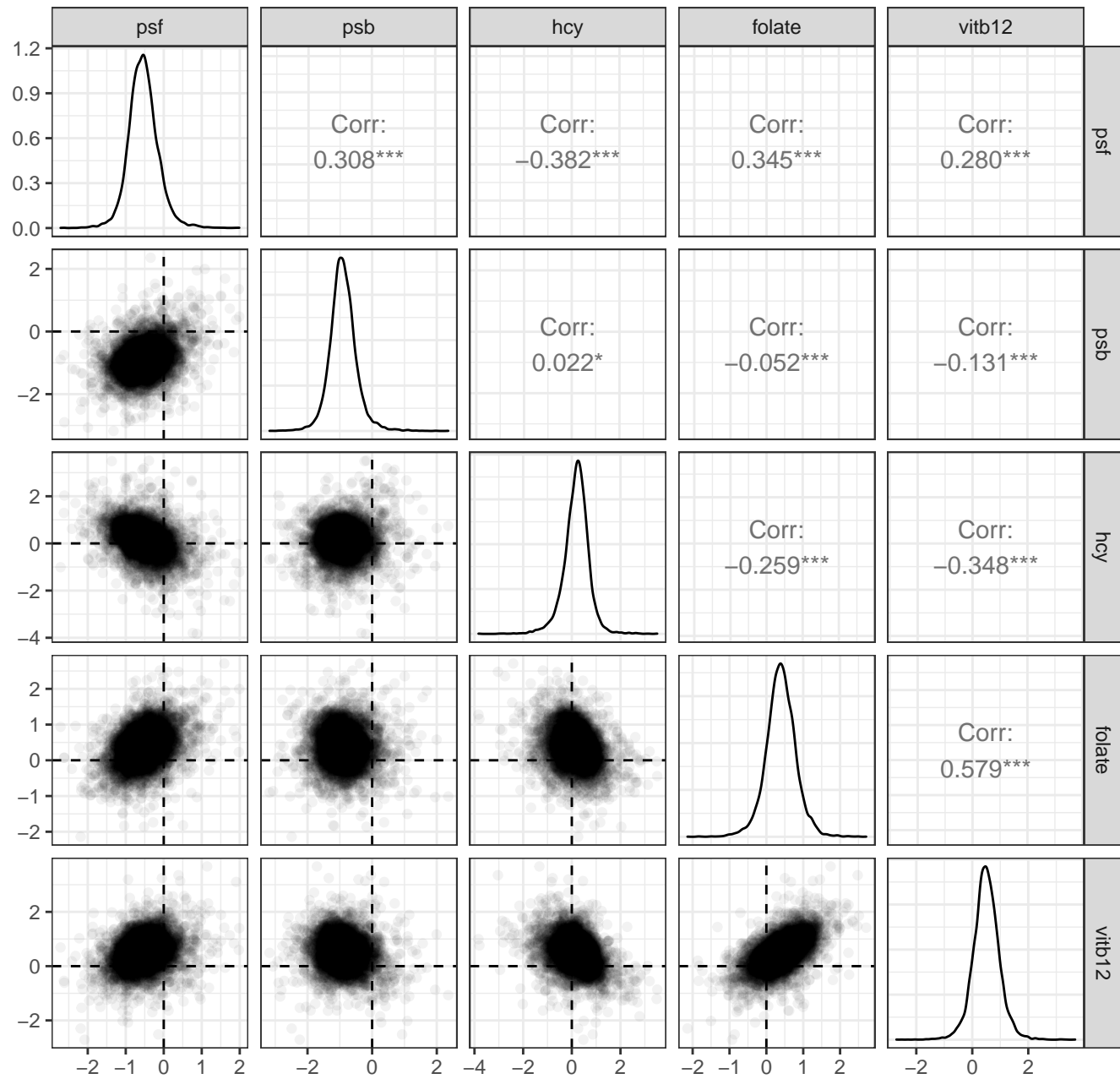
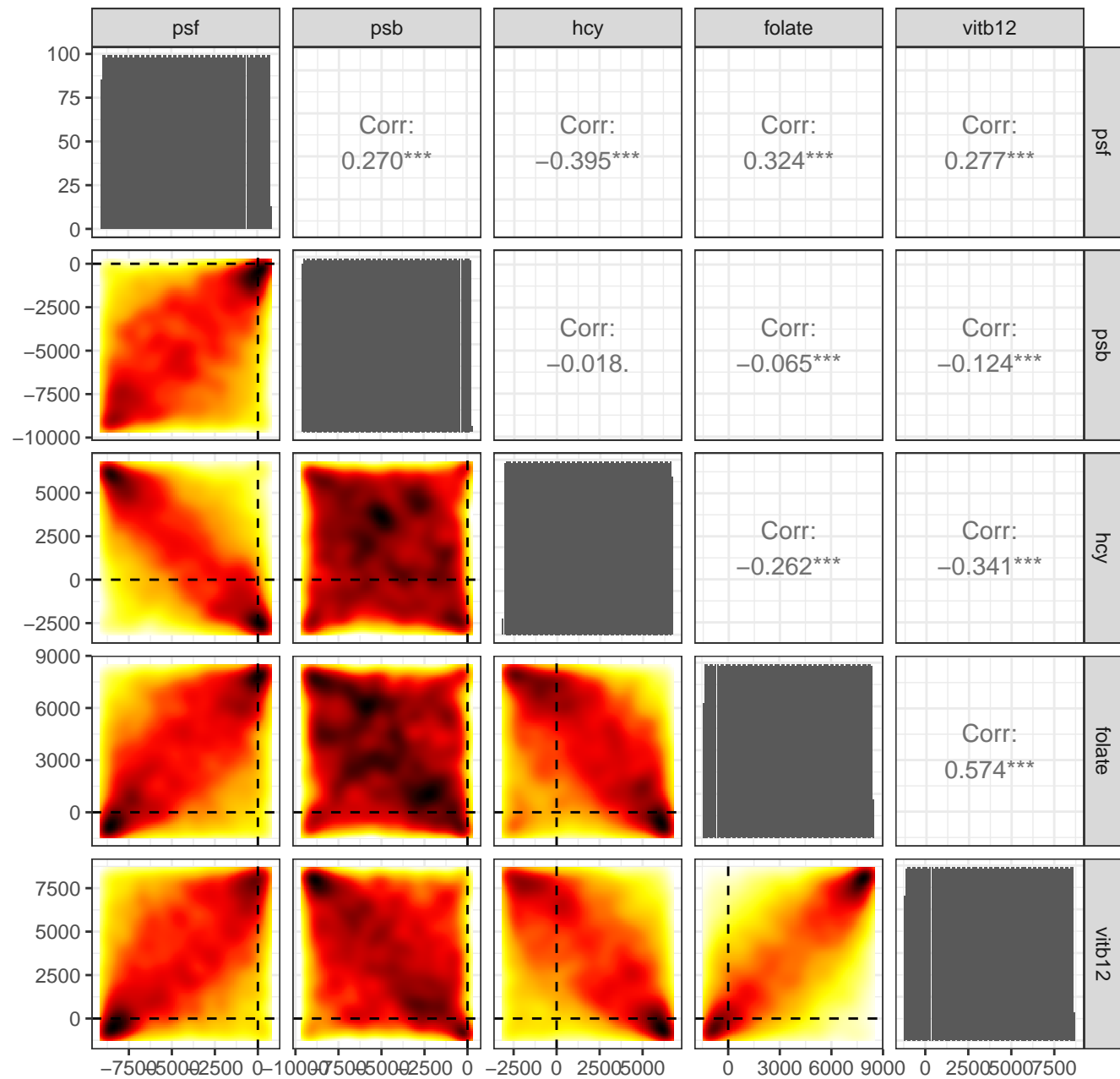


Scatterplot of all genes

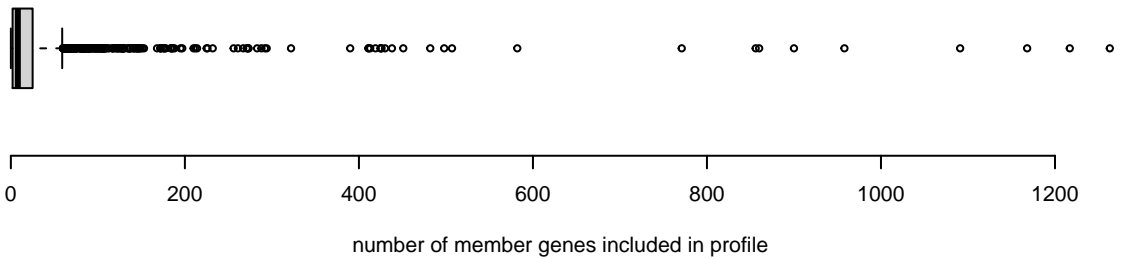


Contour plot of all genes after ranking

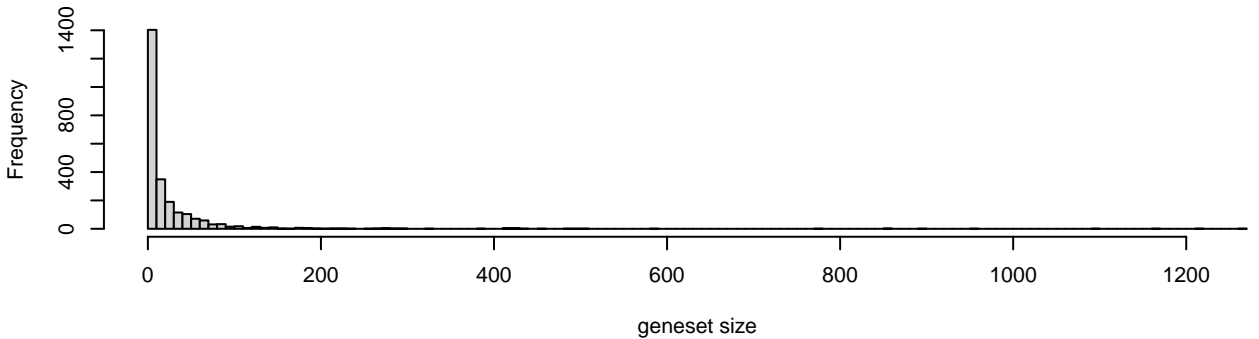


4	1	1	-1	-1	-1	5
5	-1	-1	1	-1	-1	393
6	1	-1	1	-1	-1	8
7	-1	1	1	-1	-1	30
8	1	1	1	-1	-1	5
9	-1	-1	-1	1	-1	103
10	1	-1	-1	1	-1	18
11	-1	1	-1	1	-1	2
12	1	1	-1	1	-1	14
13	-1	-1	1	1	-1	481
14	1	-1	1	1	-1	17
15	-1	1	1	1	-1	25
16	1	1	1	1	-1	13
17	-1	-1	1	1	0	1
18	-1	-1	-1	-1	1	233
19	1	-1	-1	-1	1	28
20	-1	1	-1	-1	1	4
21	1	1	-1	-1	1	3
22	-1	-1	1	-1	1	566
23	1	-1	1	-1	1	13
24	-1	1	1	-1	1	17
25	1	1	1	-1	1	1
26	-1	-1	1	0	1	1
27	-1	-1	-1	1	1	2161
28	0	-1	-1	1	1	1
29	1	-1	-1	1	1	367
30	-1	1	-1	1	1	33
31	1	1	-1	1	1	42
32	-1	-1	0	1	1	1
33	-1	-1	1	1	1	4940

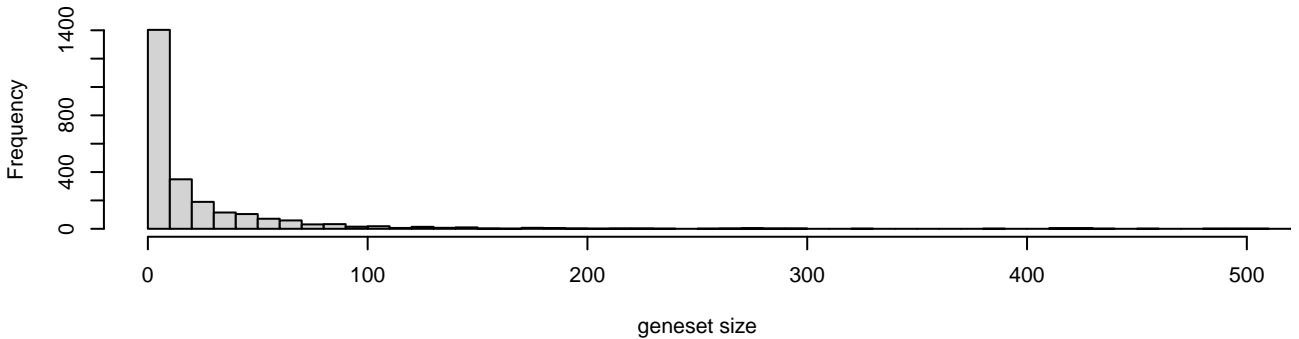
Gene set size



Histogram of geneset size

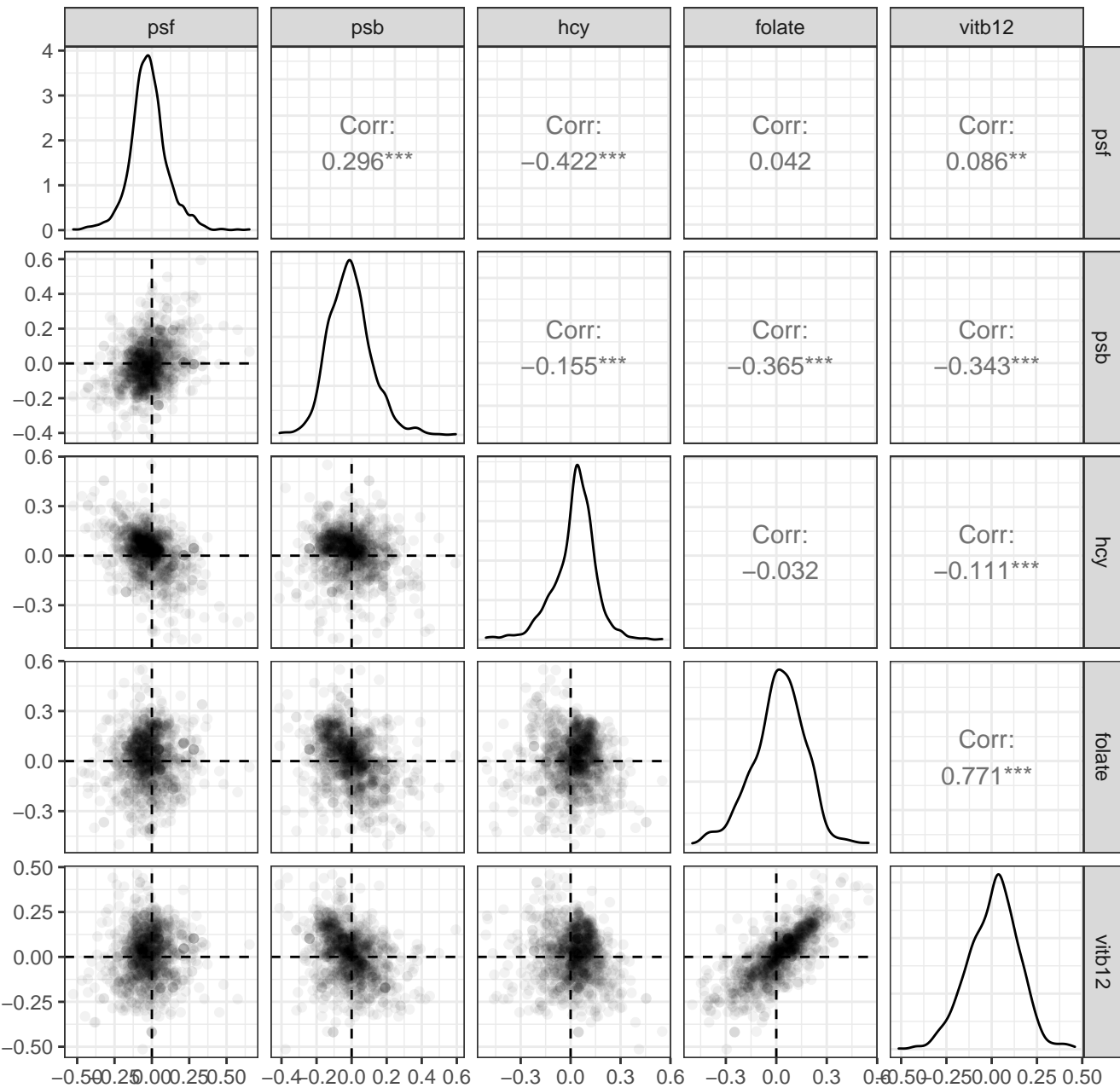


Trimmed histogram of geneset size

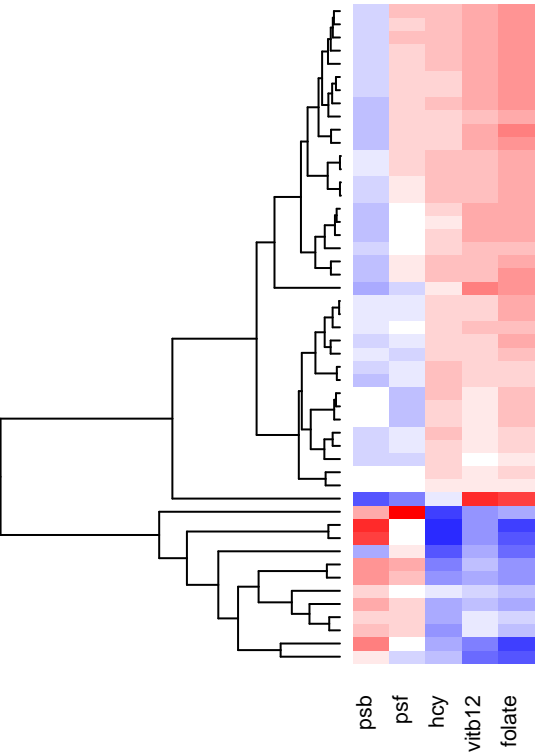
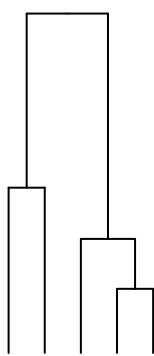
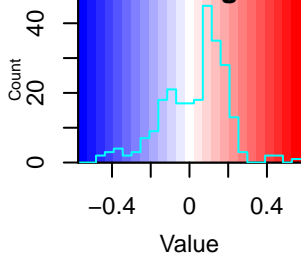


	s.psf	s.psb	s.hcy	s.folate	s.vitb12	Number of gene sets in each sector
1	1	-1	-1	-1	-1	2
2	-1	1	-1	-1	-1	5
3	1	1	-1	-1	-1	11
4	-1	-1	1	-1	-1	1
5	-1	1	1	-1	-1	1
6	-1	-1	1	1	-1	1
7	-1	1	1	1	-1	1
8	-1	-1	-1	1	1	2
9	-1	1	-1	1	1	1
10	-1	-1	1	1	1	18
11	1	-1	1	1	1	22
12	1	1	1	1	1	2

Scatterplot of all genesets; FDR<0.05 in red



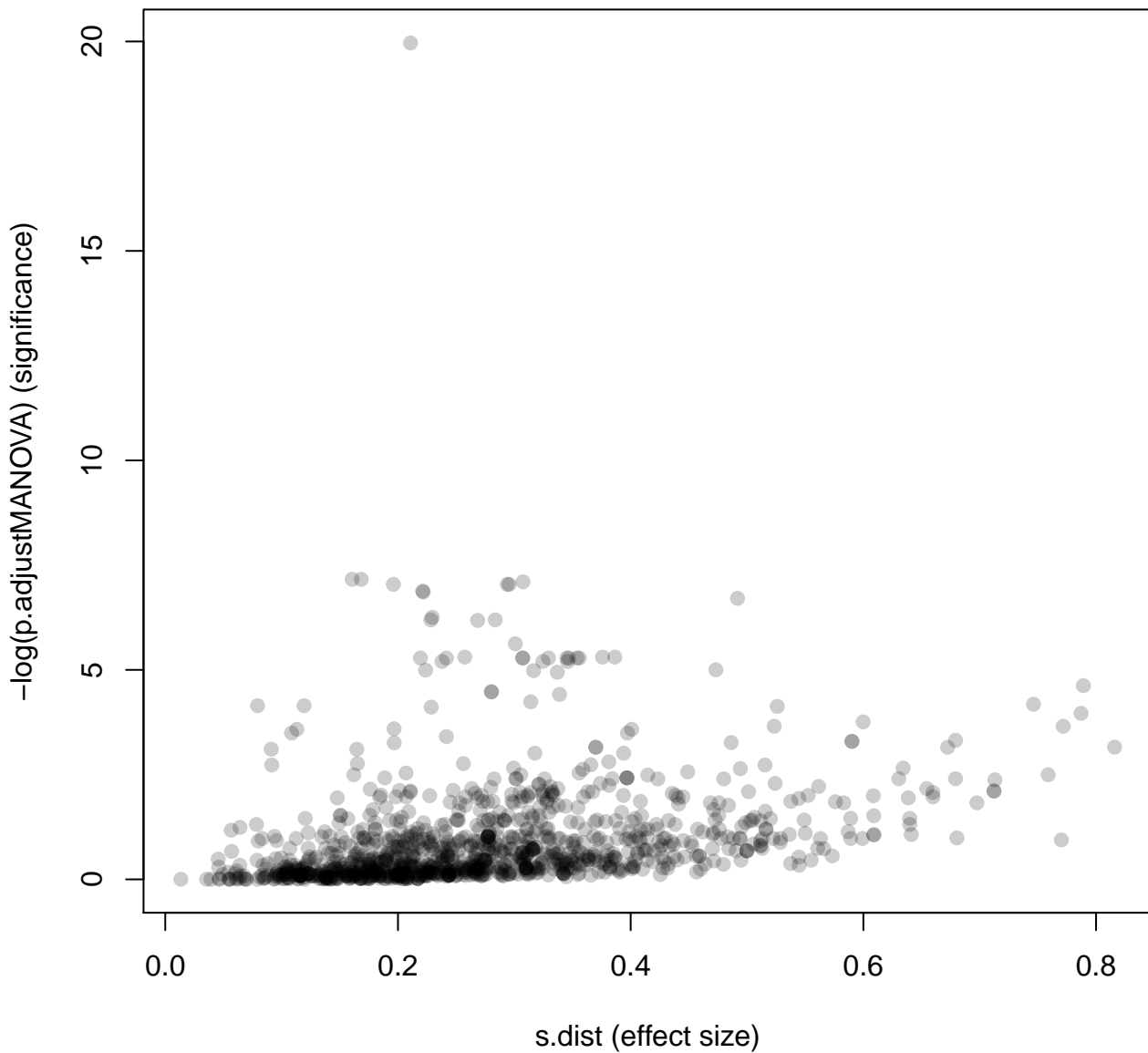
Color Key and Histogram



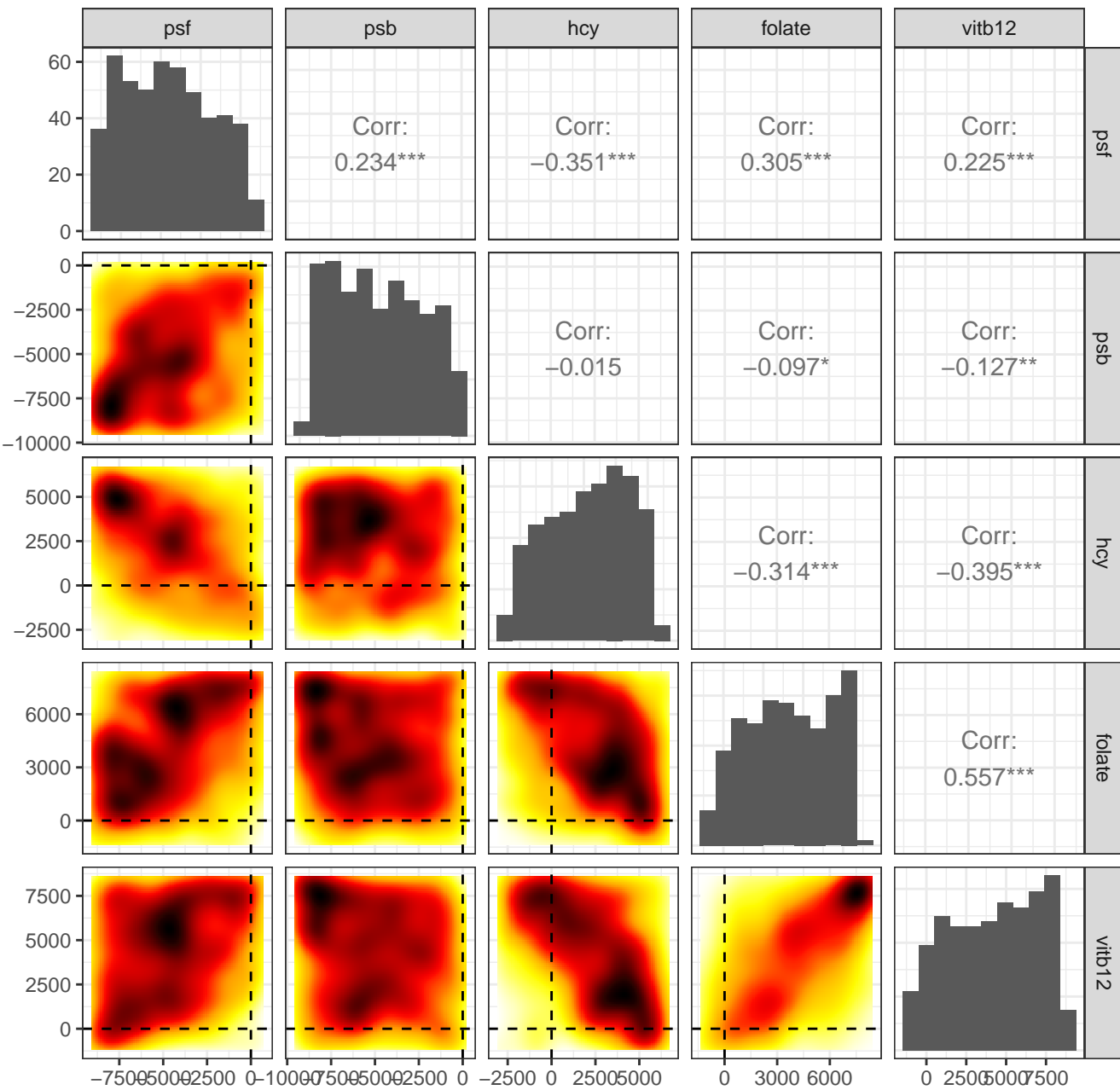
- Eukaryotic Translation Termination
- Viral mRNA Translation
- L13a-mediated translational silencing of Ceruloplasmin expression
- Formation of a pool of free 40S subunits
- Selenocysteine synthesis
- Nonsense-Mediated Decay (NMD)
- Eukaryotic Translation Initiation
- rRNA processing in the nucleus and cytosol
- Major pathway of rRNA processing in the nucleolus and cytosol
- Regulation of expression of SLITs and ROBOs
- Defective CFTR causes cystic fibrosis
- Mitotic Anaphase
- Separation of Sister Chromatids
- Mitotic G2-G2/M phases
- mRNA Splicing - Major Pathway
- Processing of Capped Intron-Containing Pre-mRNA
- Cell Cycle, Mitotic
- Cellular responses to stress
- Regulation of TP53 Activity through Methylation
- PKA-mediated phosphorylation of CREB
- Heparan sulfate/heparin (HS-GAG) metabolism
- Post NMDA receptor activation events
- Neurotransmitter receptors and postsynaptic signal transmission
- Transmission across Chemical Synapses
- PLC beta mediated events

psb
psf
hcy
vitb12
folate

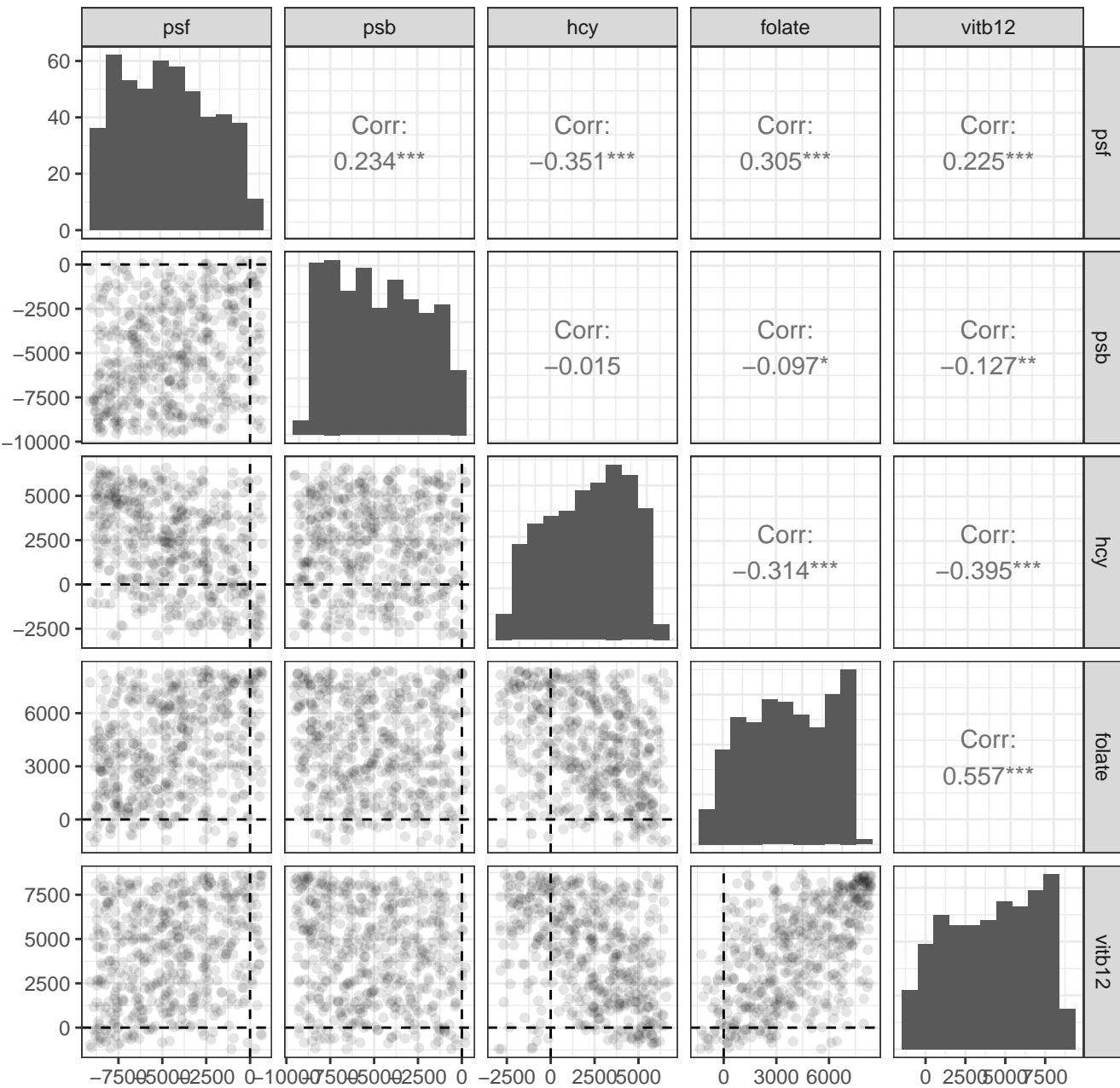
effect size versus statistical significance



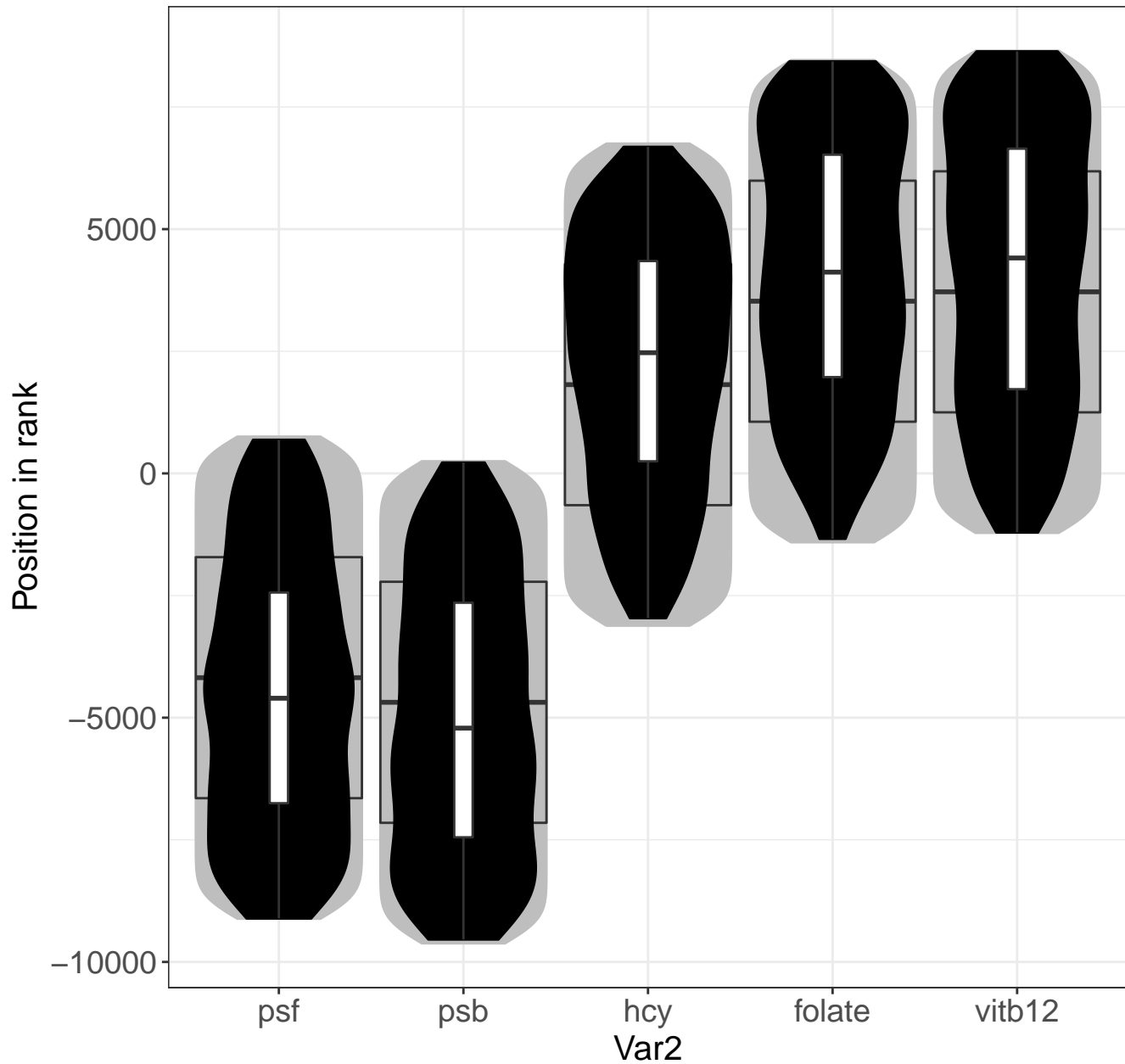
Metabolism of RNA



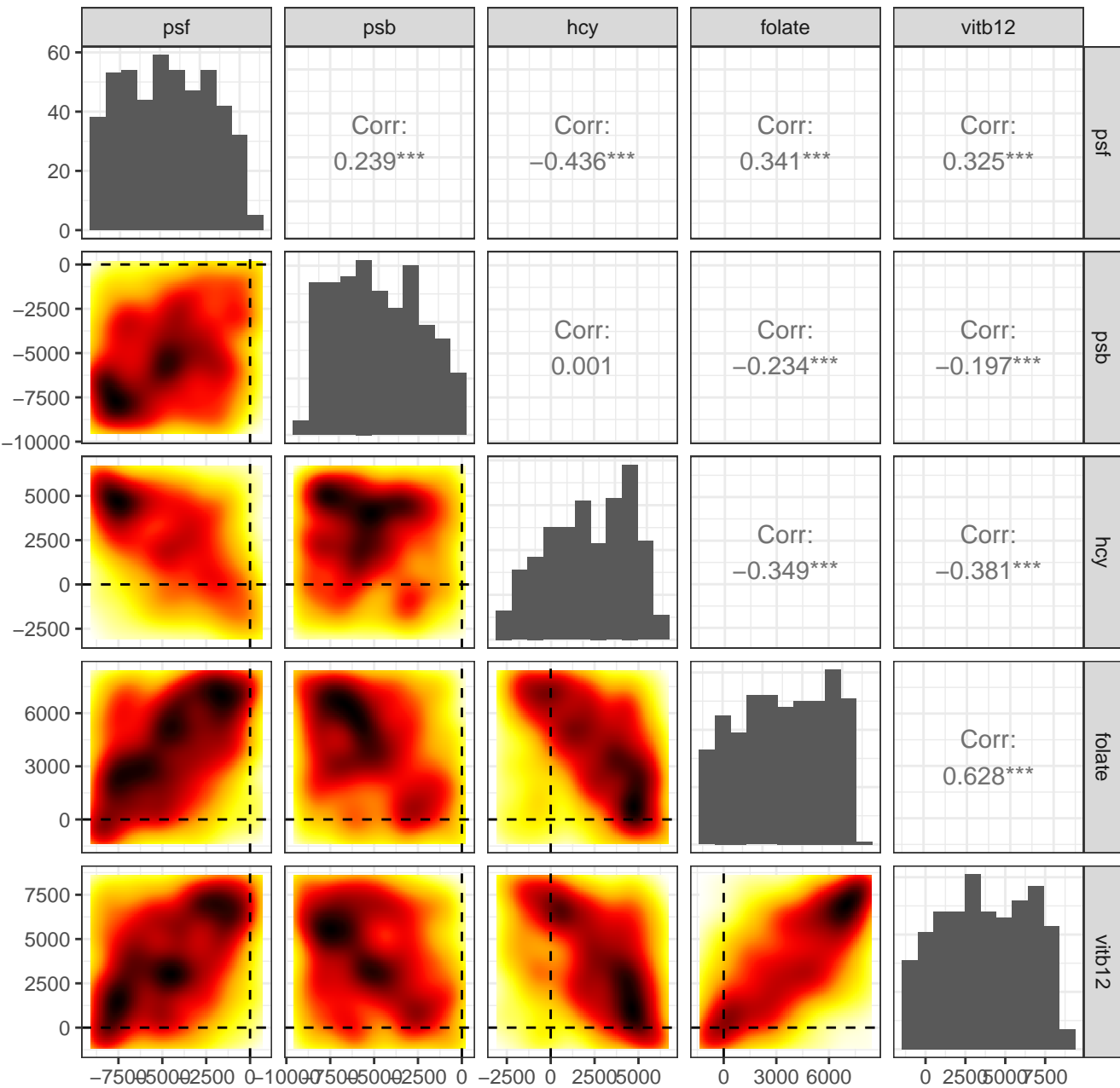
Metabolism of RNA



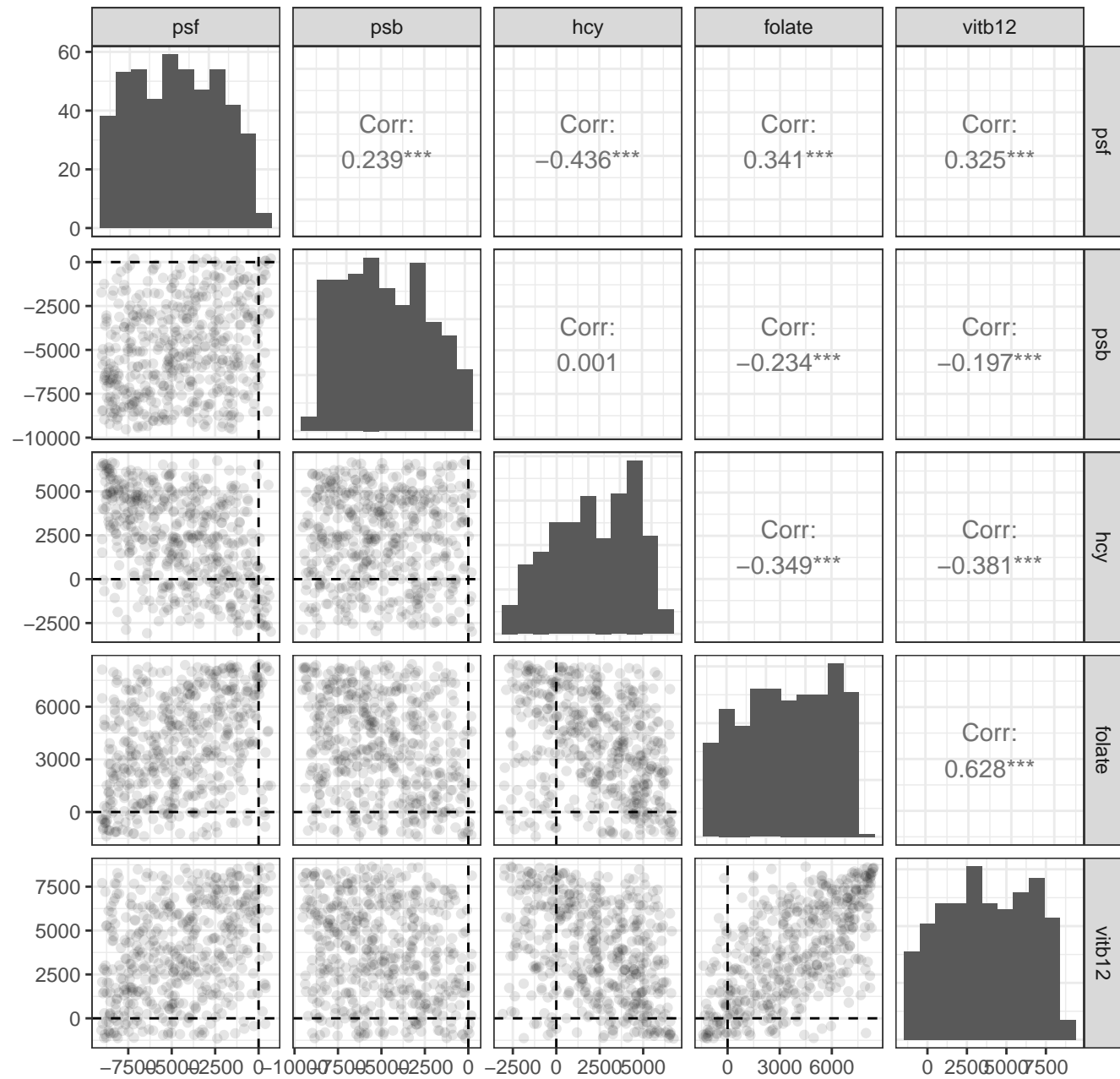
Metabolism of RNA



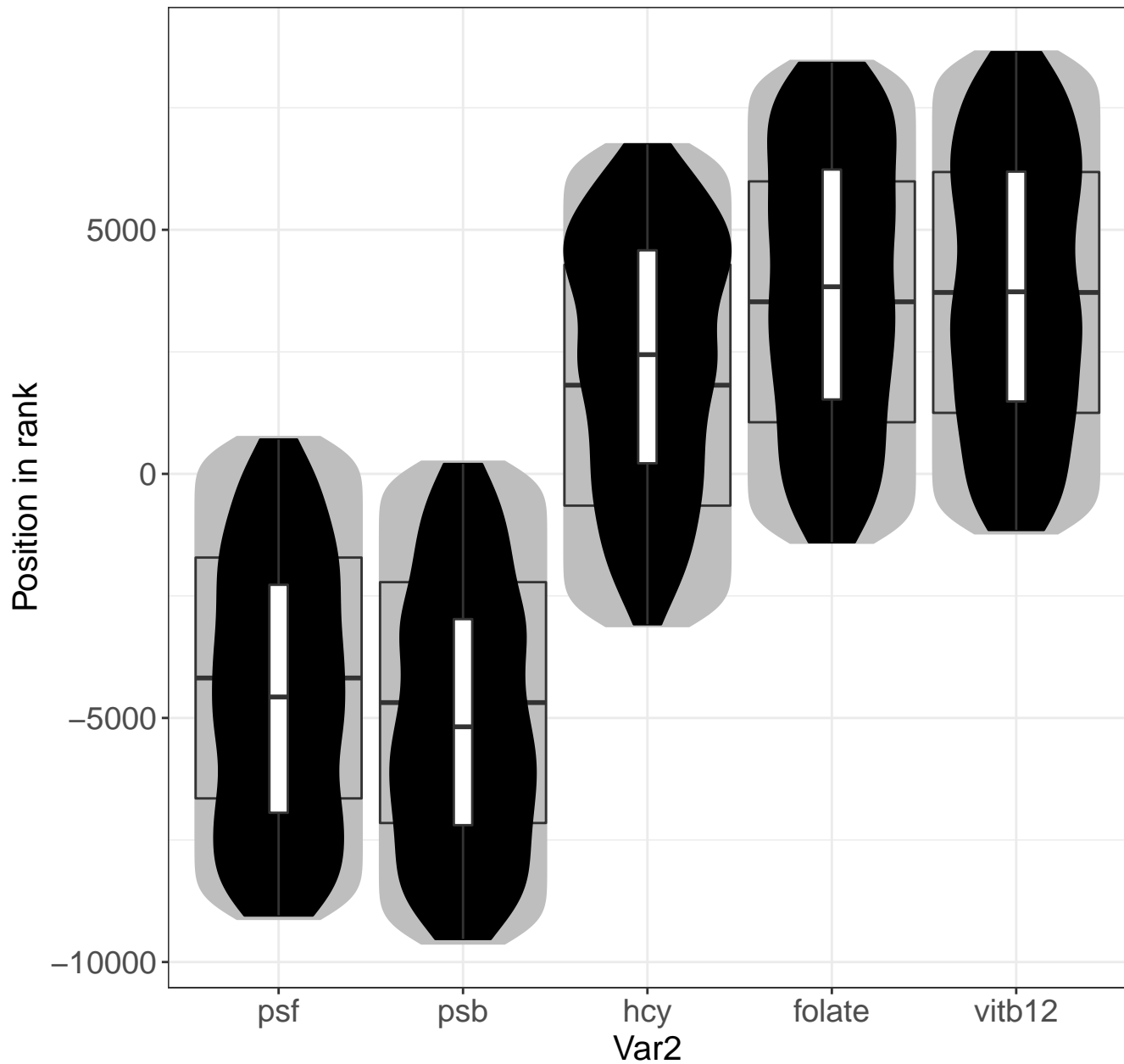
Cell Cycle



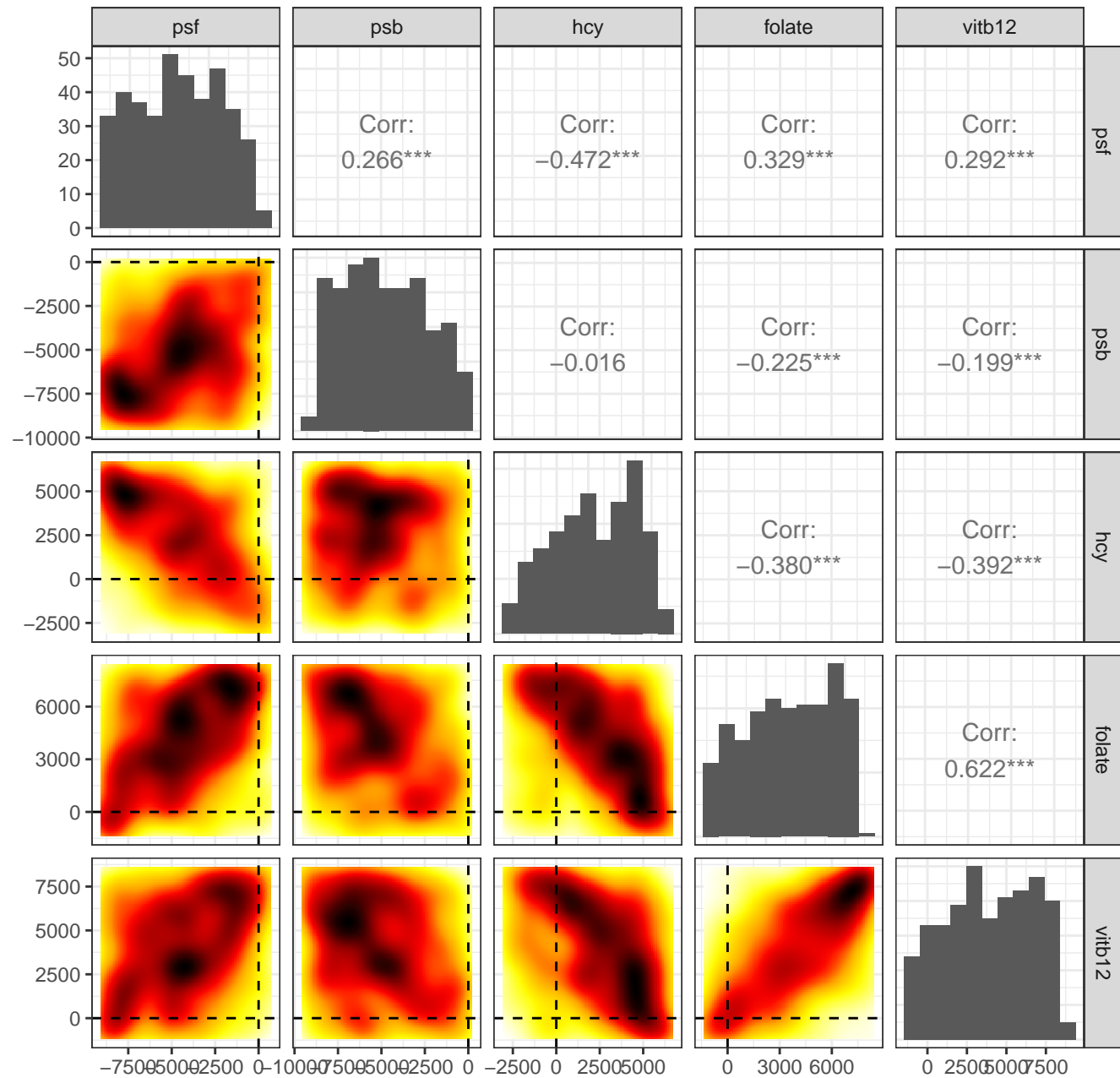
Cell Cycle



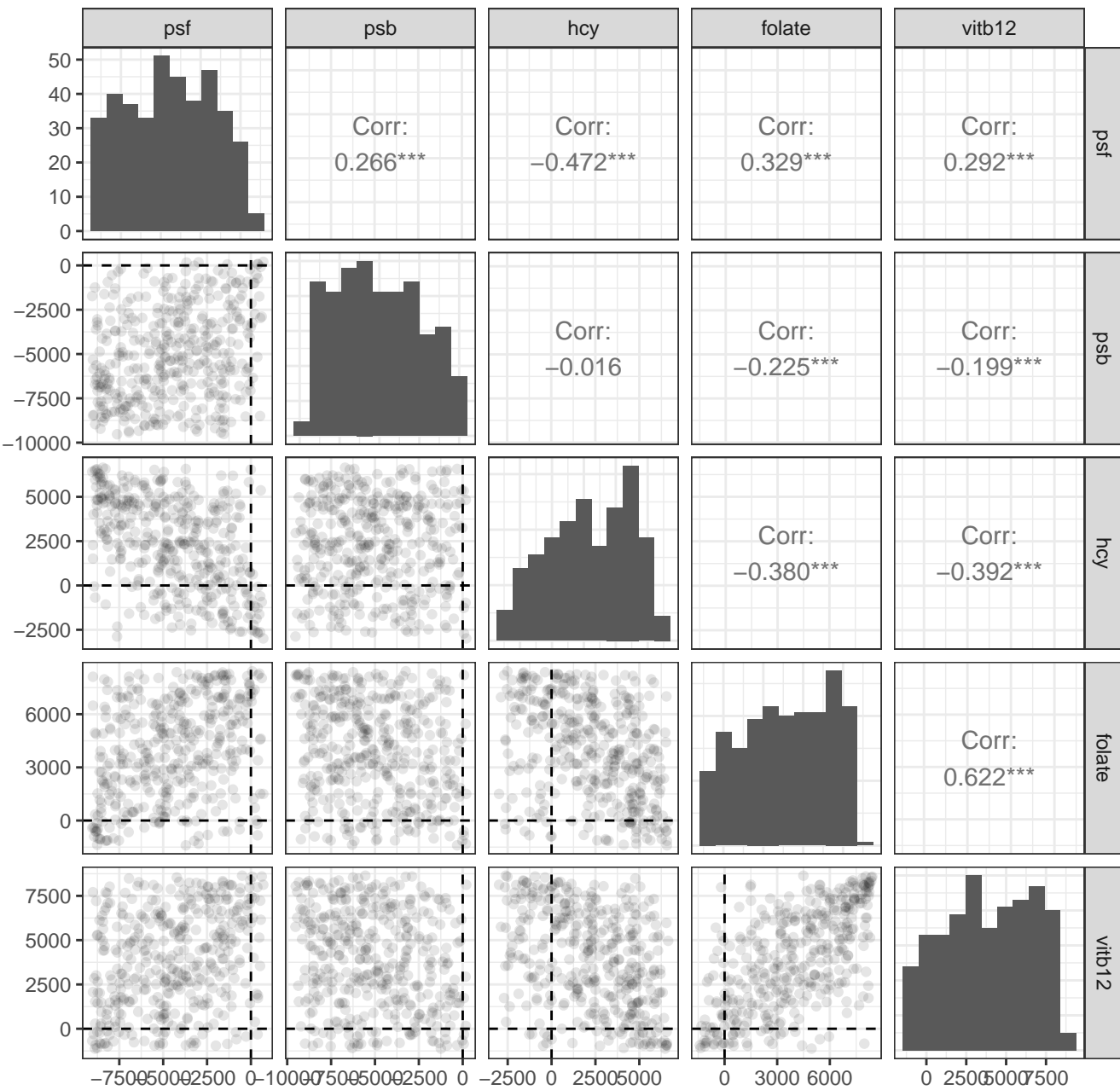
Cell Cycle



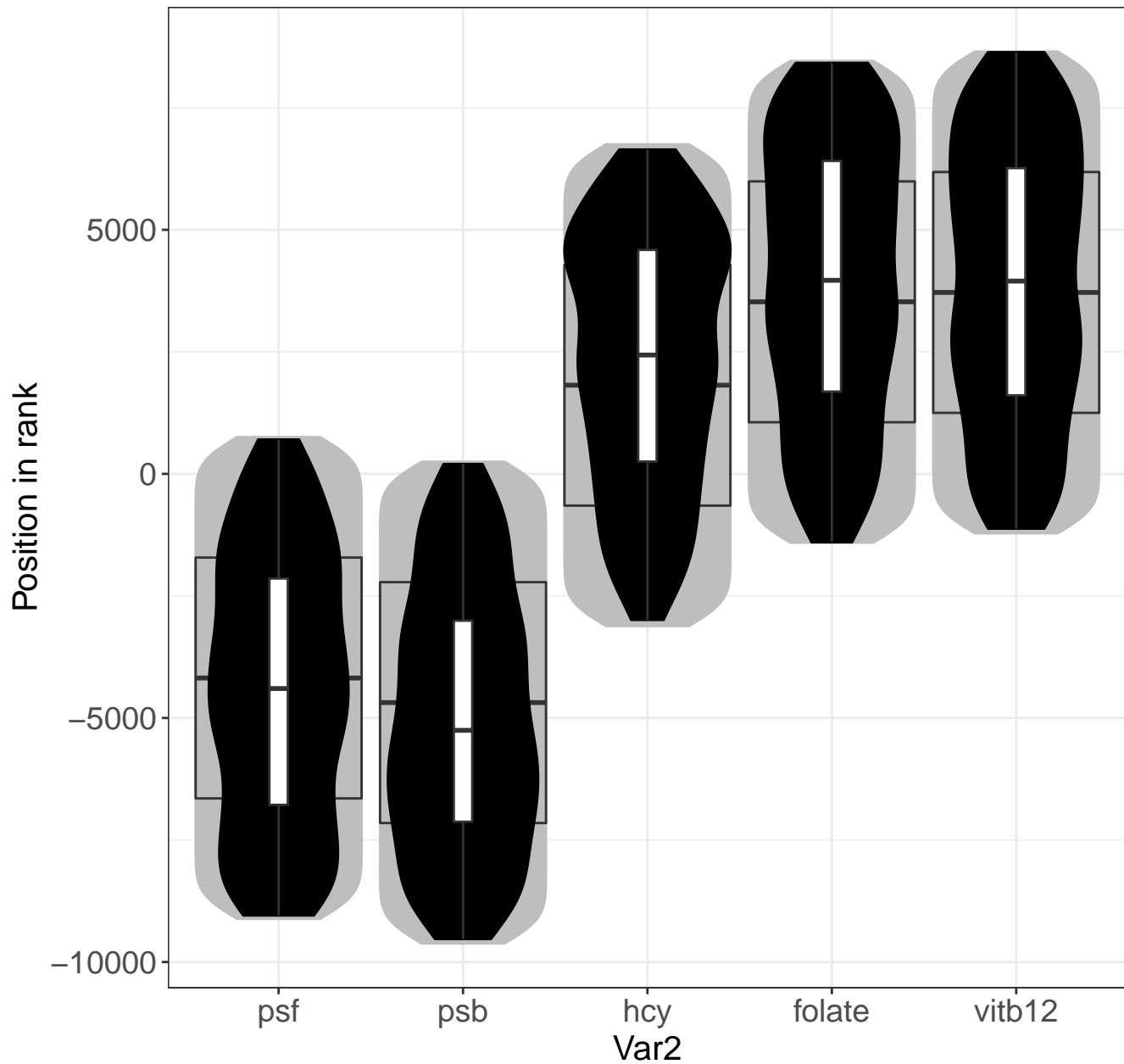
Cell Cycle, Mitotic



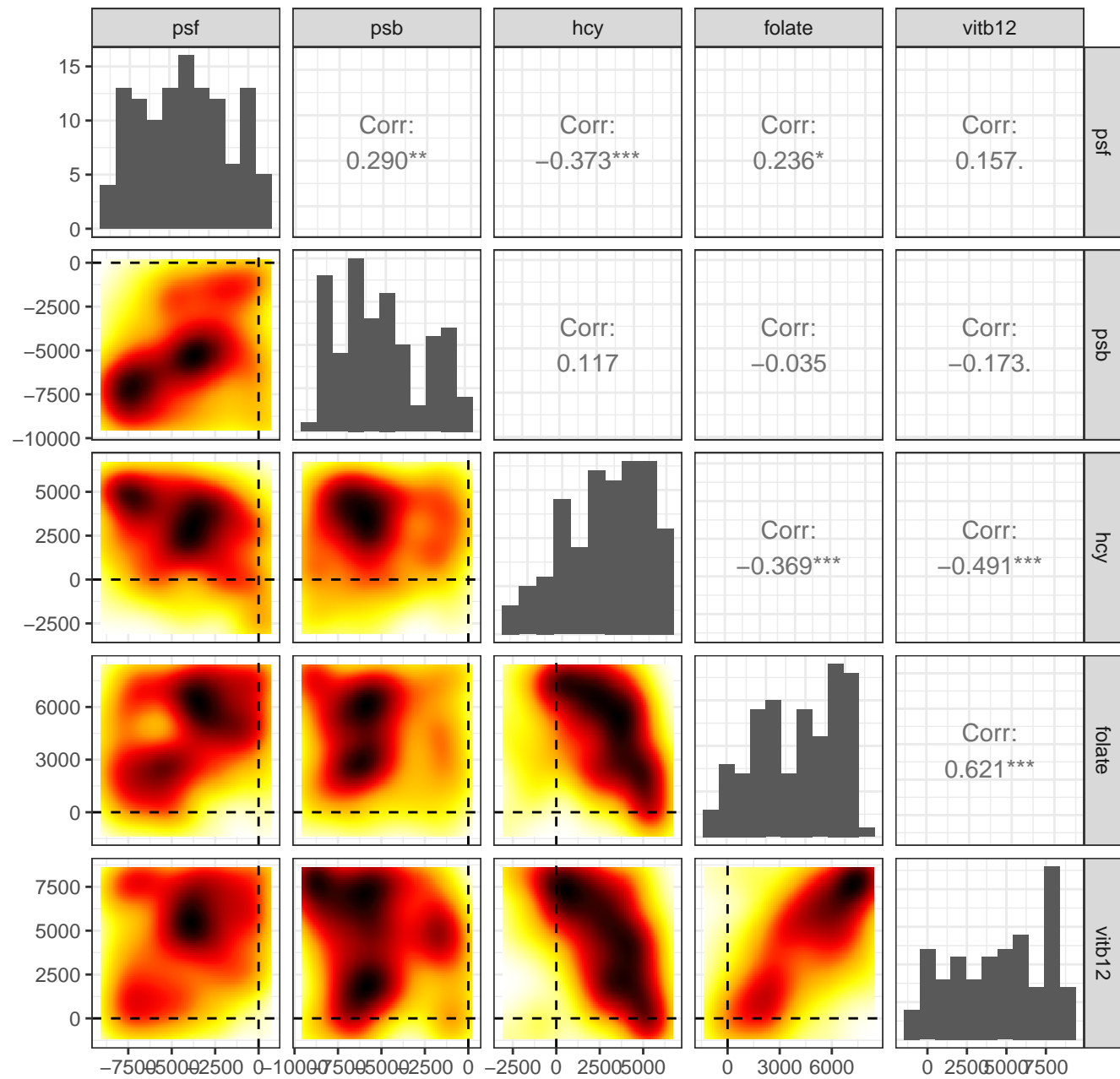
Cell Cycle, Mitotic



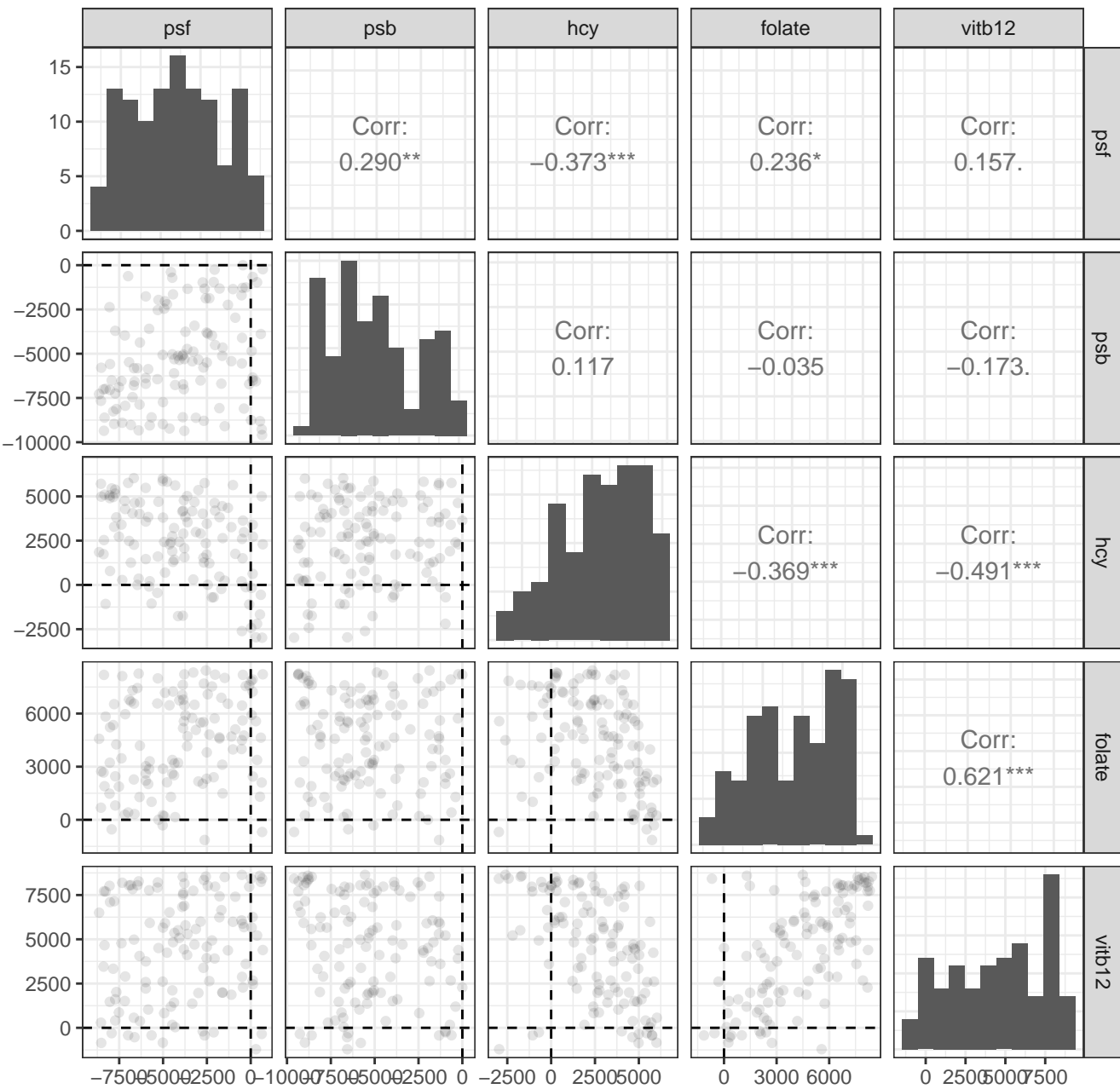
Cell Cycle, Mitotic



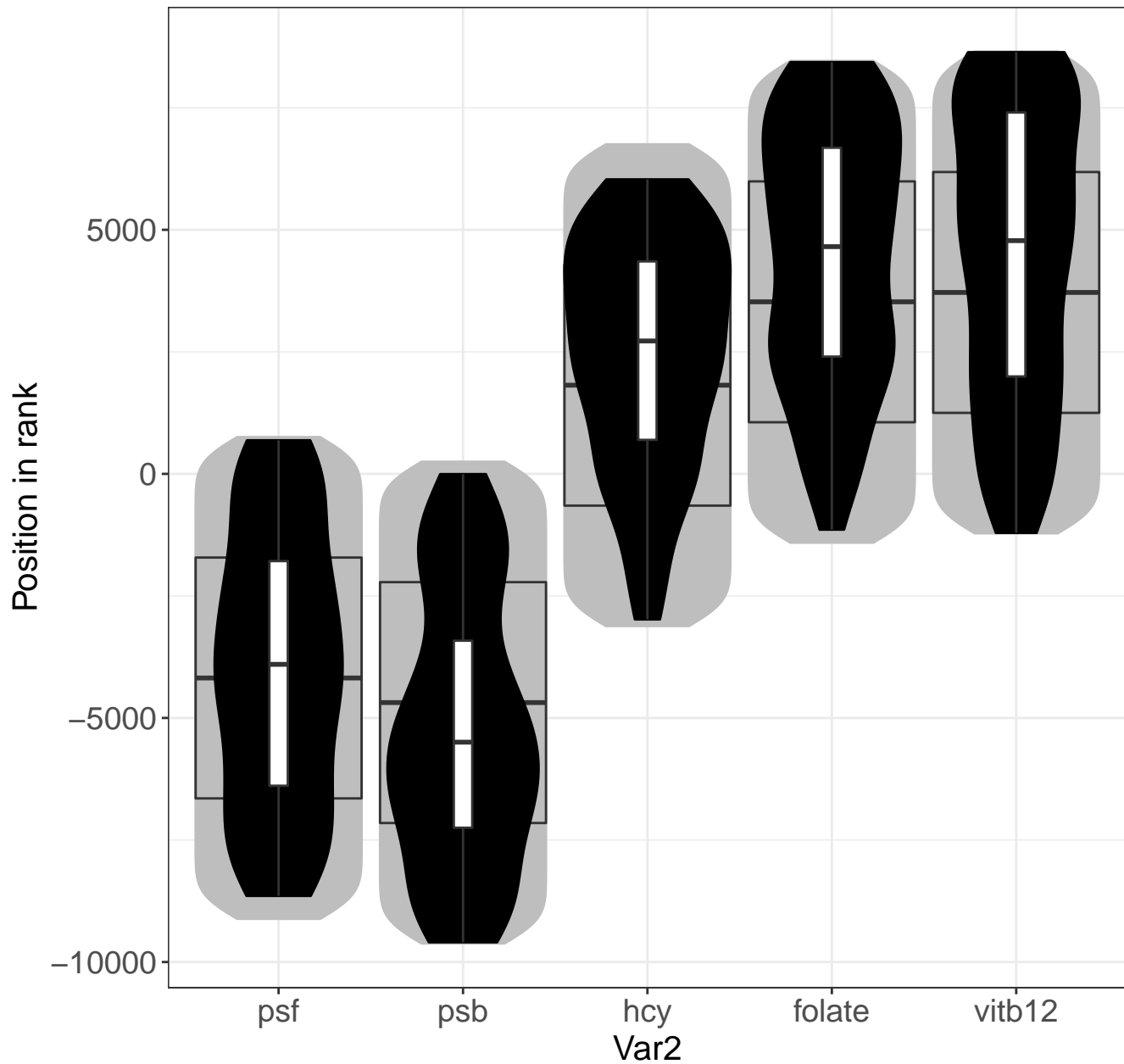
Regulation of expression of SLITs and ROBOs



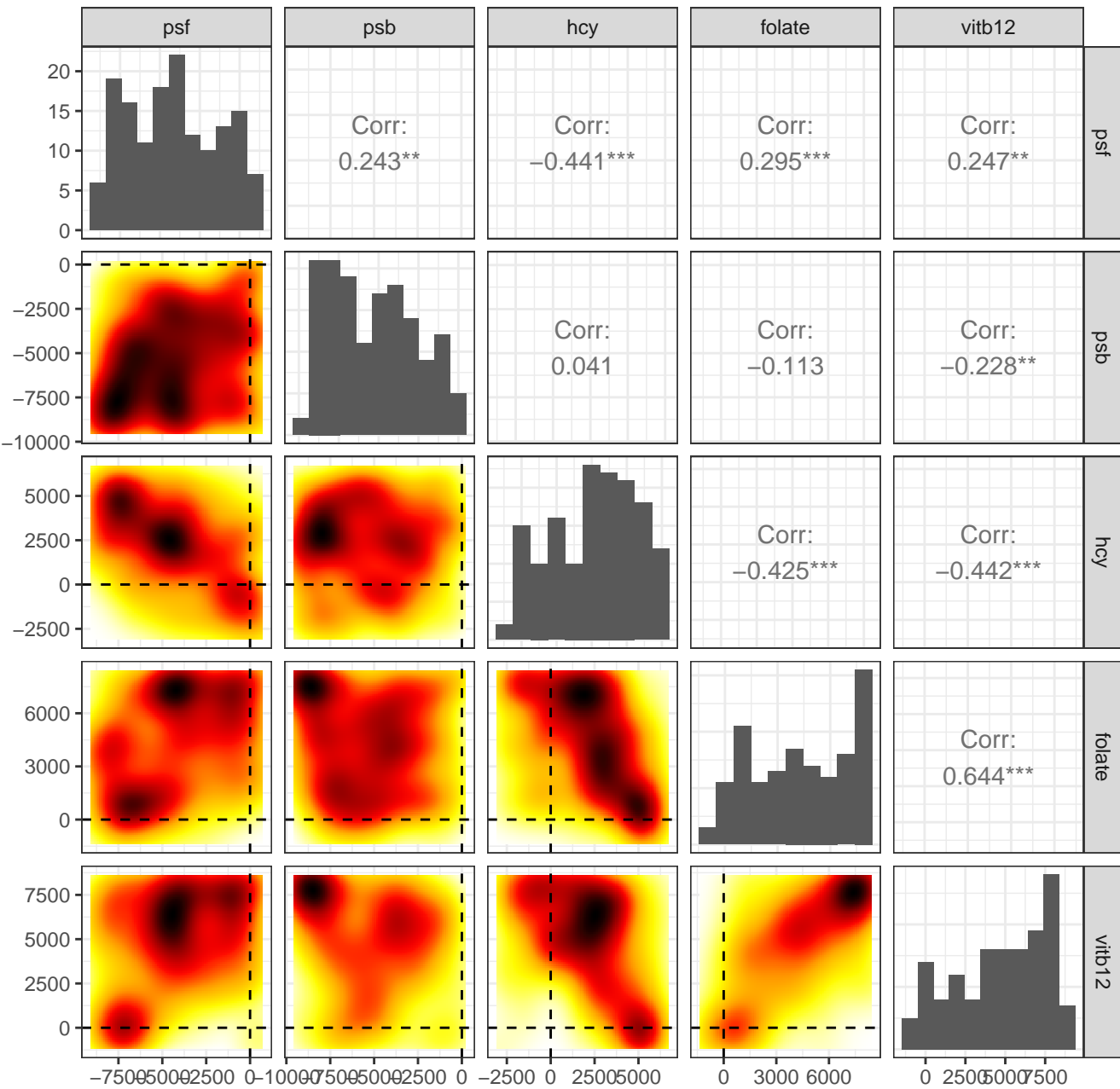
Regulation of expression of SLITs and ROBOs



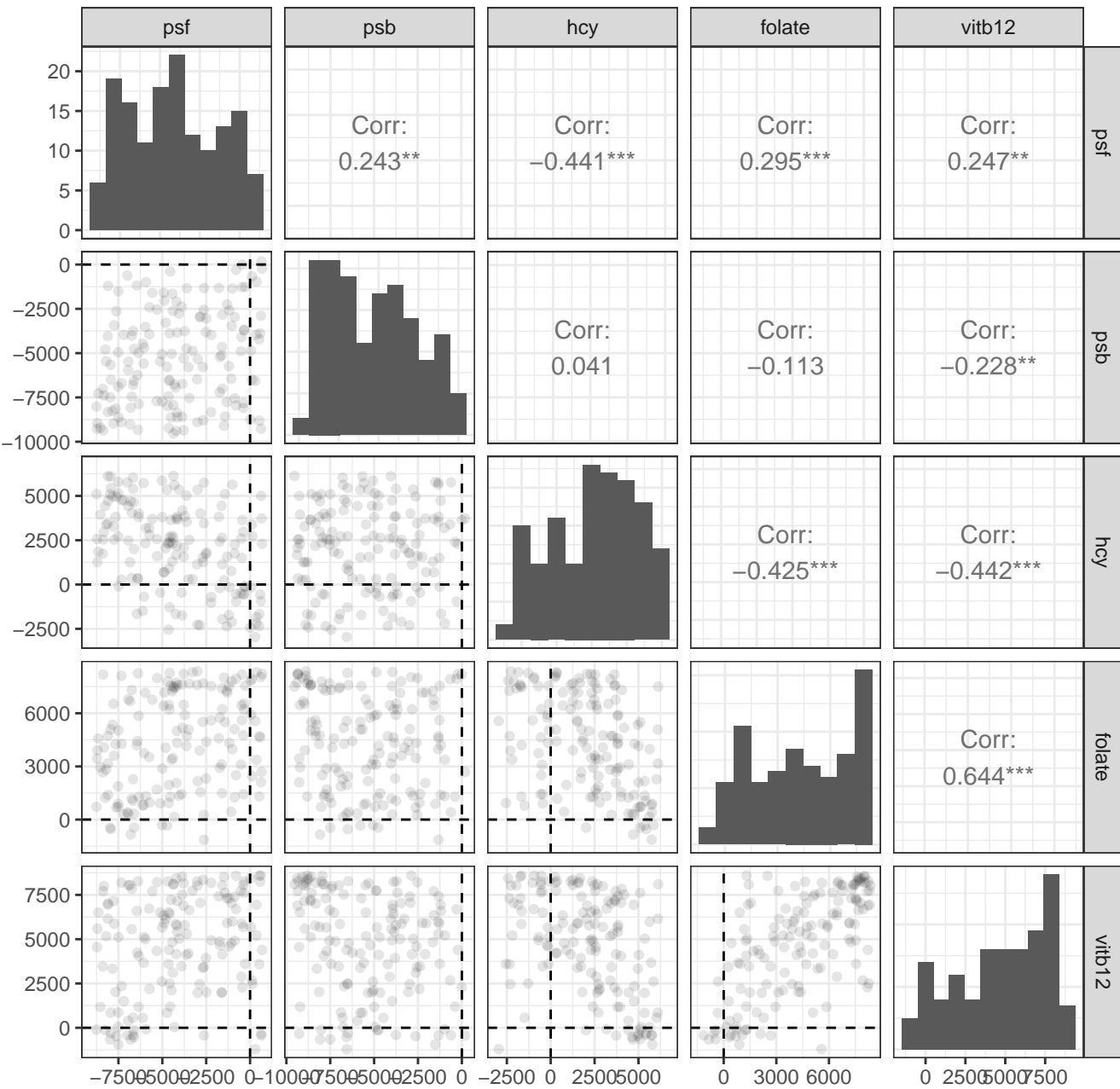
Regulation of expression of SLITs and ROBOs



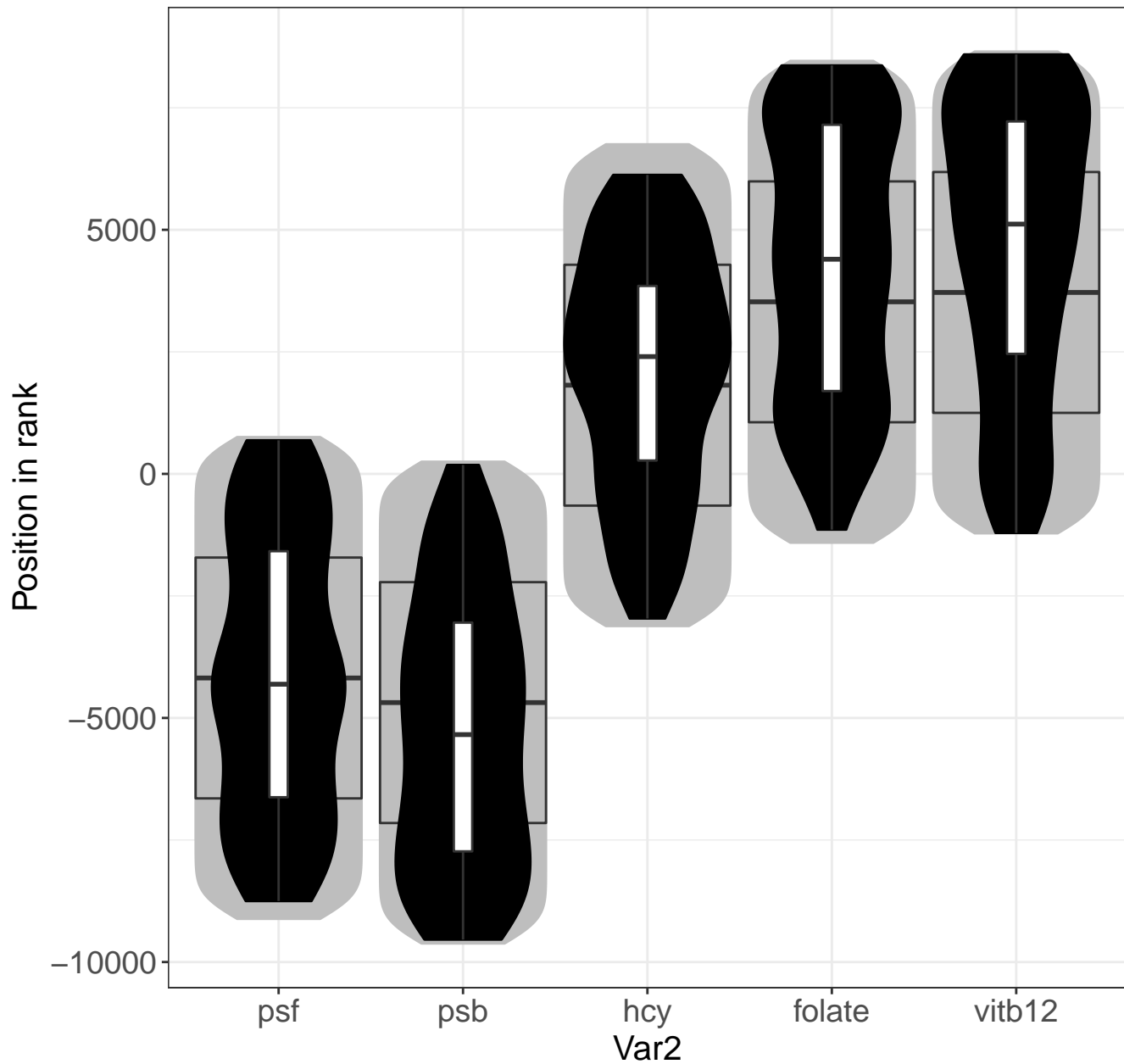
rRNA processing



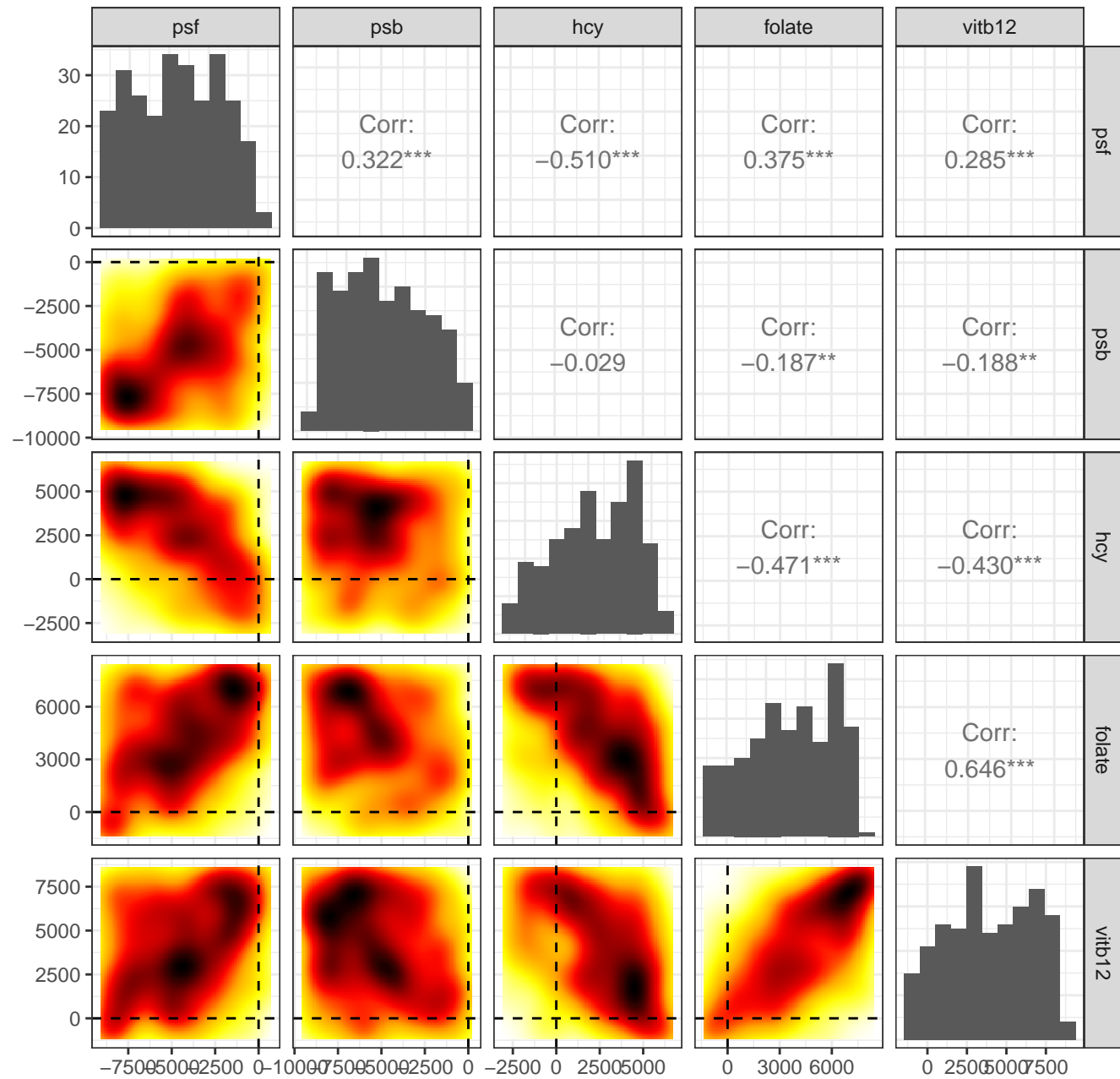
rRNA processing



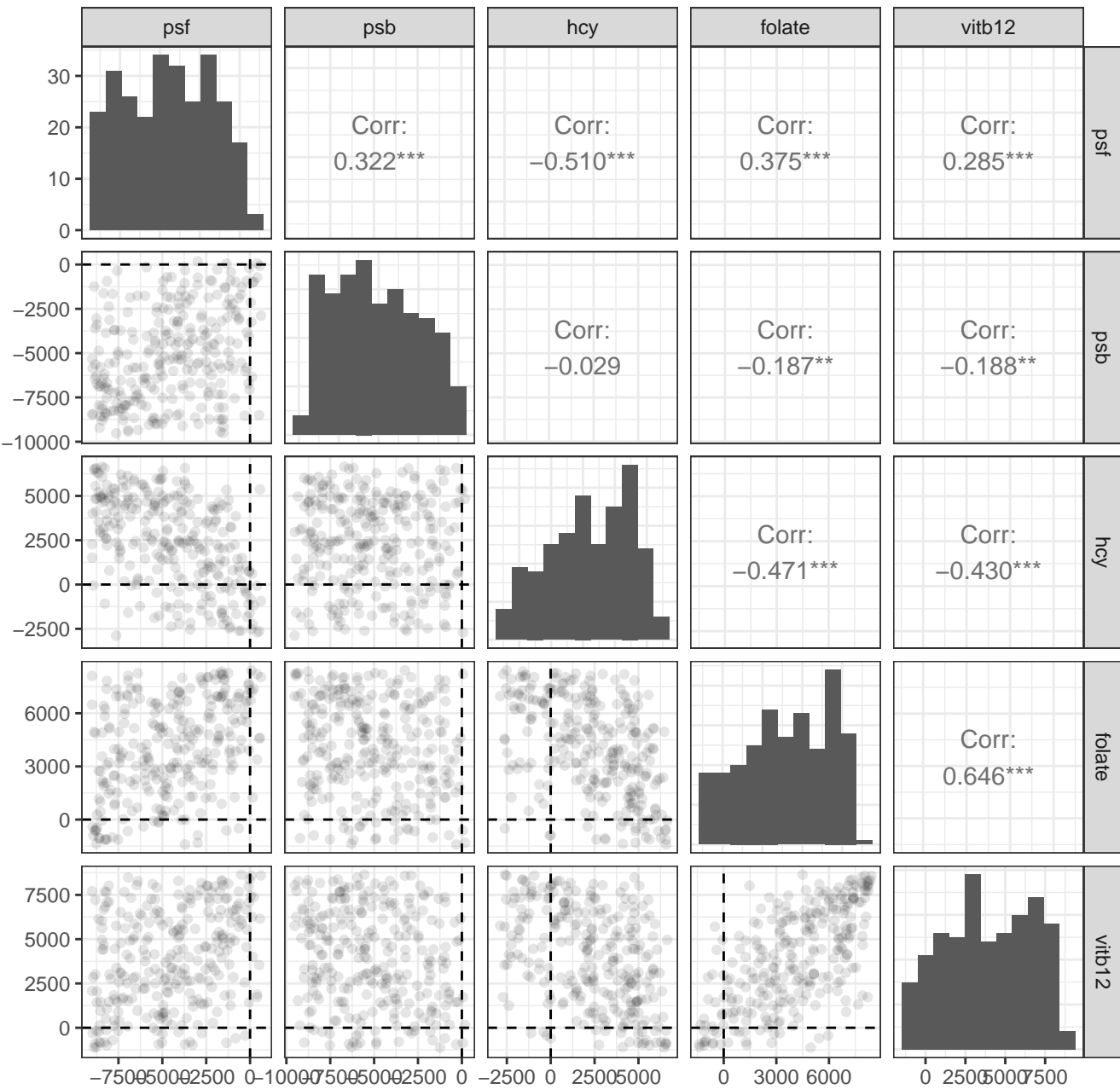
rRNA processing



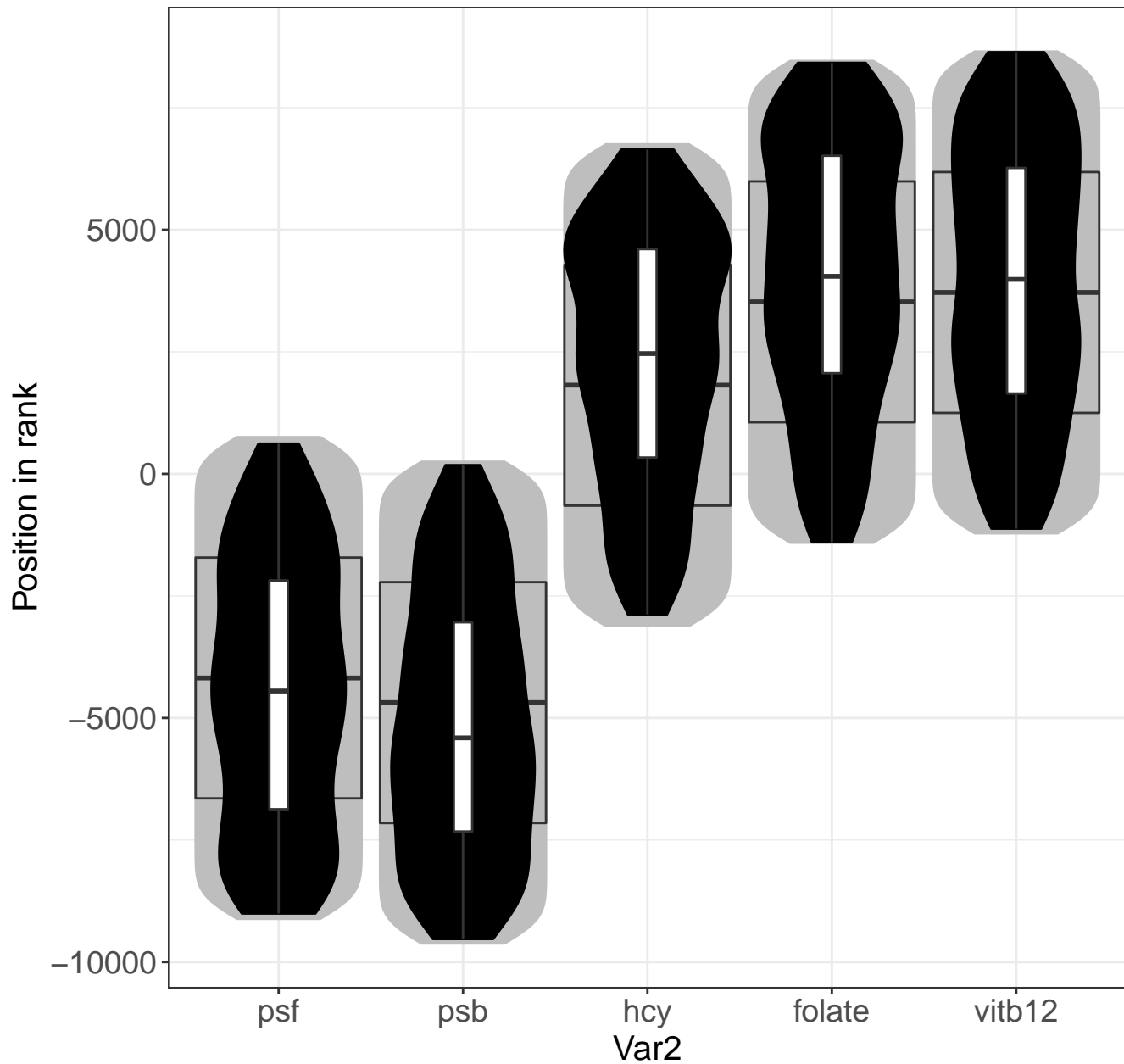
M Phase



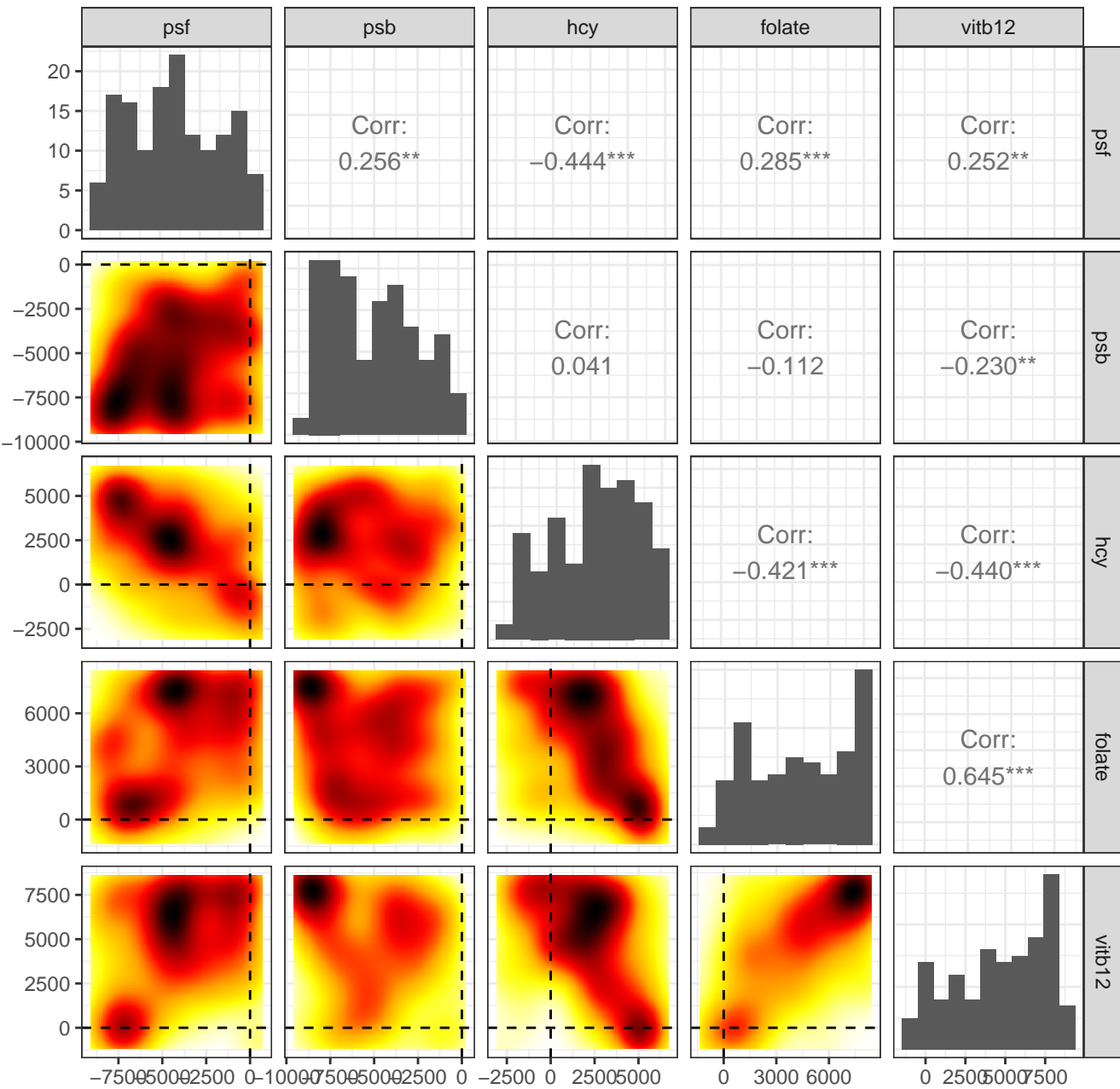
M Phase



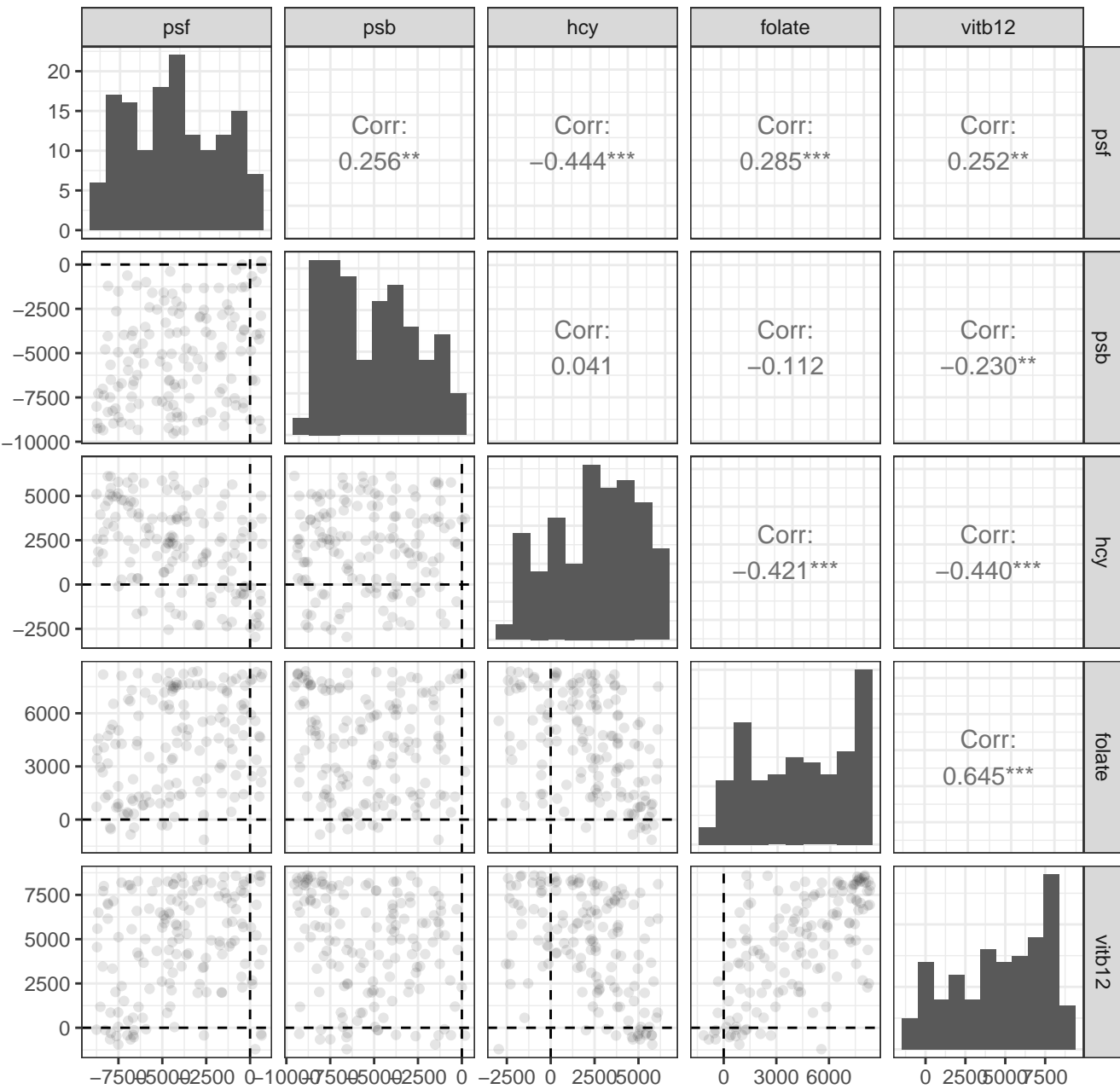
M Phase



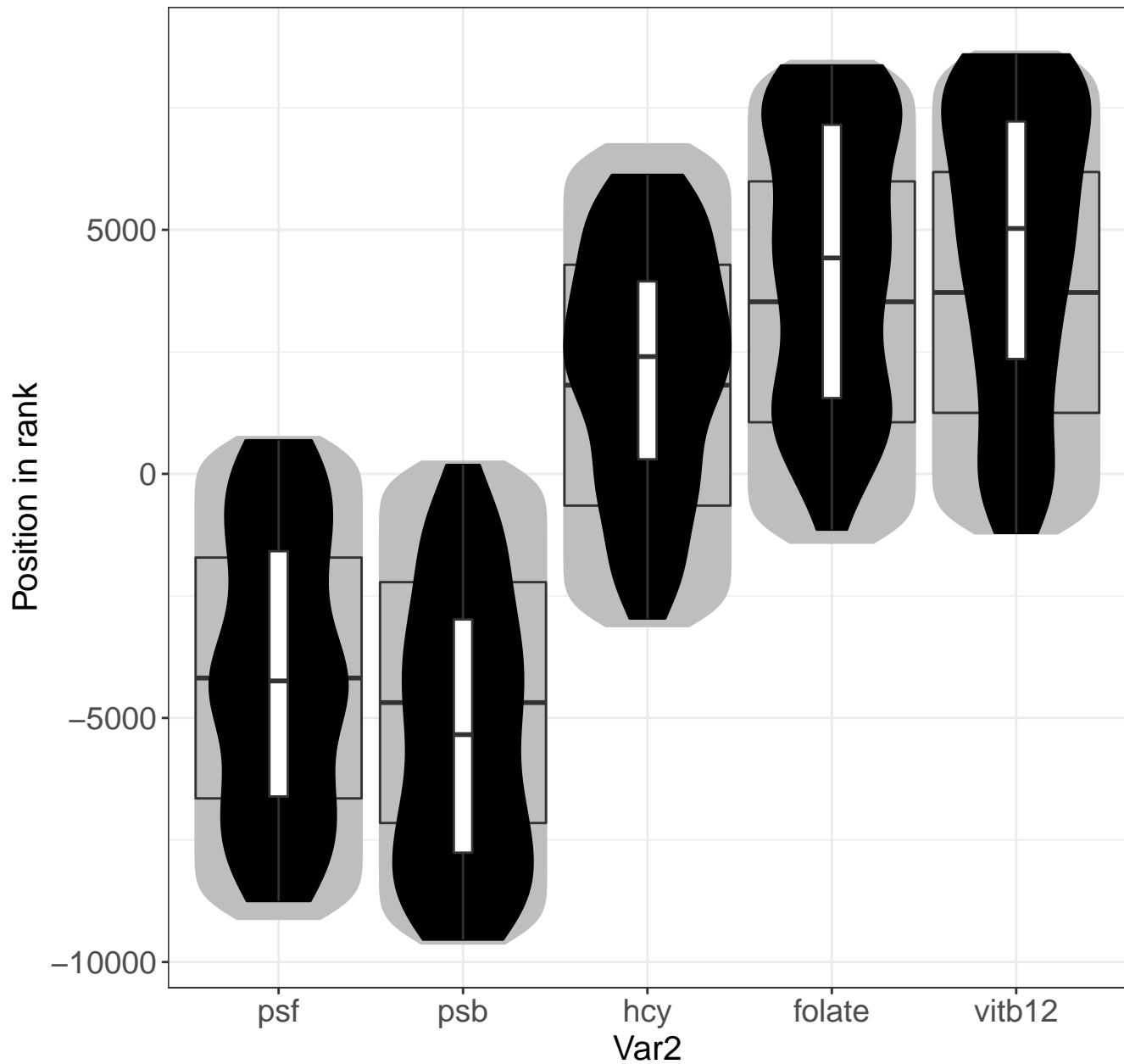
rRNA processing in the nucleus and cytosol



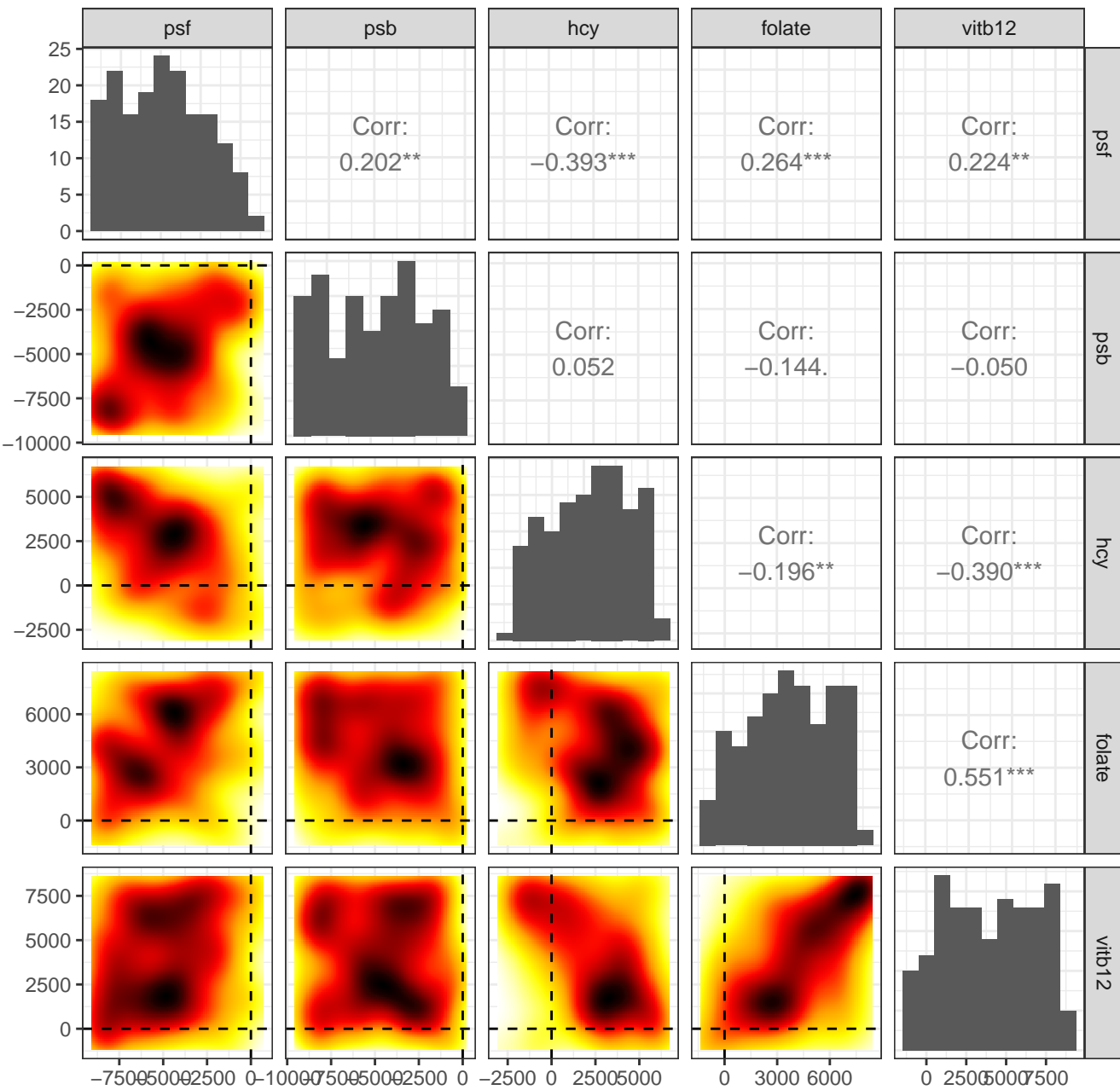
rRNA processing in the nucleus and cytosol



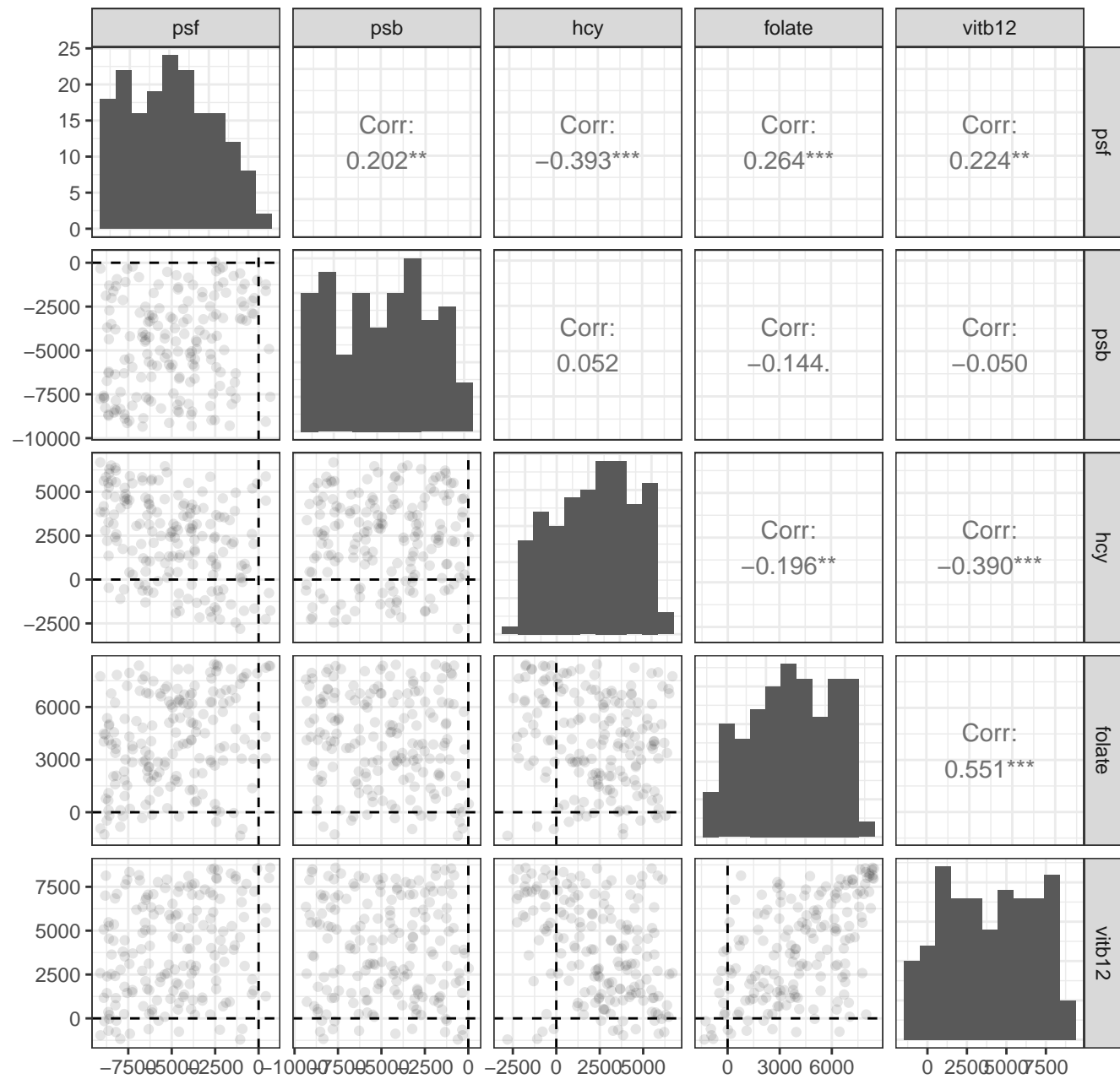
rRNA processing in the nucleus and cytosol



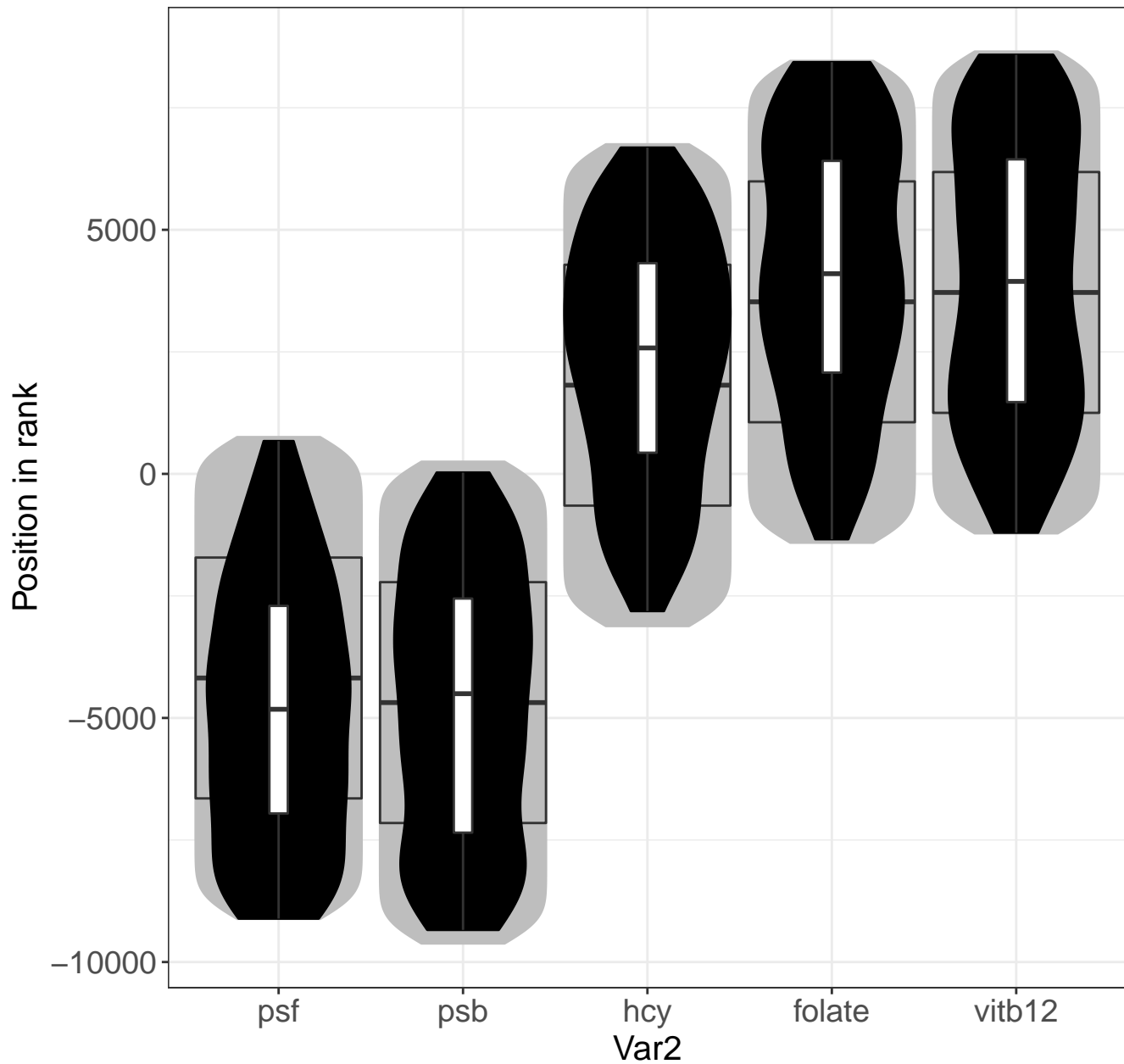
Processing of Capped Intron-Containing Pre-mRNA



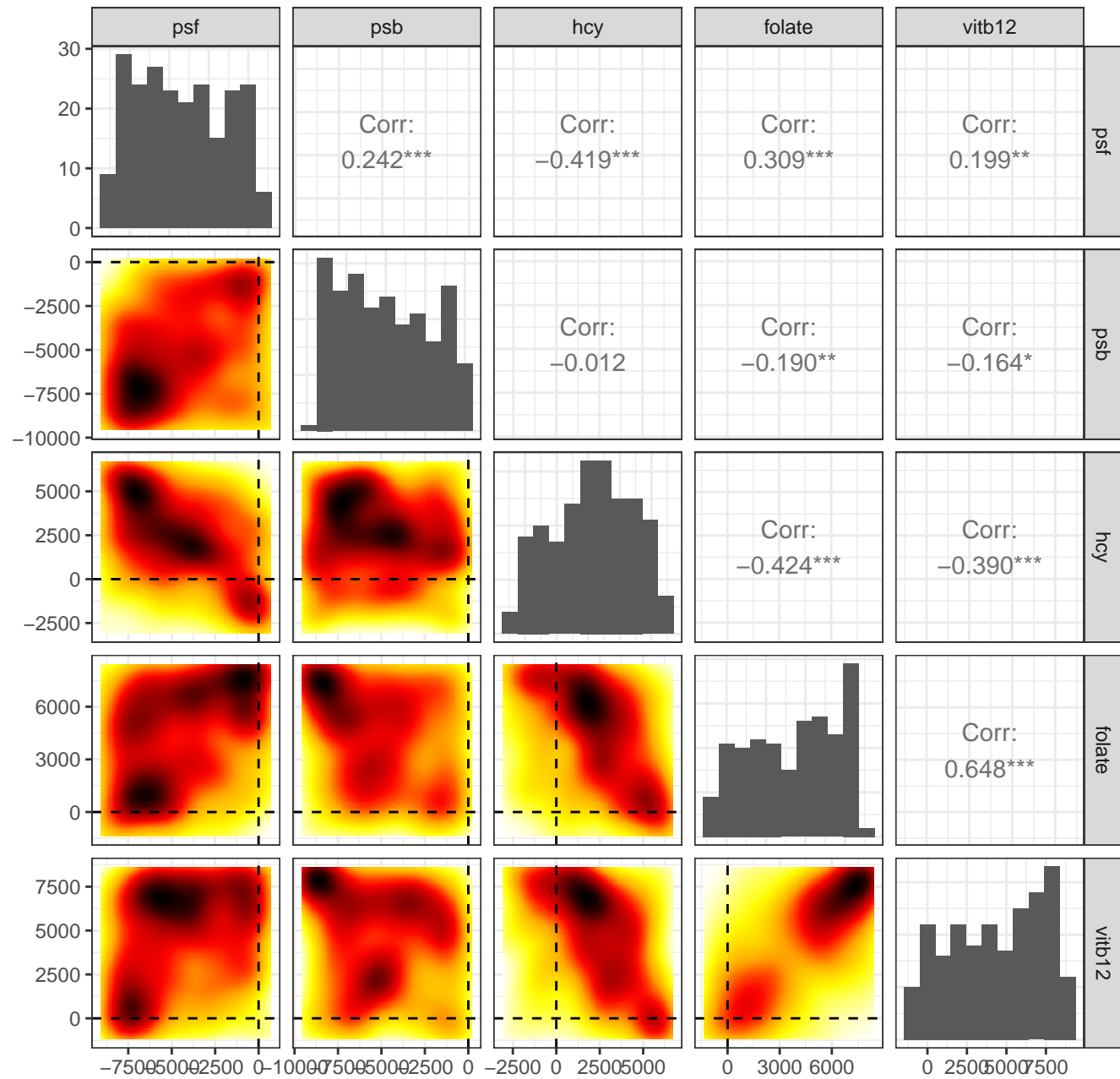
Processing of Capped Intron-Containing Pre-mRNA



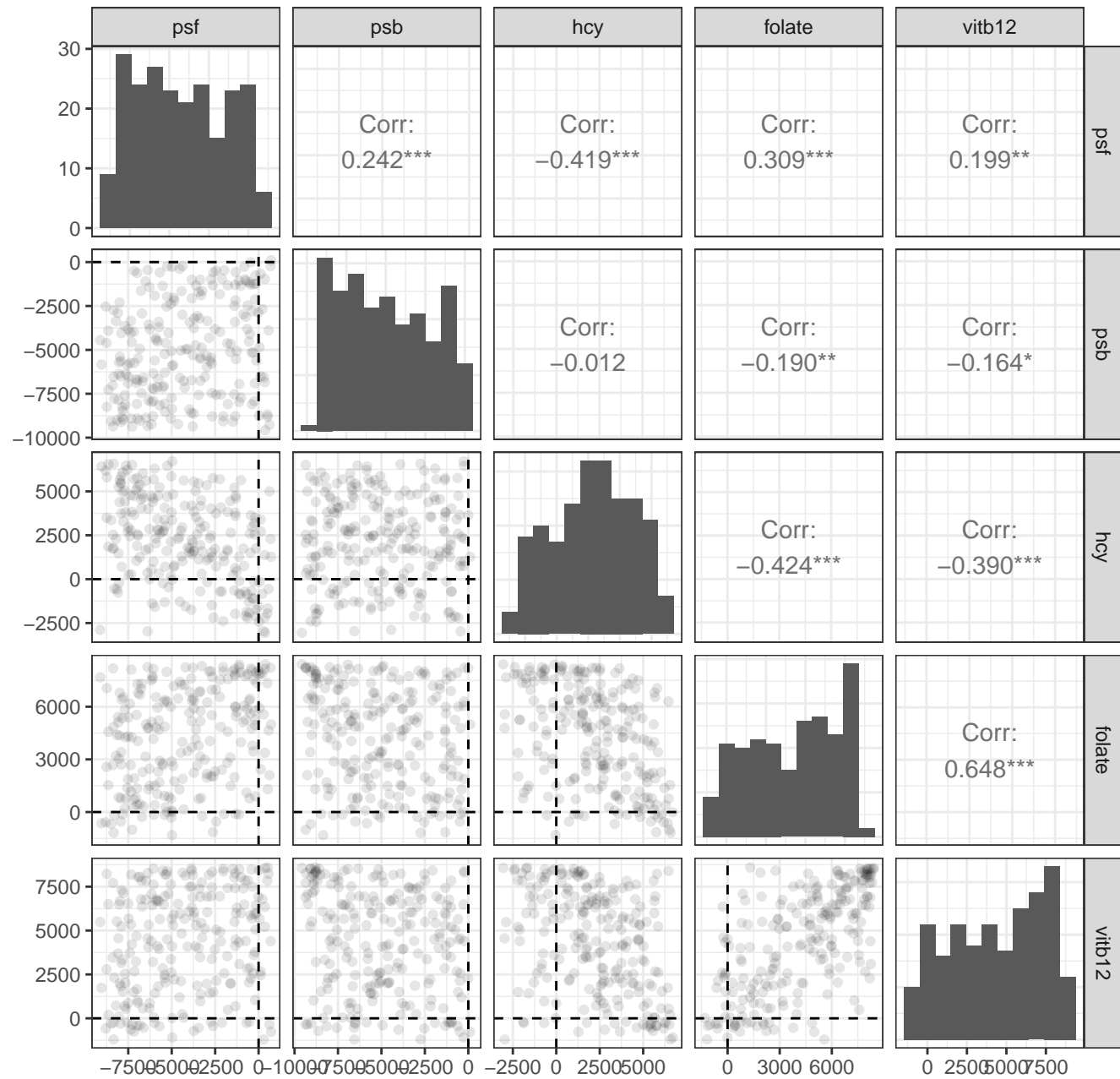
Processing of Capped Intron-Containing Pre-m



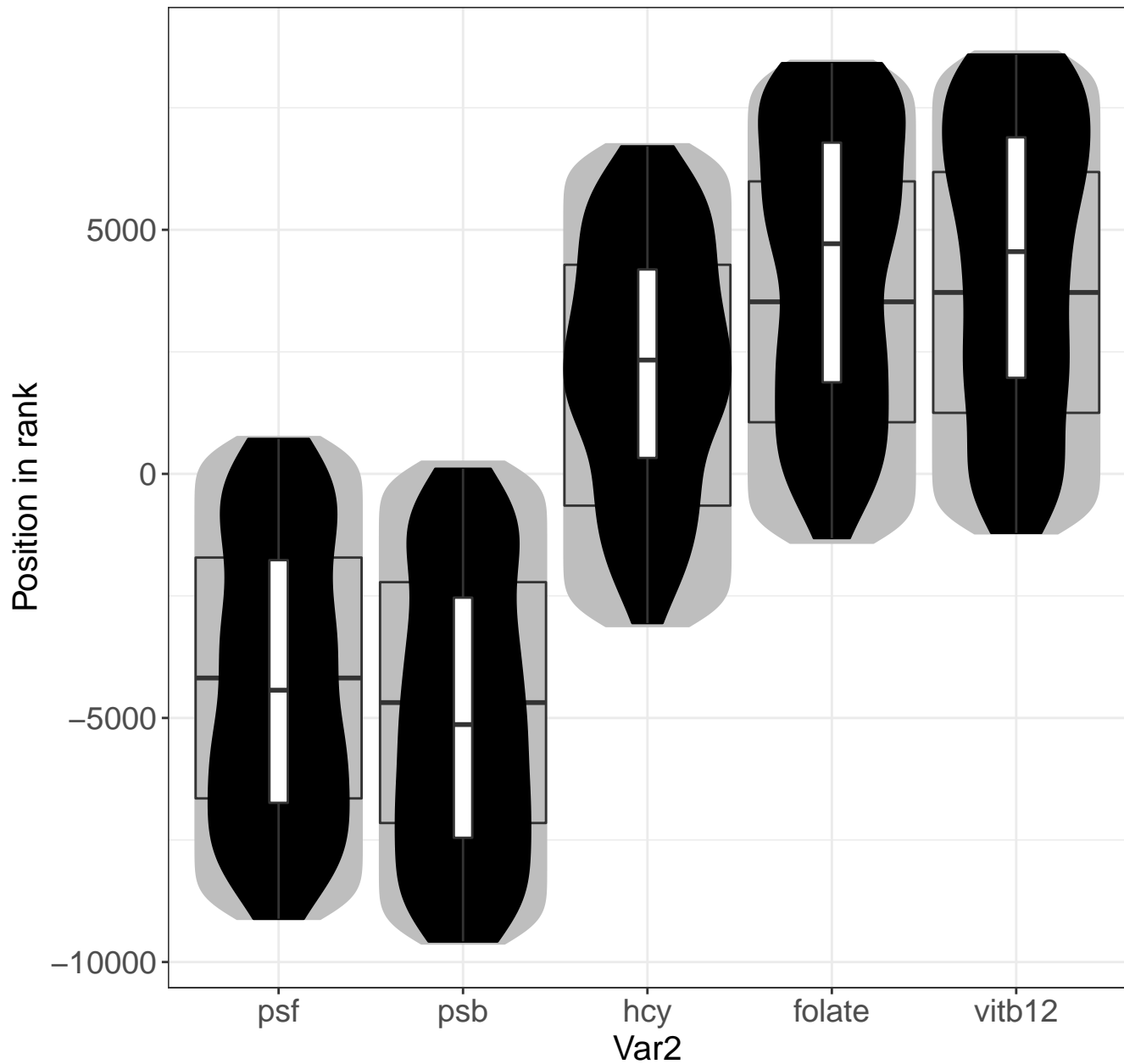
Translation



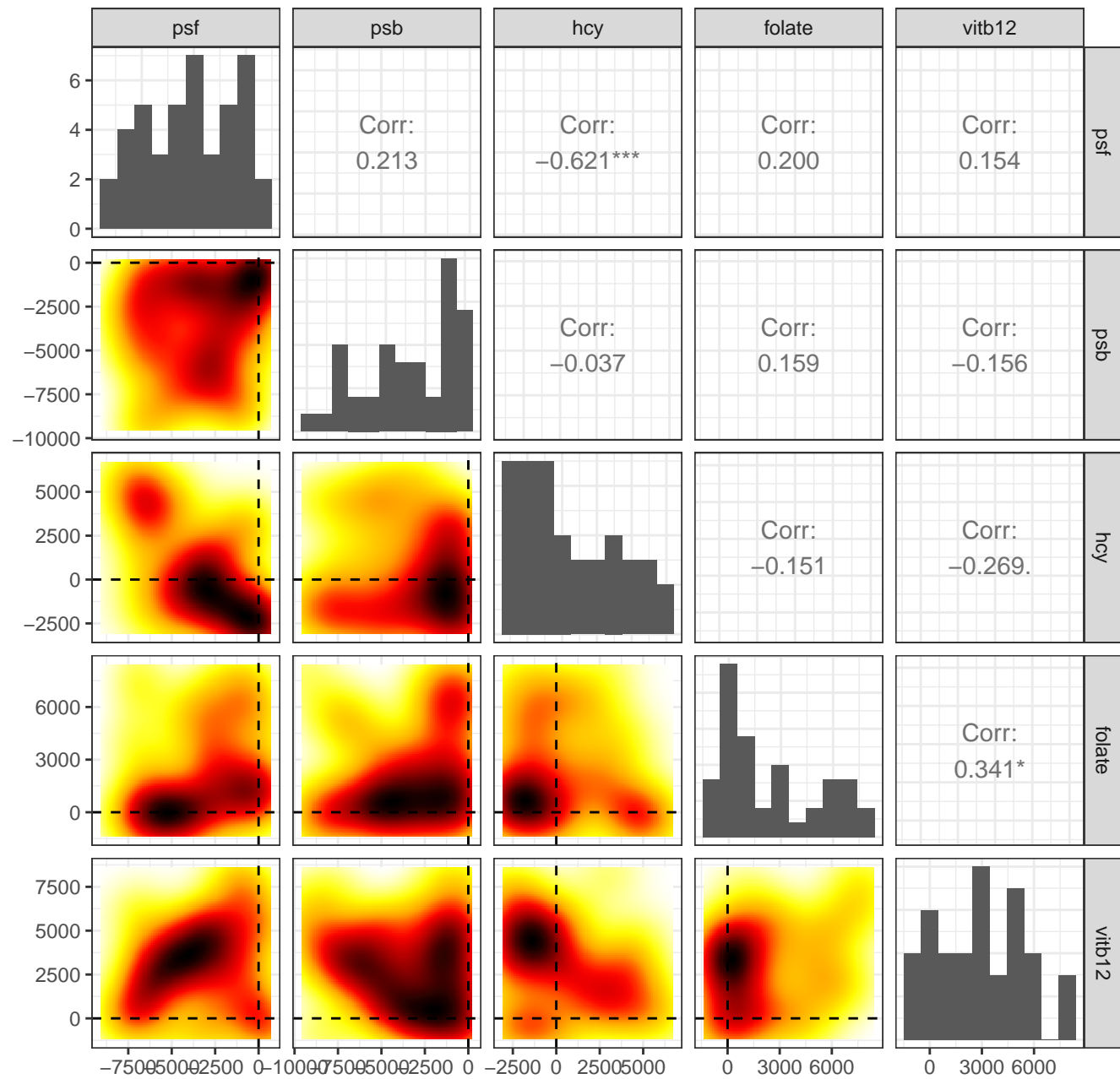
Translation



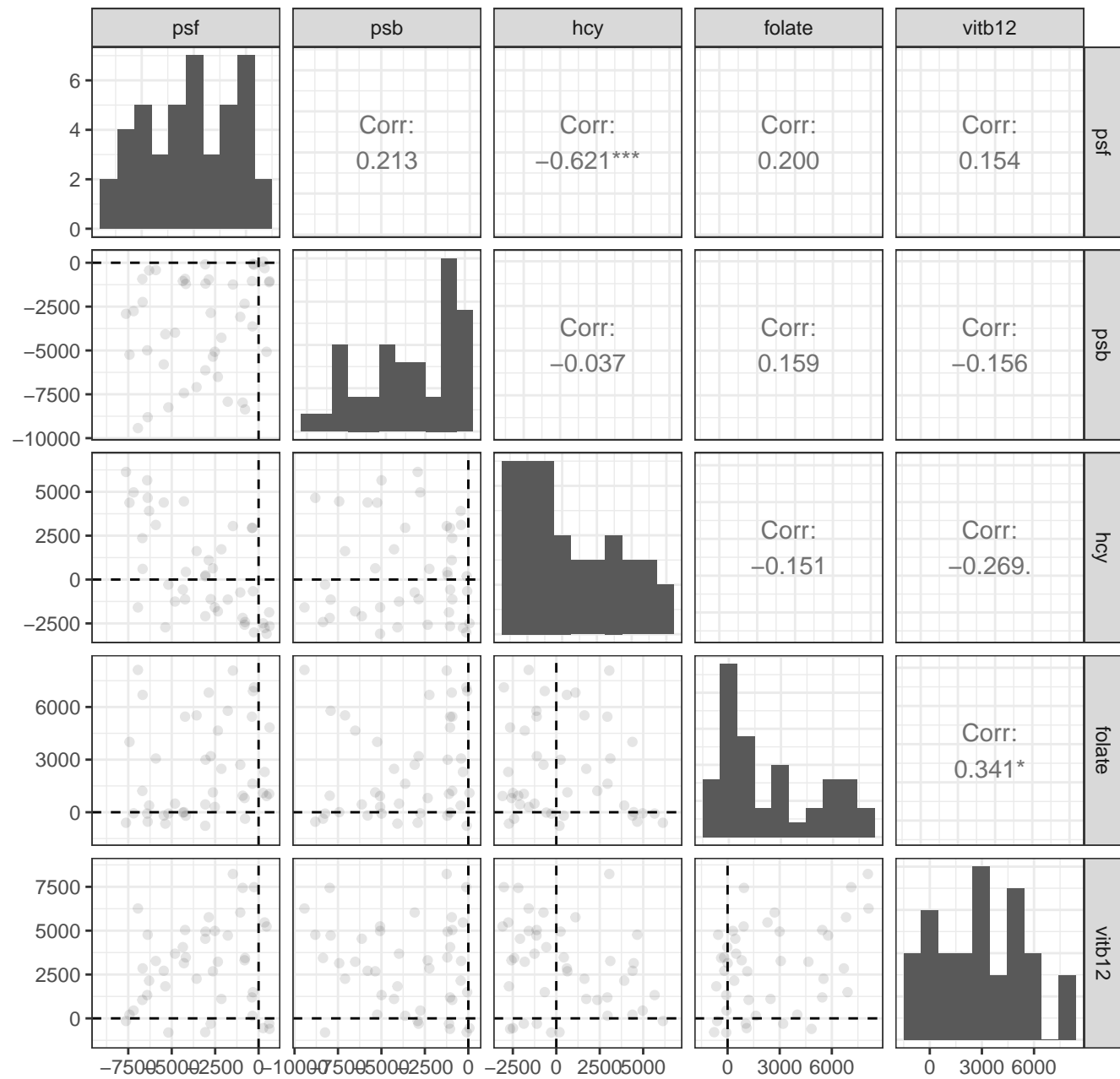
Translation



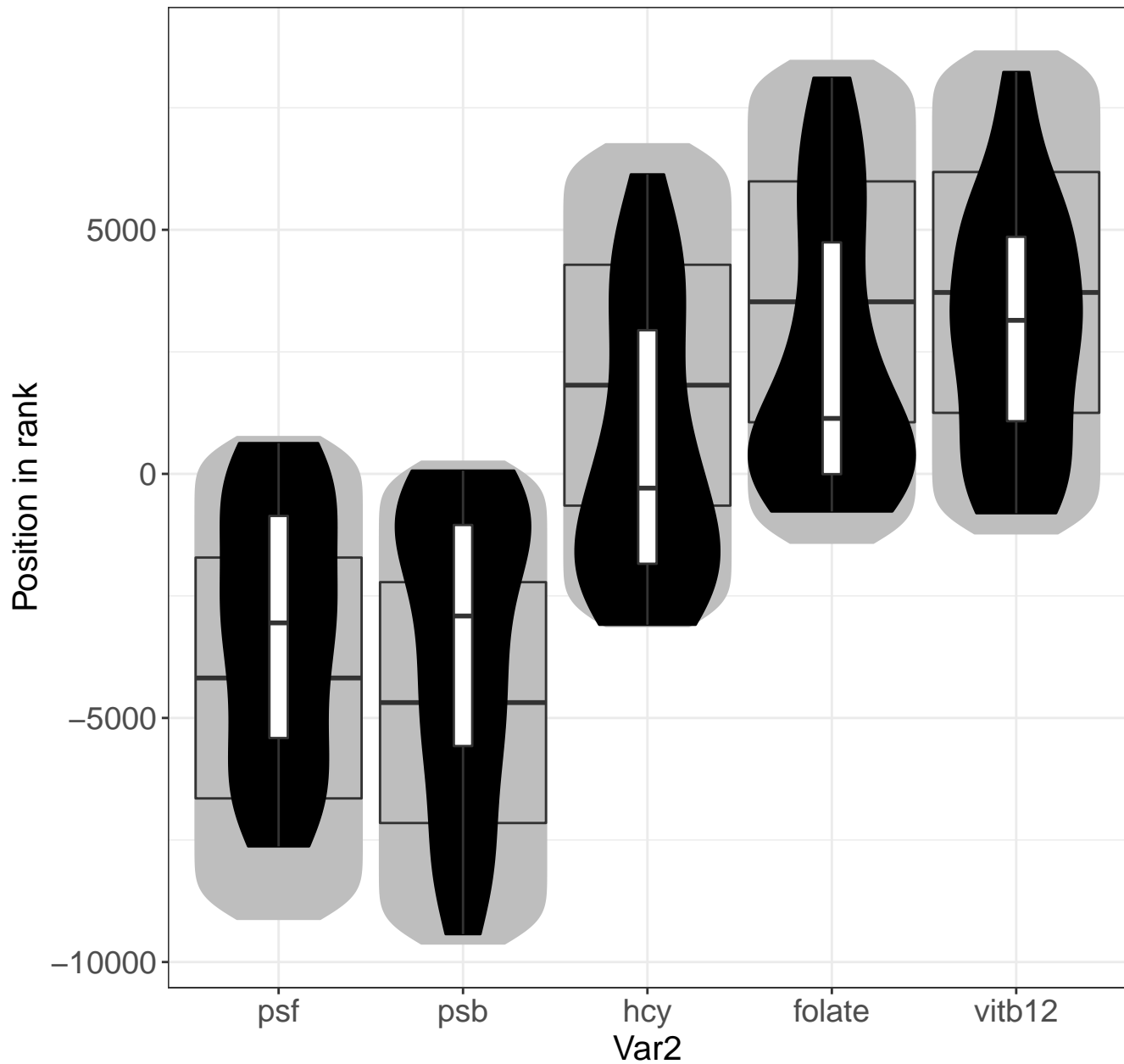
Activation of NMDA receptors and postsynaptic events



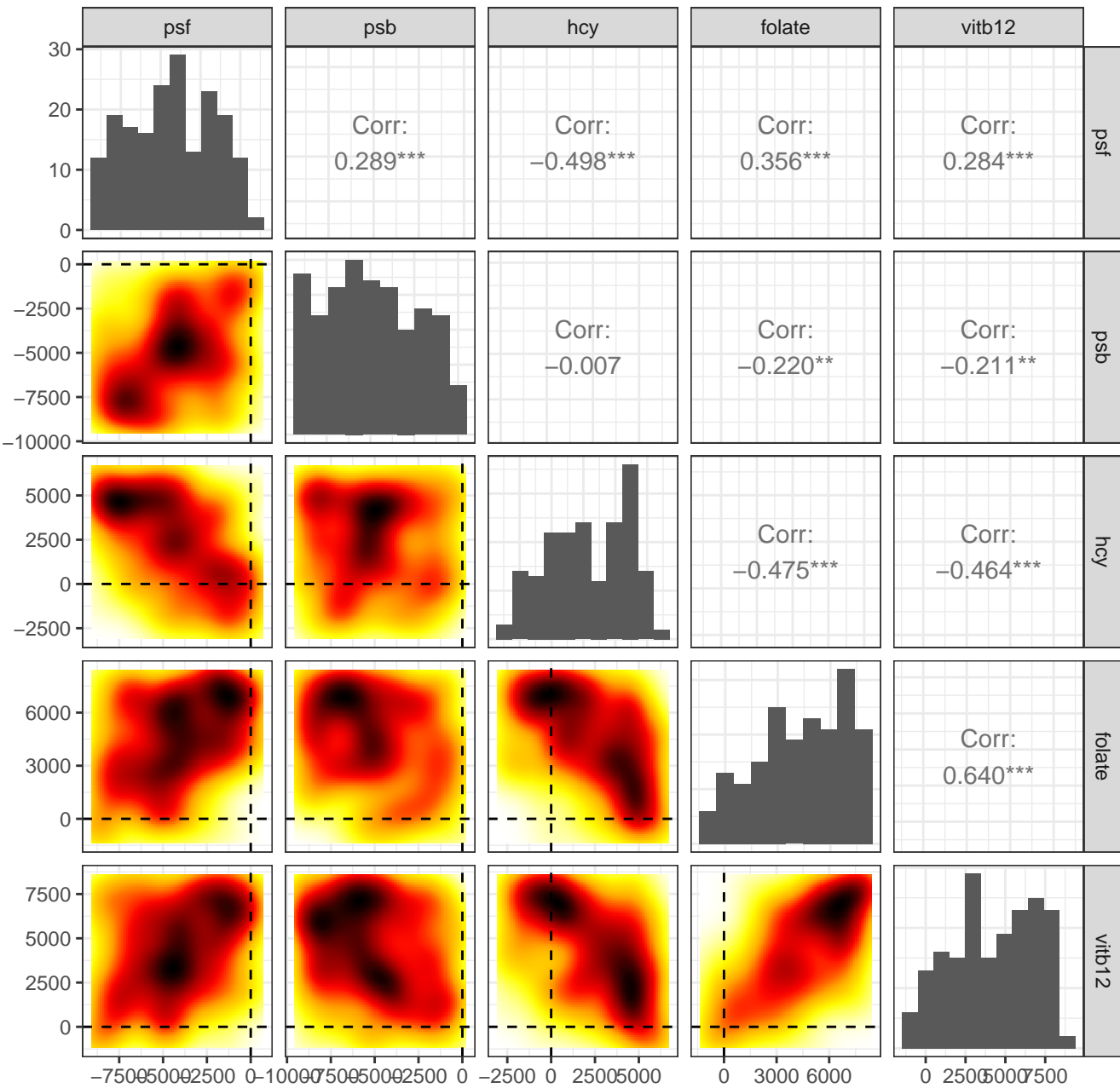
Activation of NMDA receptors and postsynaptic events



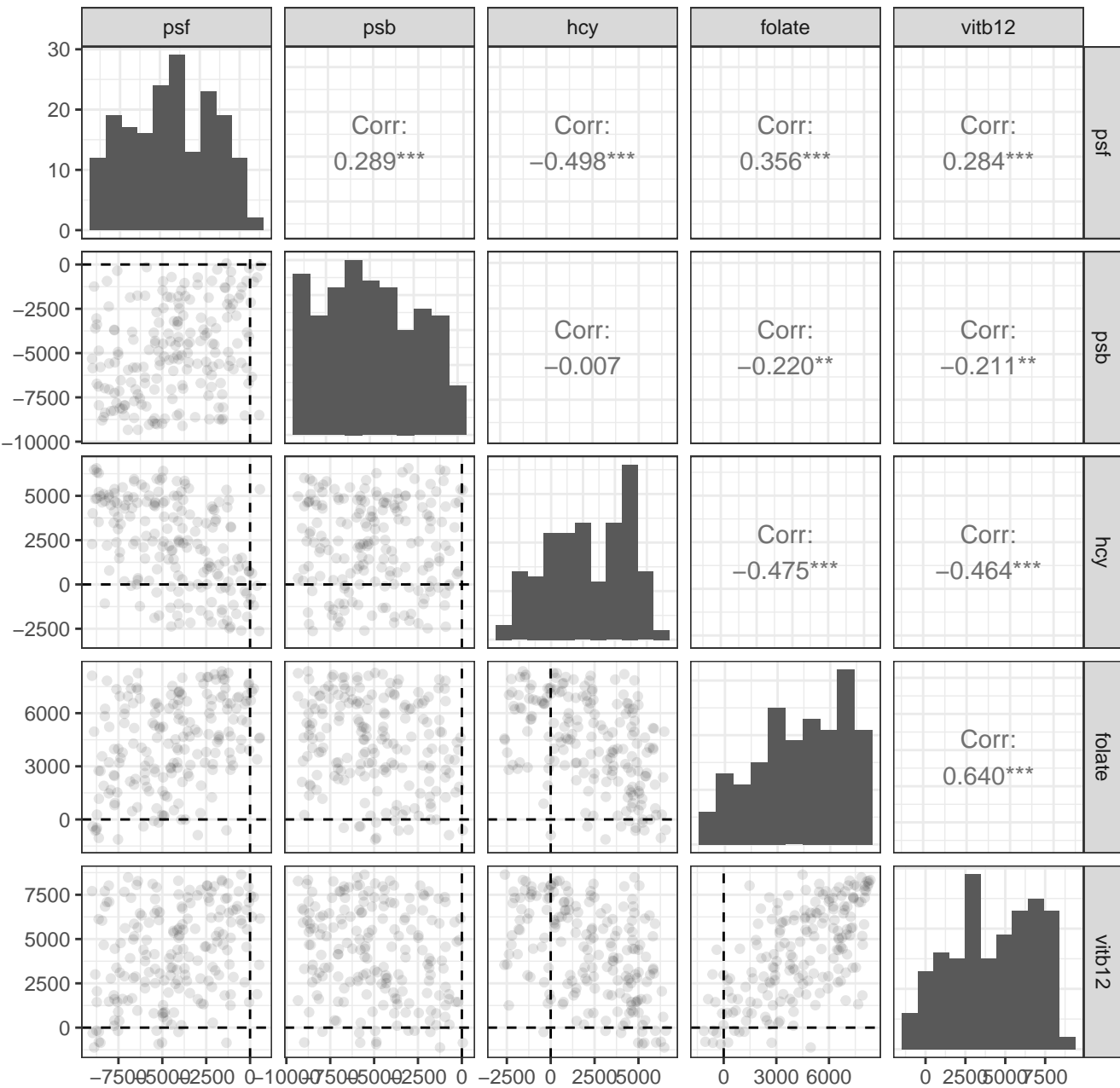
Activation of NMDA receptors and postsynaptic e



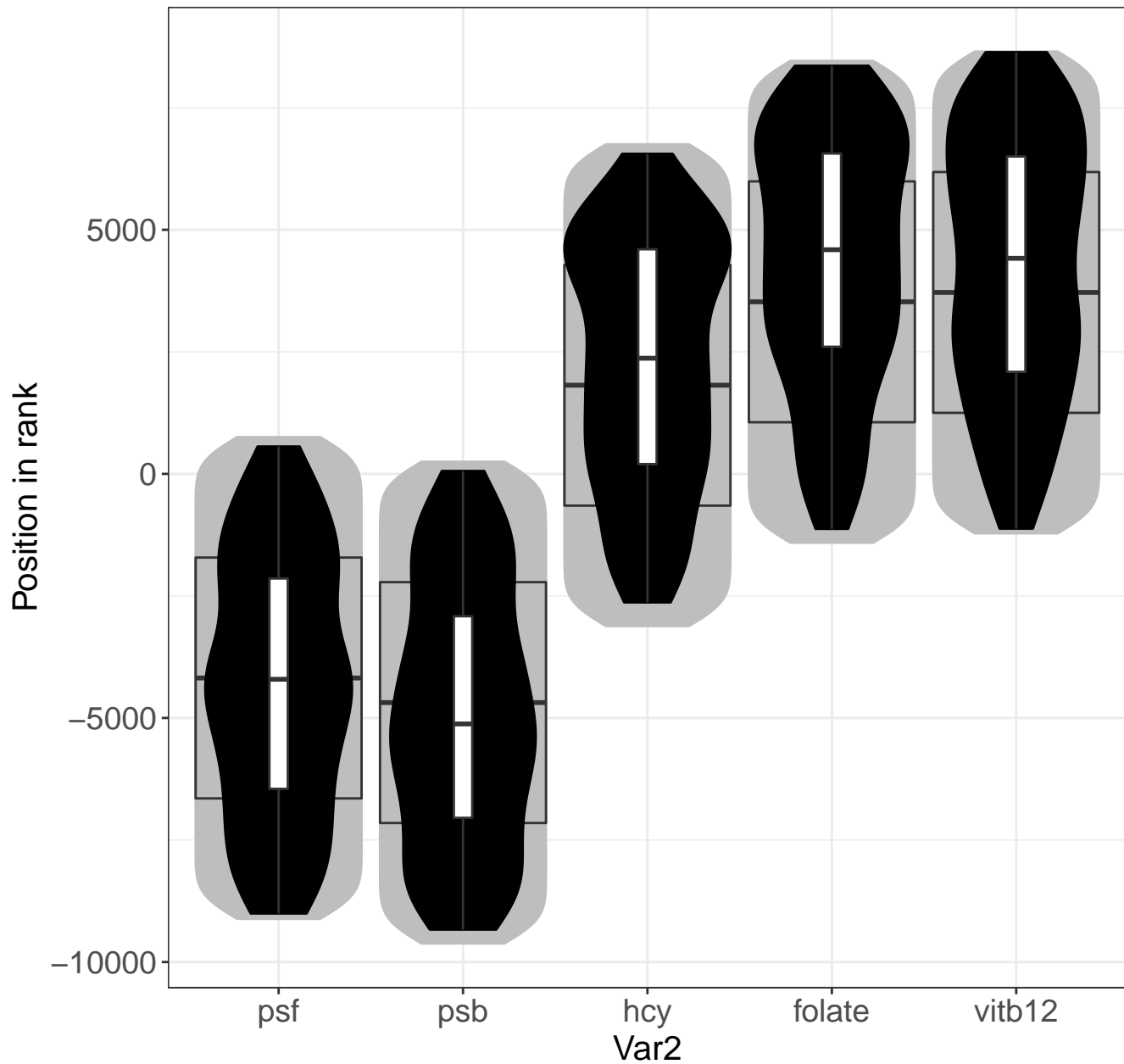
Mitotic Metaphase and Anaphase



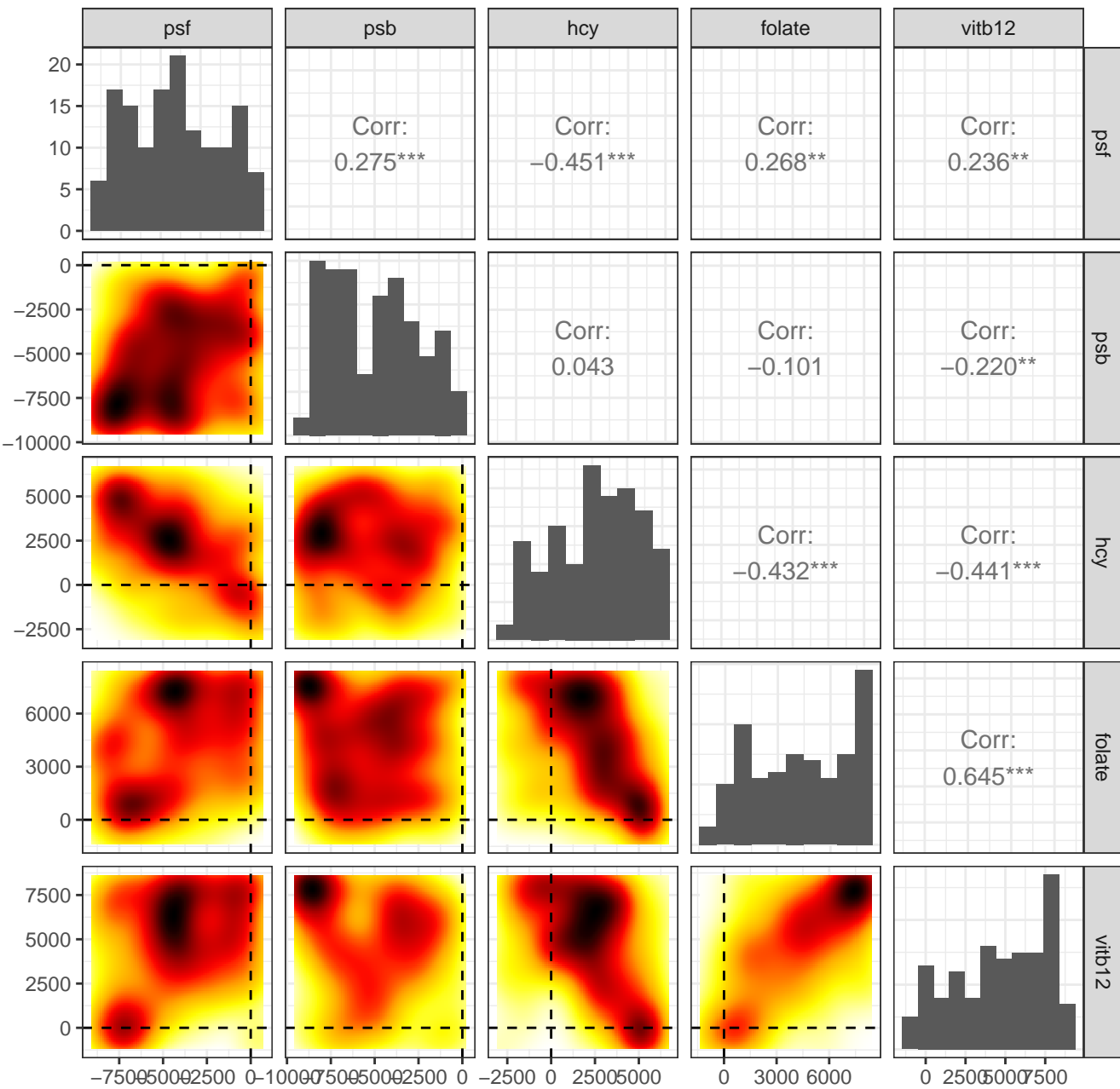
Mitotic Metaphase and Anaphase



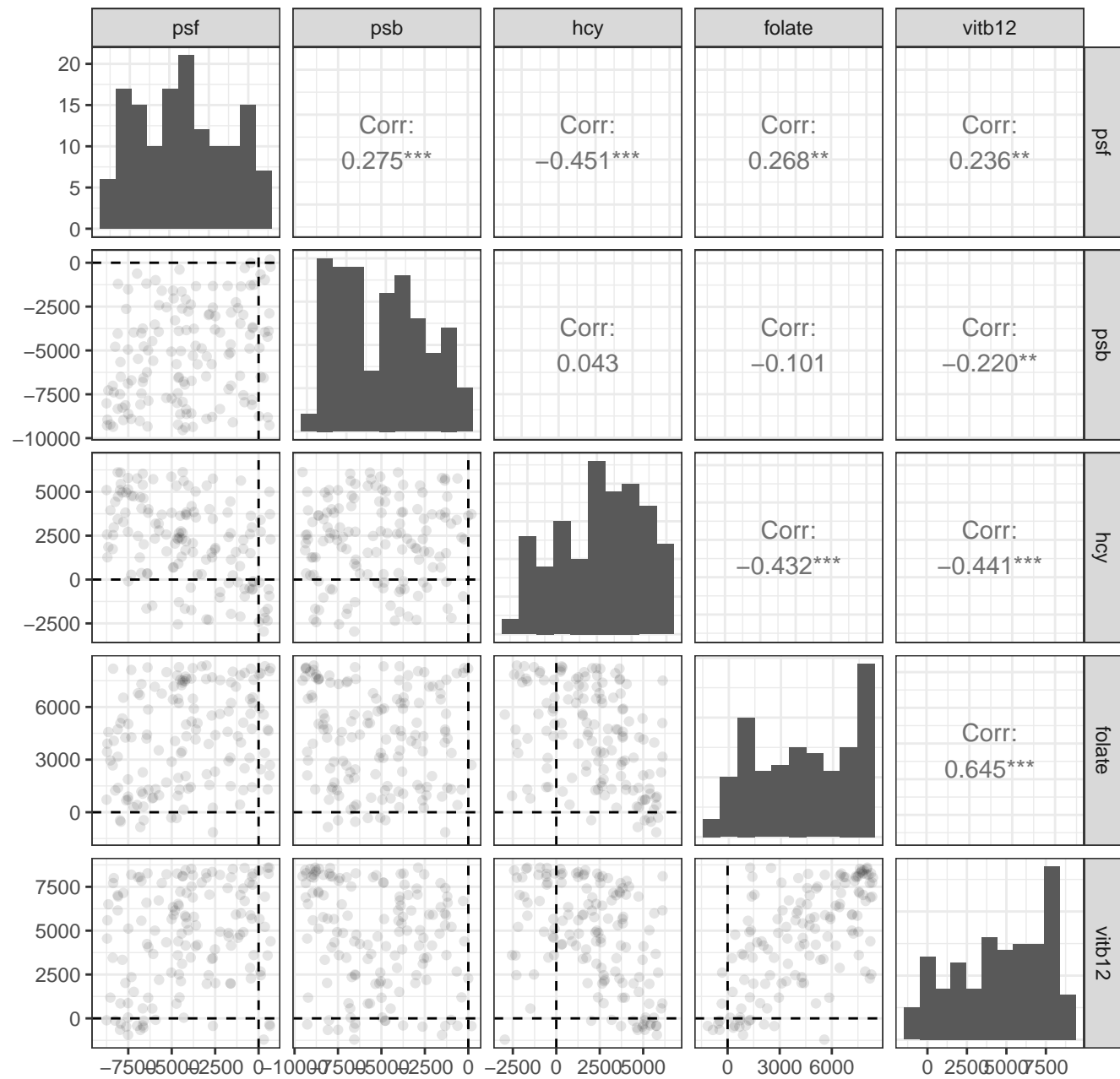
Mitotic Metaphase and Anaphase



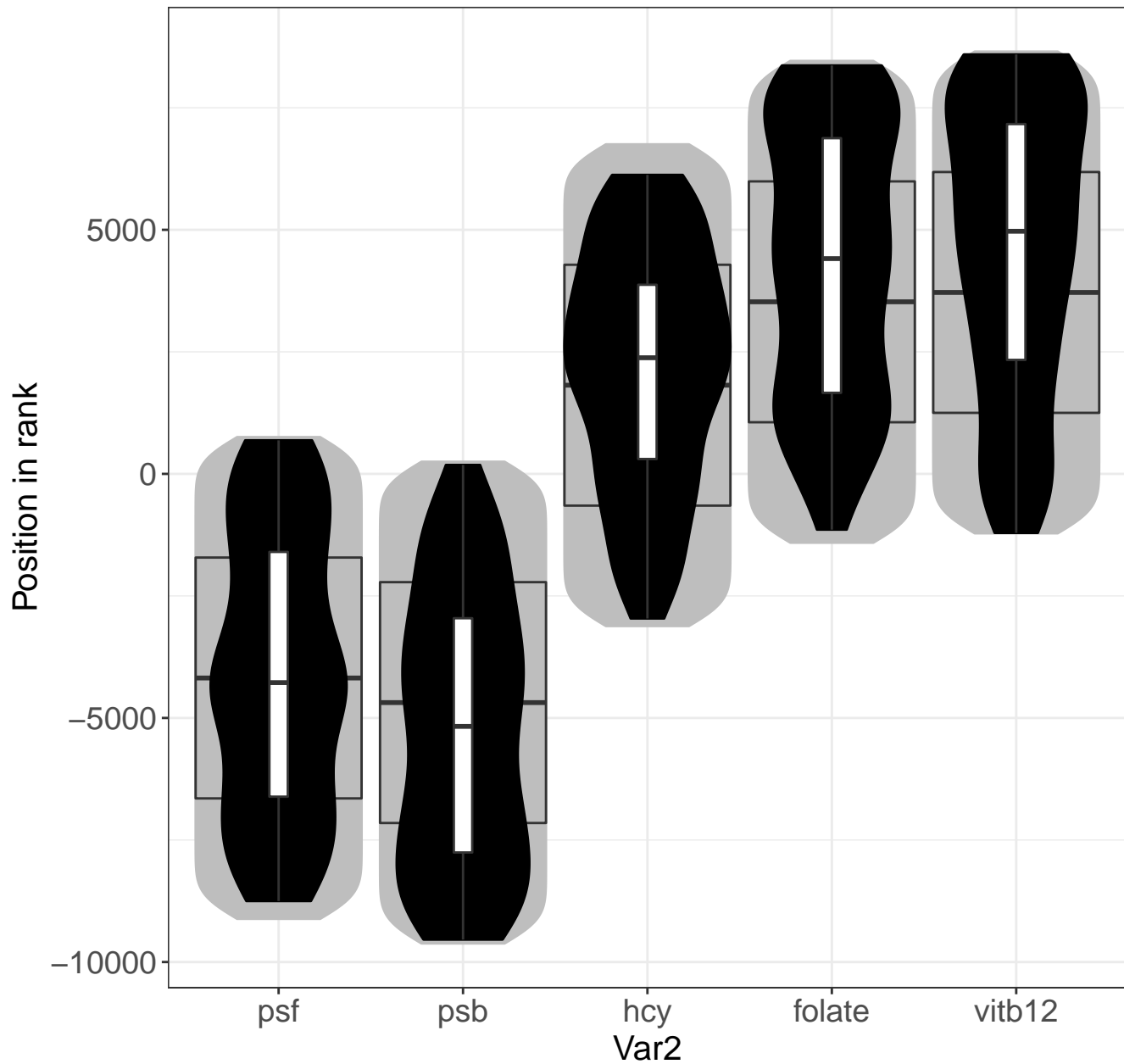
Major pathway of rRNA processing in the nucleolus and cytosol



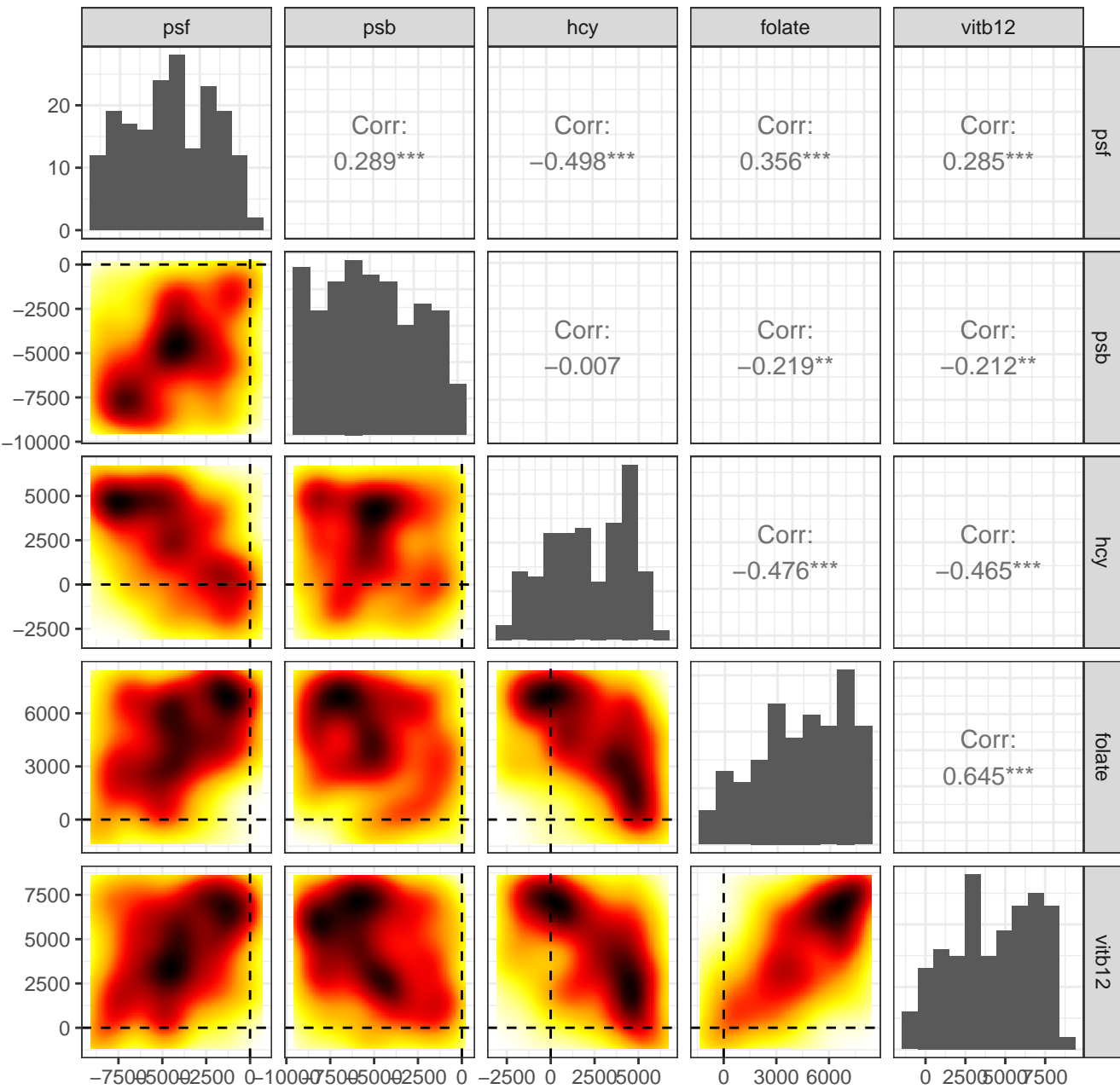
Major pathway of rRNA processing in the nucleolus and cytosol



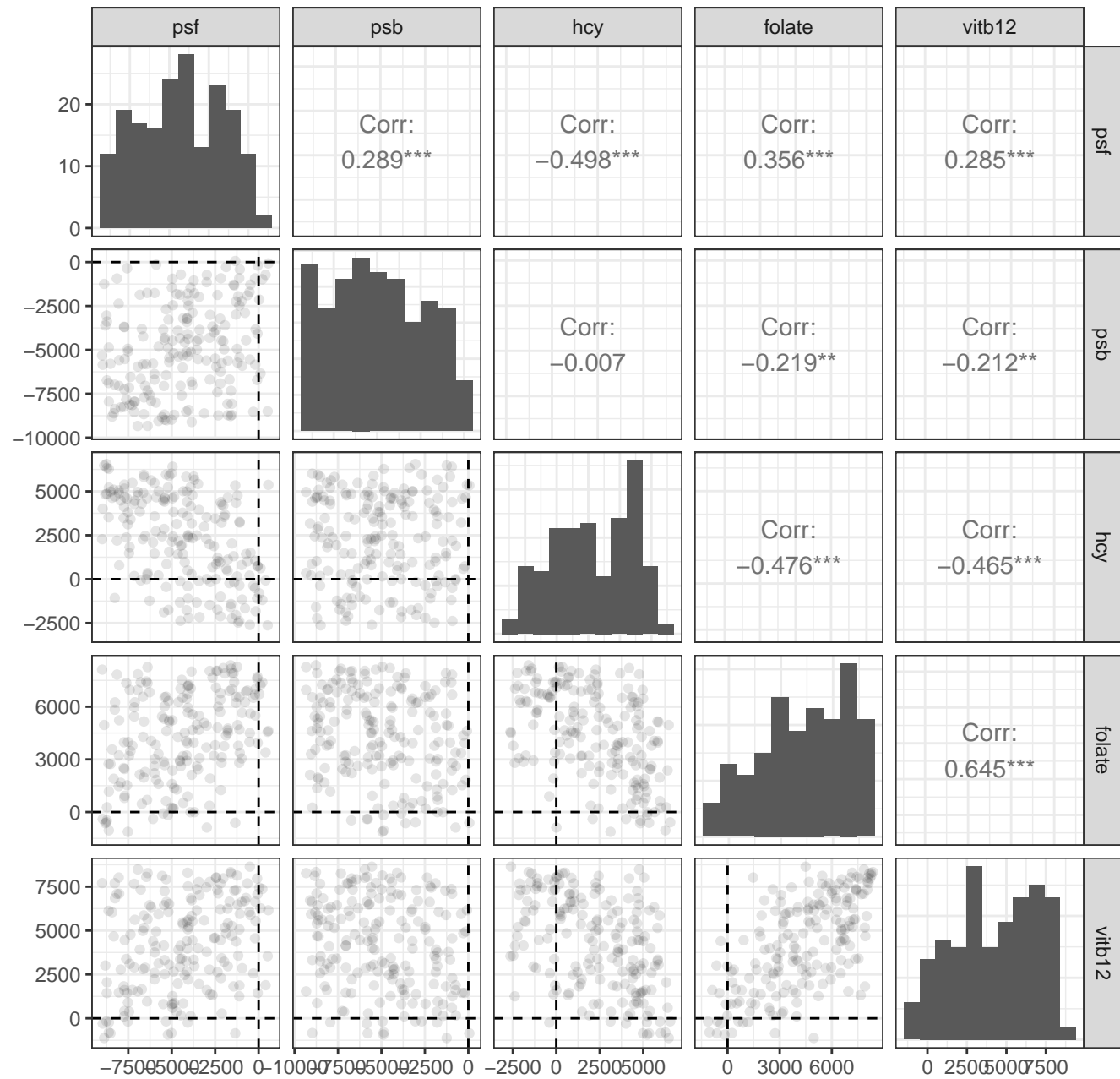
Major pathway of rRNA processing in the nucleolus



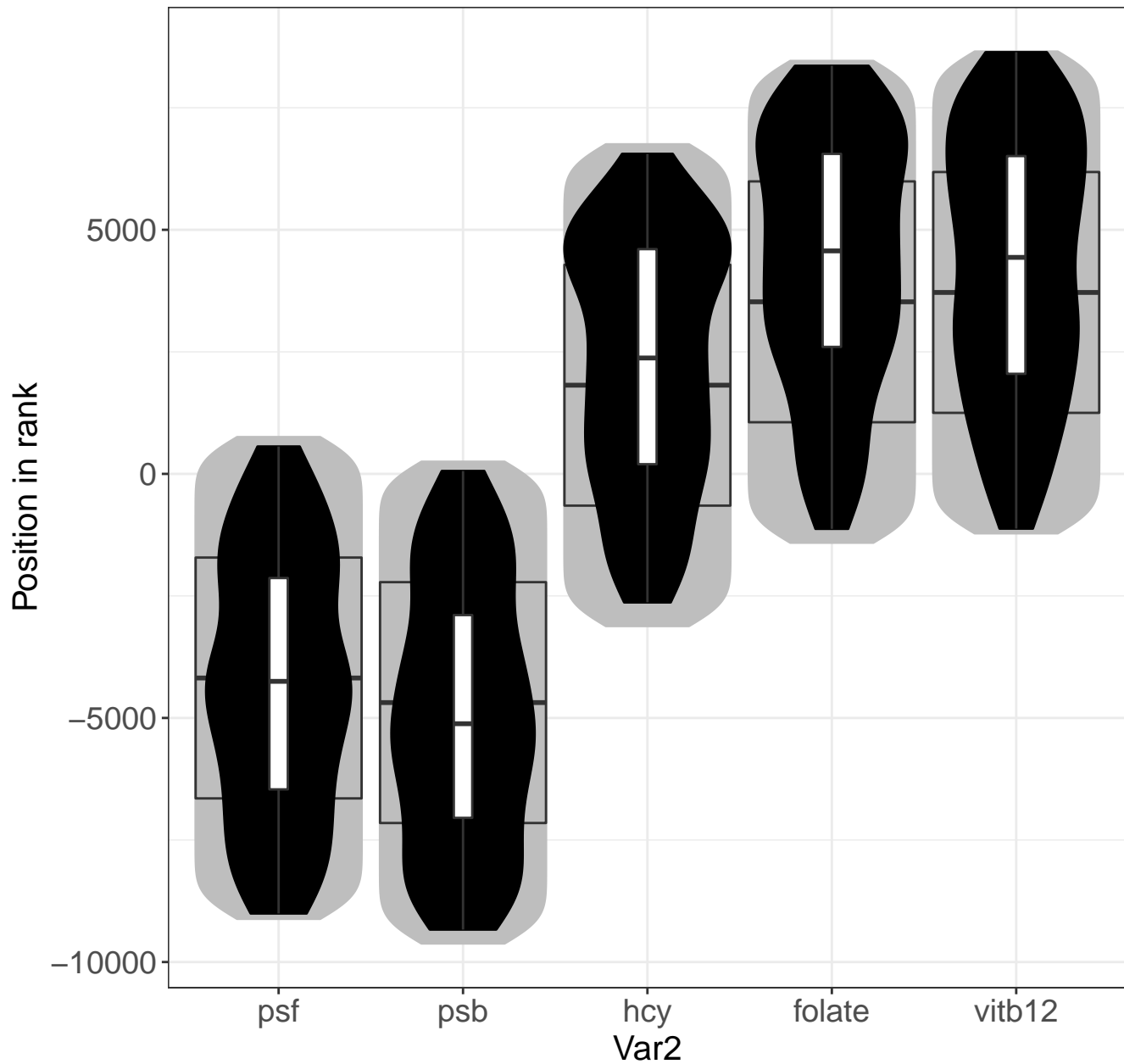
Mitotic Anaphase



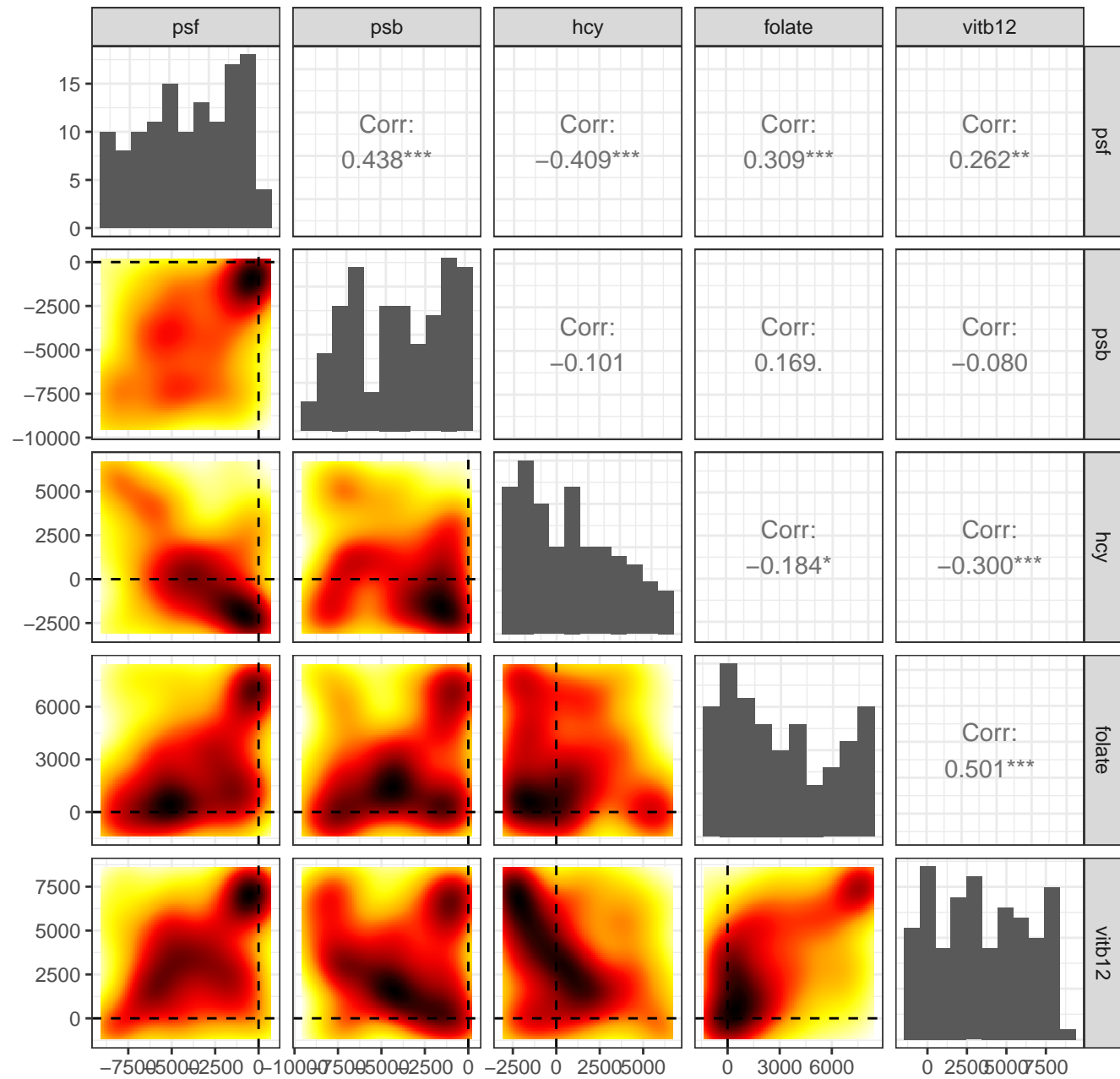
Mitotic Anaphase



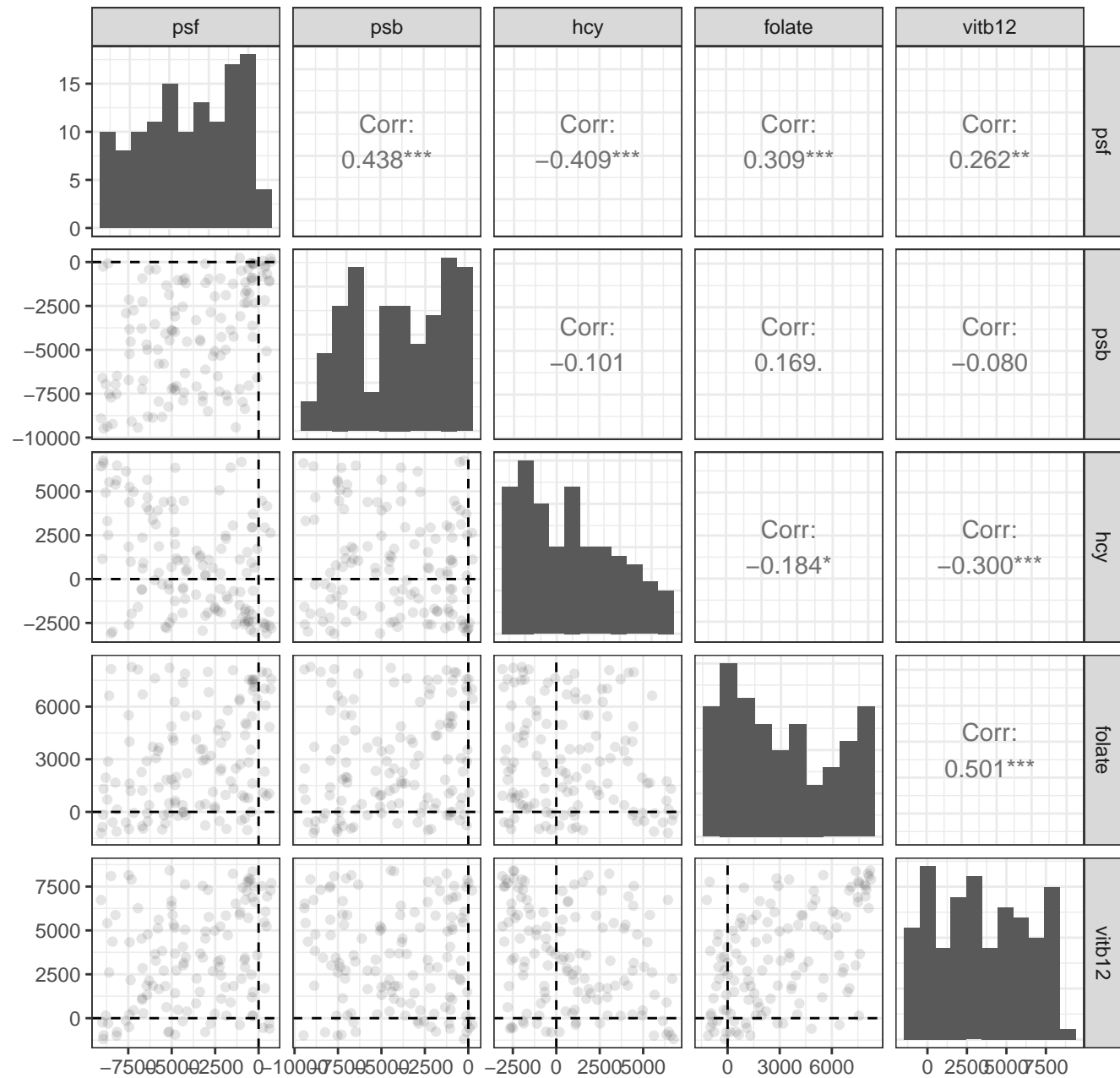
Mitotic Anaphase



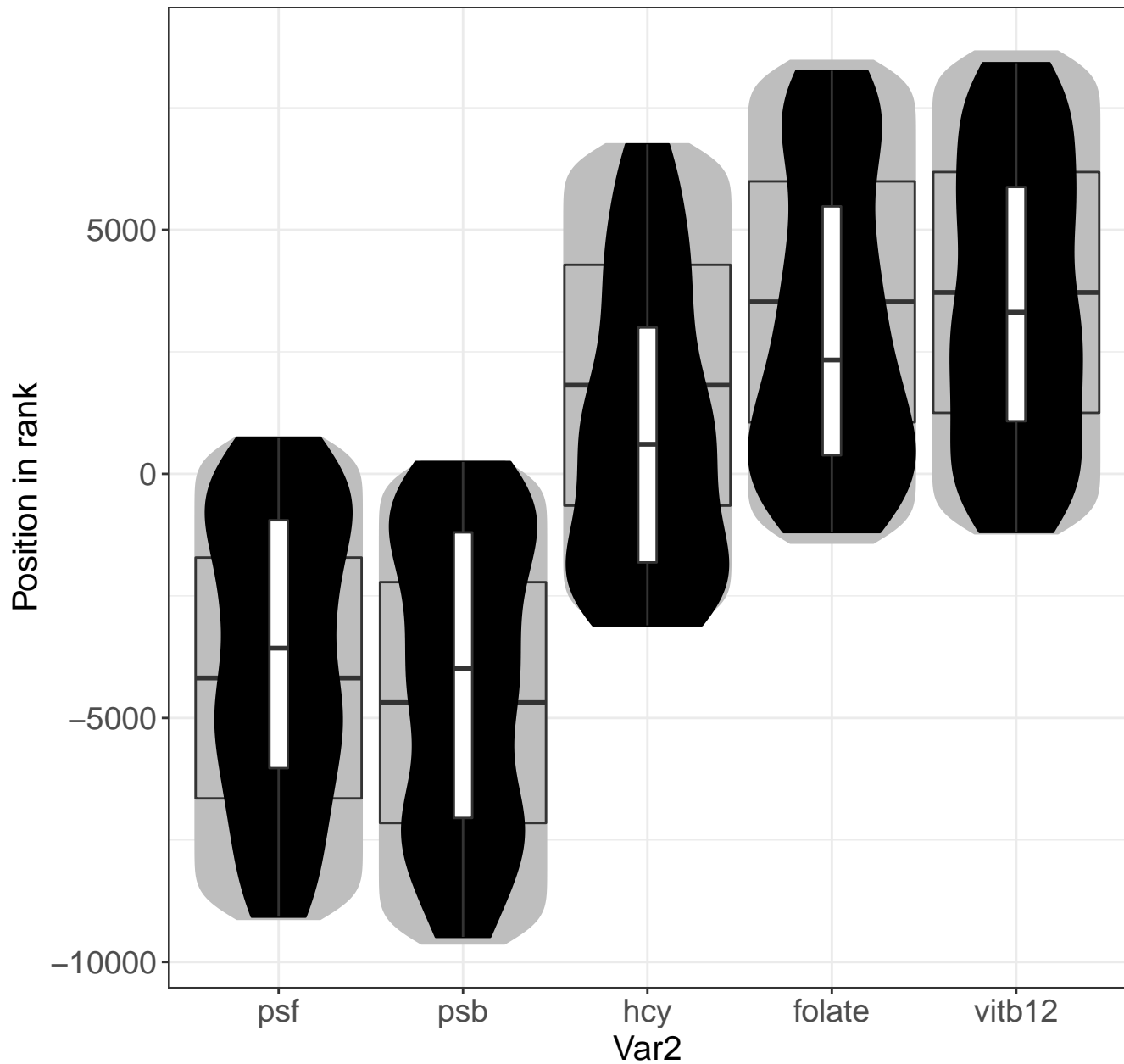
Neuronal System



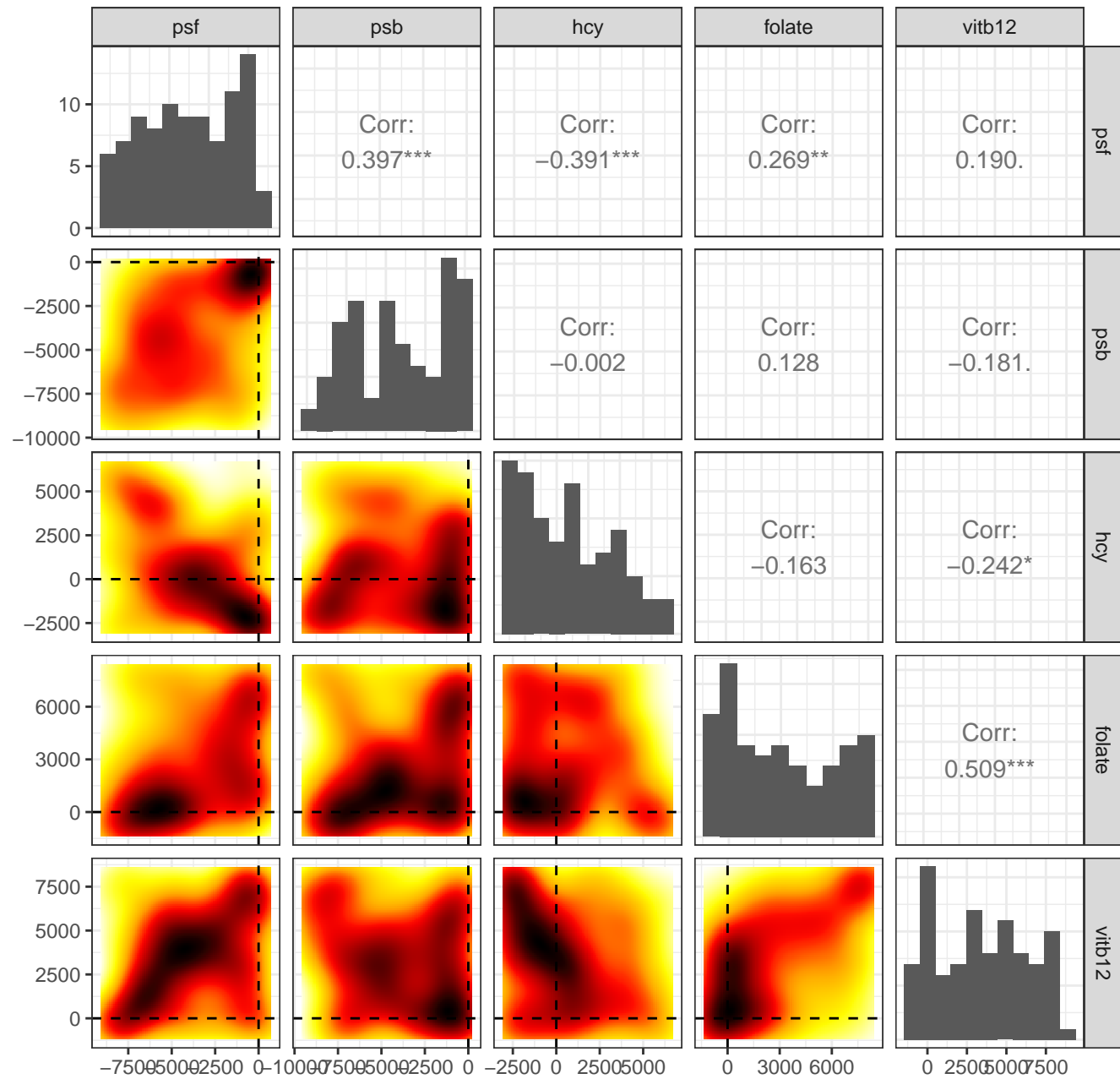
Neuronal System



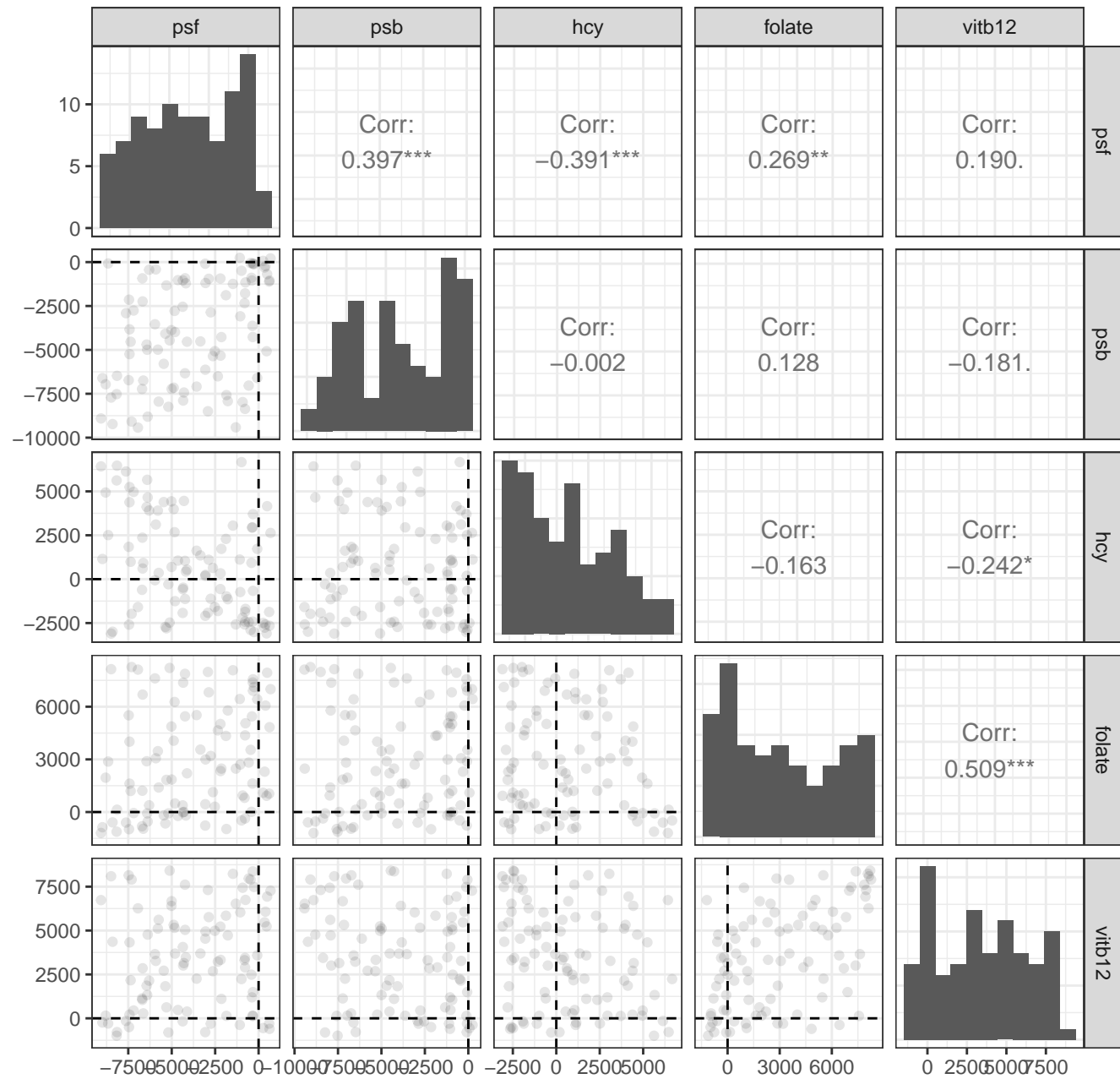
Neuronal System



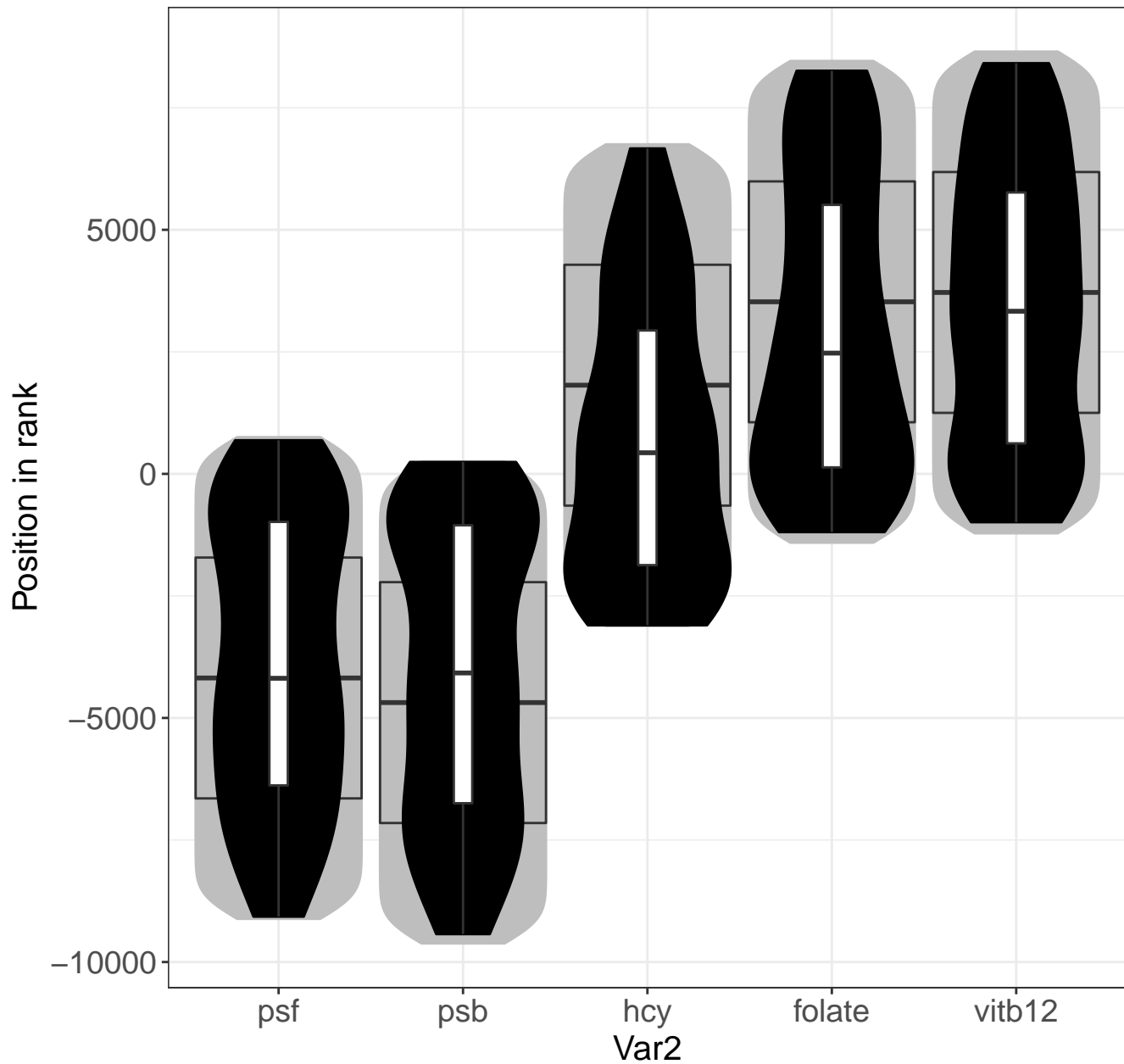
Transmission across Chemical Synapses



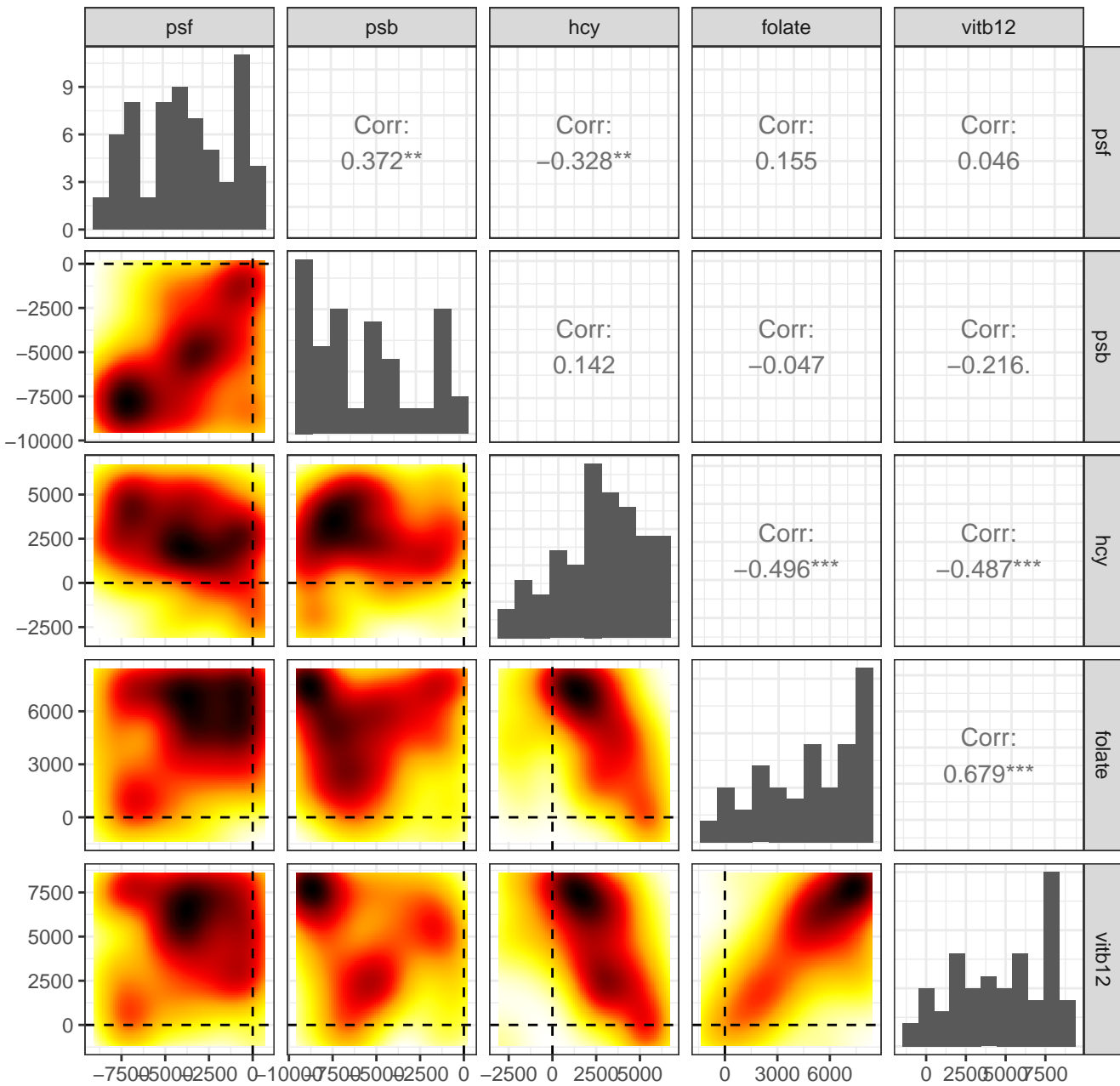
Transmission across Chemical Synapses



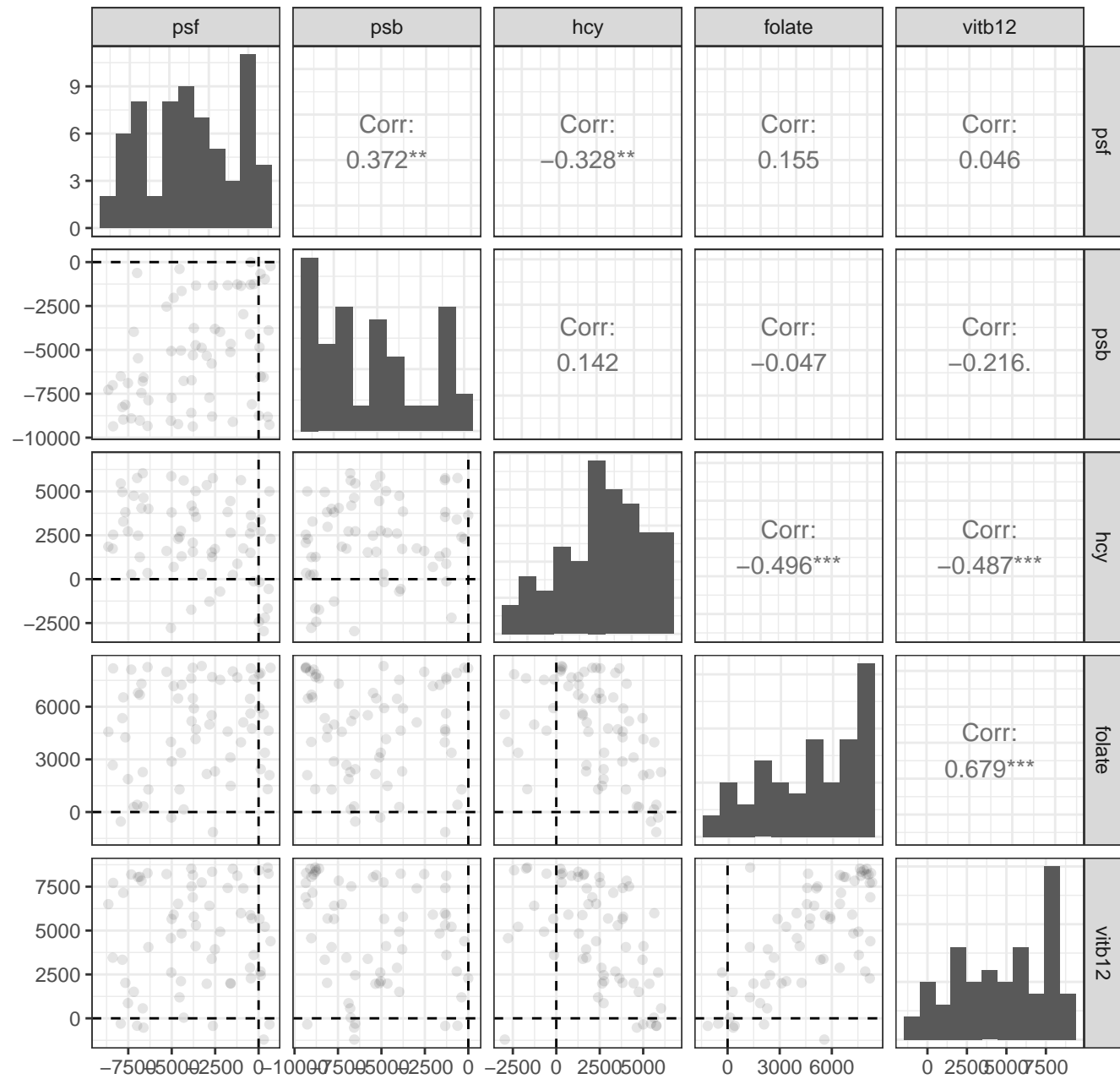
Transmission across Chemical Synapses



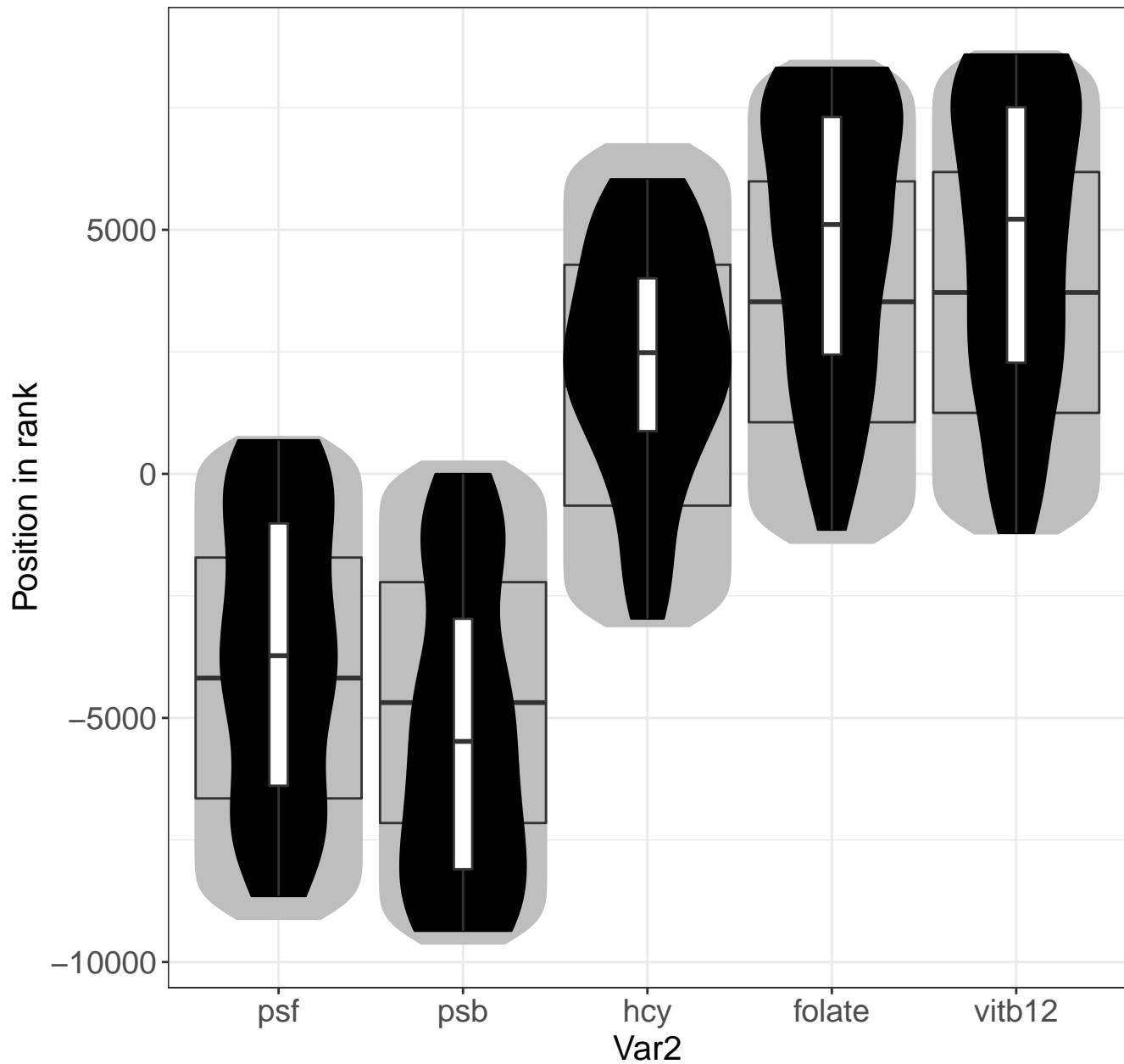
Selenocysteine synthesis



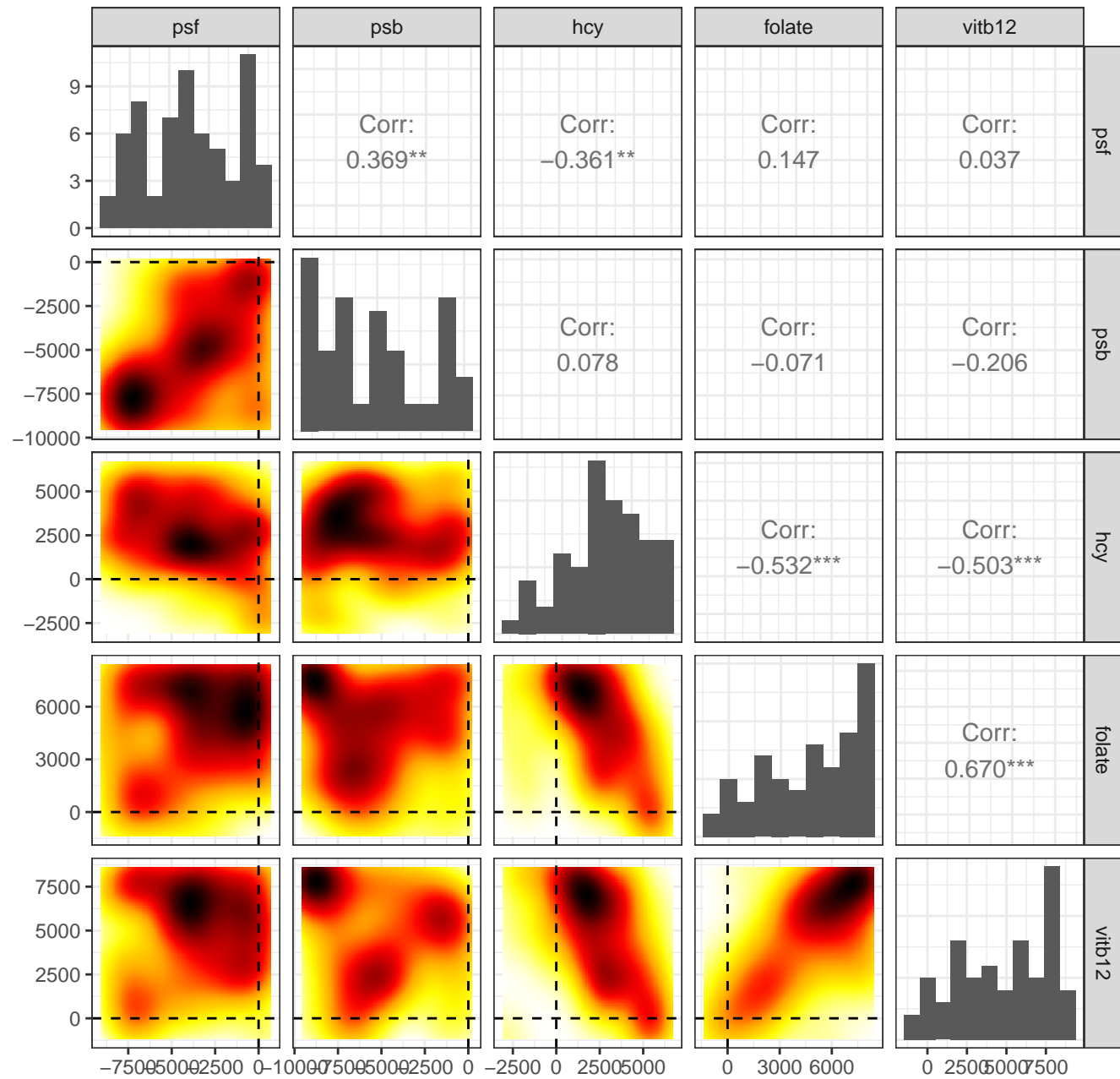
Selenocysteine synthesis



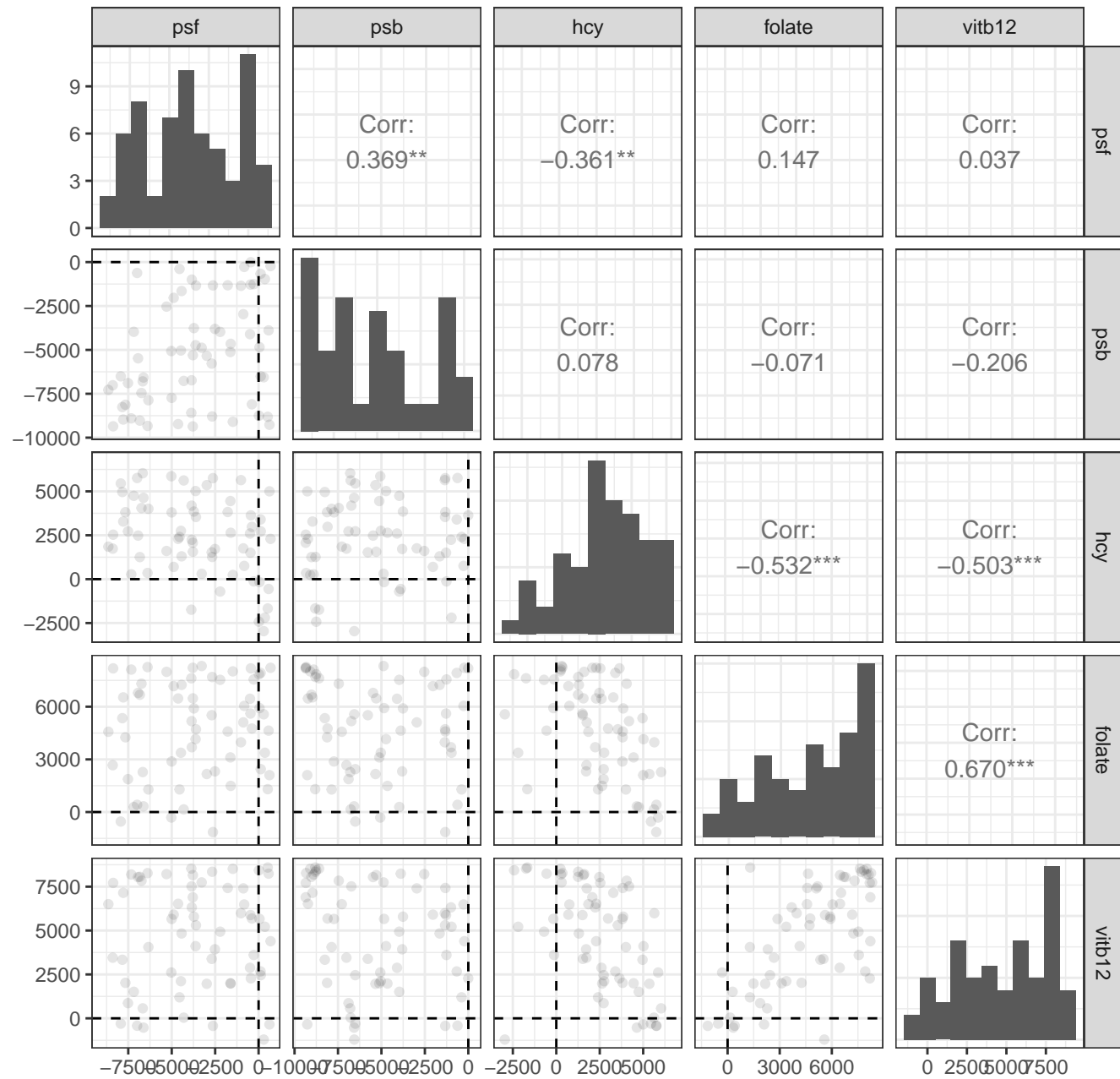
Selenocysteine synthesis



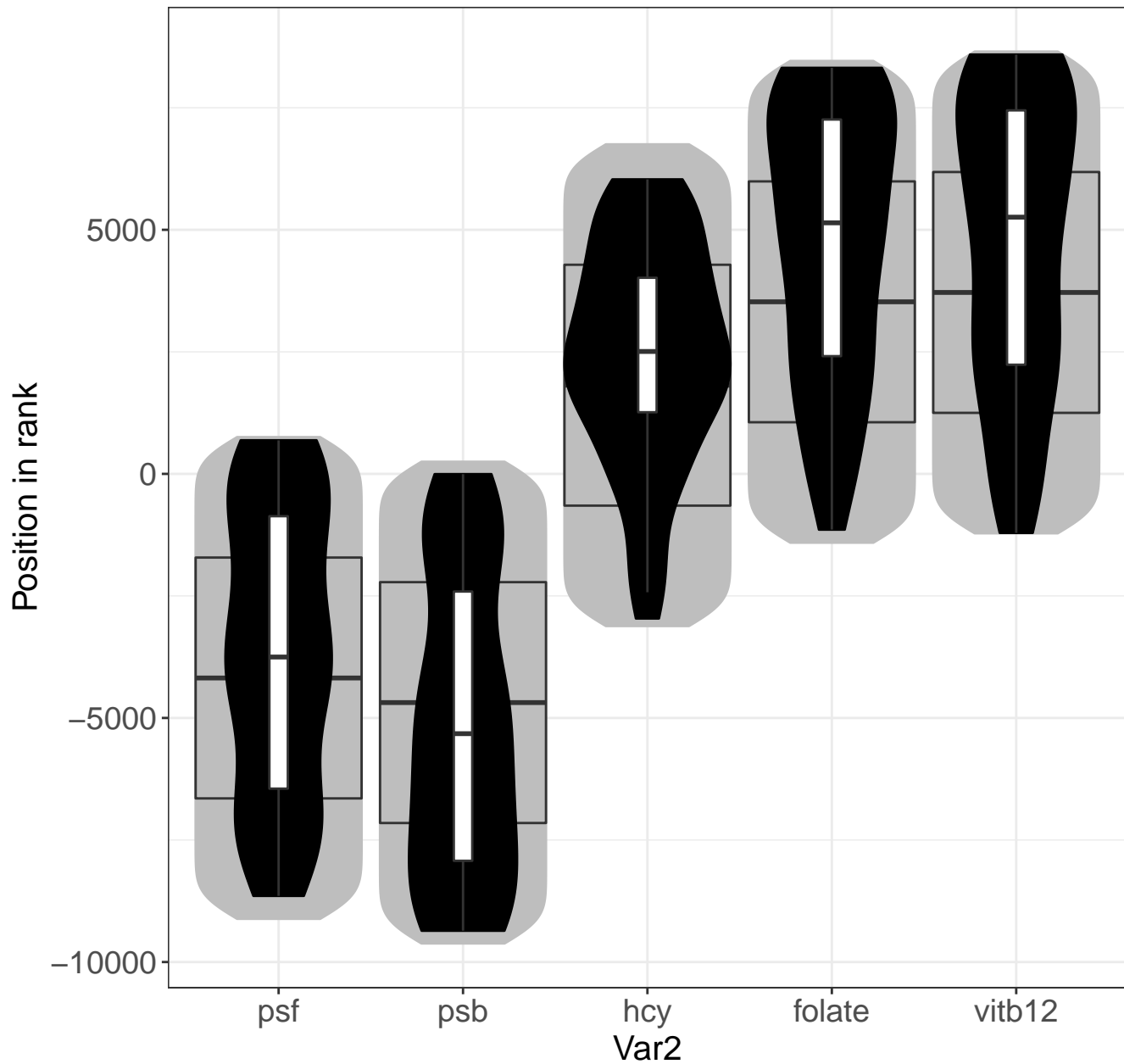
Peptide chain elongation



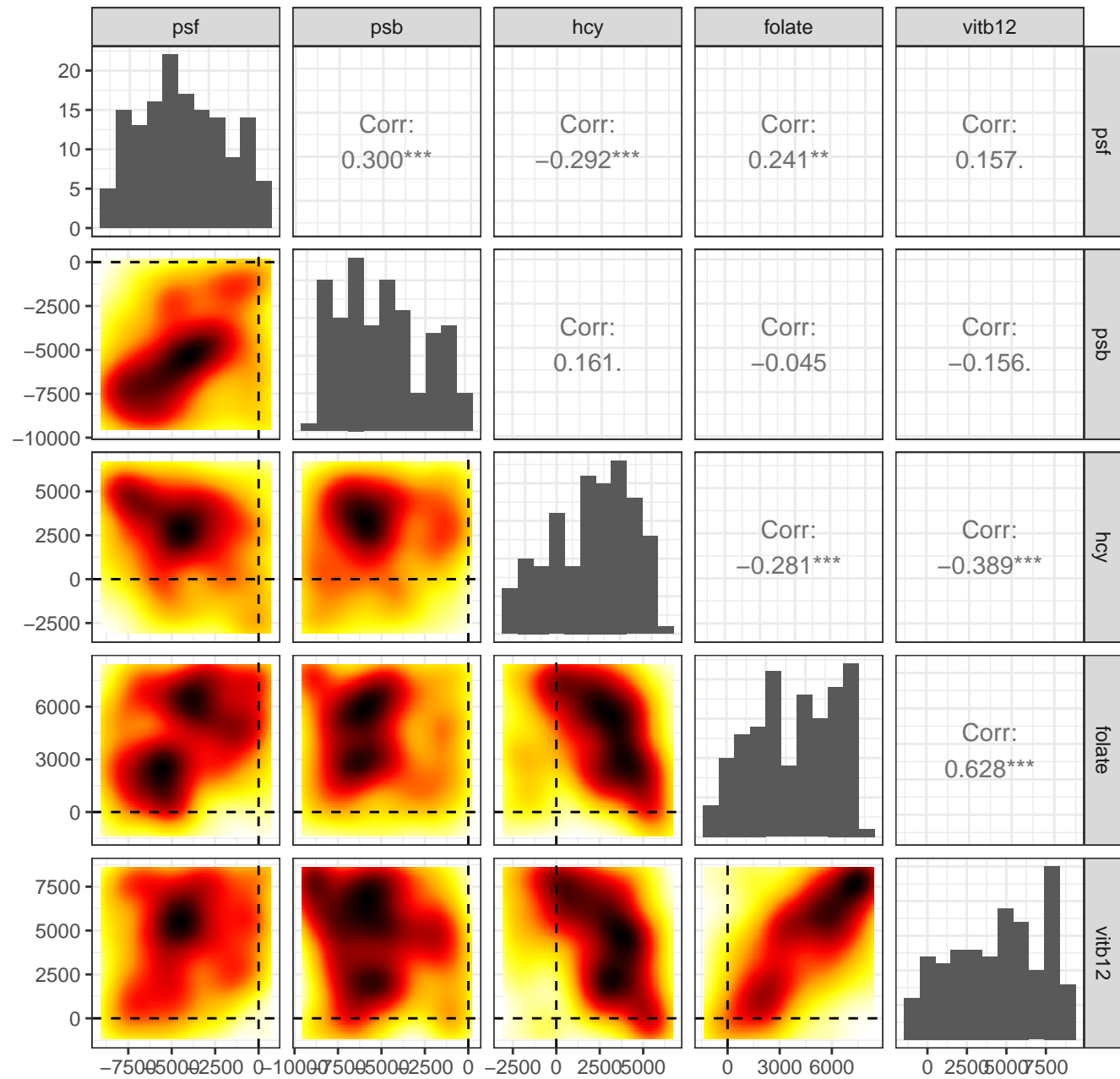
Peptide chain elongation



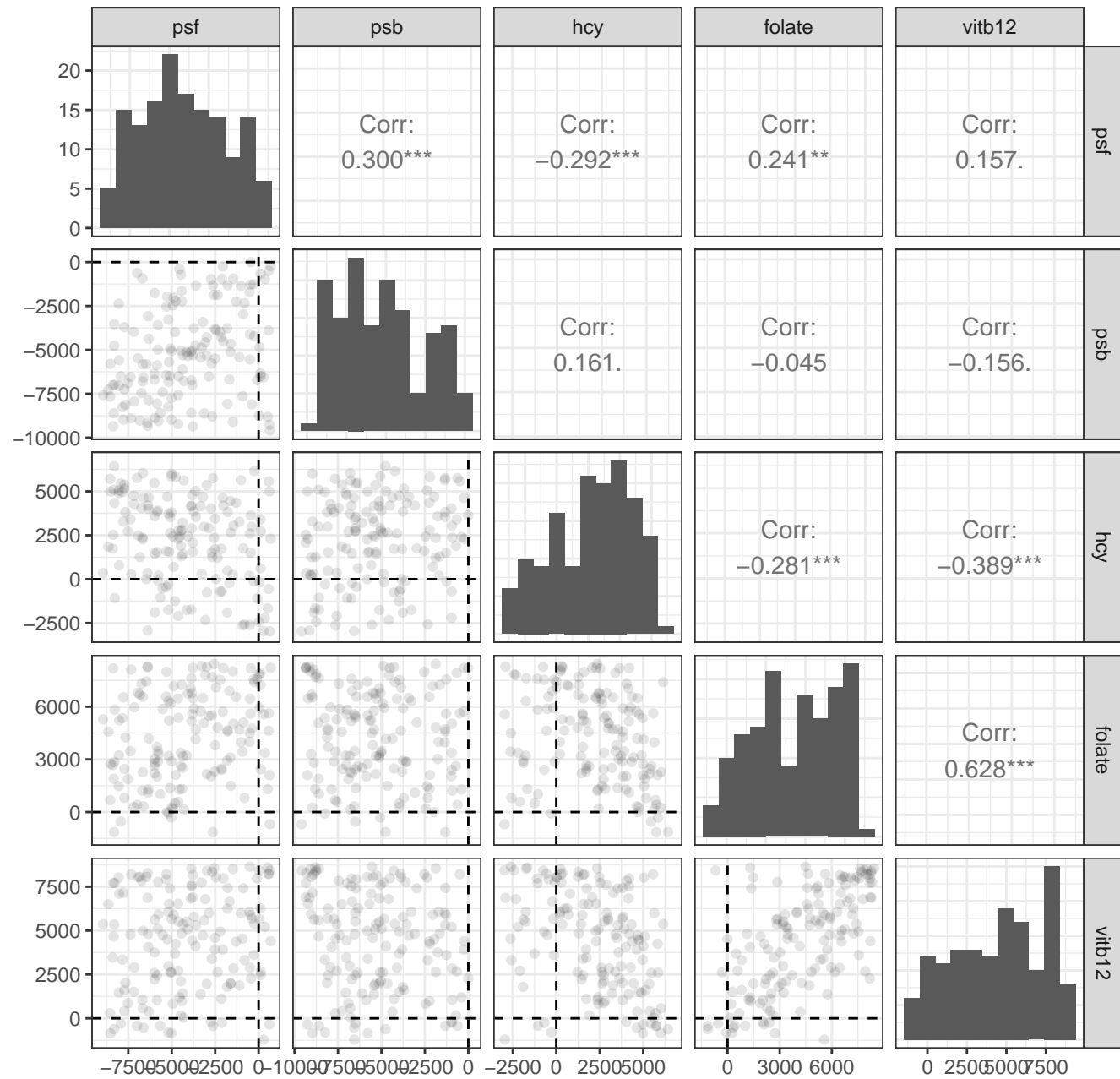
Peptide chain elongation



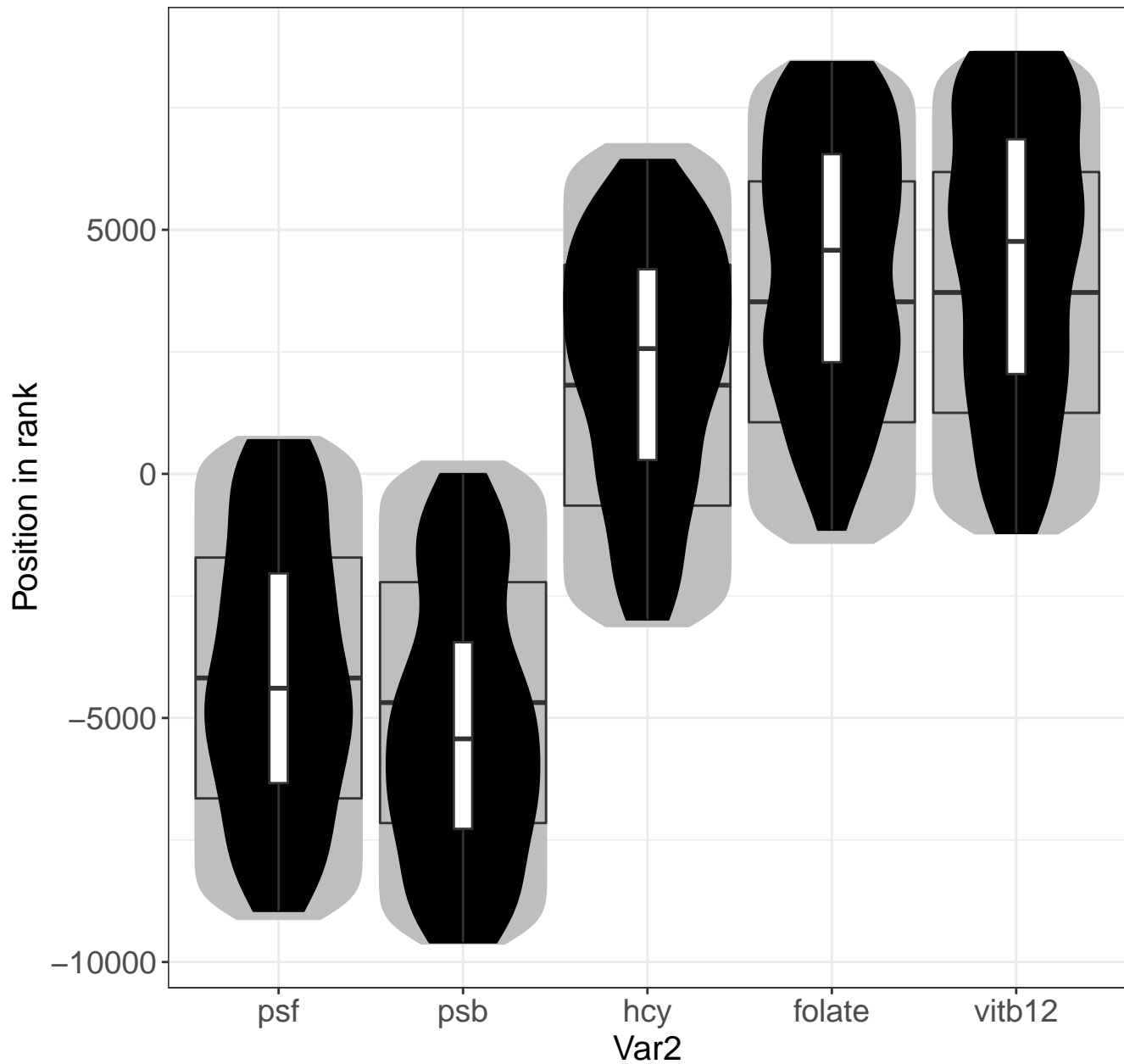
Signaling by ROBO receptors



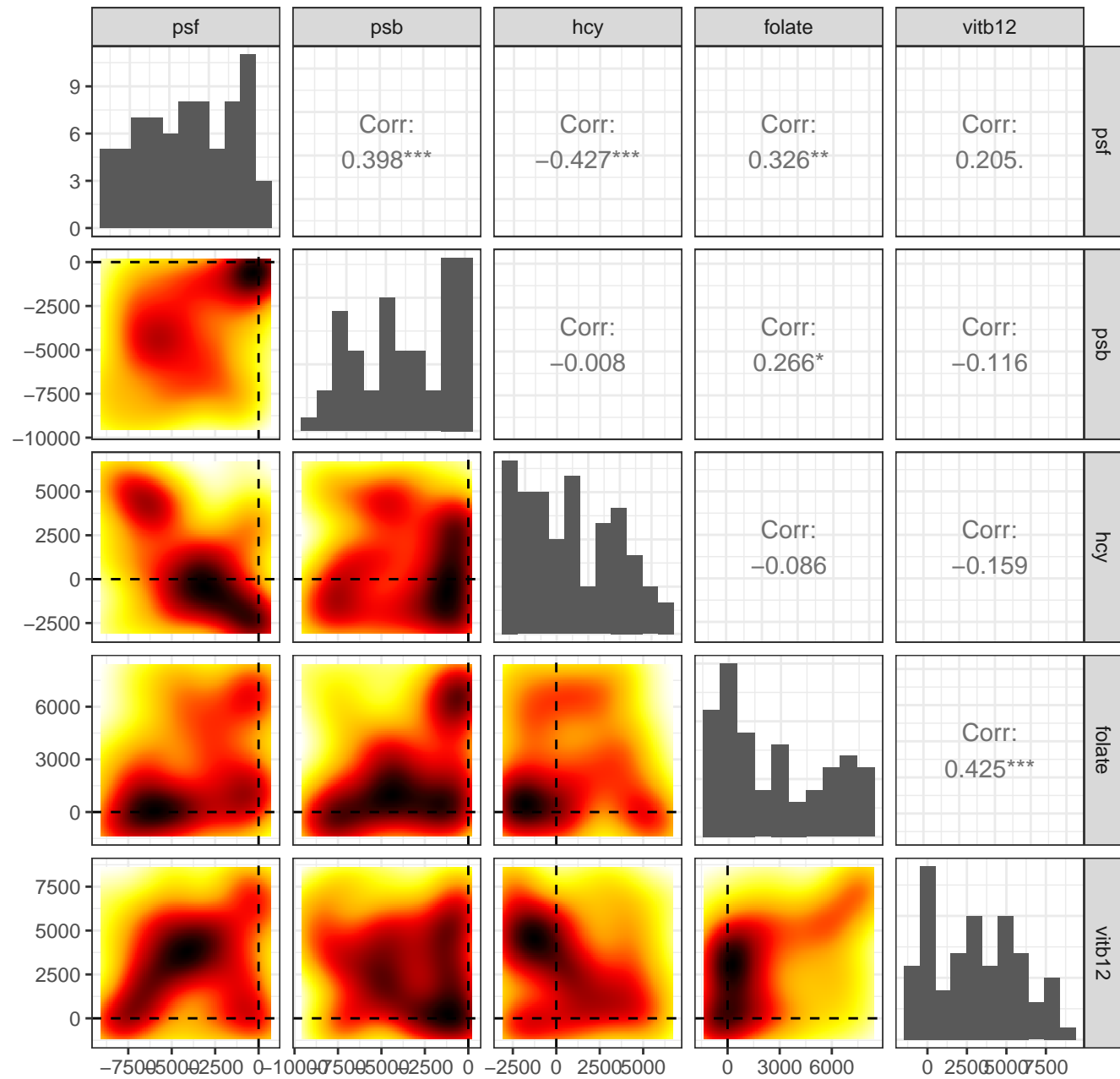
Signaling by ROBO receptors



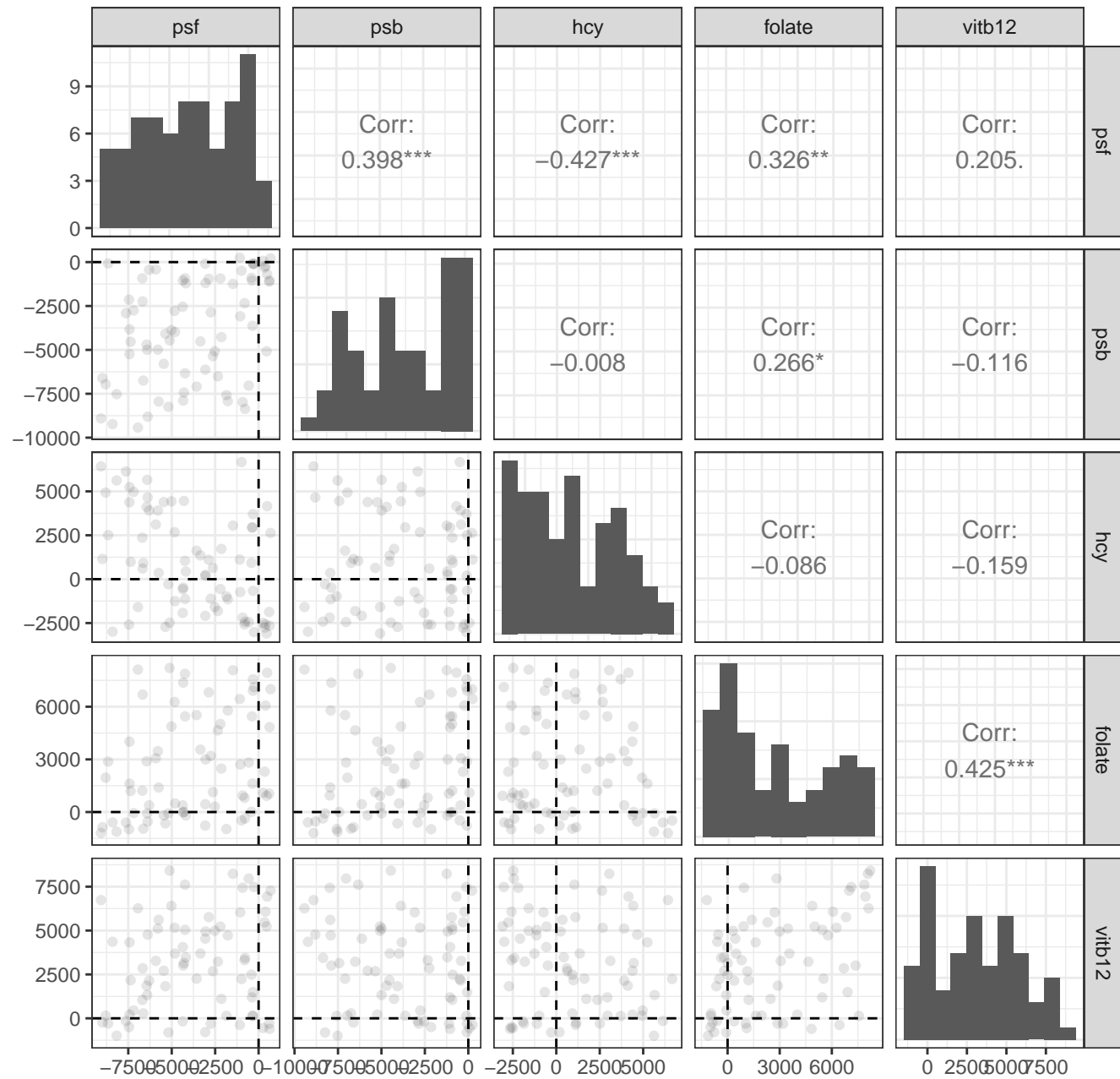
Signaling by ROBO receptors



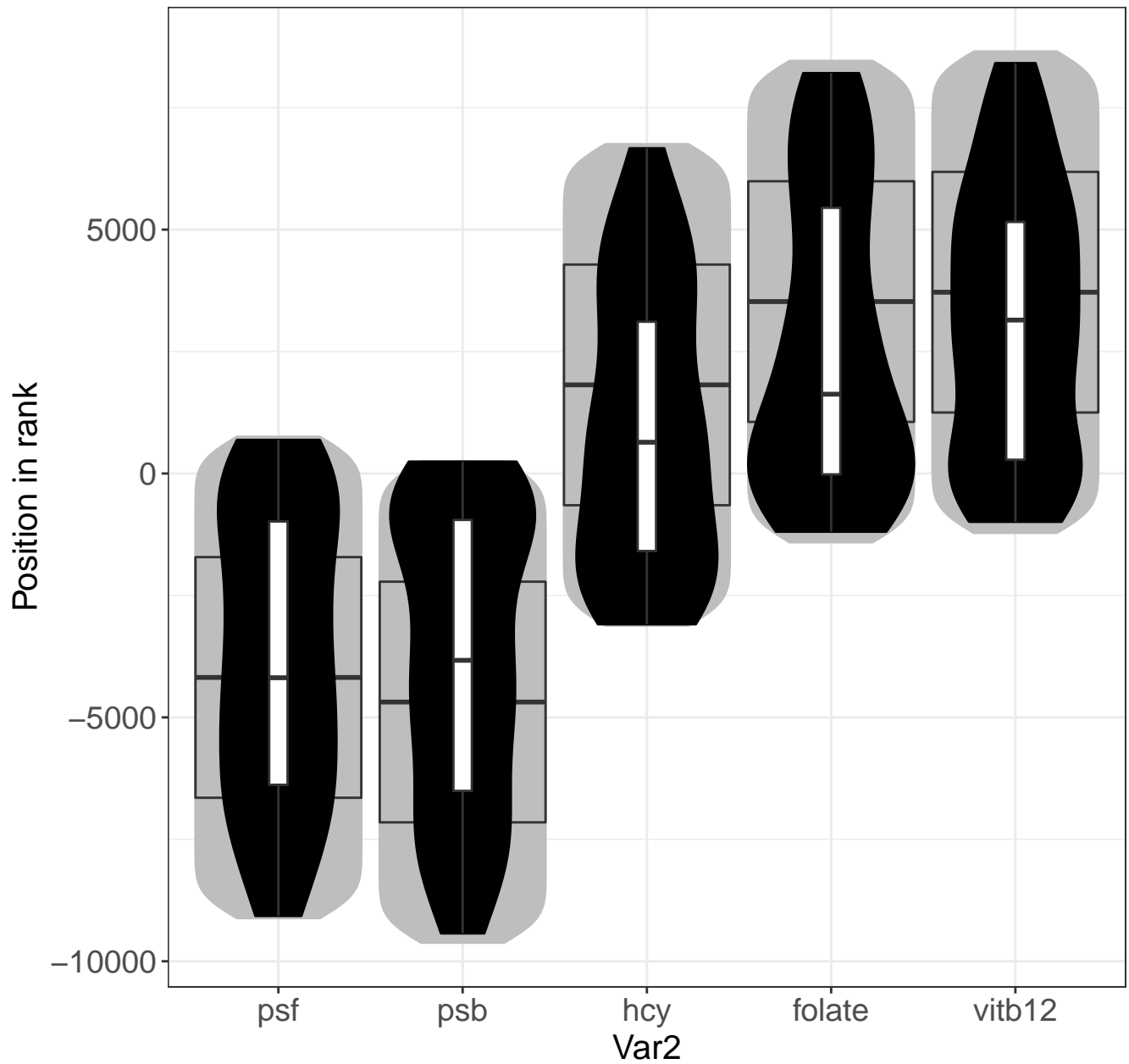
Neurotransmitter receptors and postsynaptic signal transmission



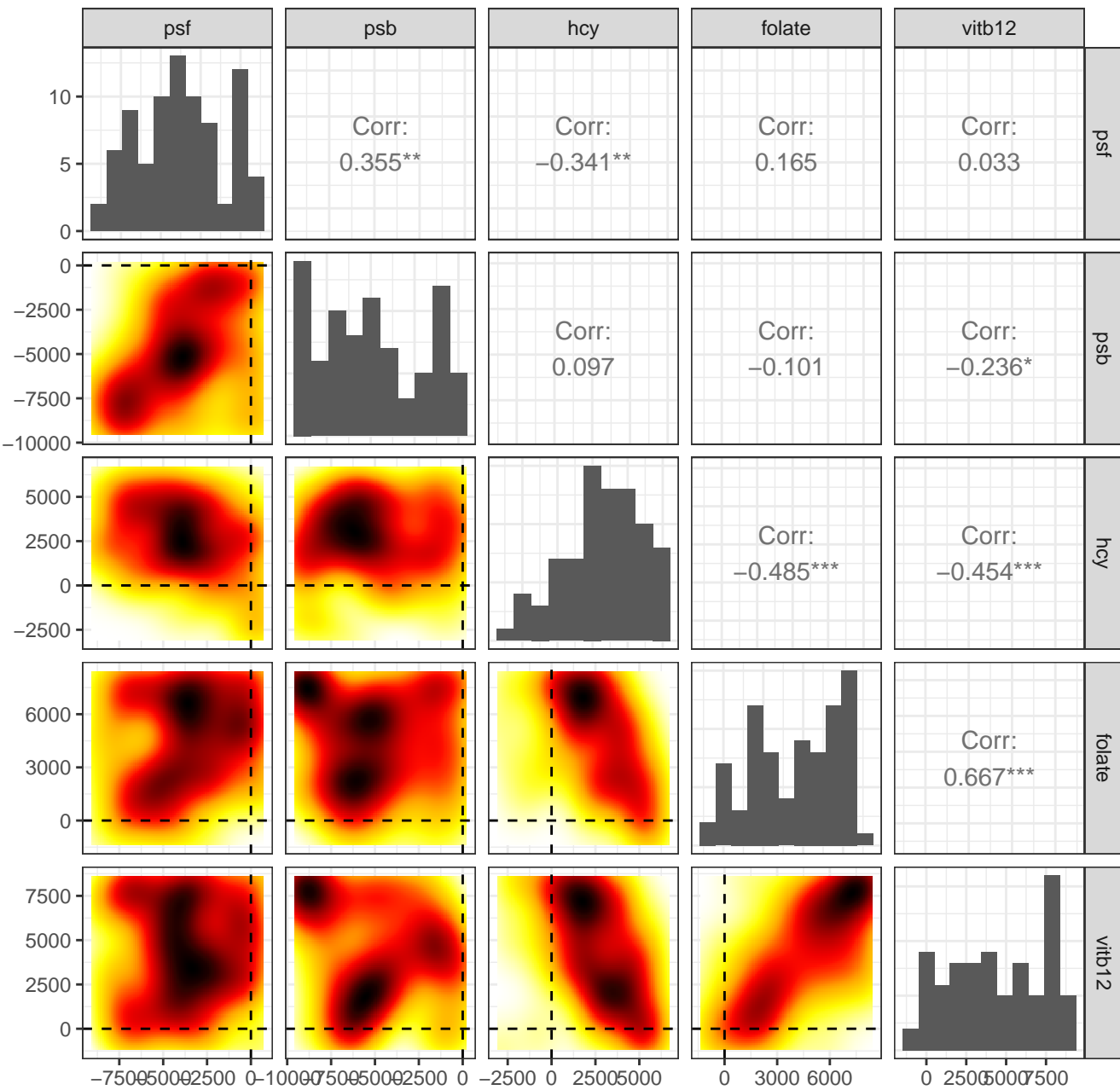
Neurotransmitter receptors and postsynaptic signal transmission



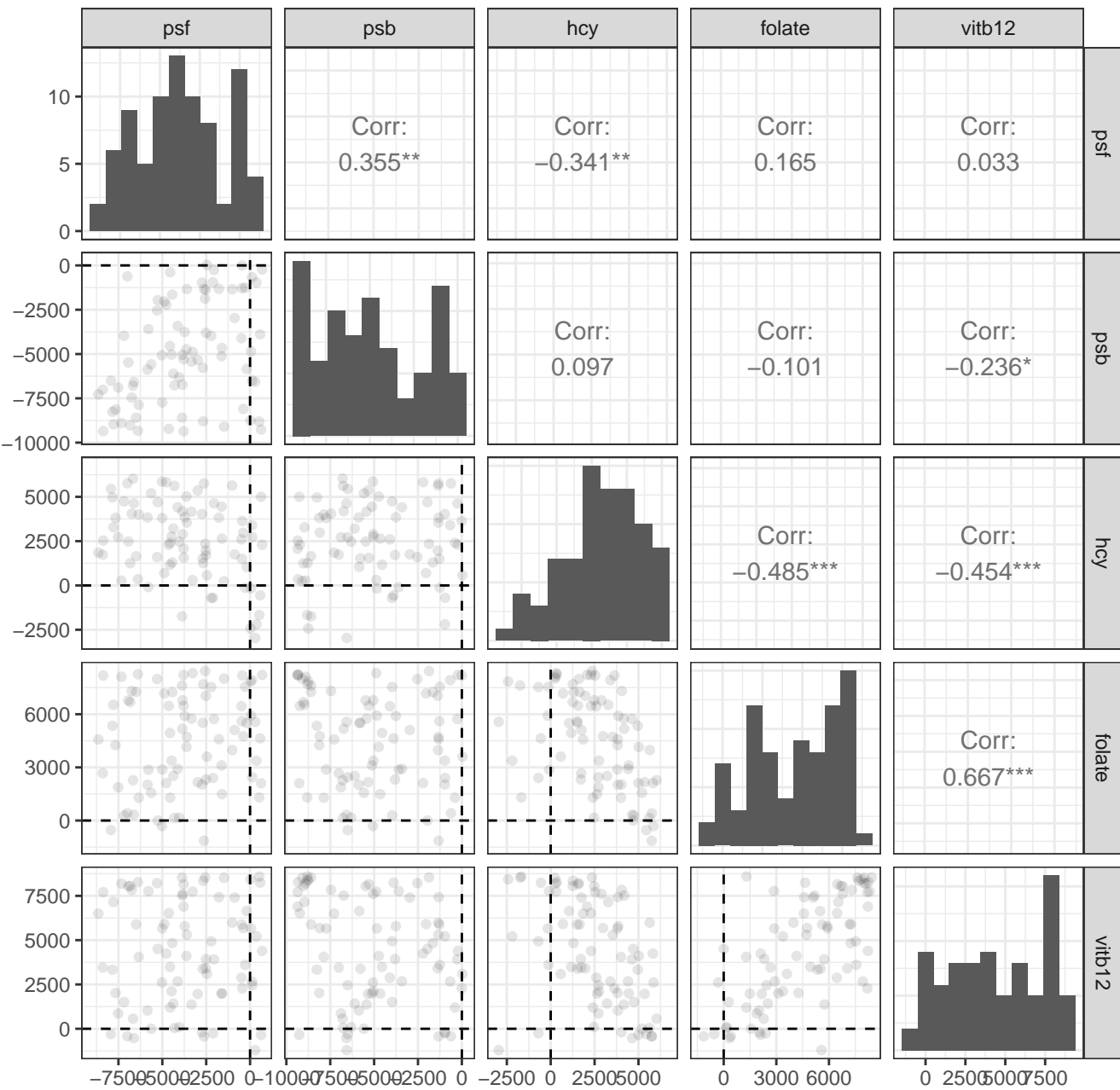
Neurotransmitter receptors and postsynaptic signaling



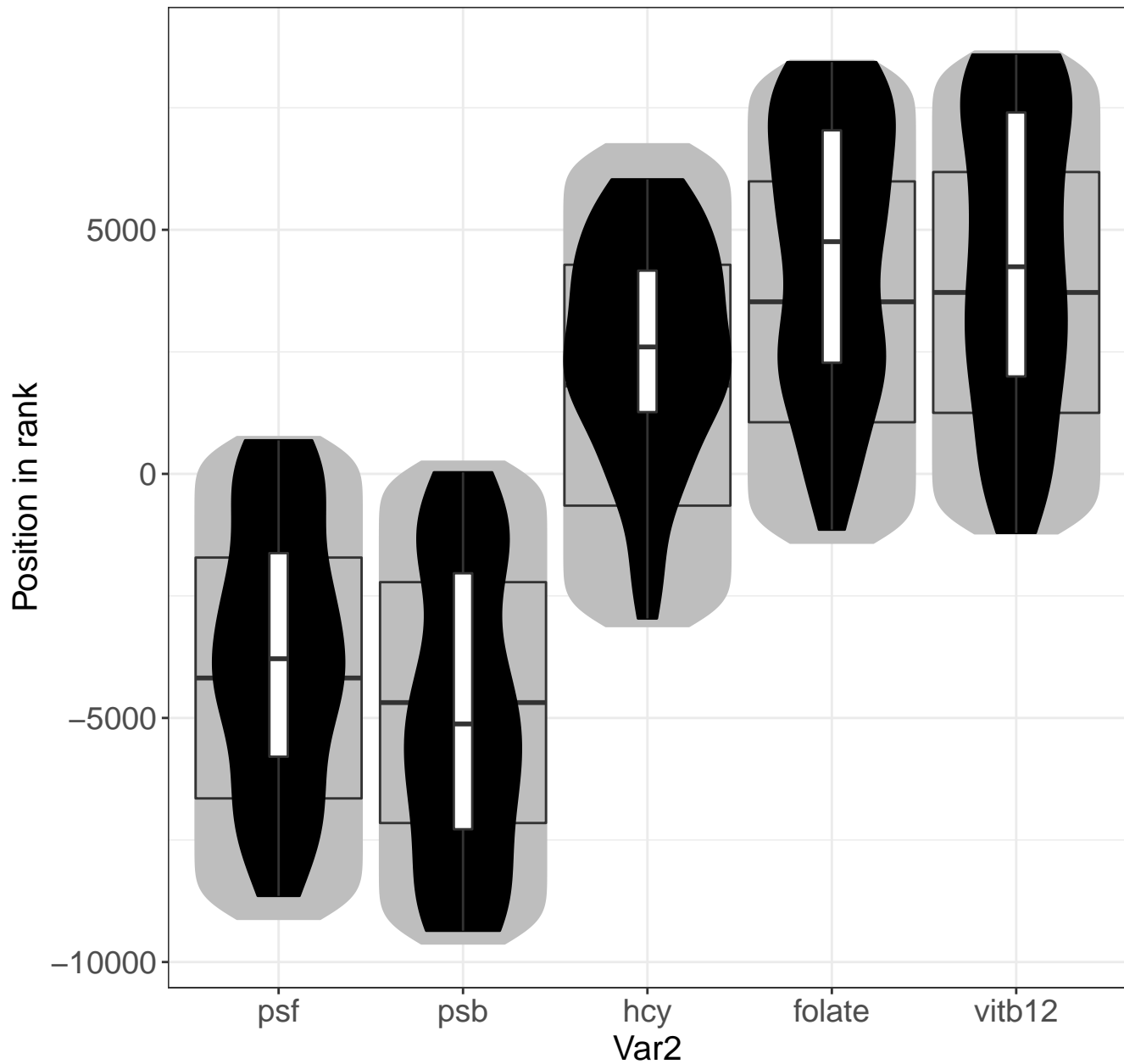
Nonsense Mediated Decay (NMD) enhanced by the Exon Junction Complex (EJC)



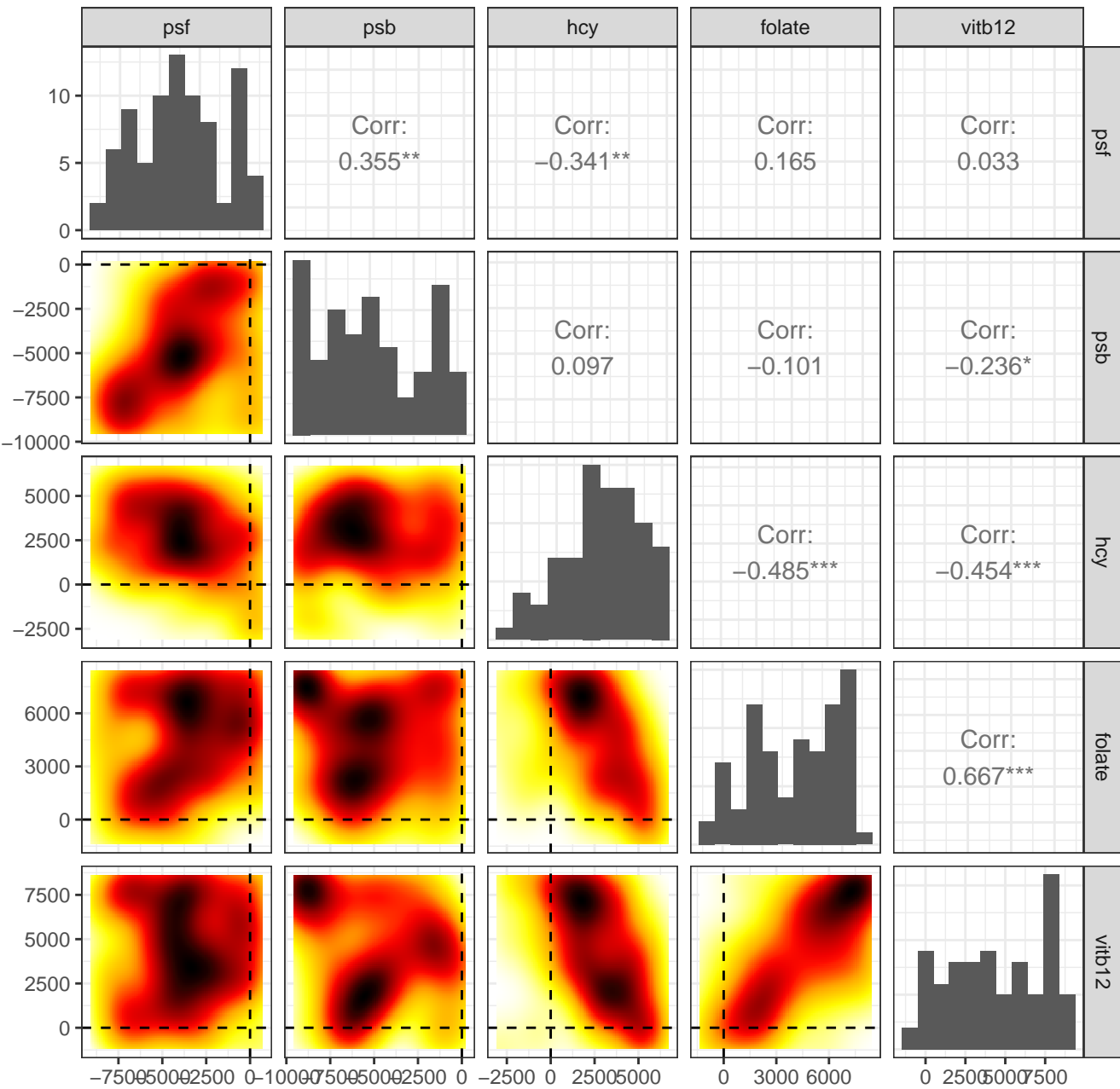
Nonsense Mediated Decay (NMD) enhanced by the Exon Junction Complex (EJC)



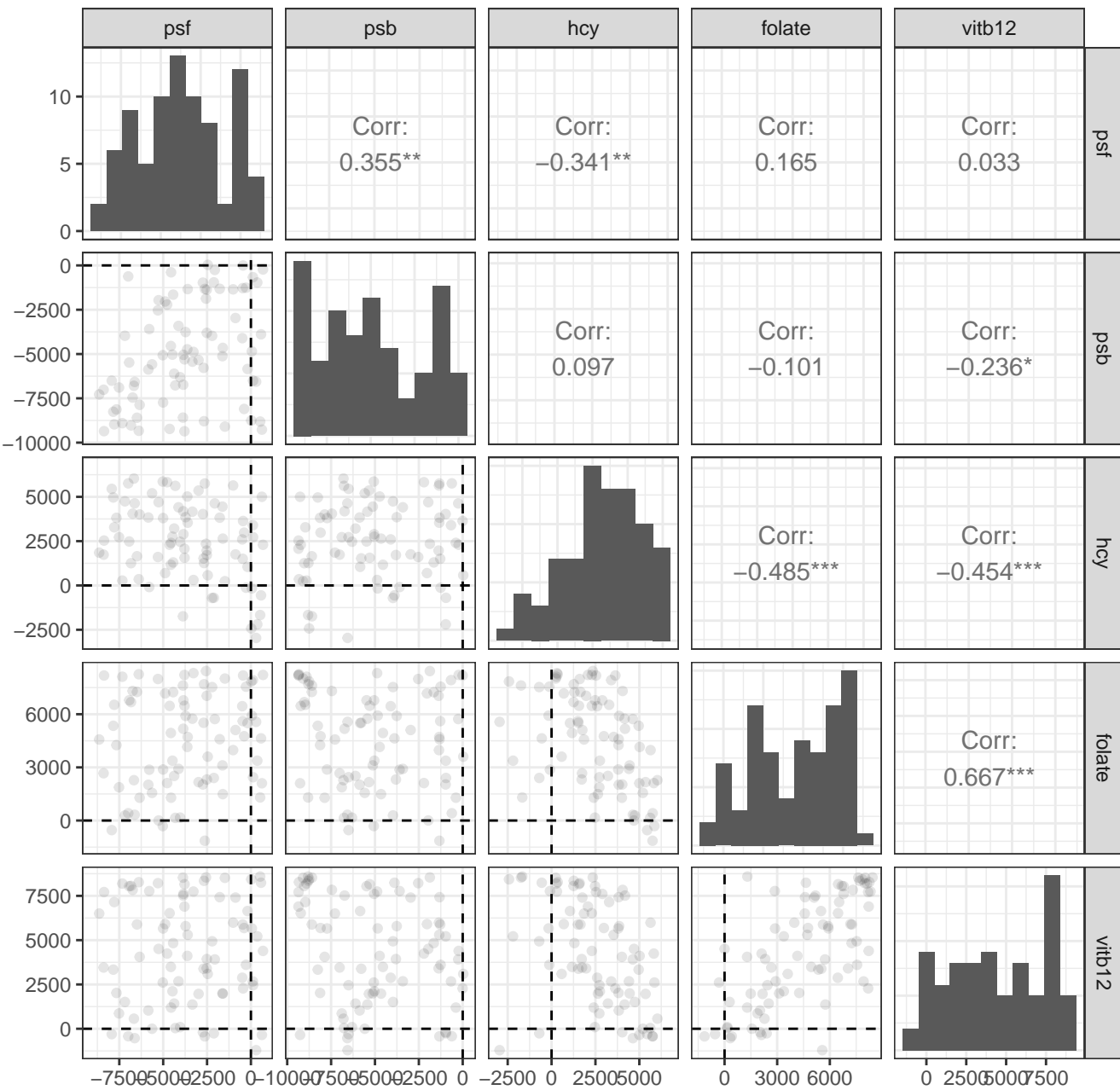
Nonsense Mediated Decay (NMD) enhanced by



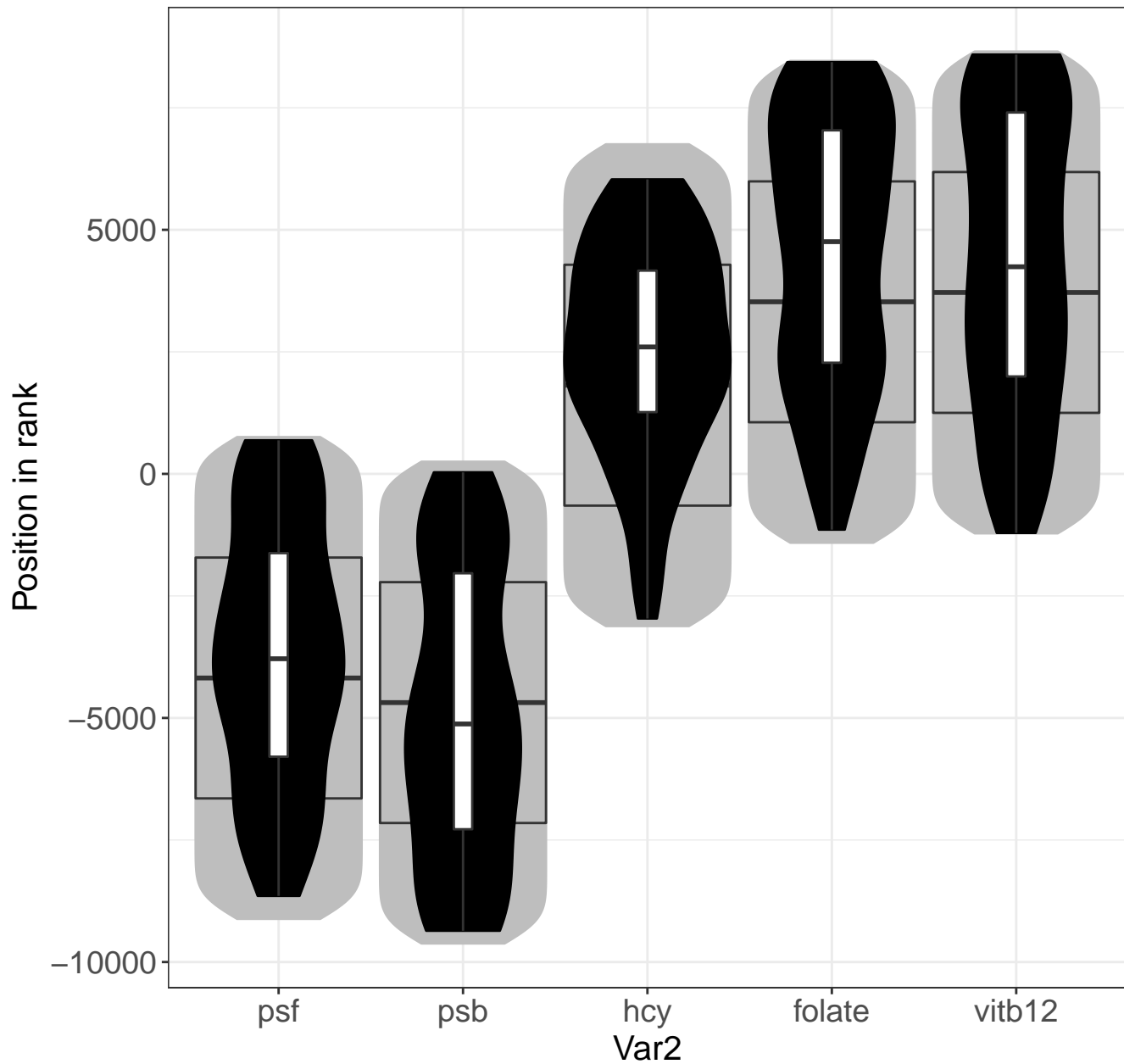
Nonsense-Mediated Decay (NMD)



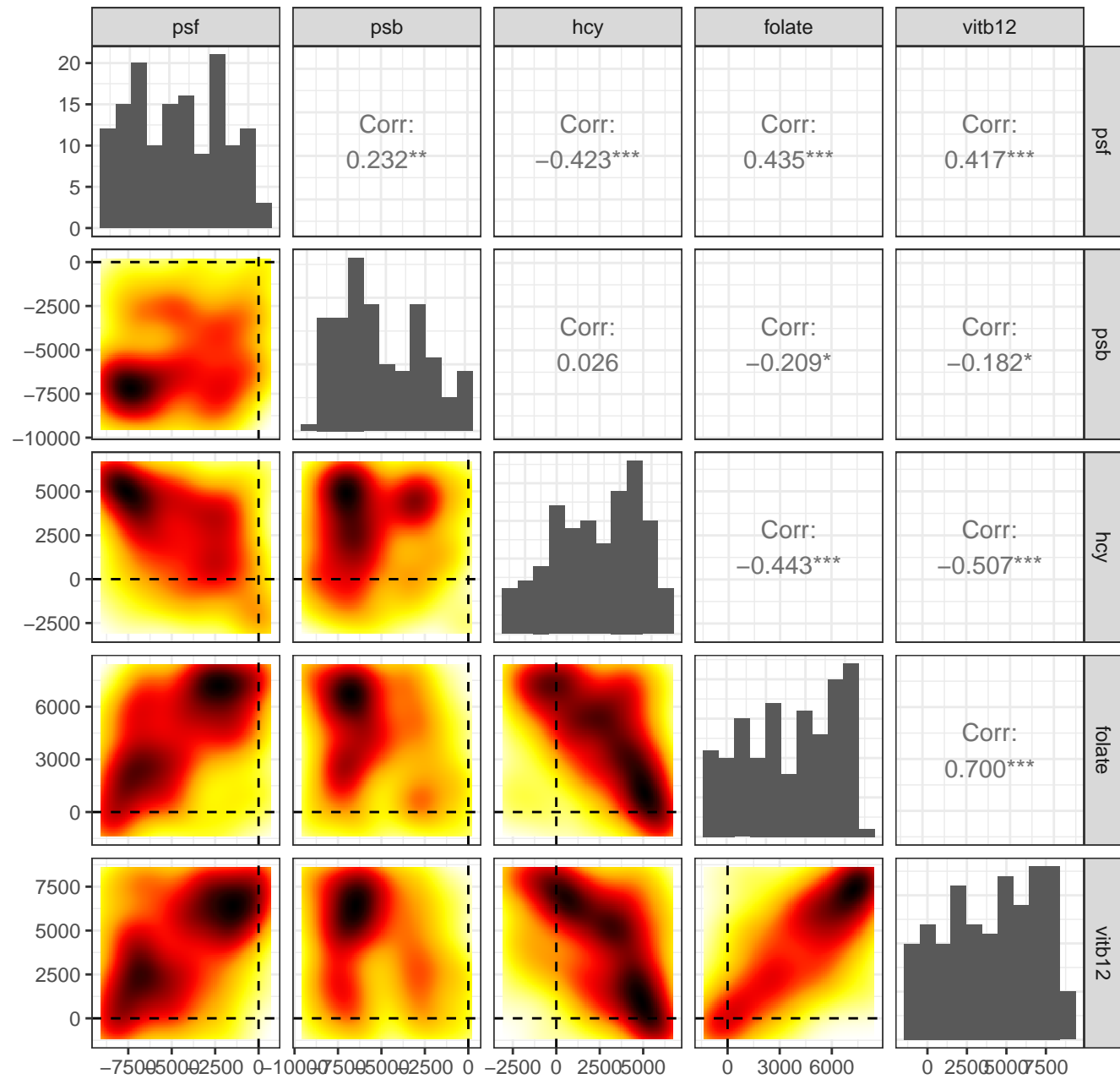
Nonsense-Mediated Decay (NMD)



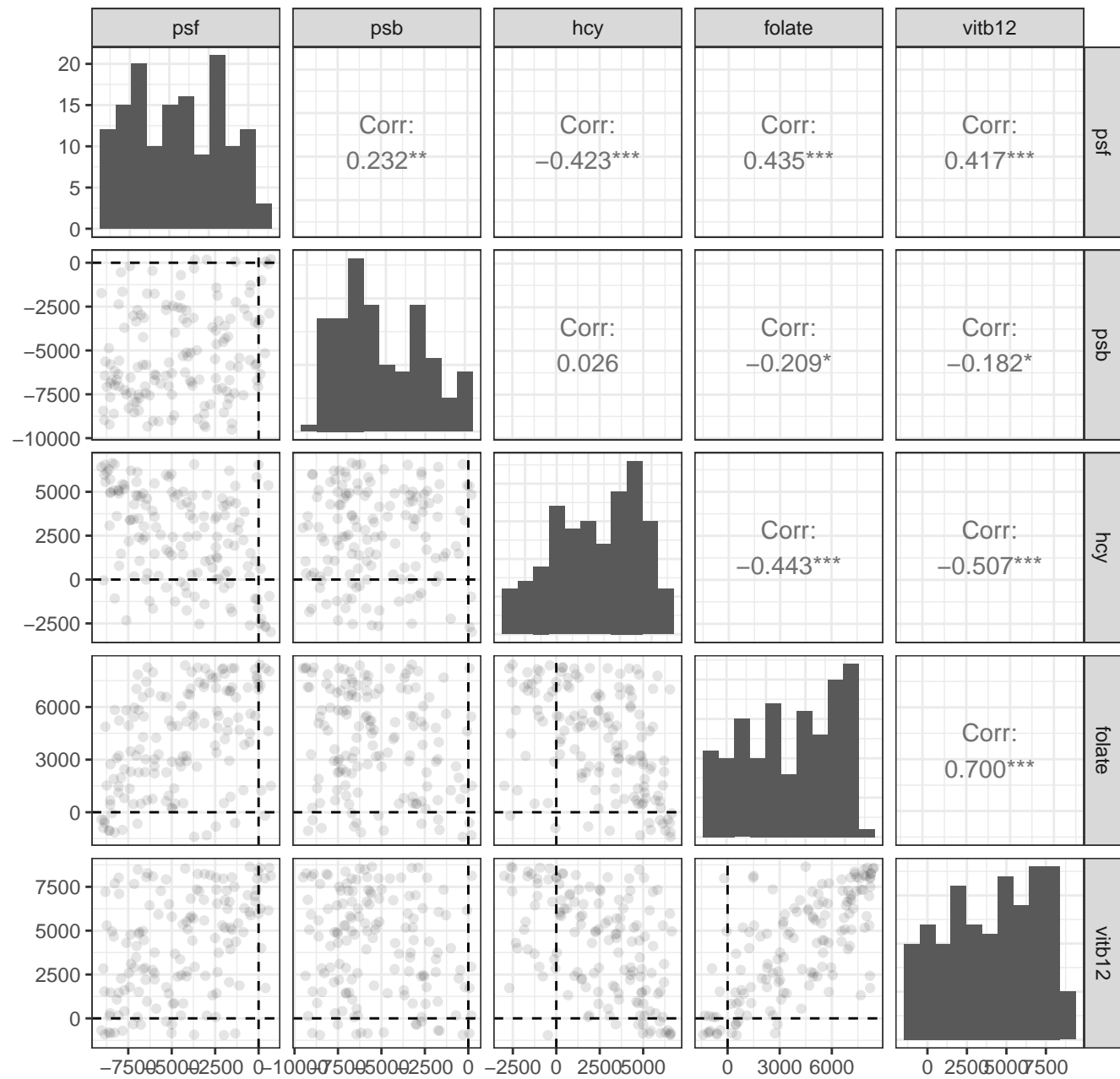
Nonsense-Mediated Decay (NMD)



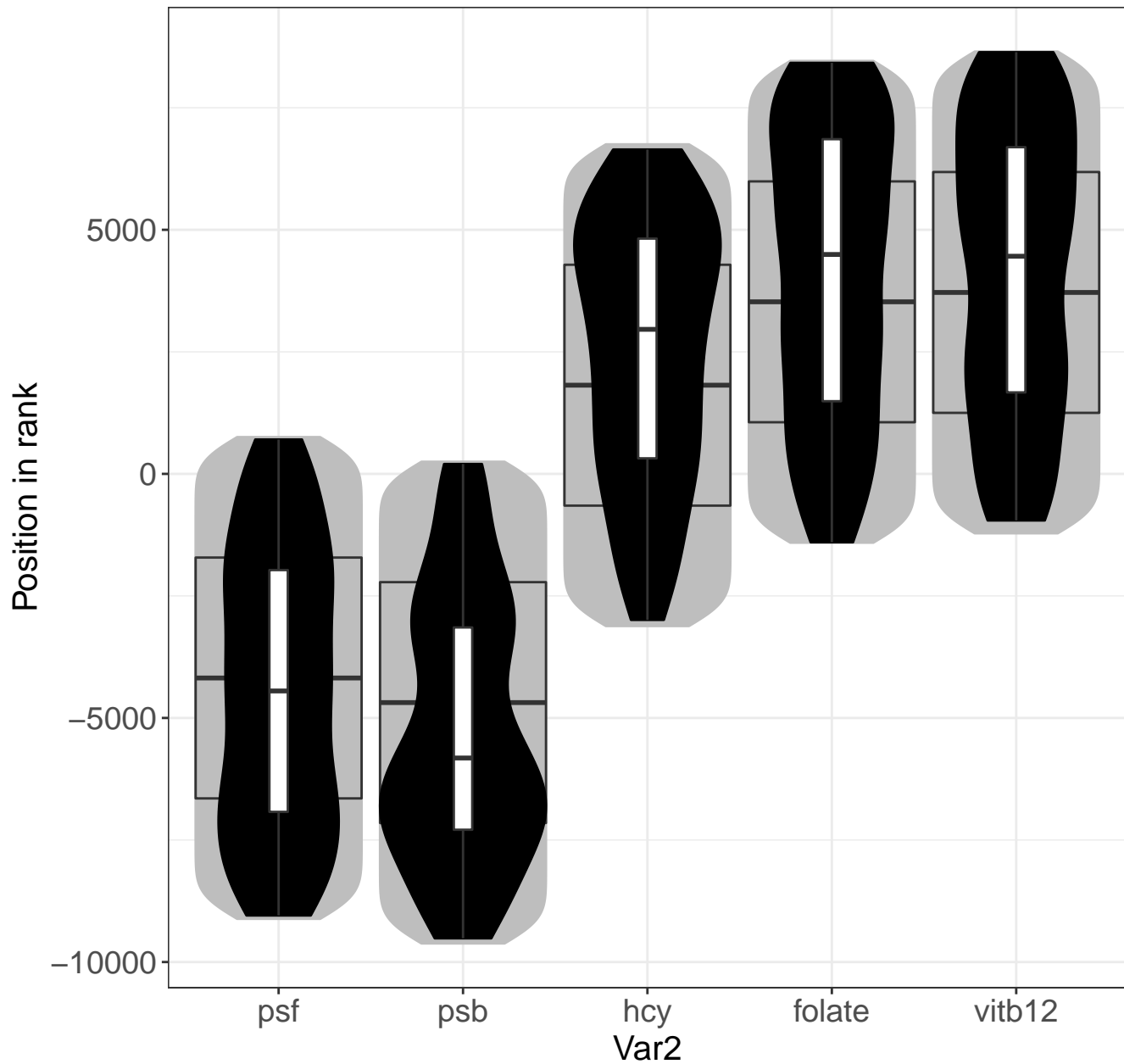
G2/M Transition



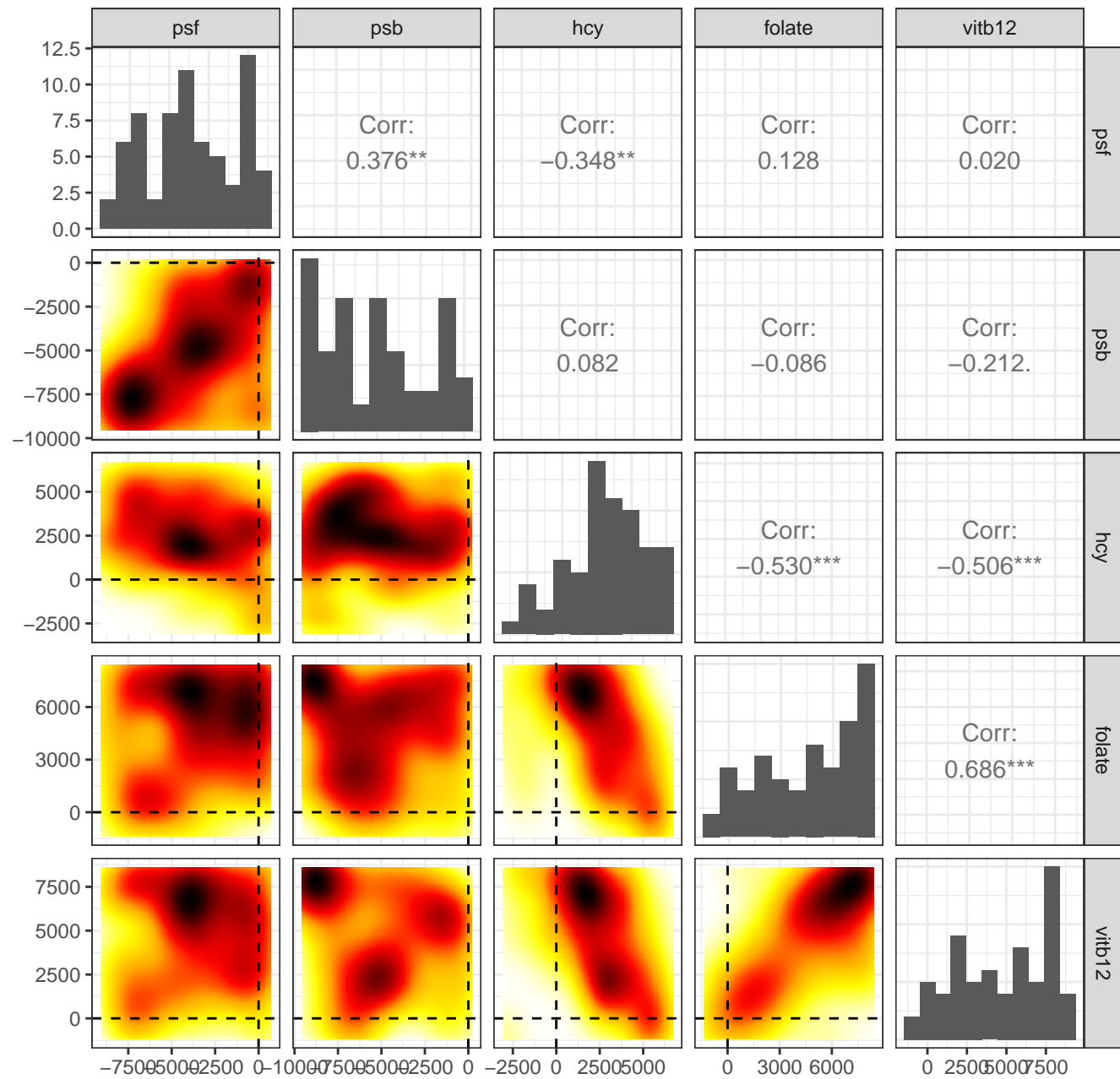
G2/M Transition



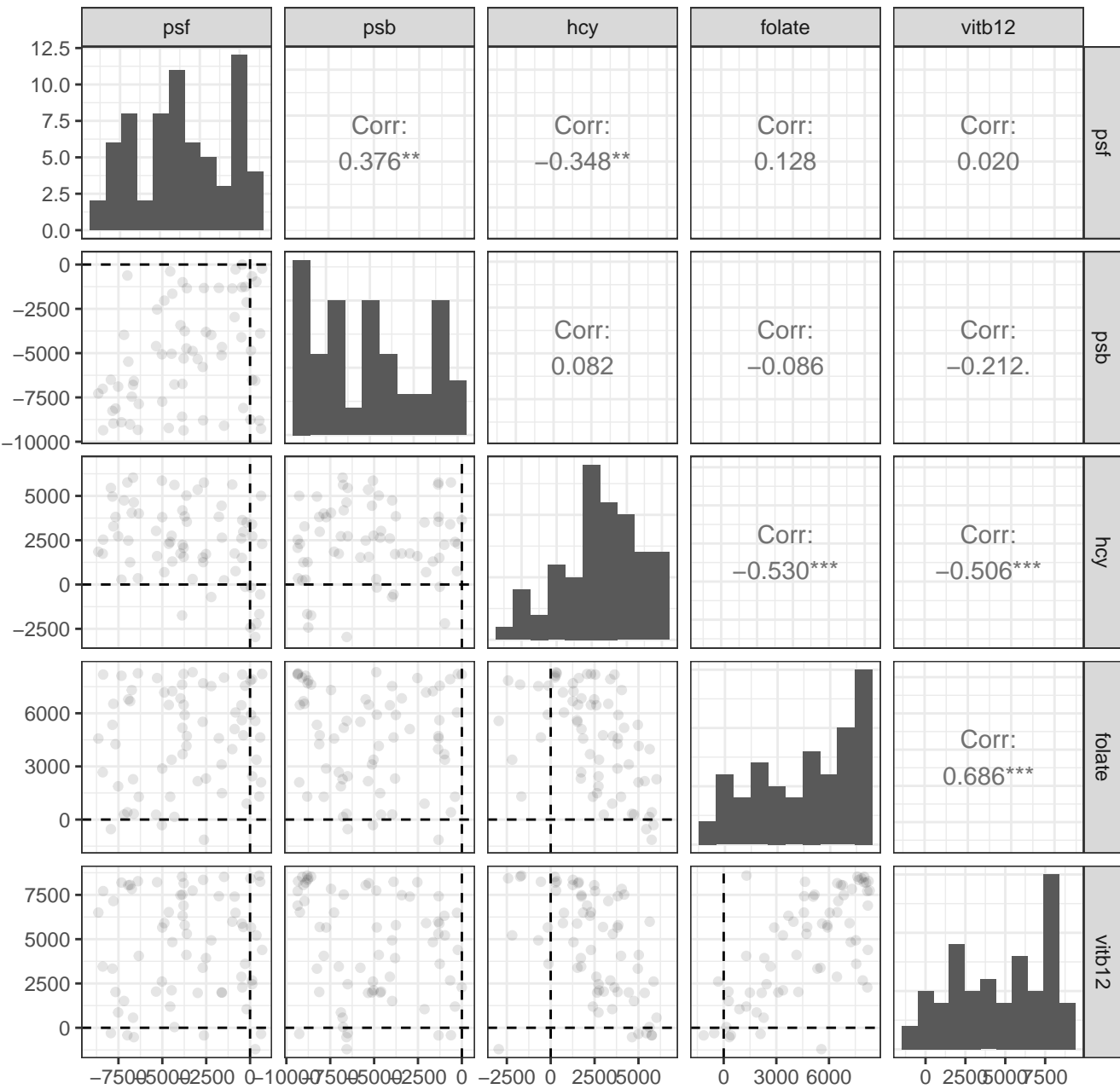
G2/M Transition



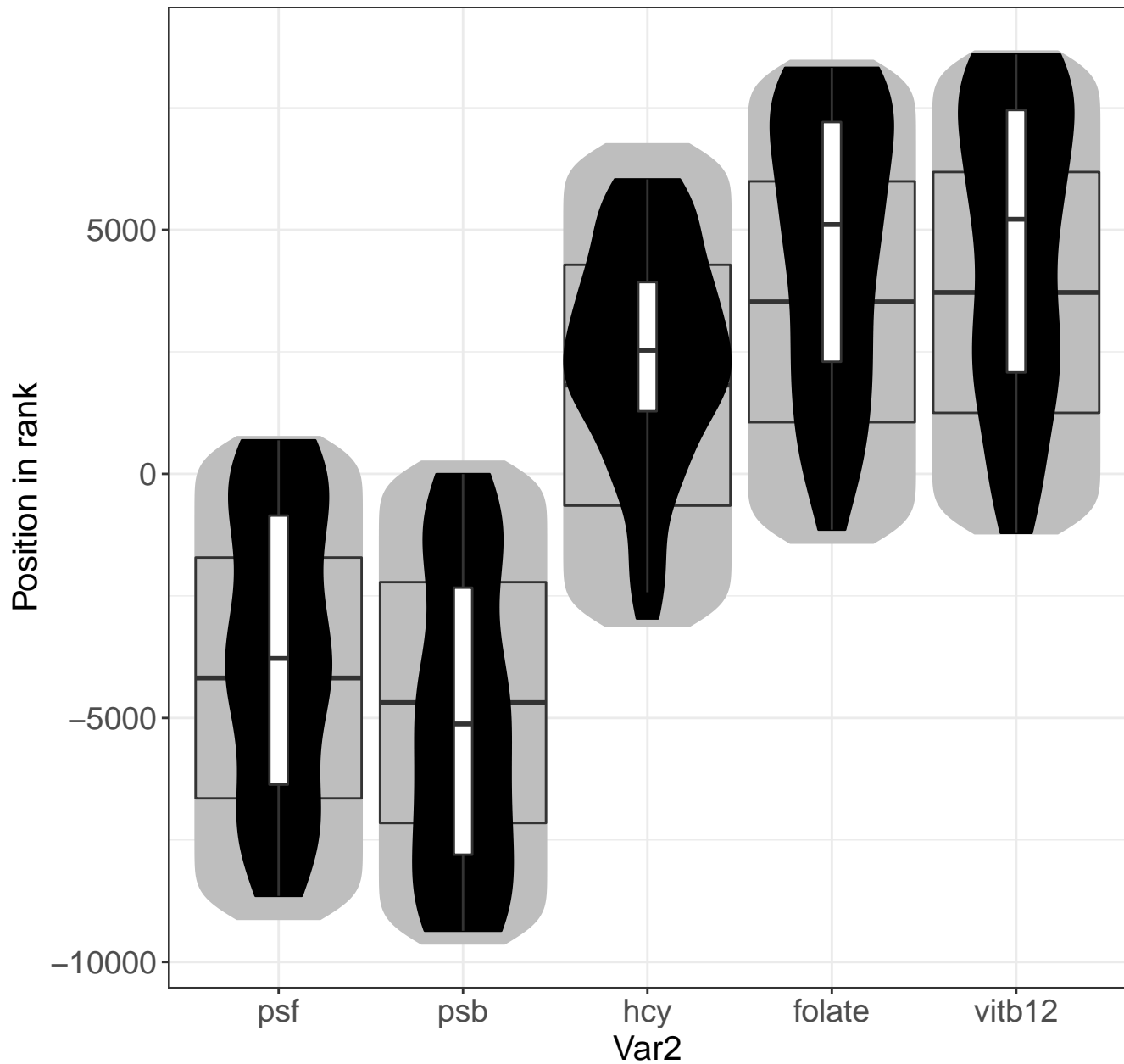
Eukaryotic Translation Elongation



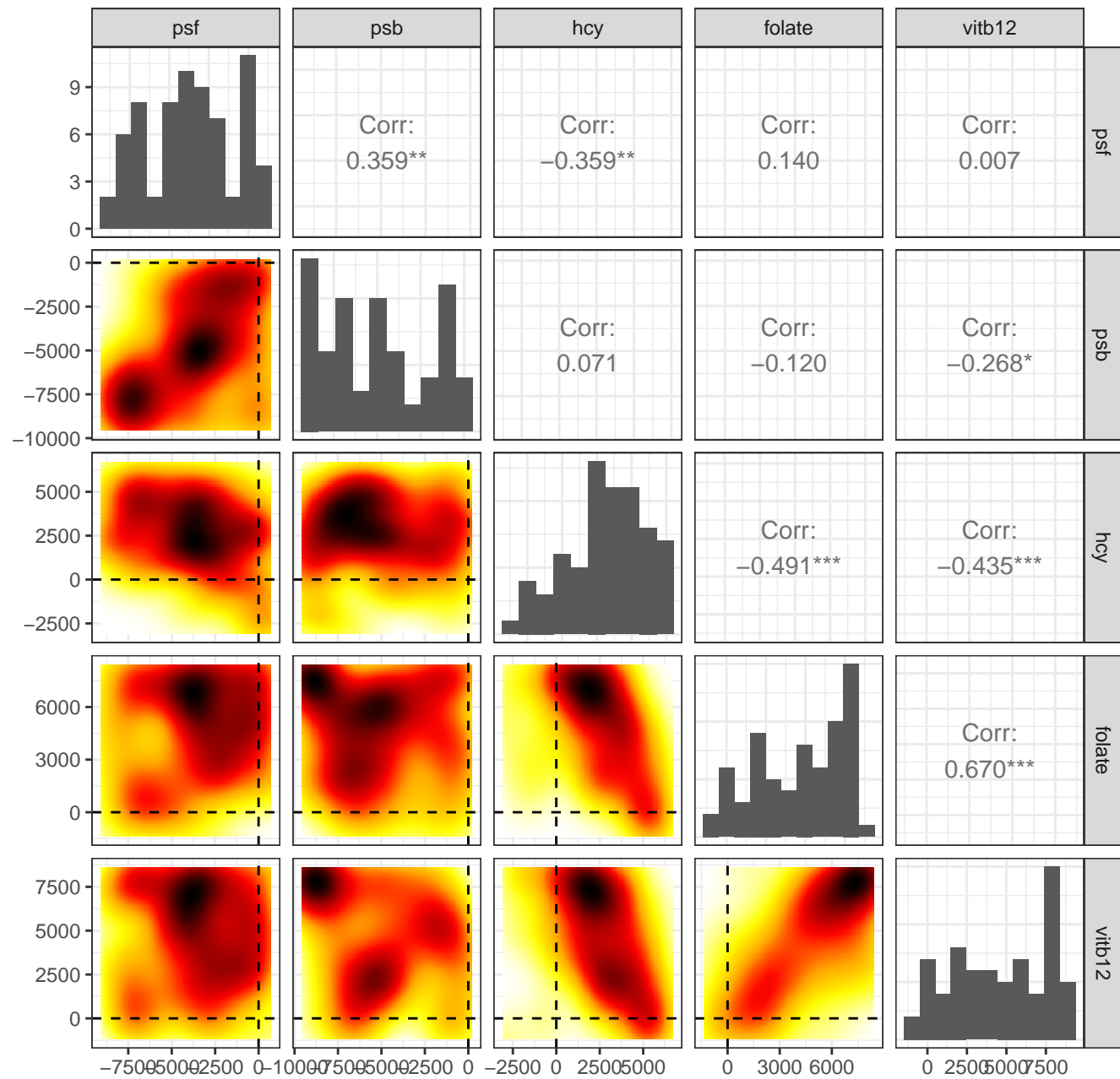
Eukaryotic Translation Elongation



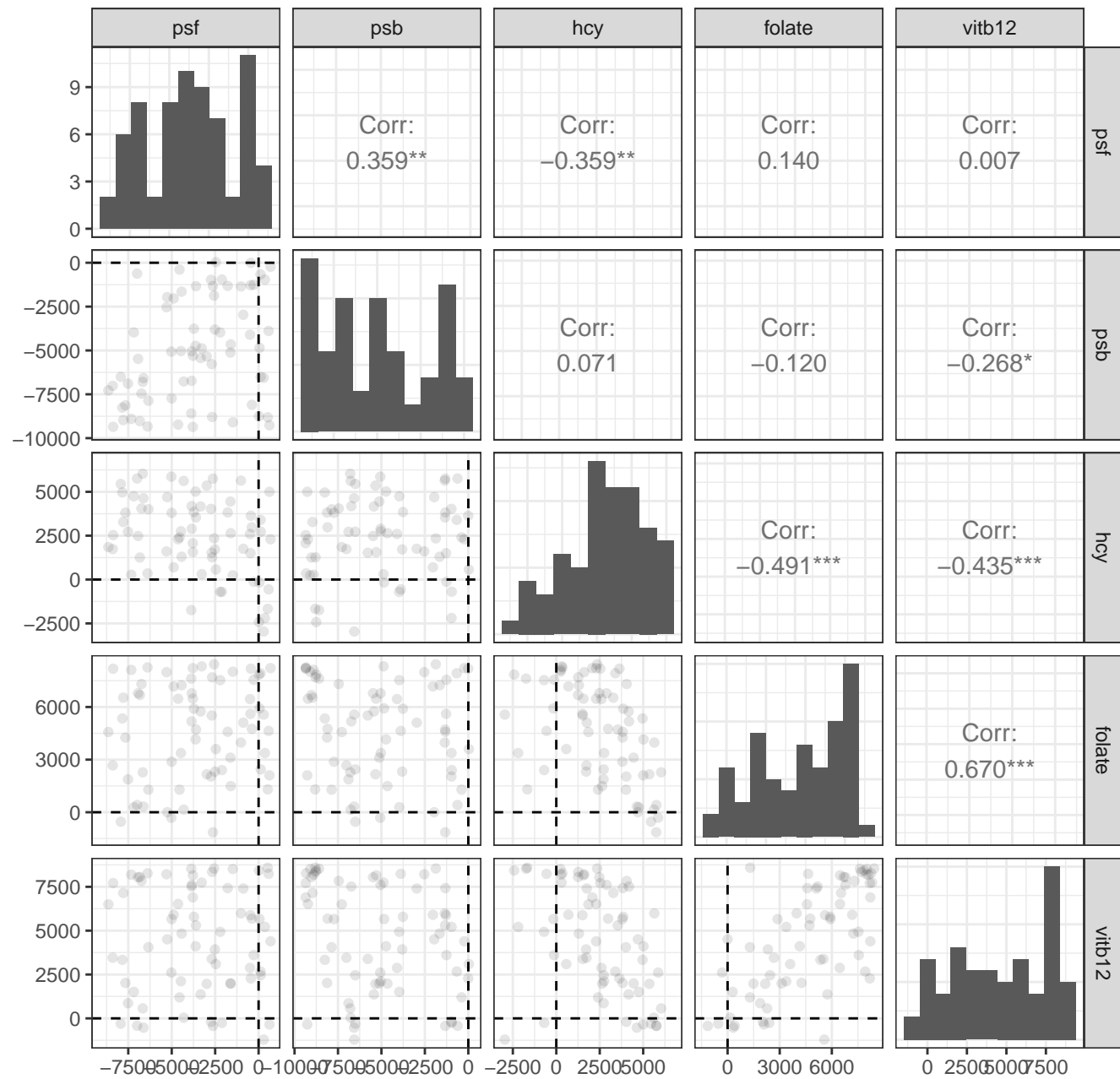
Eukaryotic Translation Elongation



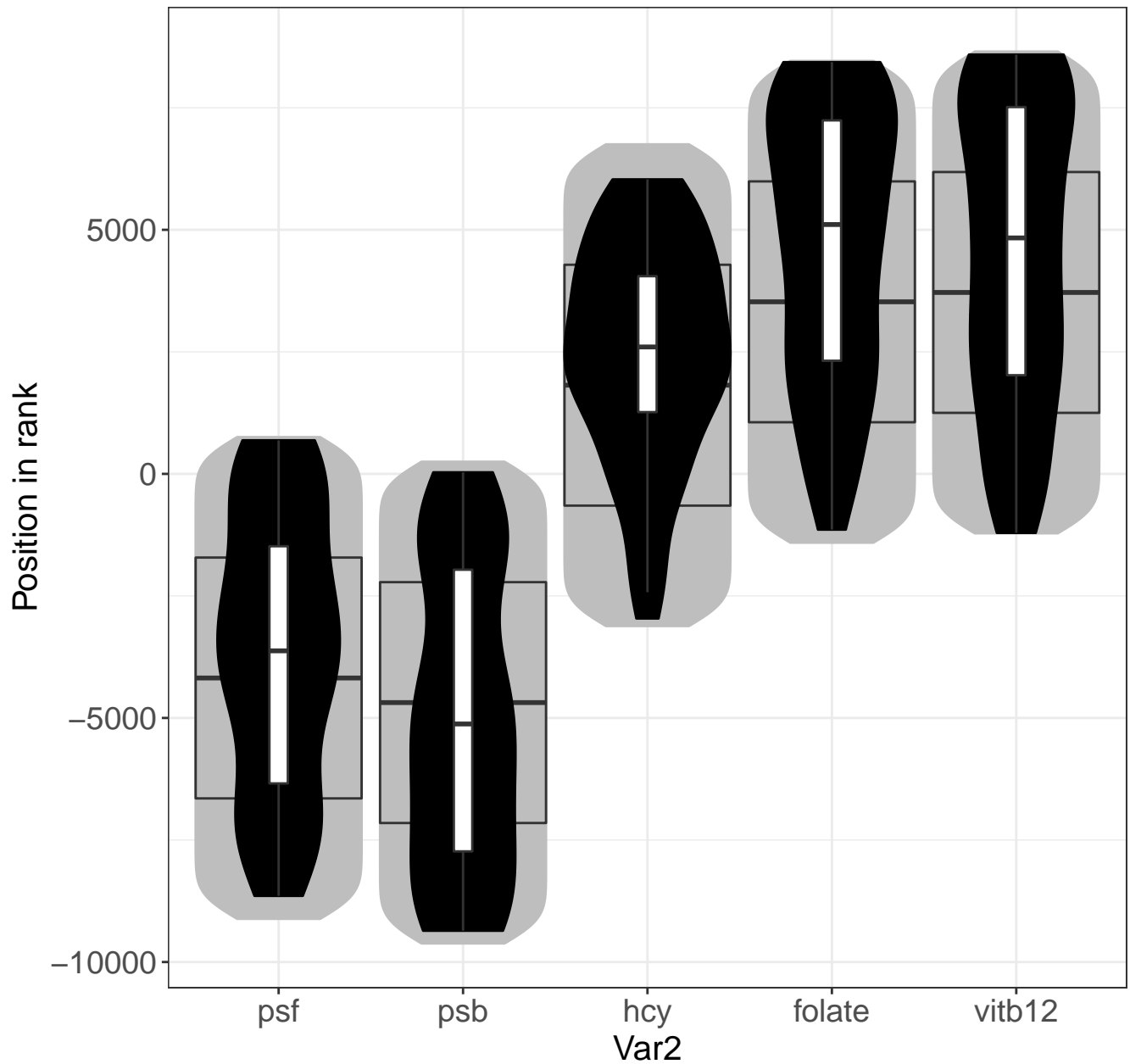
Nonsense Mediated Decay (NMD) independent of the Exon Junction Complex (EJC)



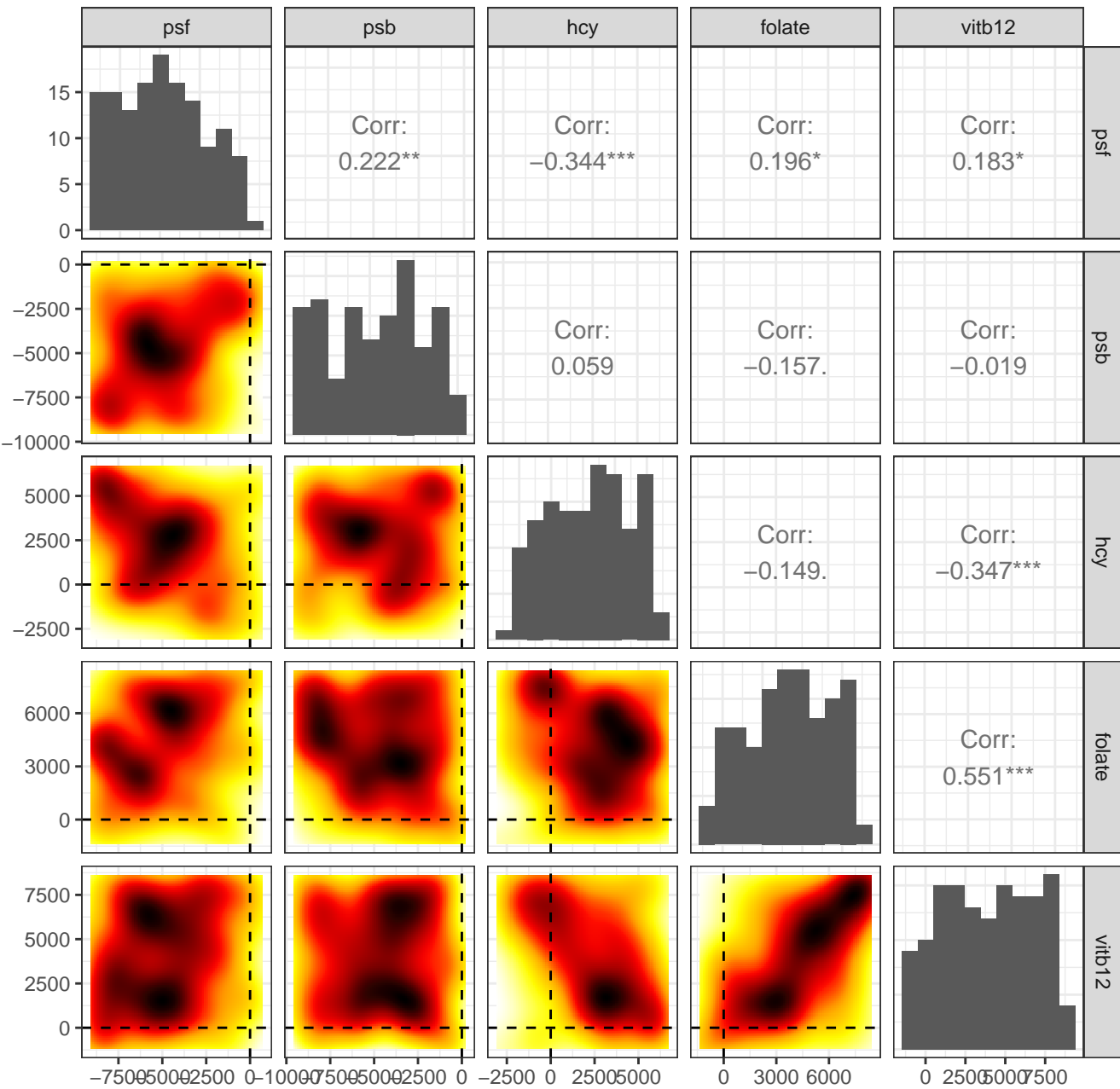
Nonsense Mediated Decay (NMD) independent of the Exon Junction Complex (EJC)



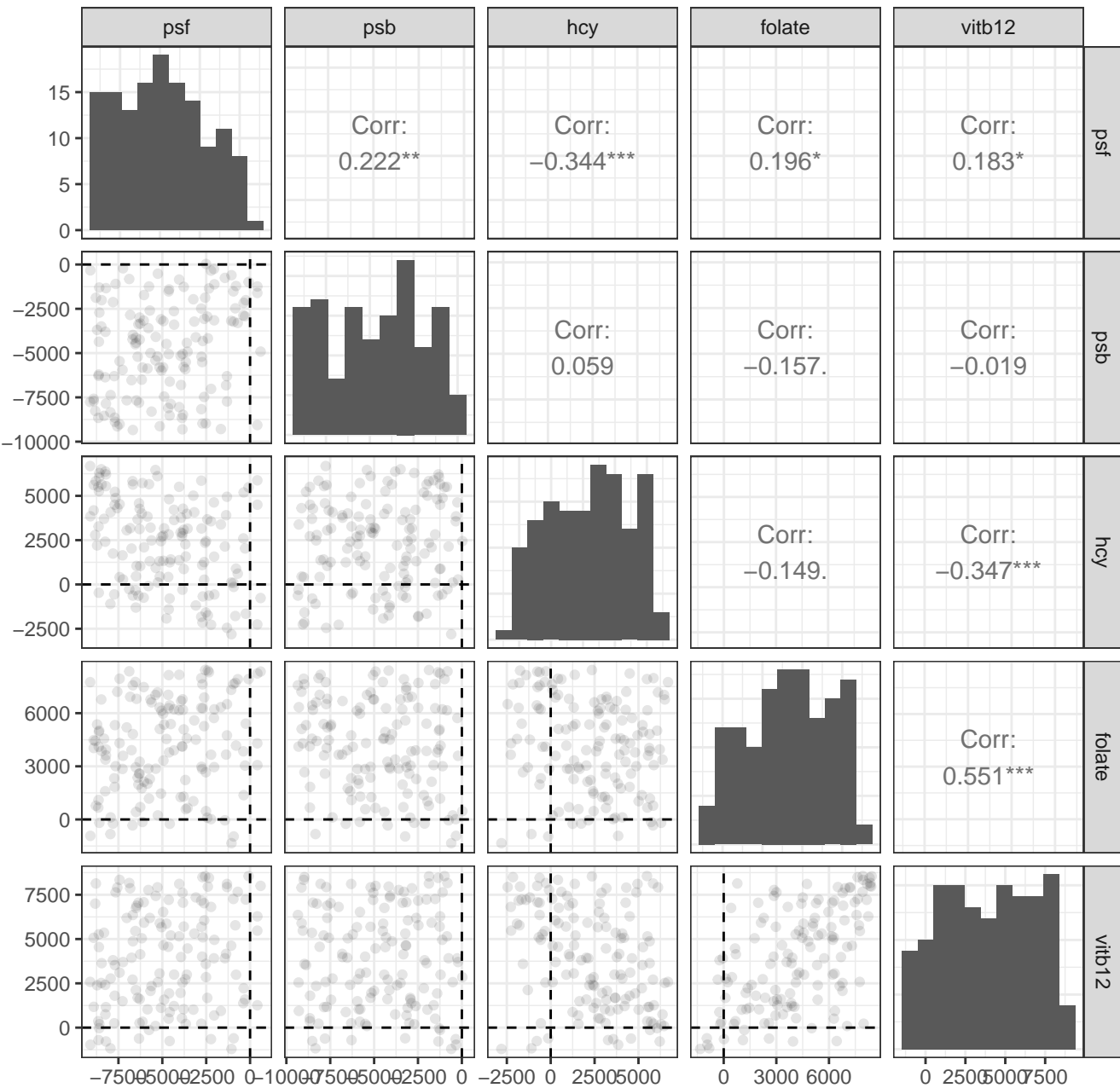
Nonsense Mediated Decay (NMD) independent of



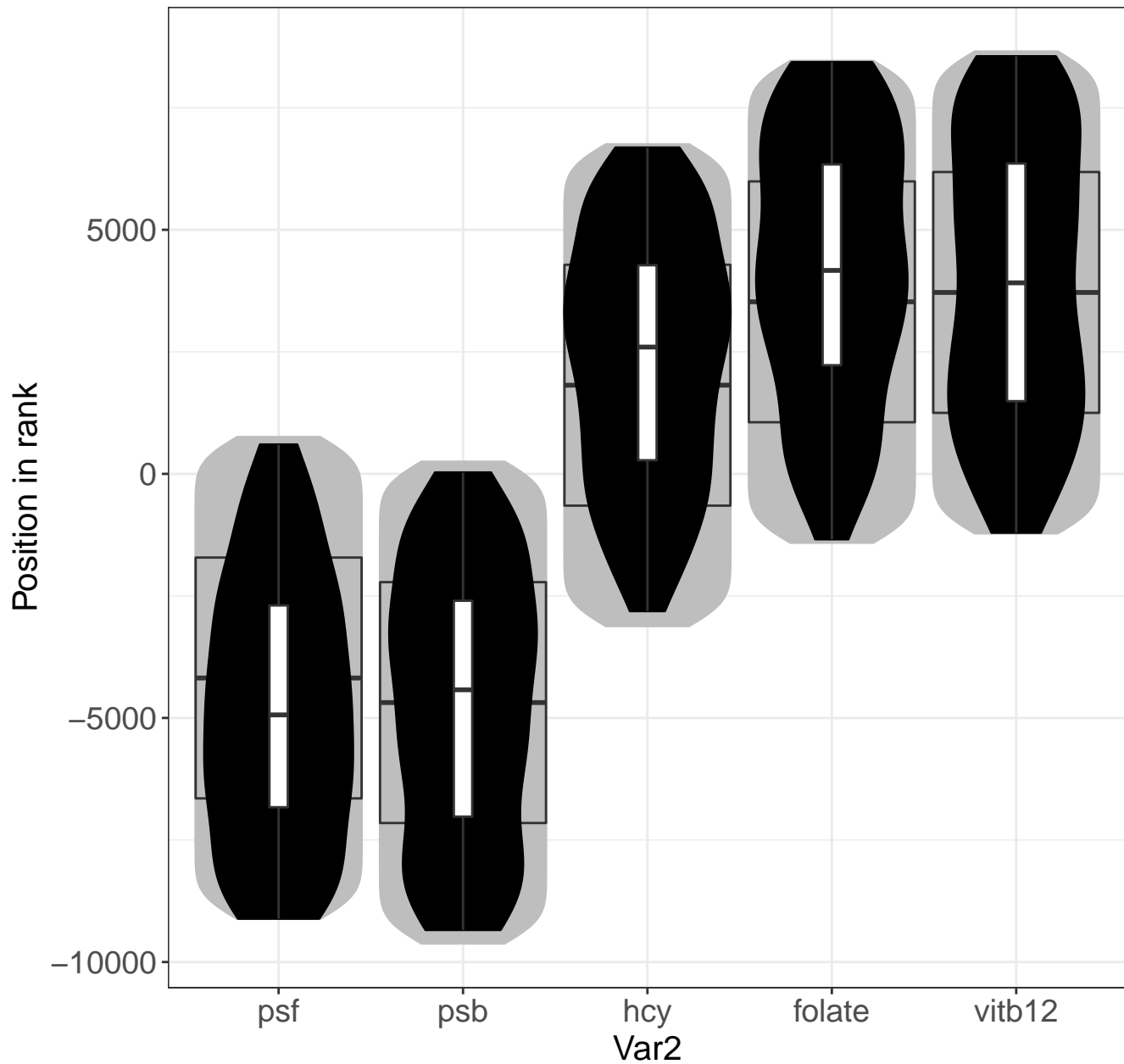
mRNA Splicing



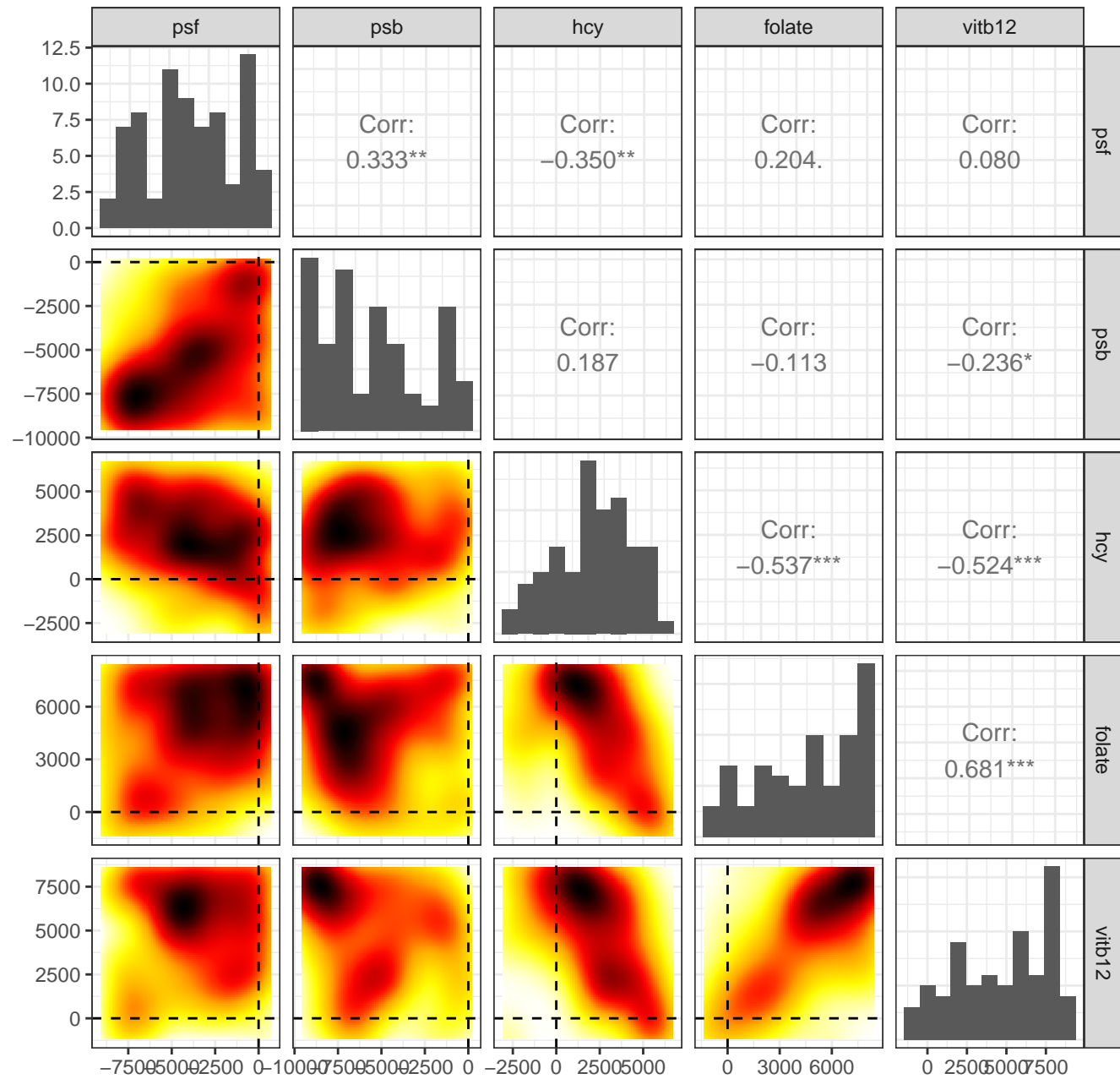
mRNA Splicing



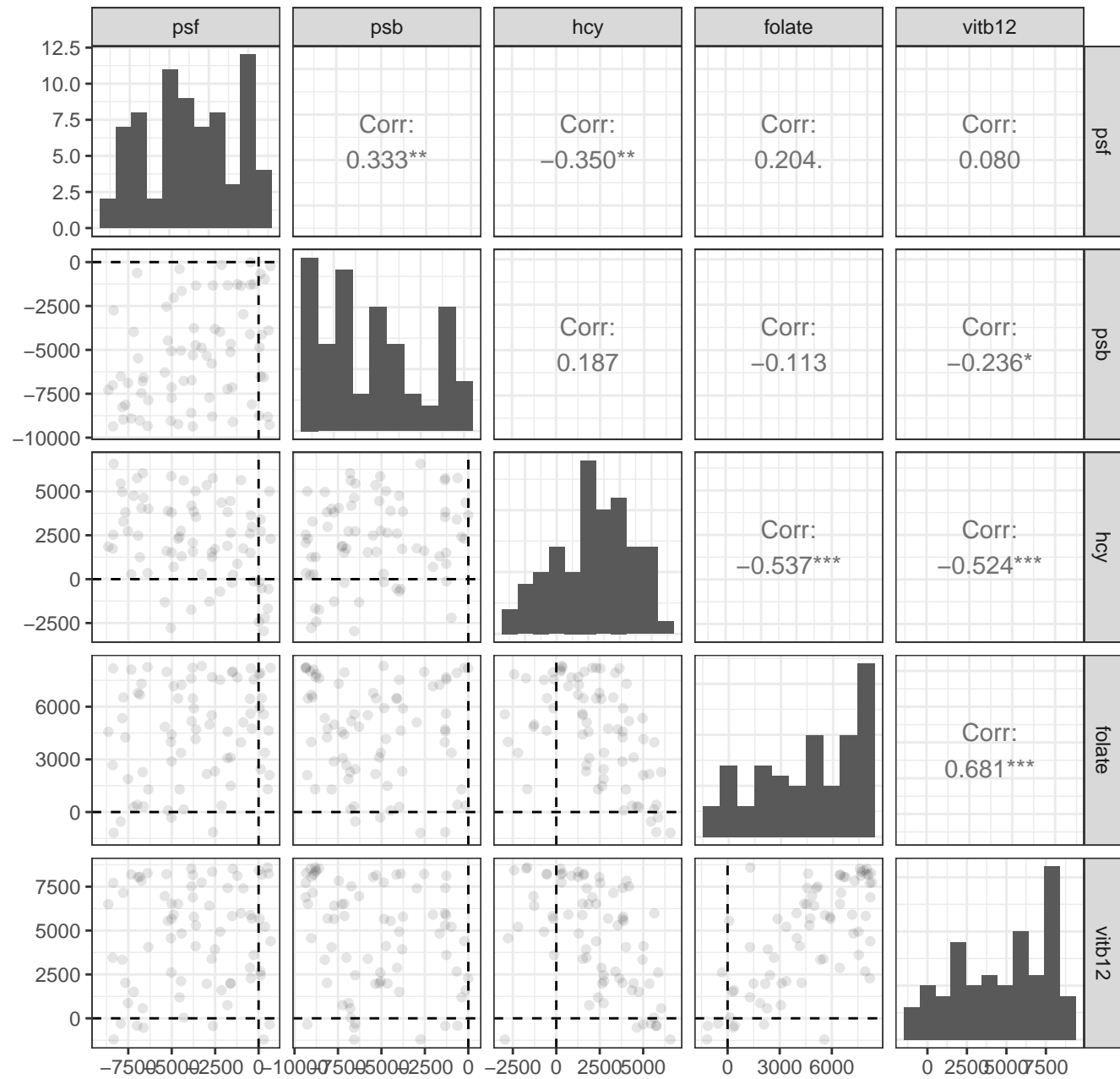
mRNA Splicing



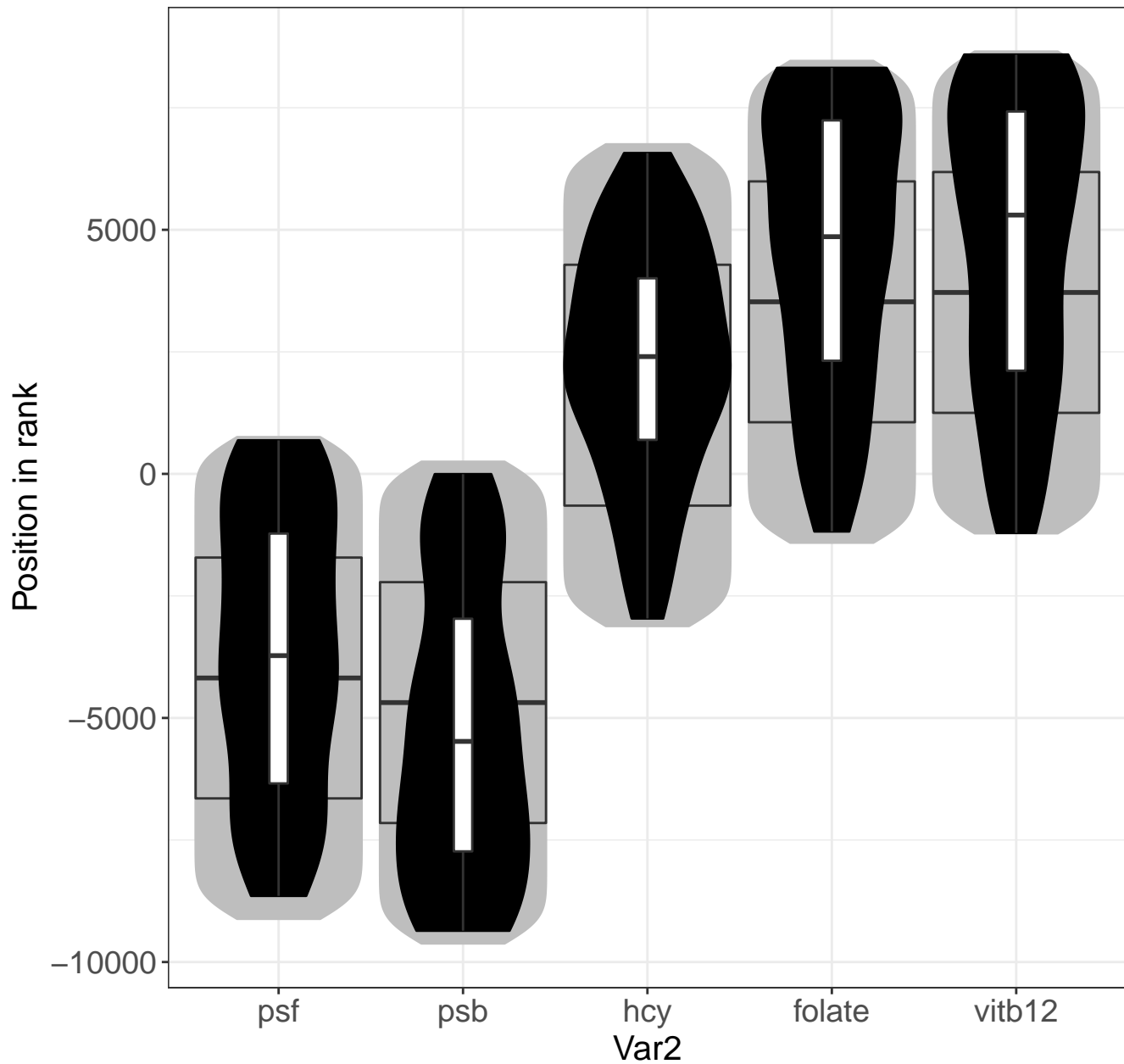
Selenoamino acid metabolism



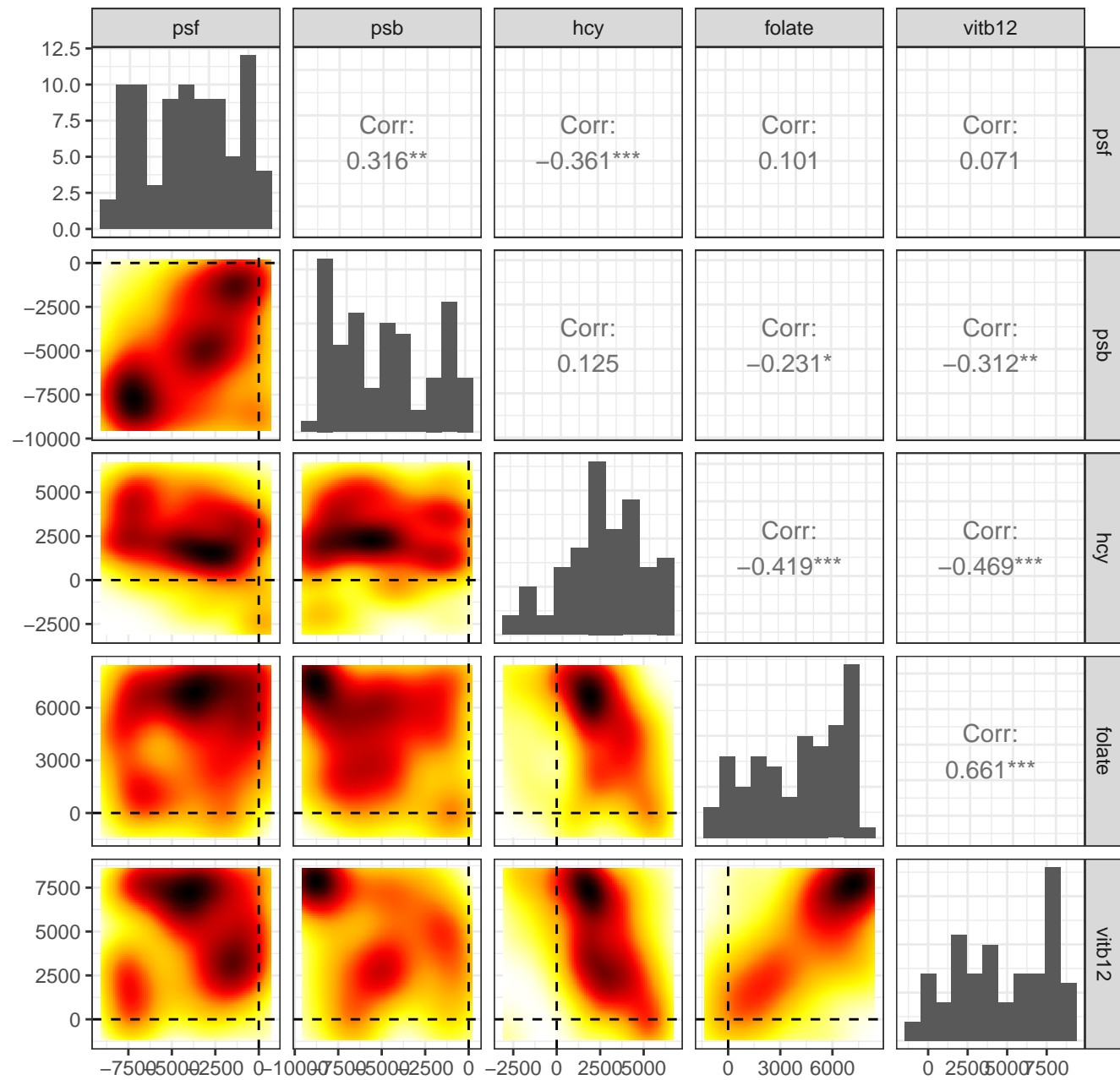
Selenoamino acid metabolism



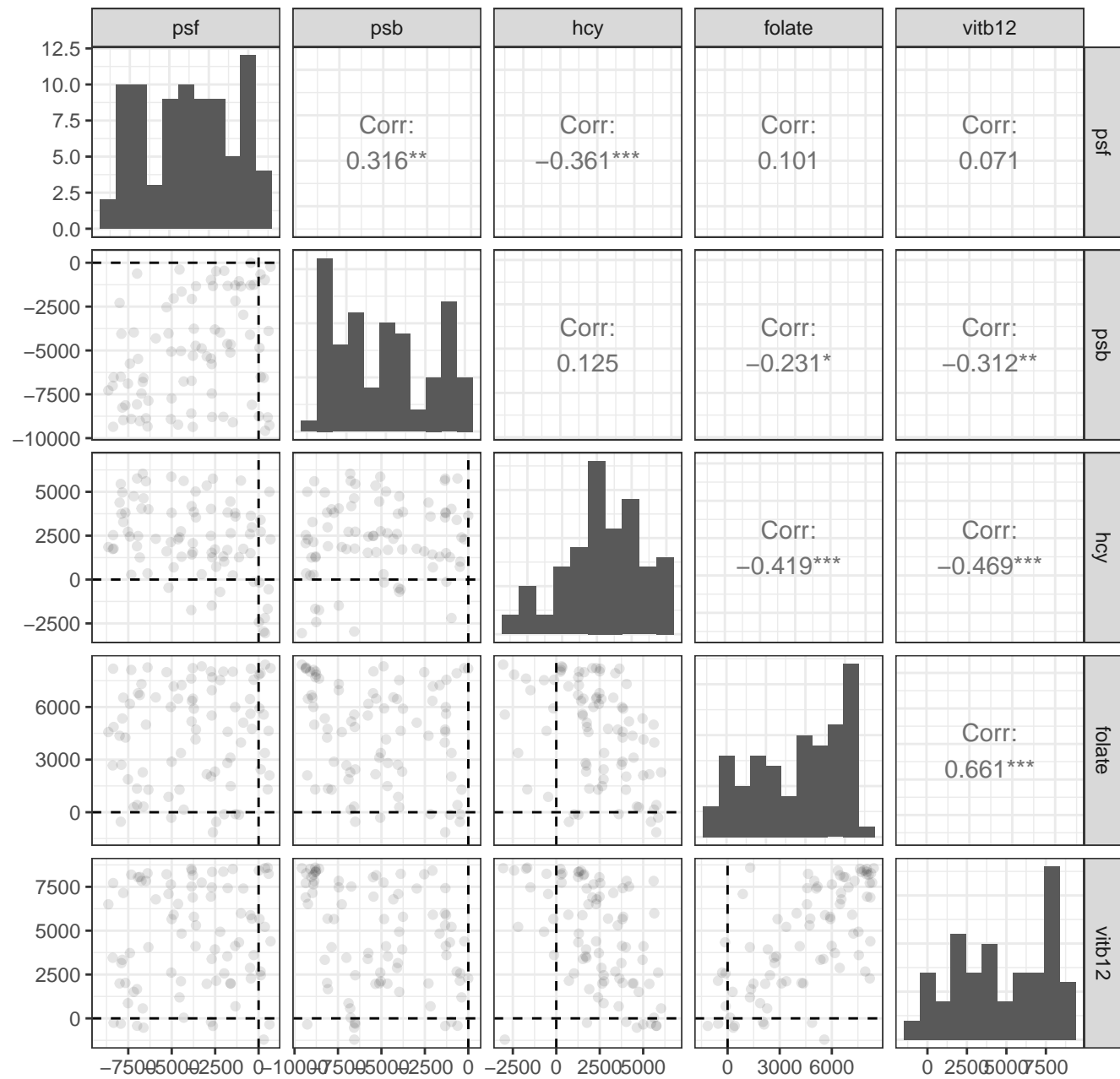
Selenoamino acid metabolism



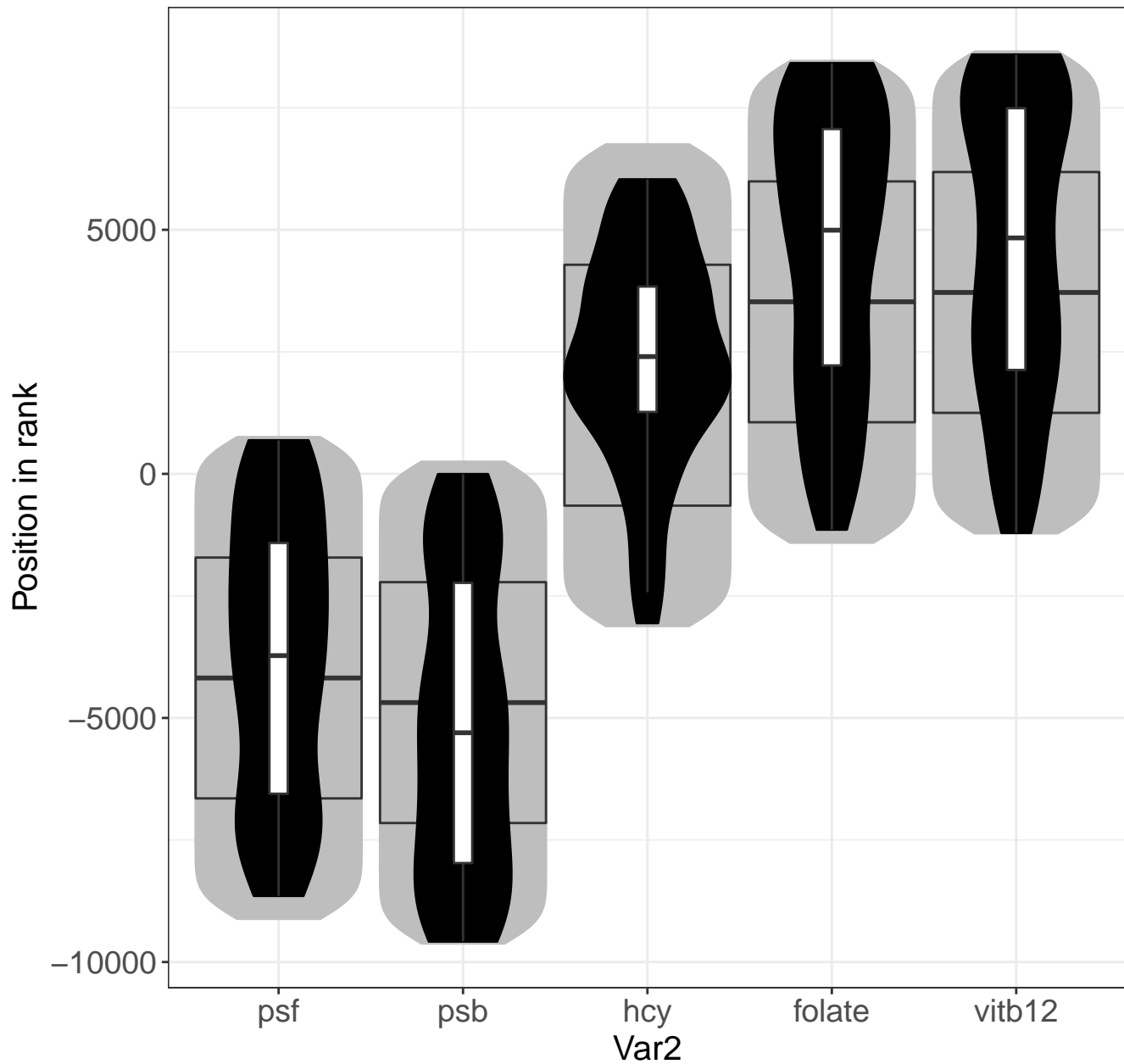
GTP hydrolysis and joining of the 60S ribosomal subunit



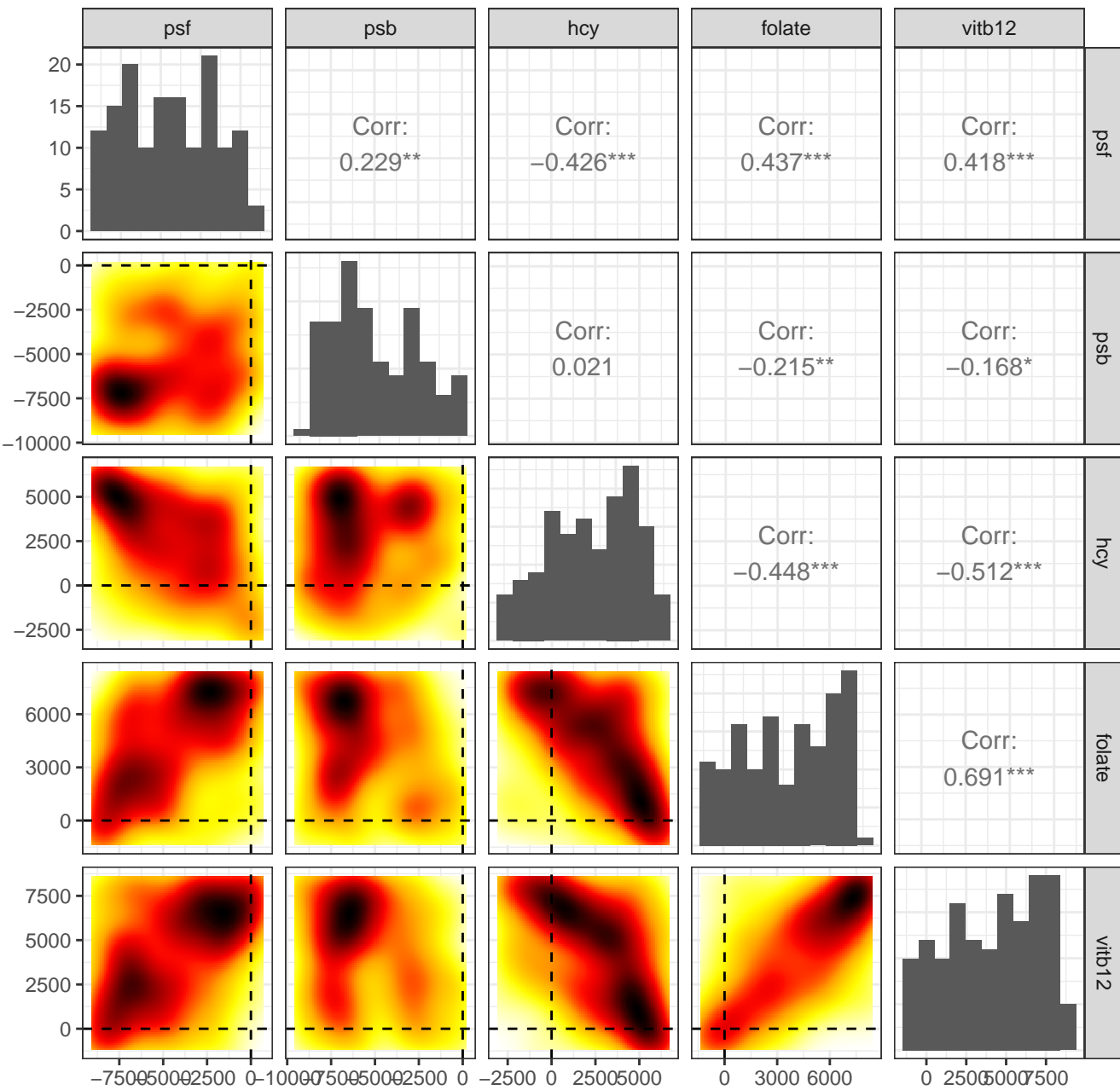
GTP hydrolysis and joining of the 60S ribosomal subunit



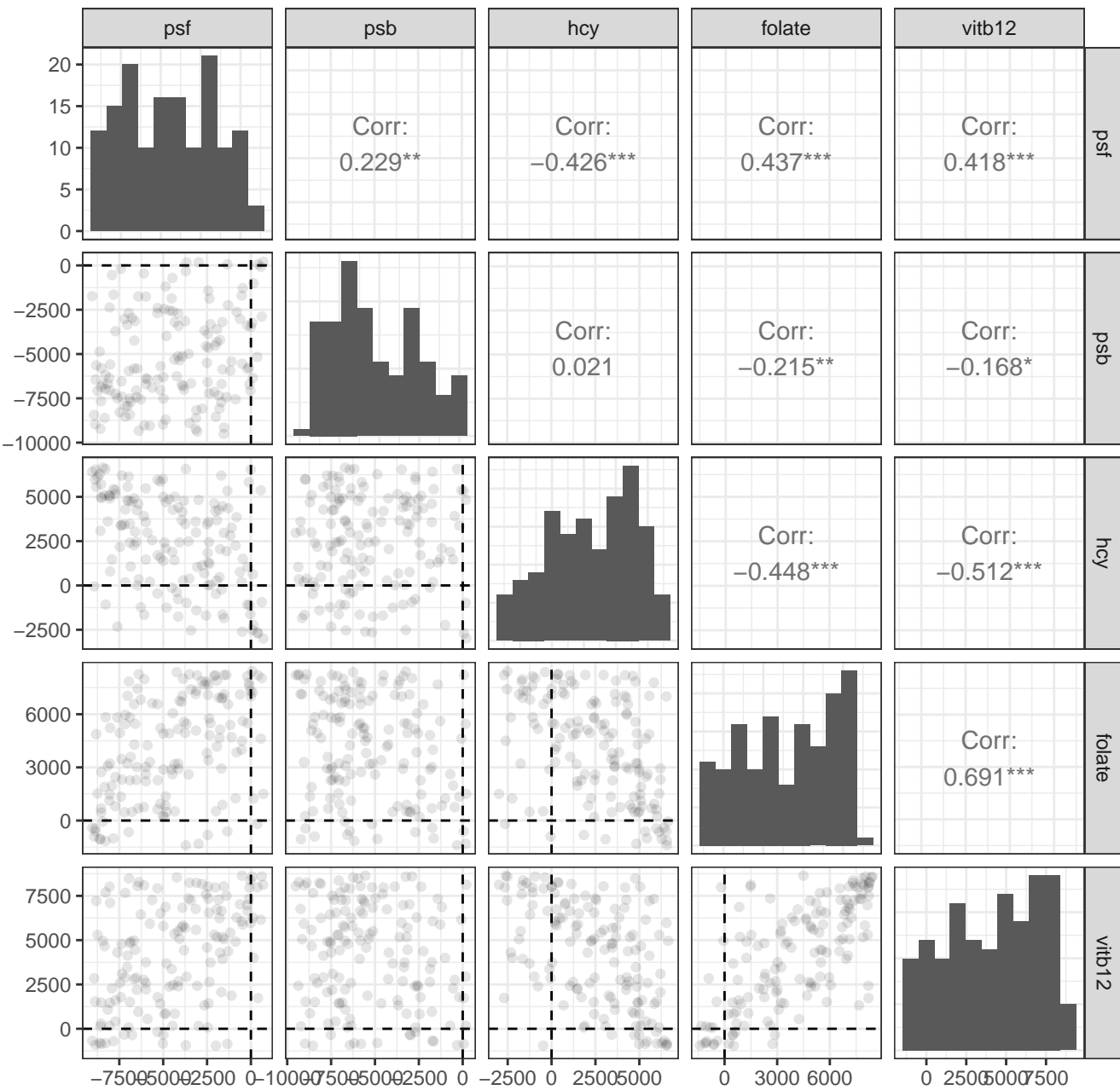
GTP hydrolysis and joining of the 60S ribosomal



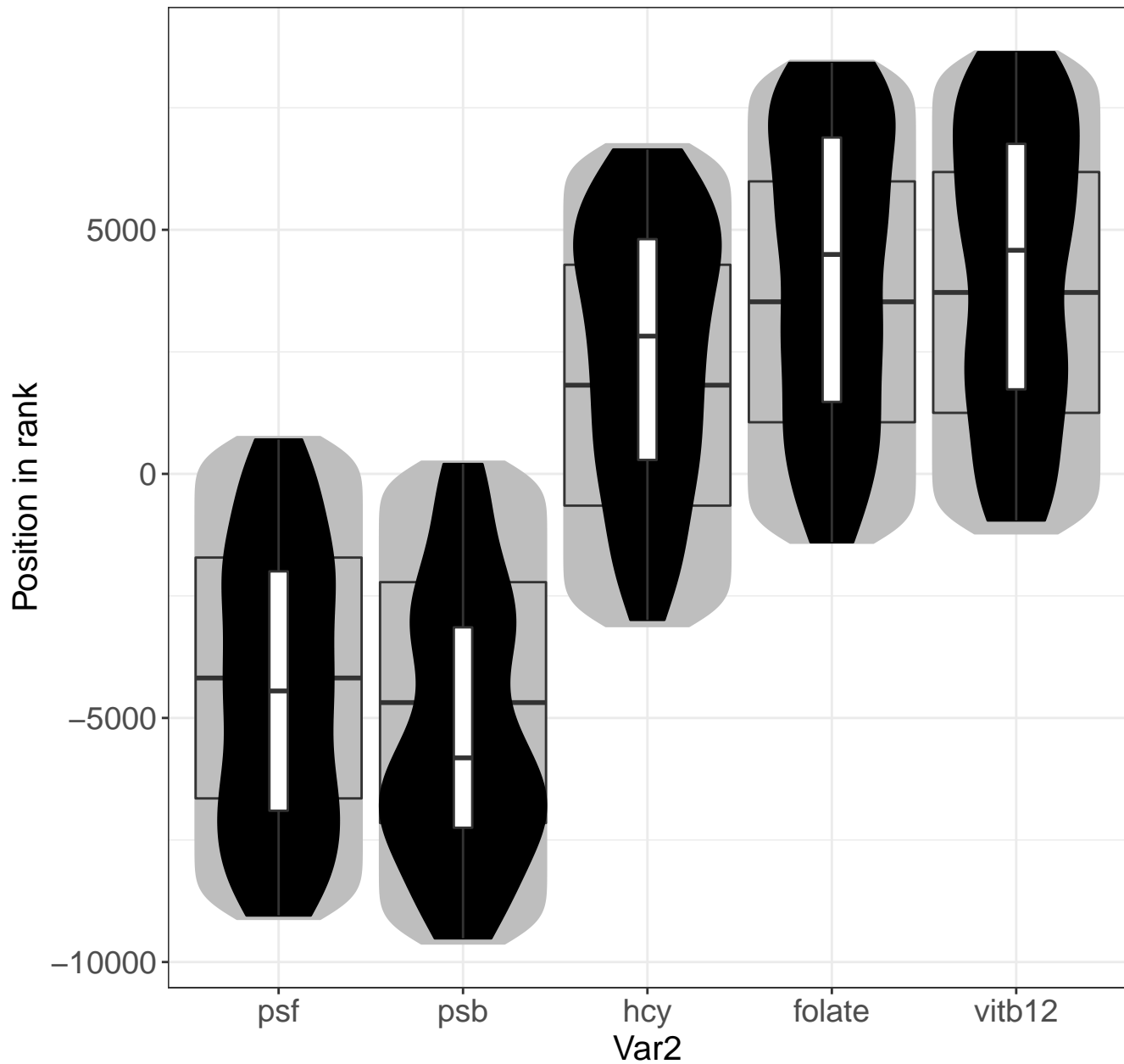
Mitotic G2–G2/M phases



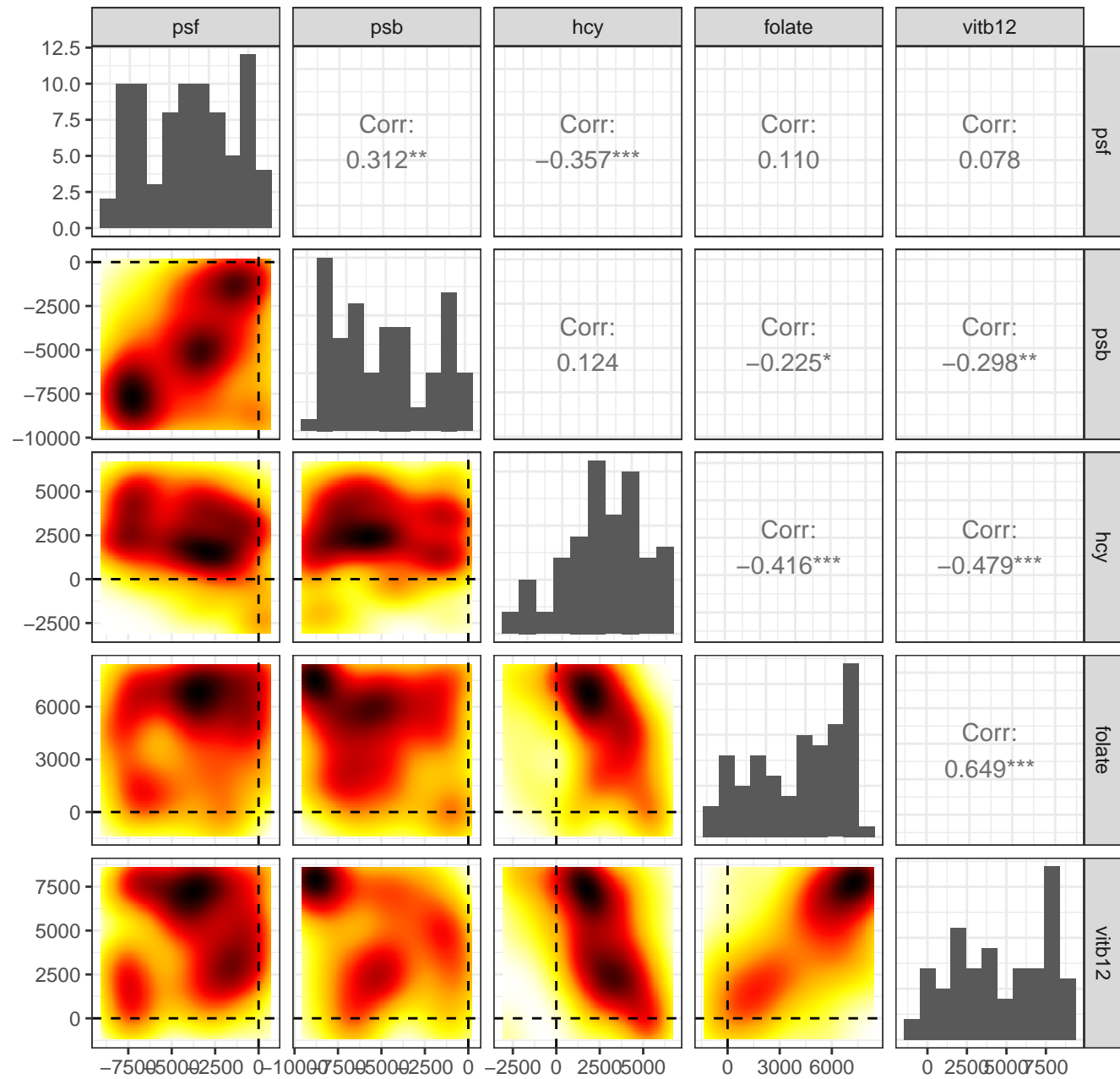
Mitotic G2–G2/M phases



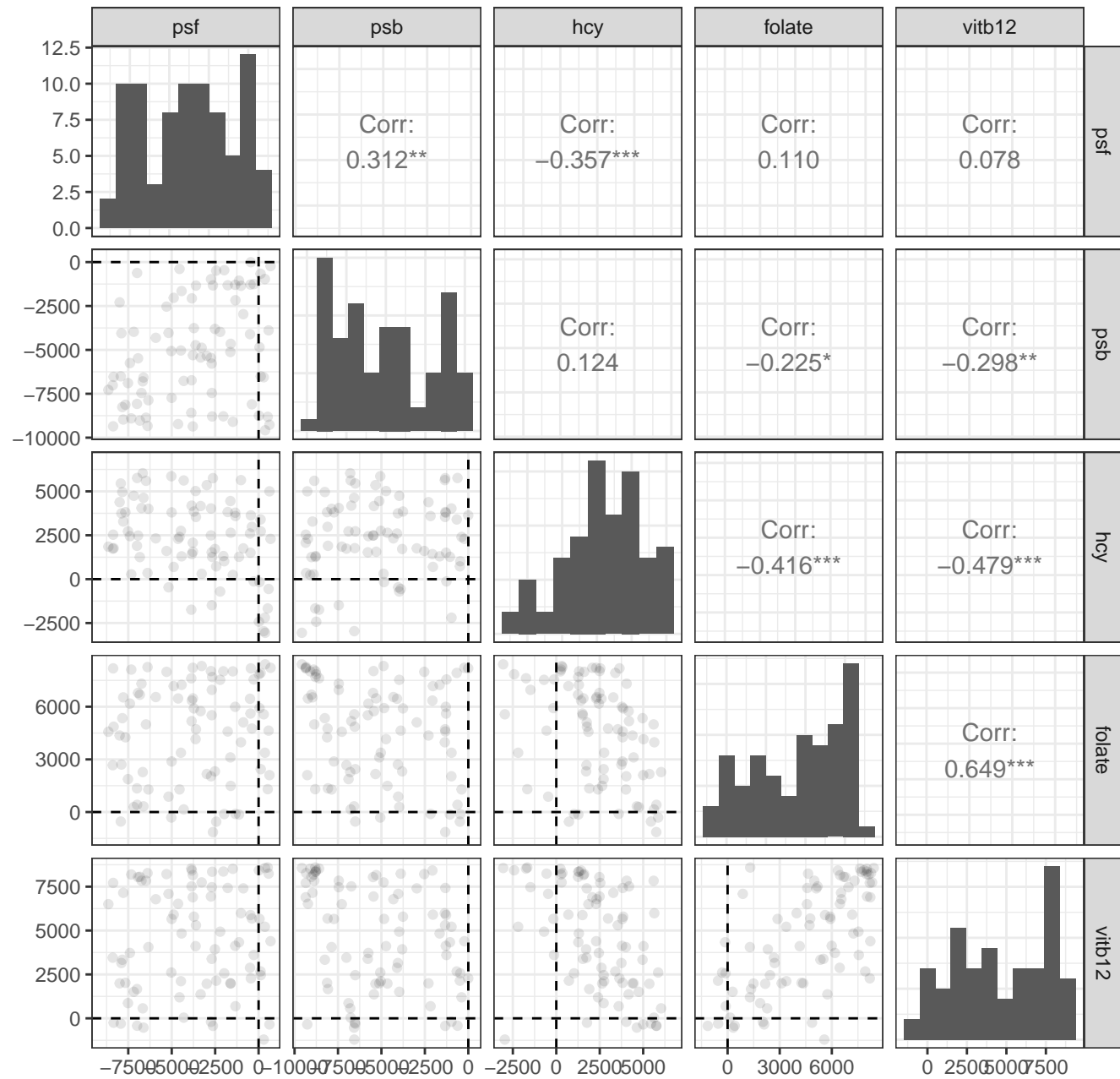
Mitotic G2–G2/M phases



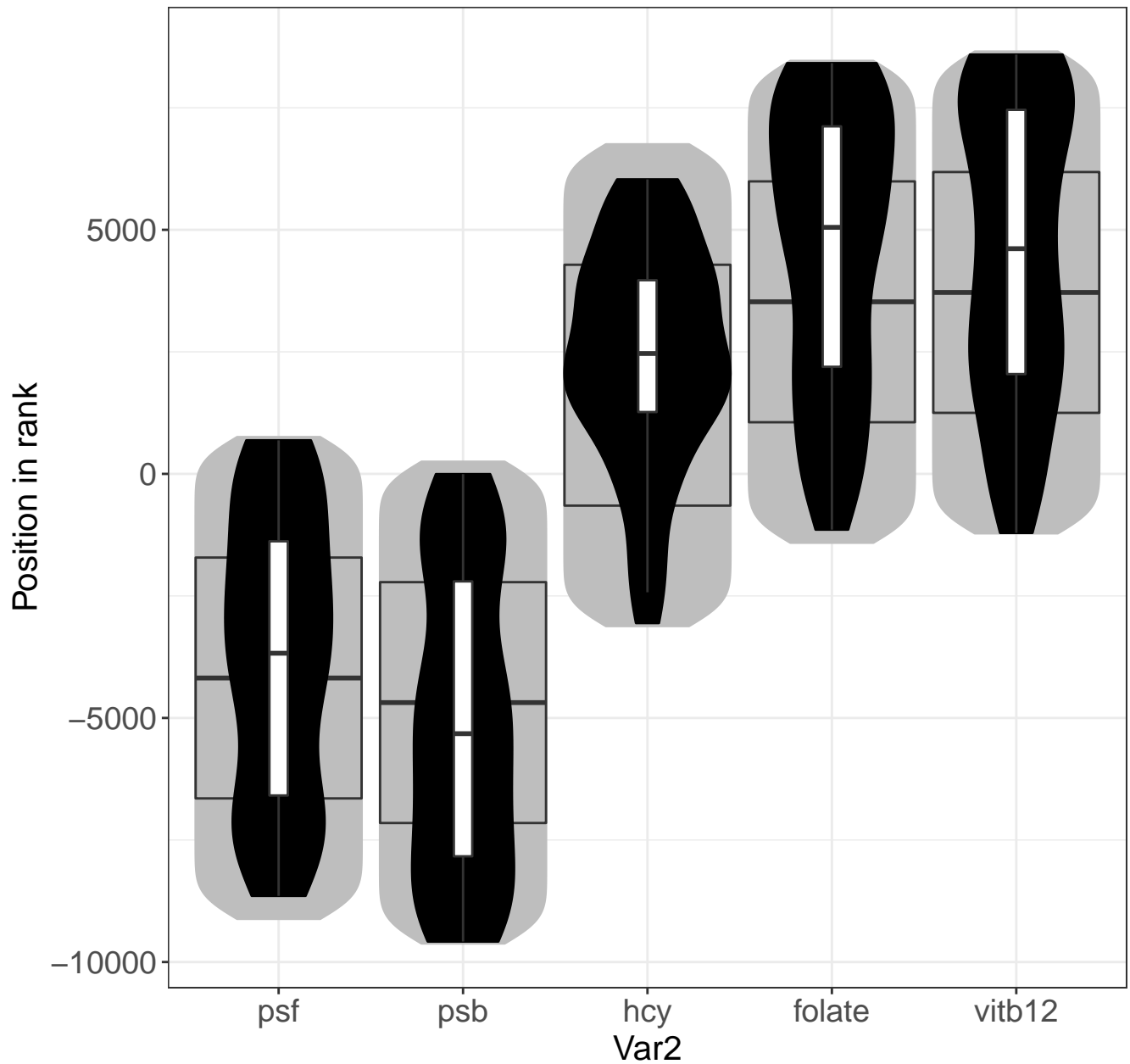
L13a-mediated translational silencing of Ceruloplasmin expression



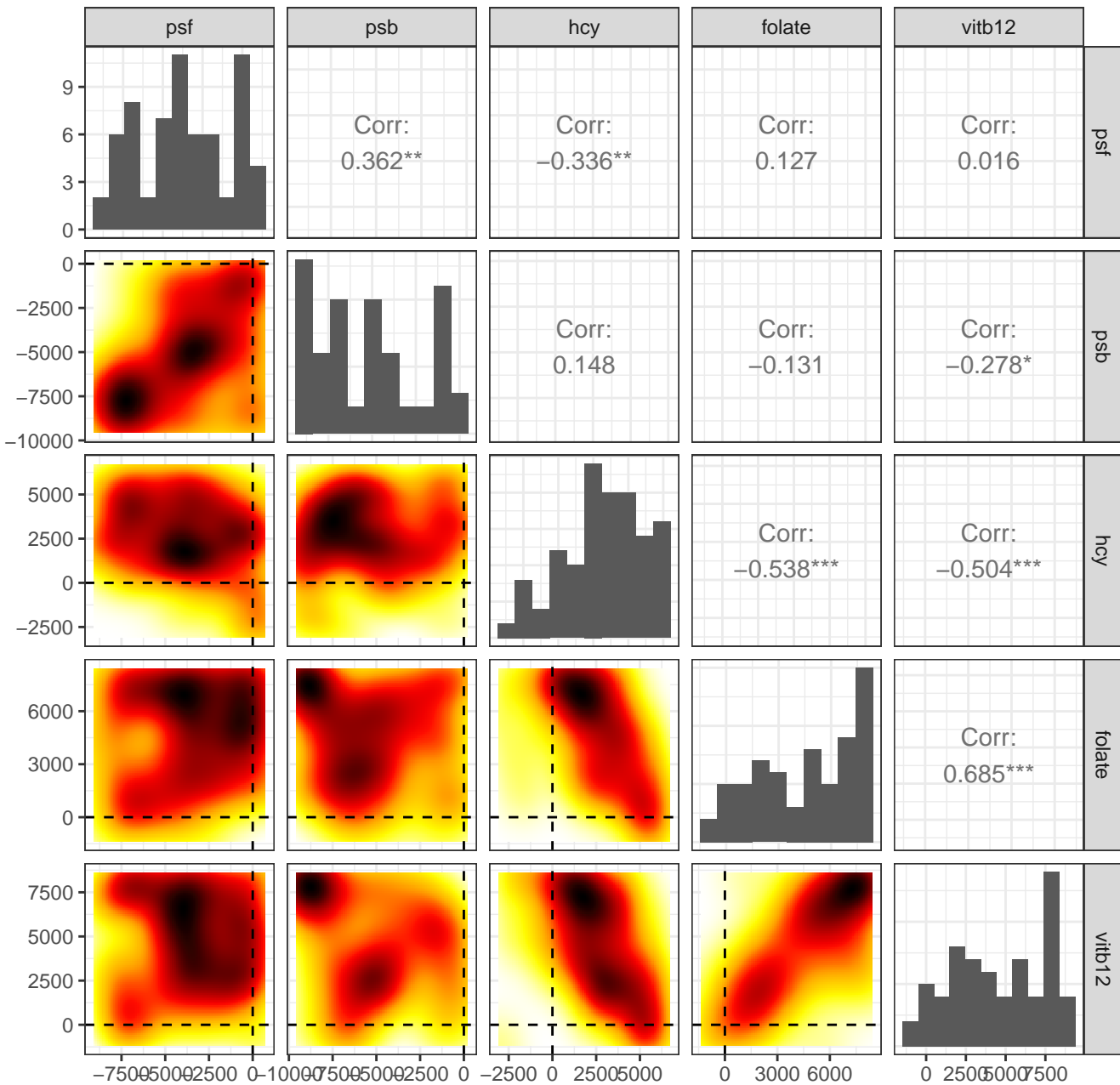
L13a-mediated translational silencing of Ceruloplasmin expression



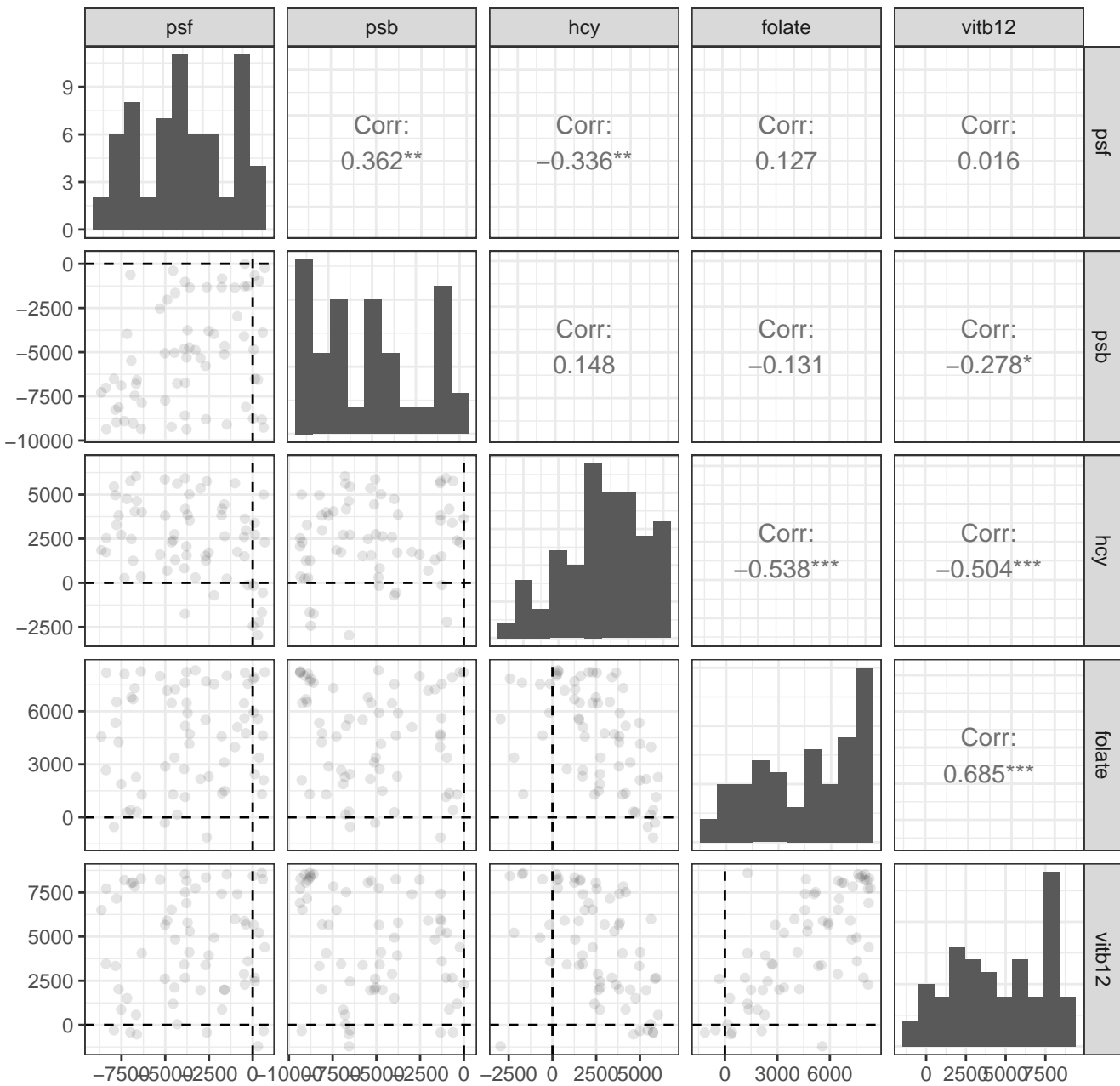
L13a-mediated translational silencing of Ceruloplasmin



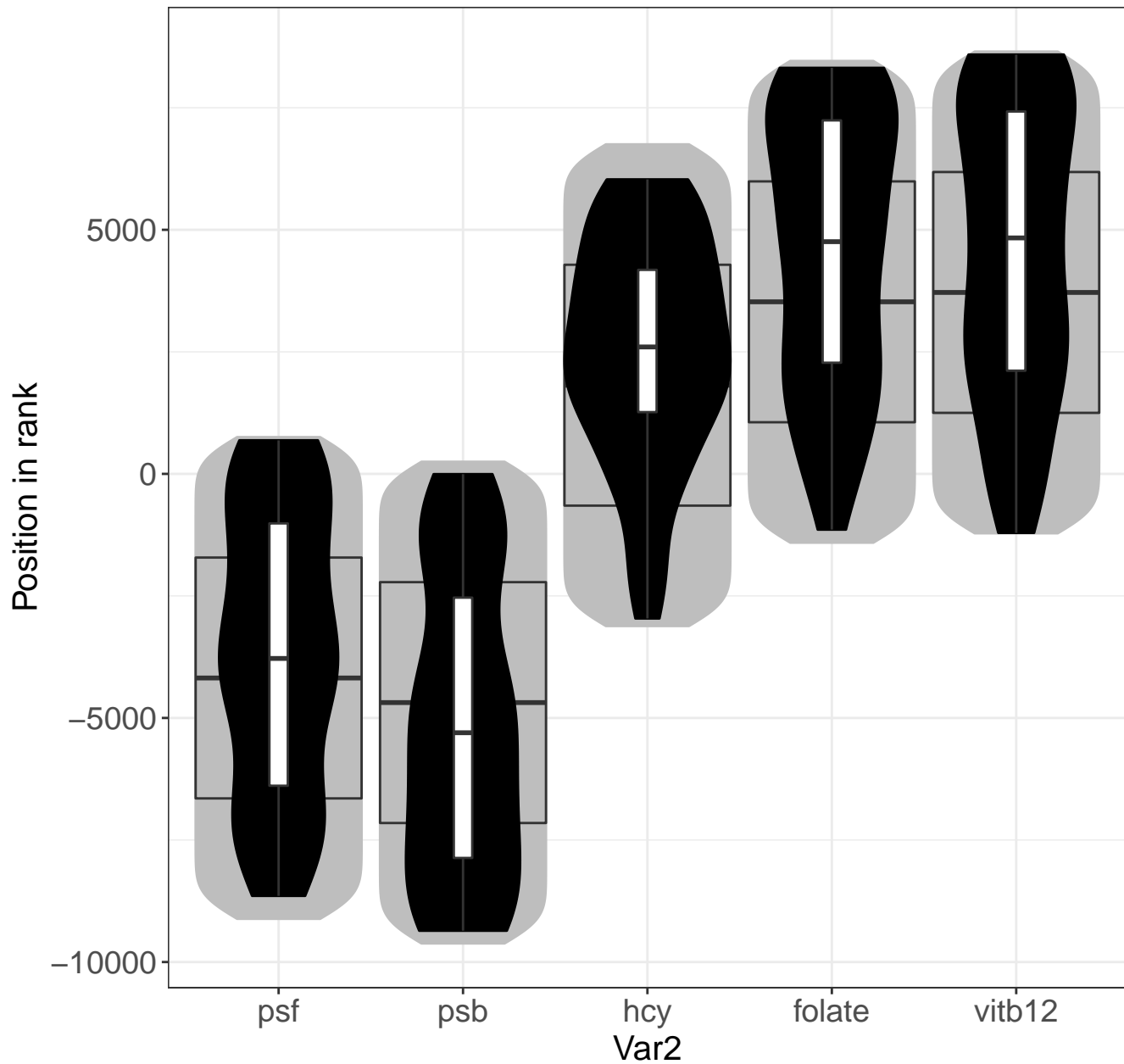
Viral mRNA Translation



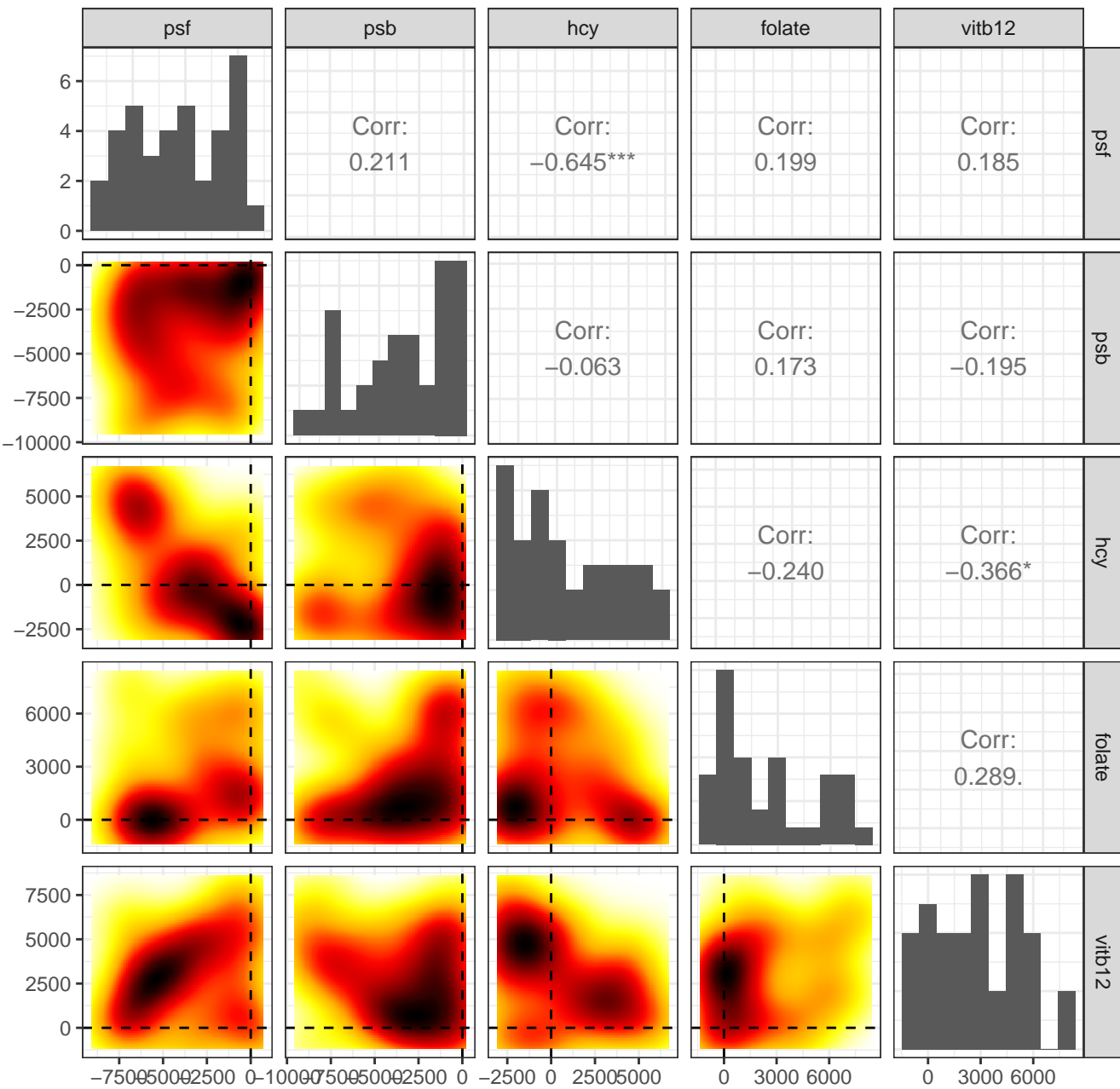
Viral mRNA Translation



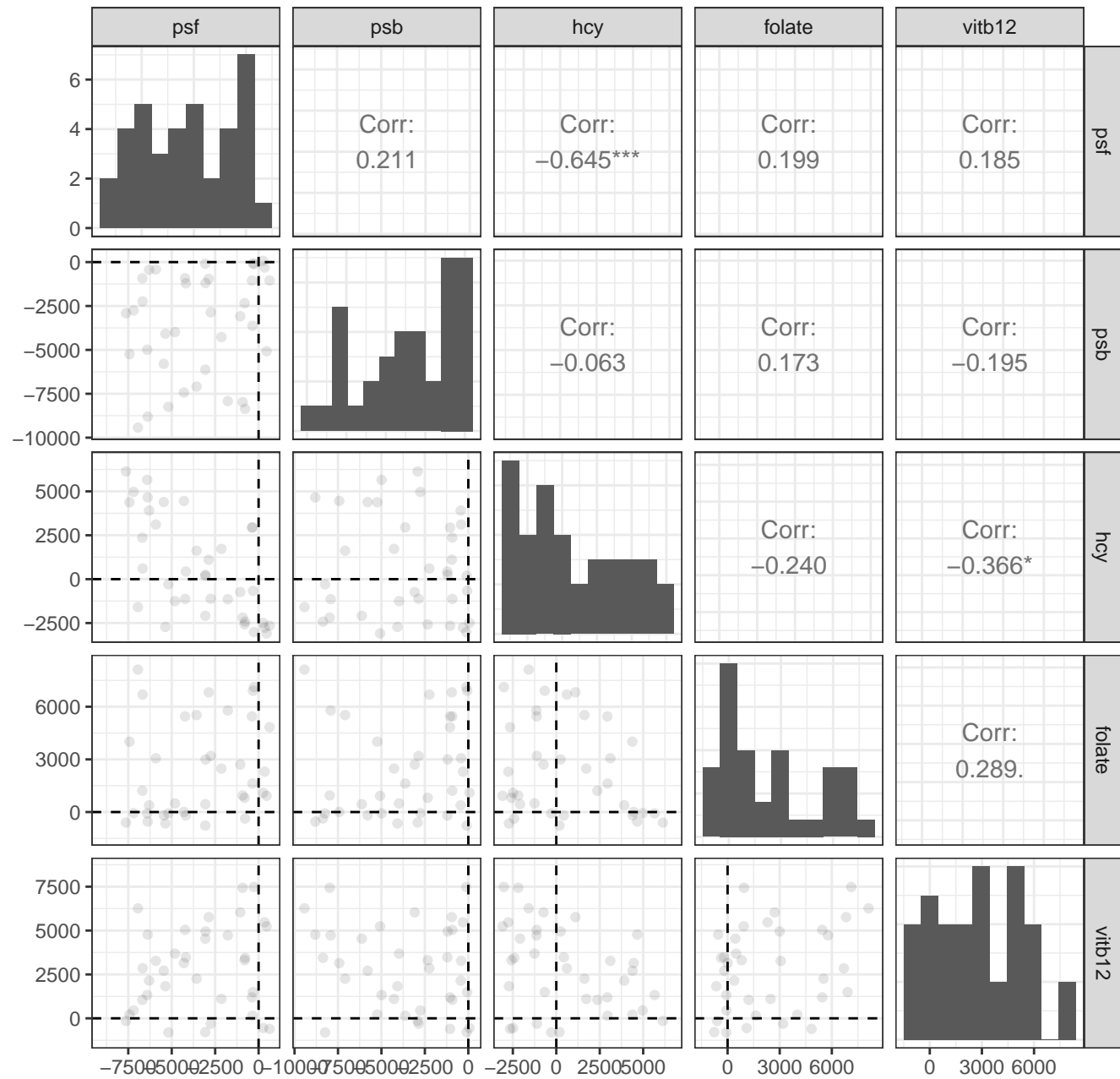
Viral mRNA Translation



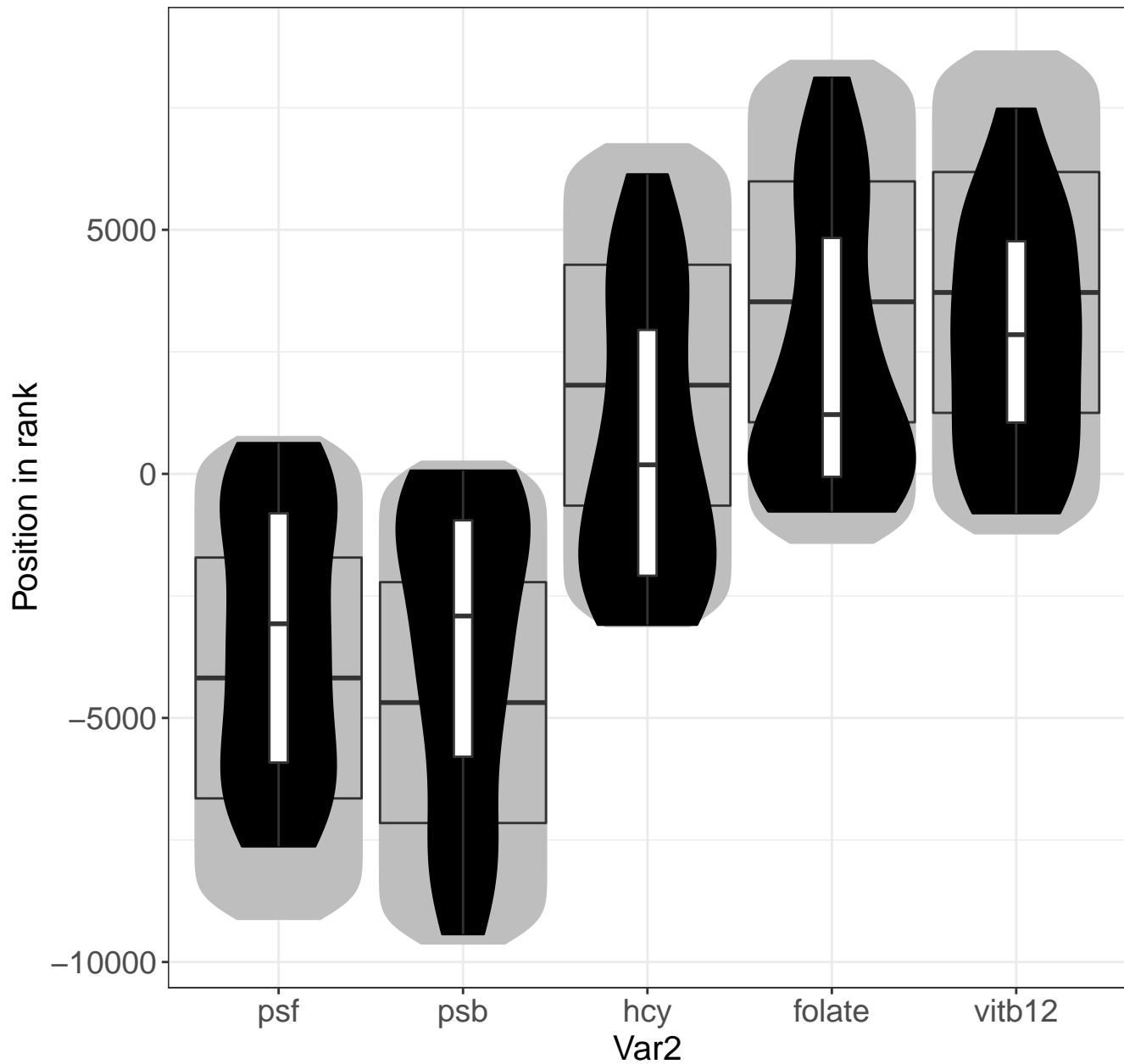
Post NMDA receptor activation events



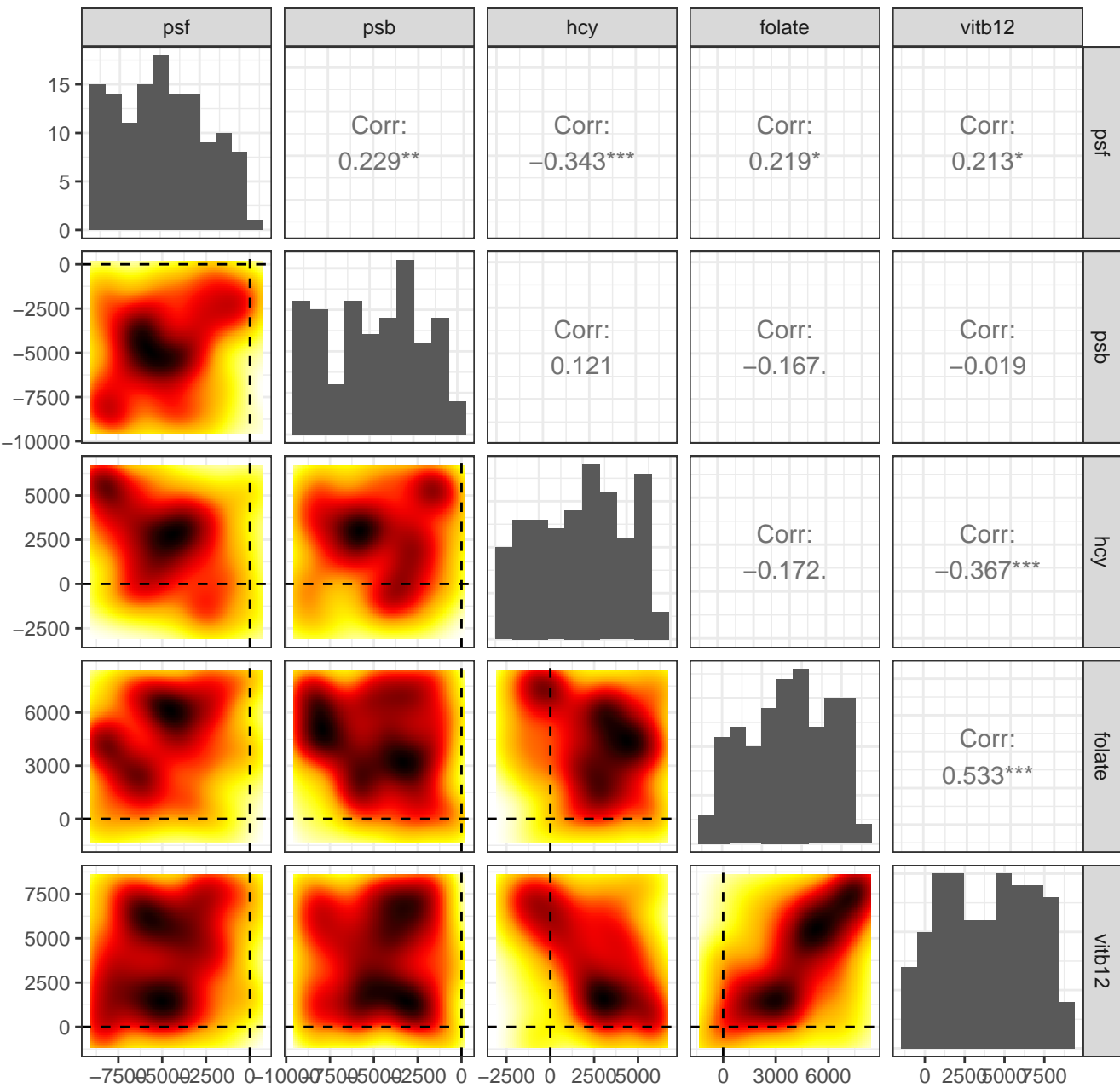
Post NMDA receptor activation events



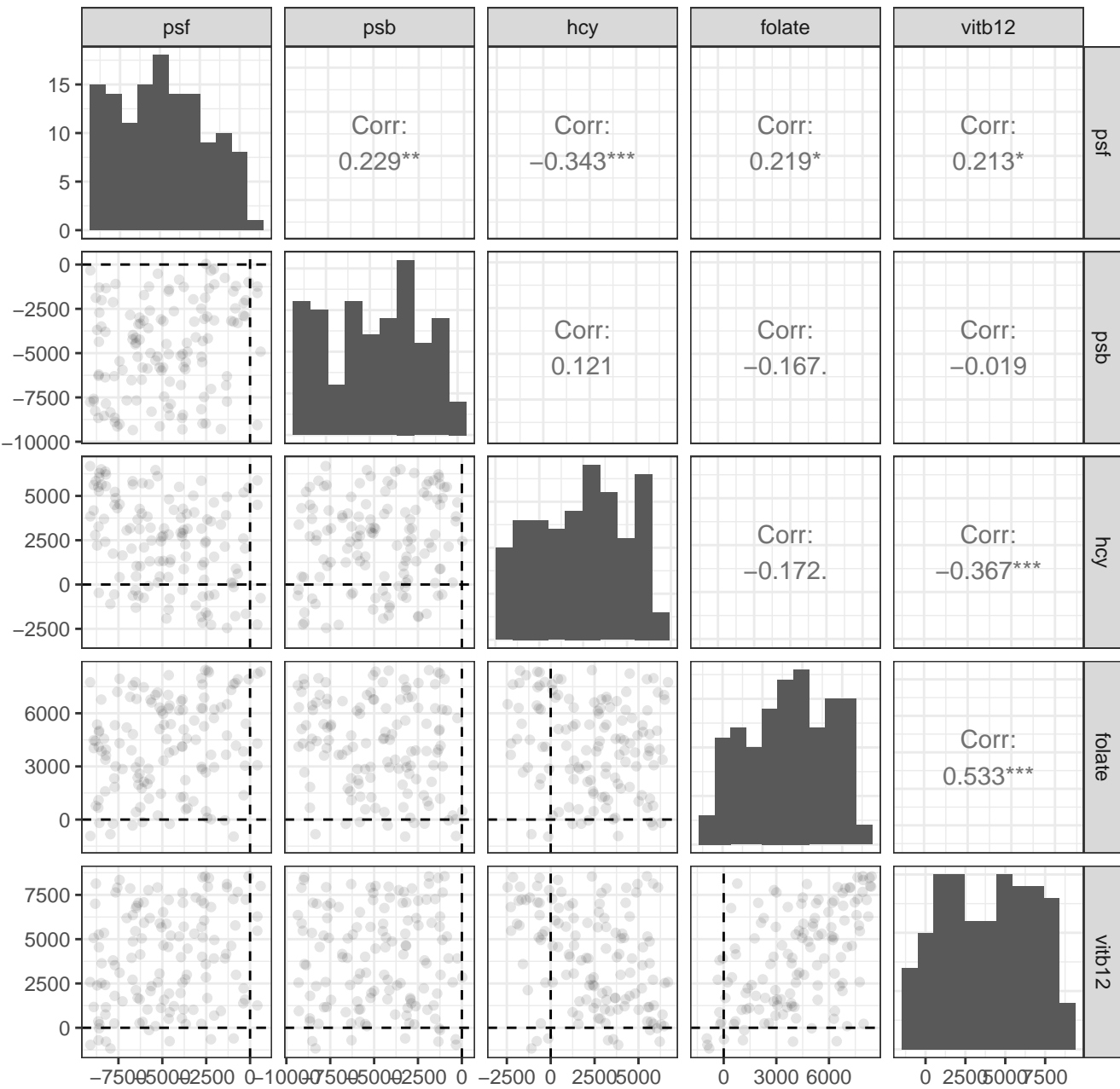
Post NMDA receptor activation events



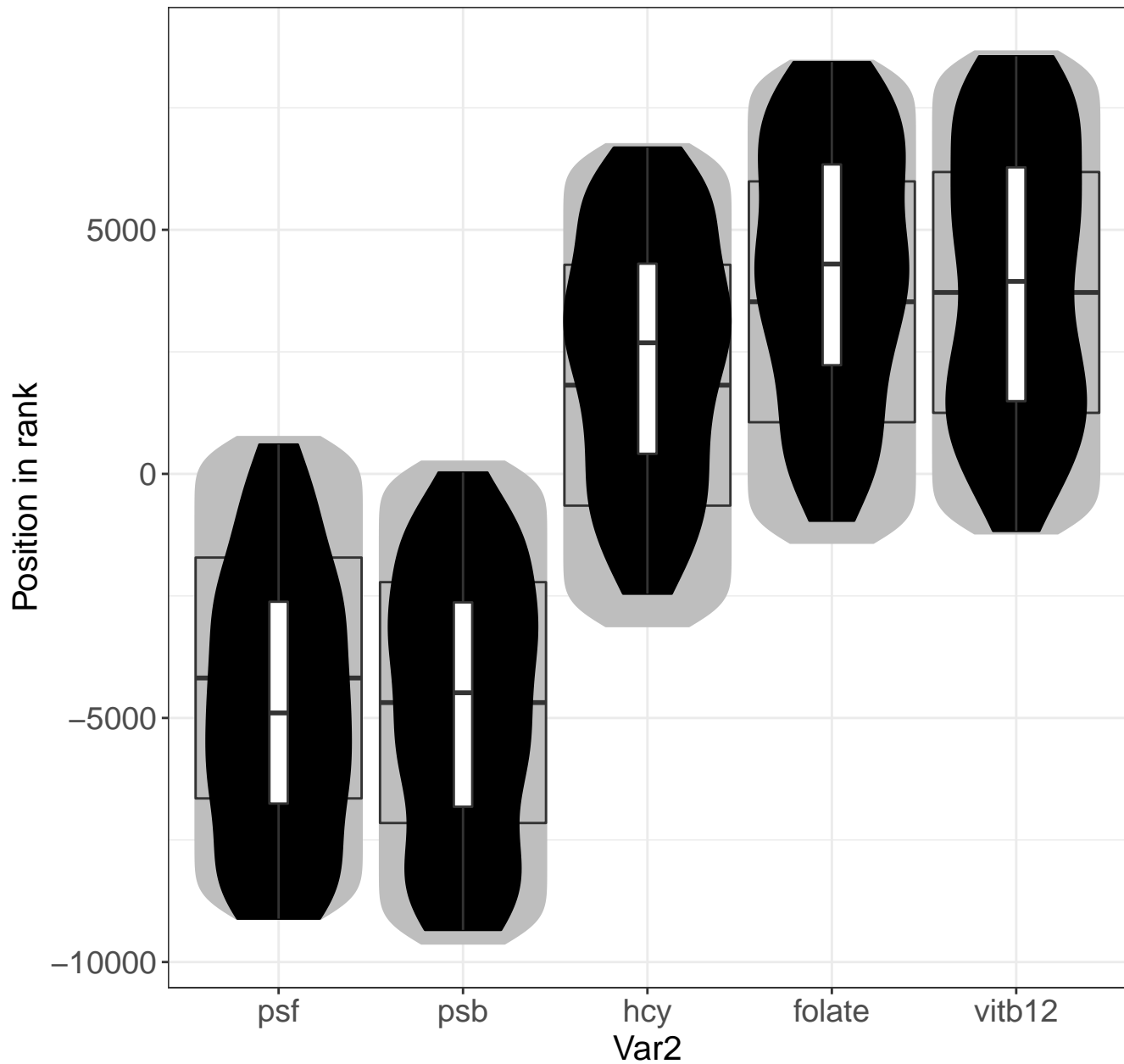
mRNA Splicing – Major Pathway



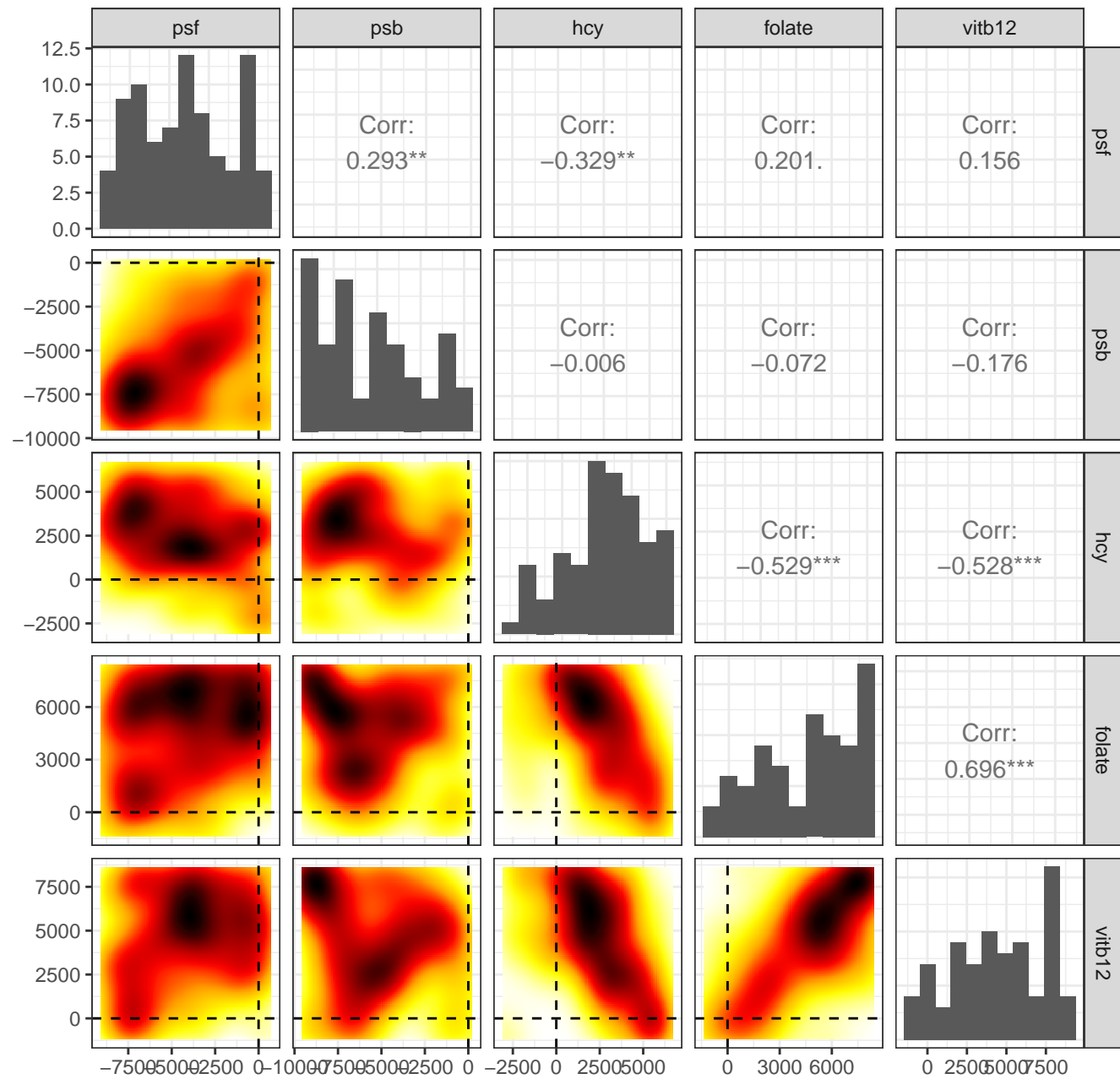
mRNA Splicing – Major Pathway



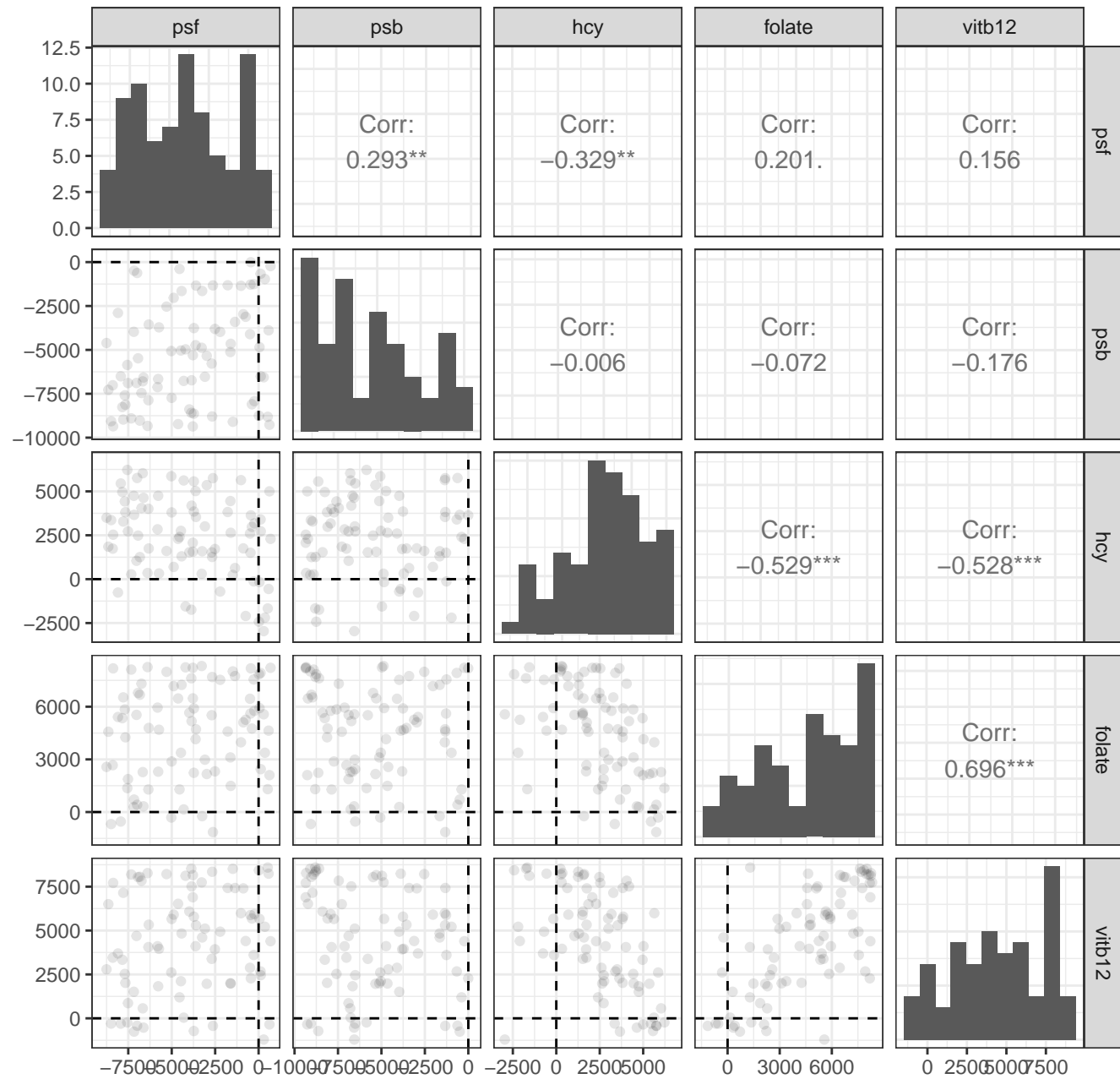
mRNA Splicing – Major Pathway



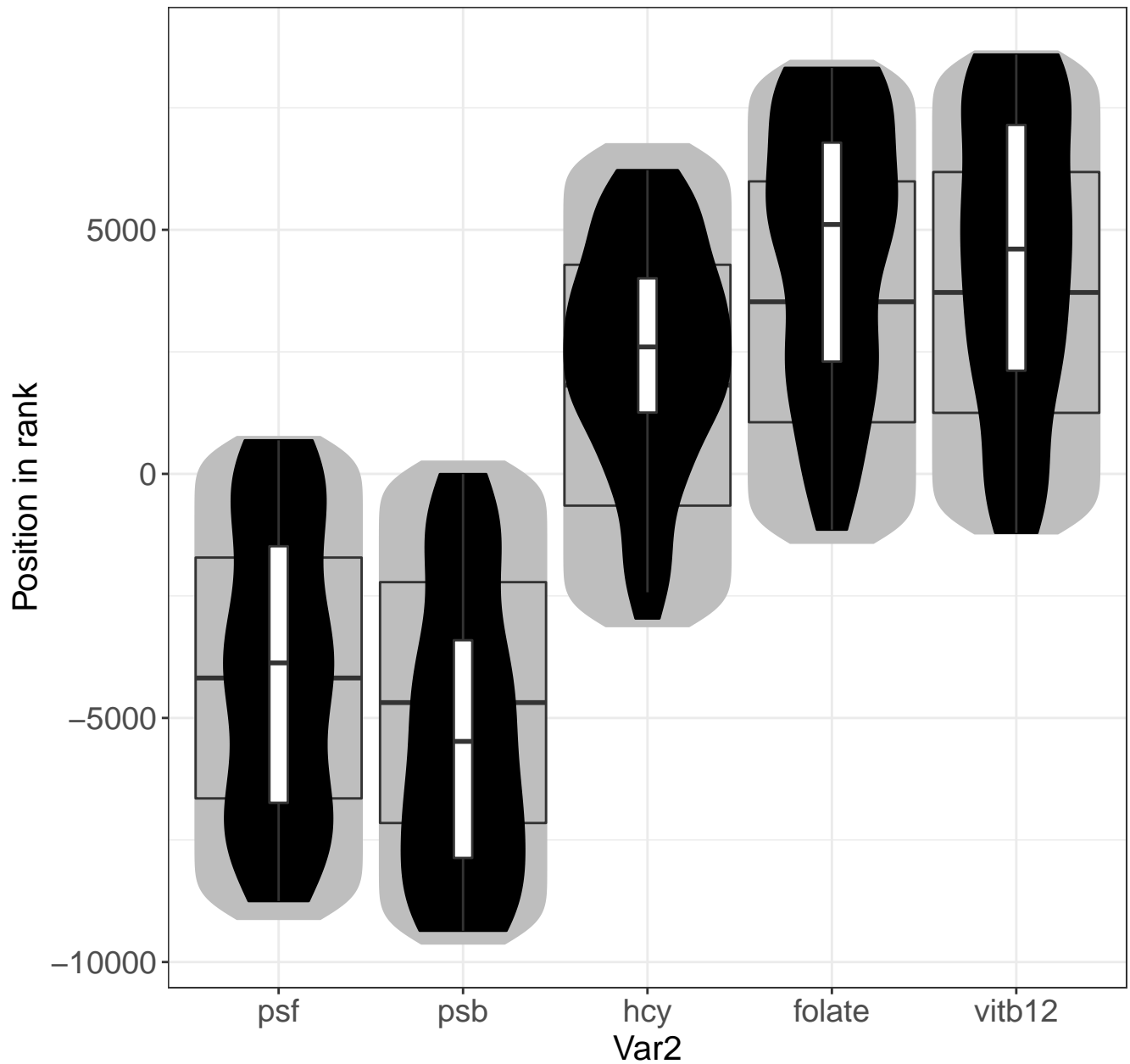
SRP-dependent cotranslational protein targeting to membrane



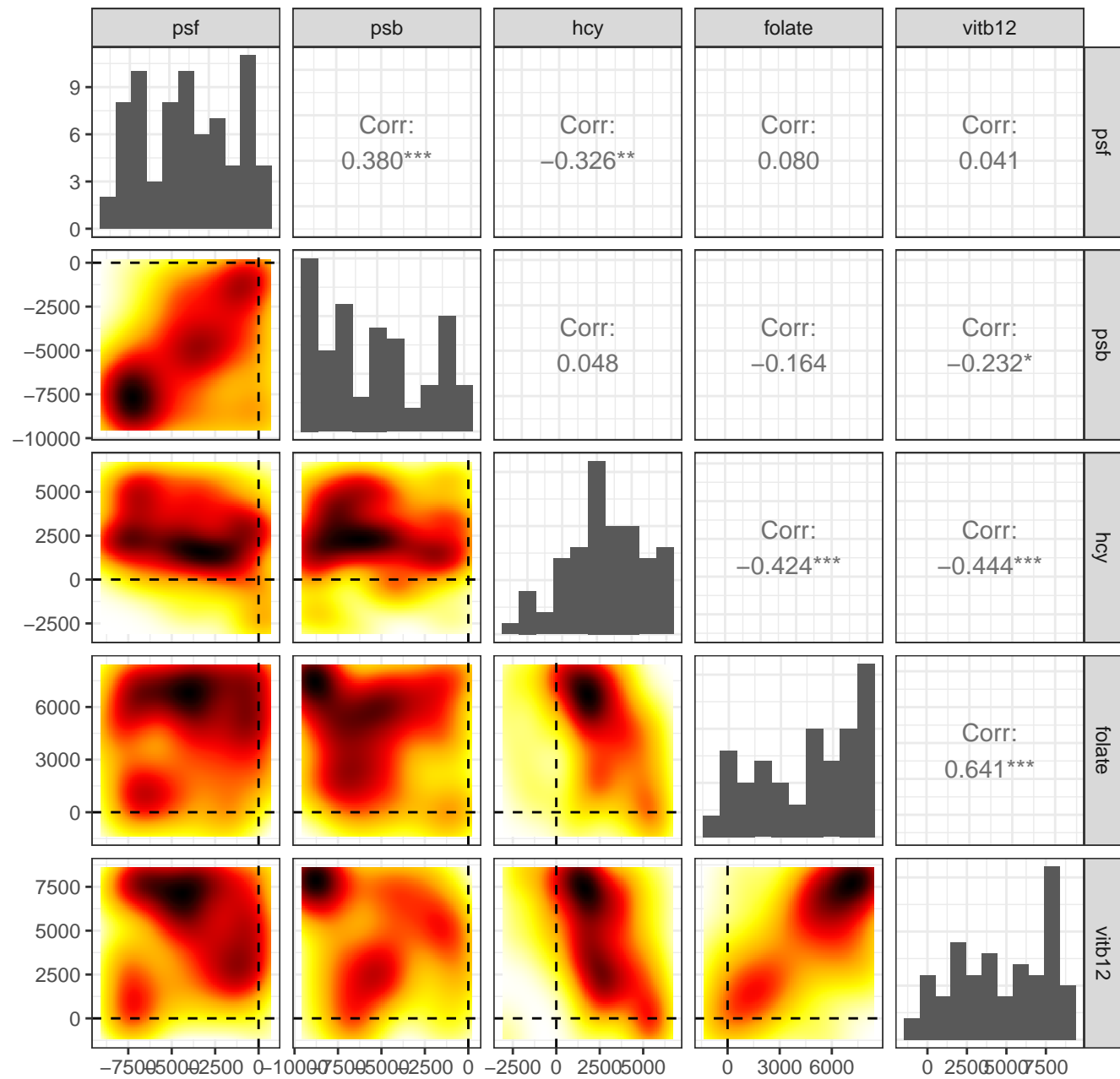
SRP-dependent cotranslational protein targeting to membrane



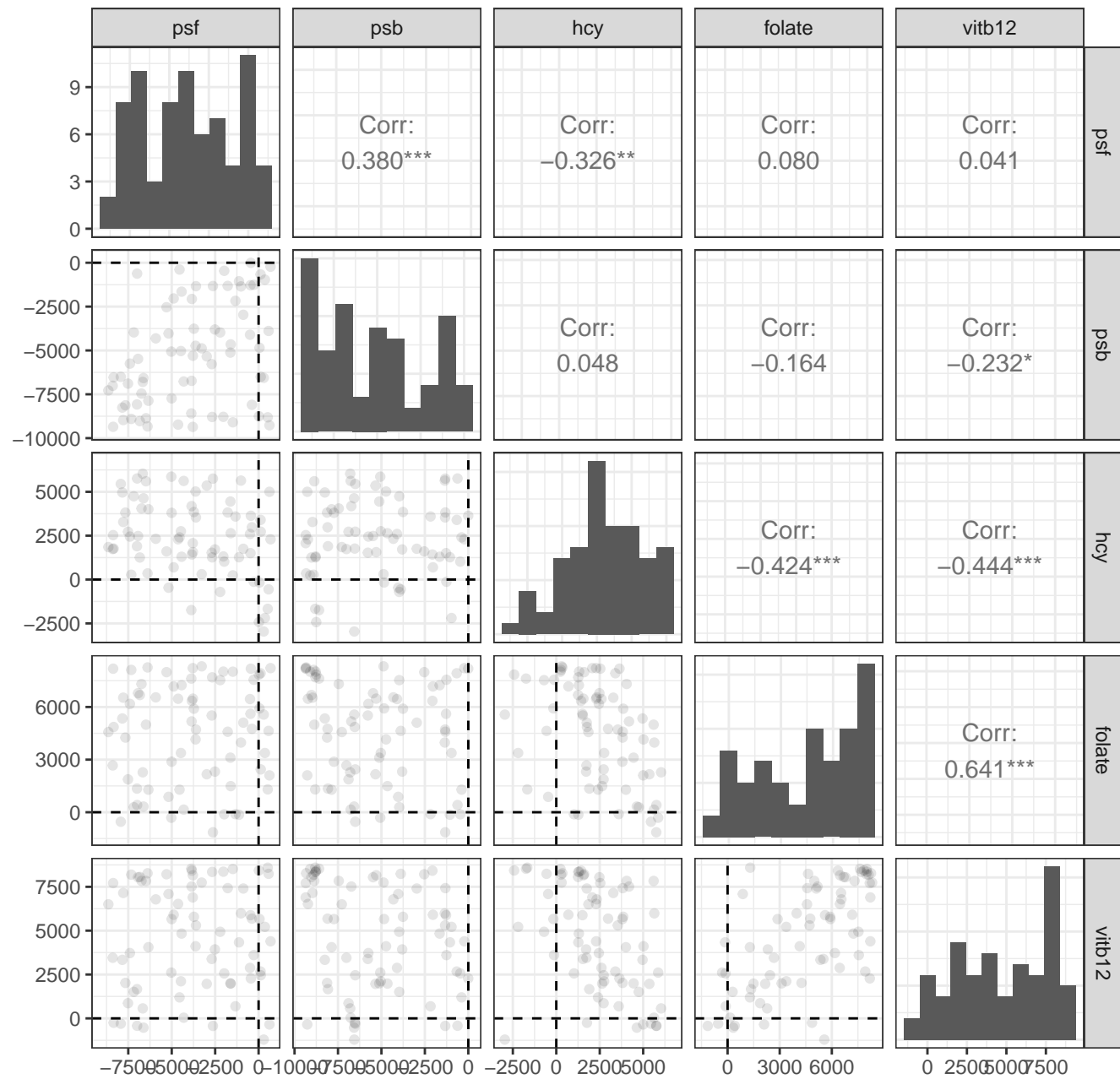
SRP-dependent cotranslational protein targeting



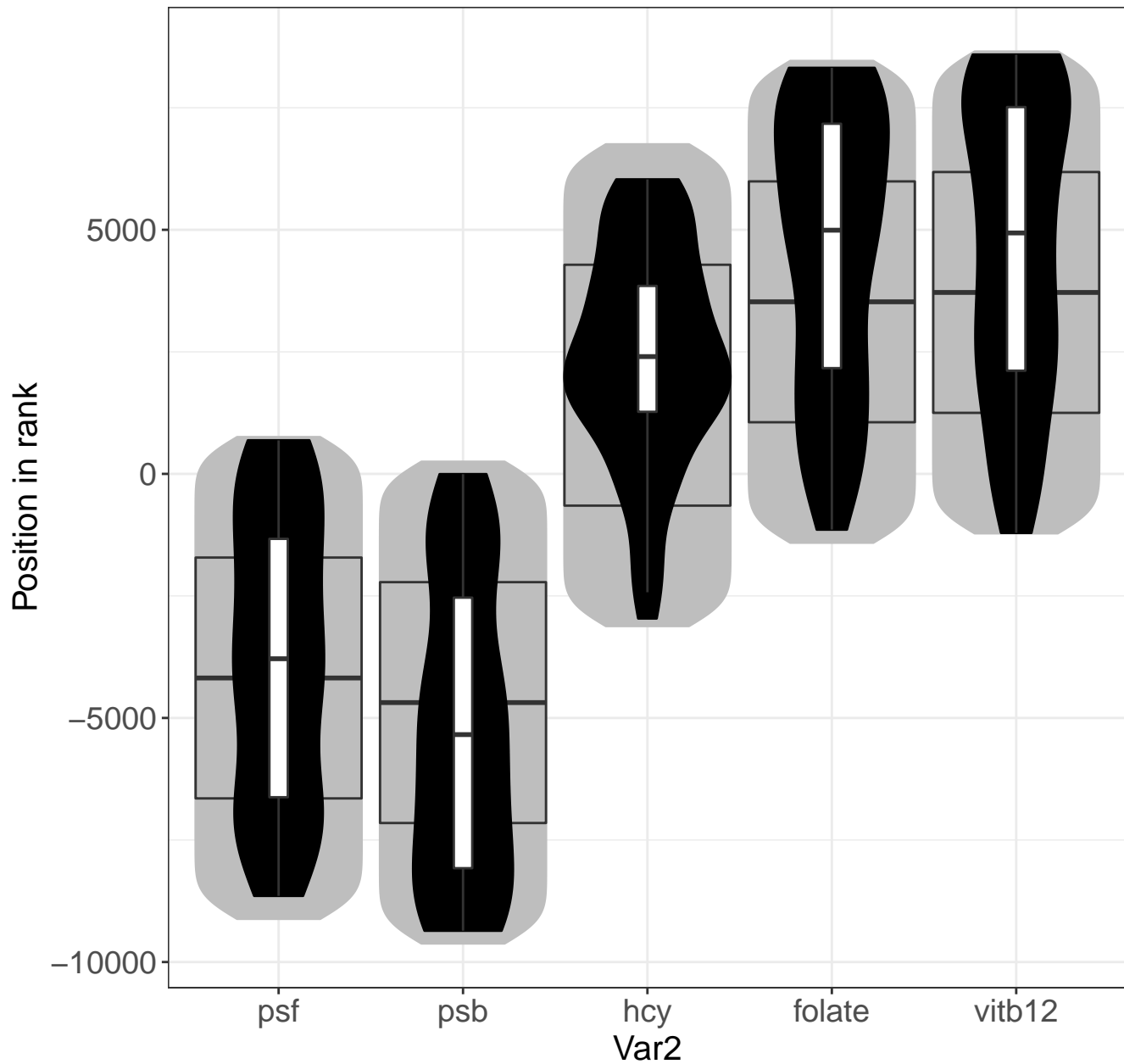
Formation of a pool of free 40S subunits



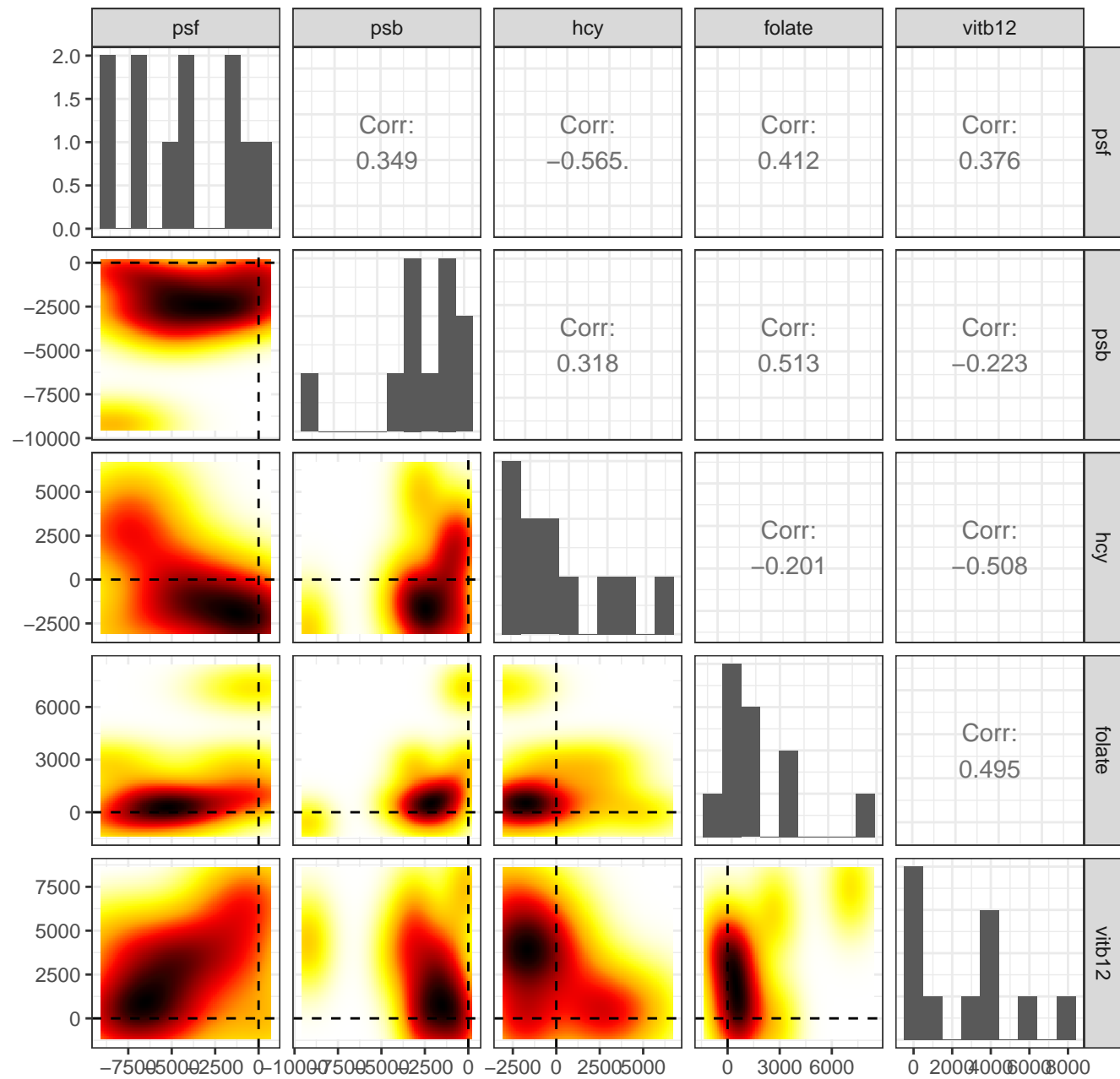
Formation of a pool of free 40S subunits



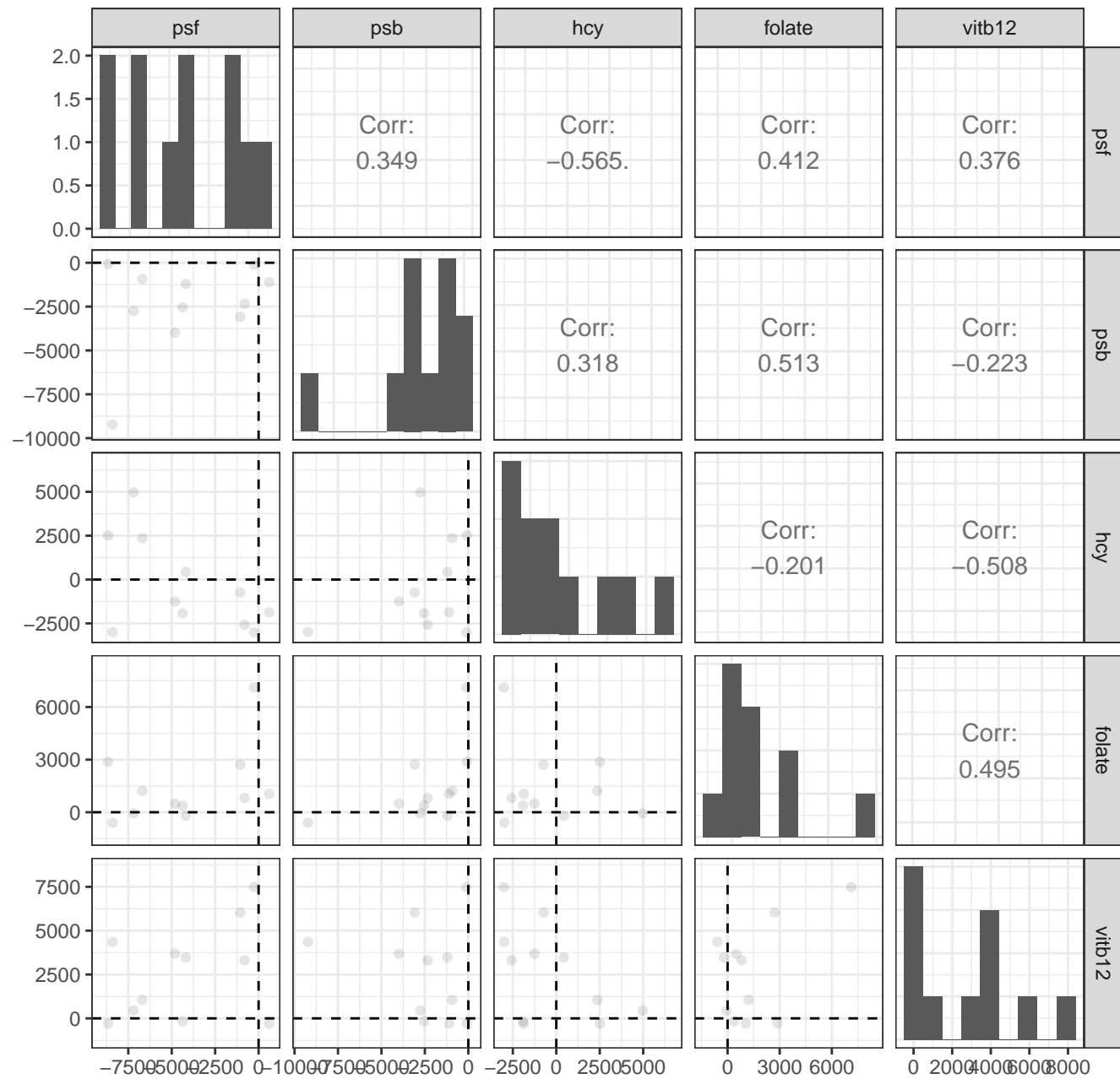
Formation of a pool of free 40S subunits



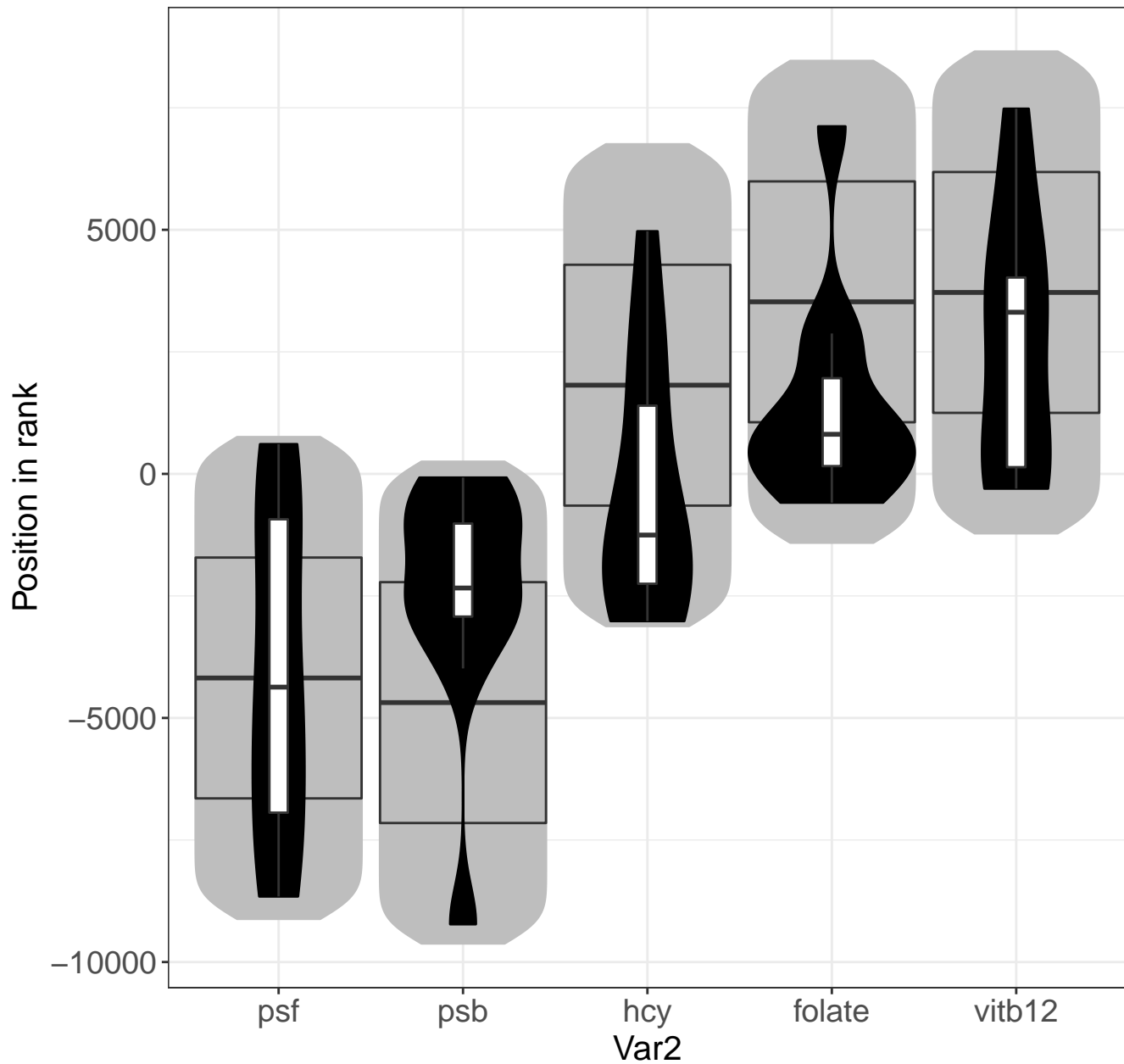
PKA-mediated phosphorylation of CREB



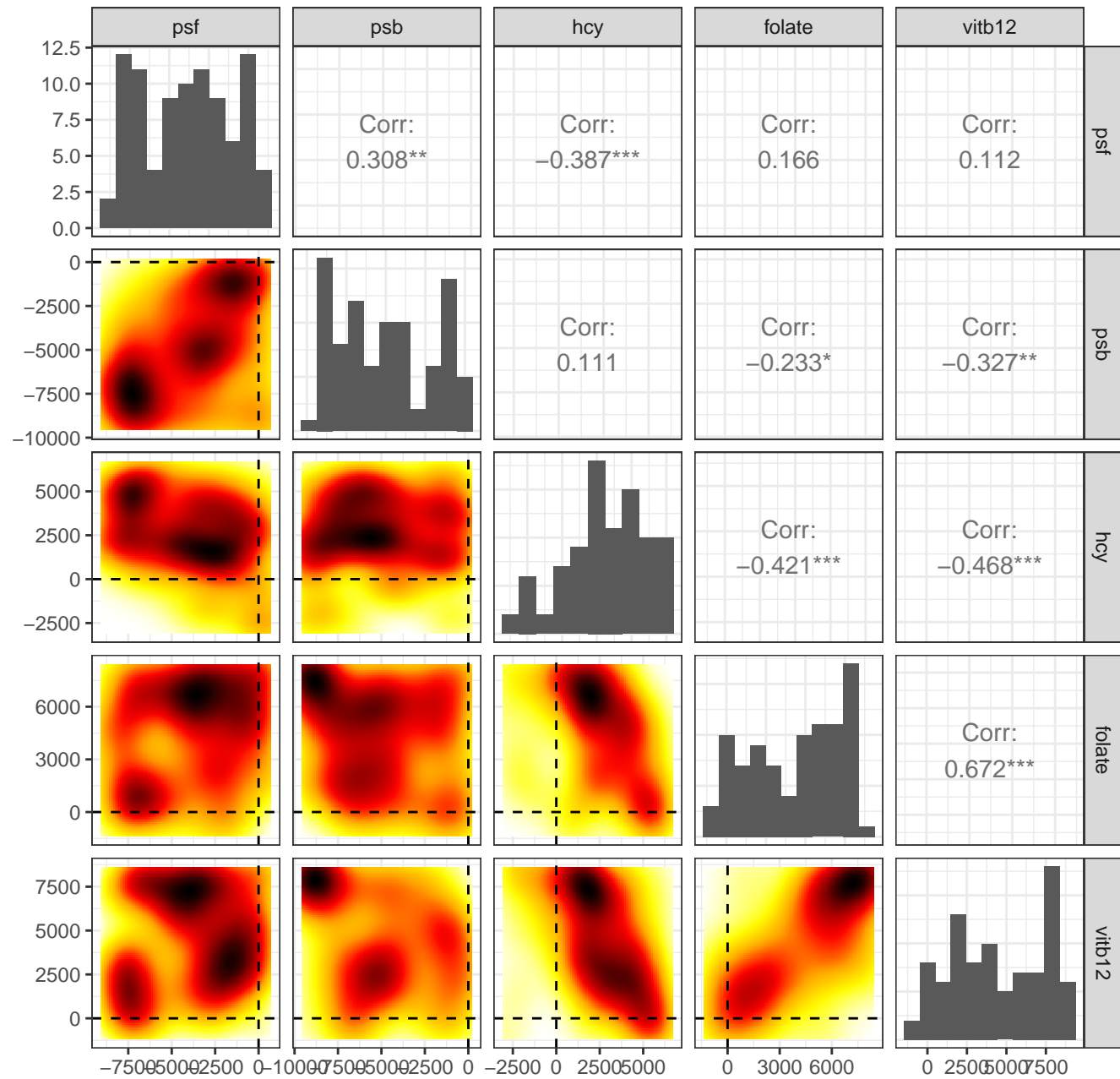
PKA-mediated phosphorylation of CREB



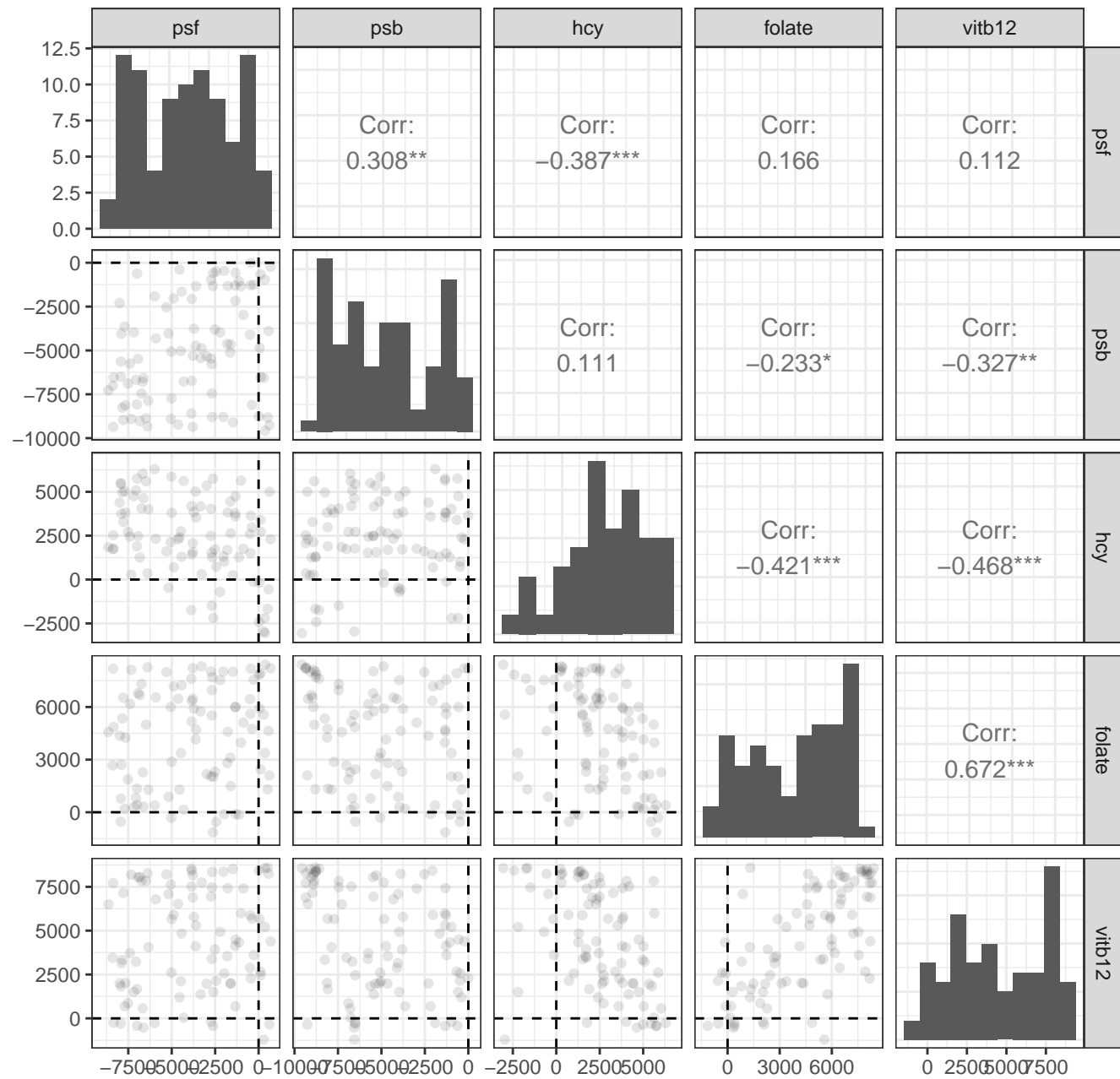
PKA-mediated phosphorylation of CREB



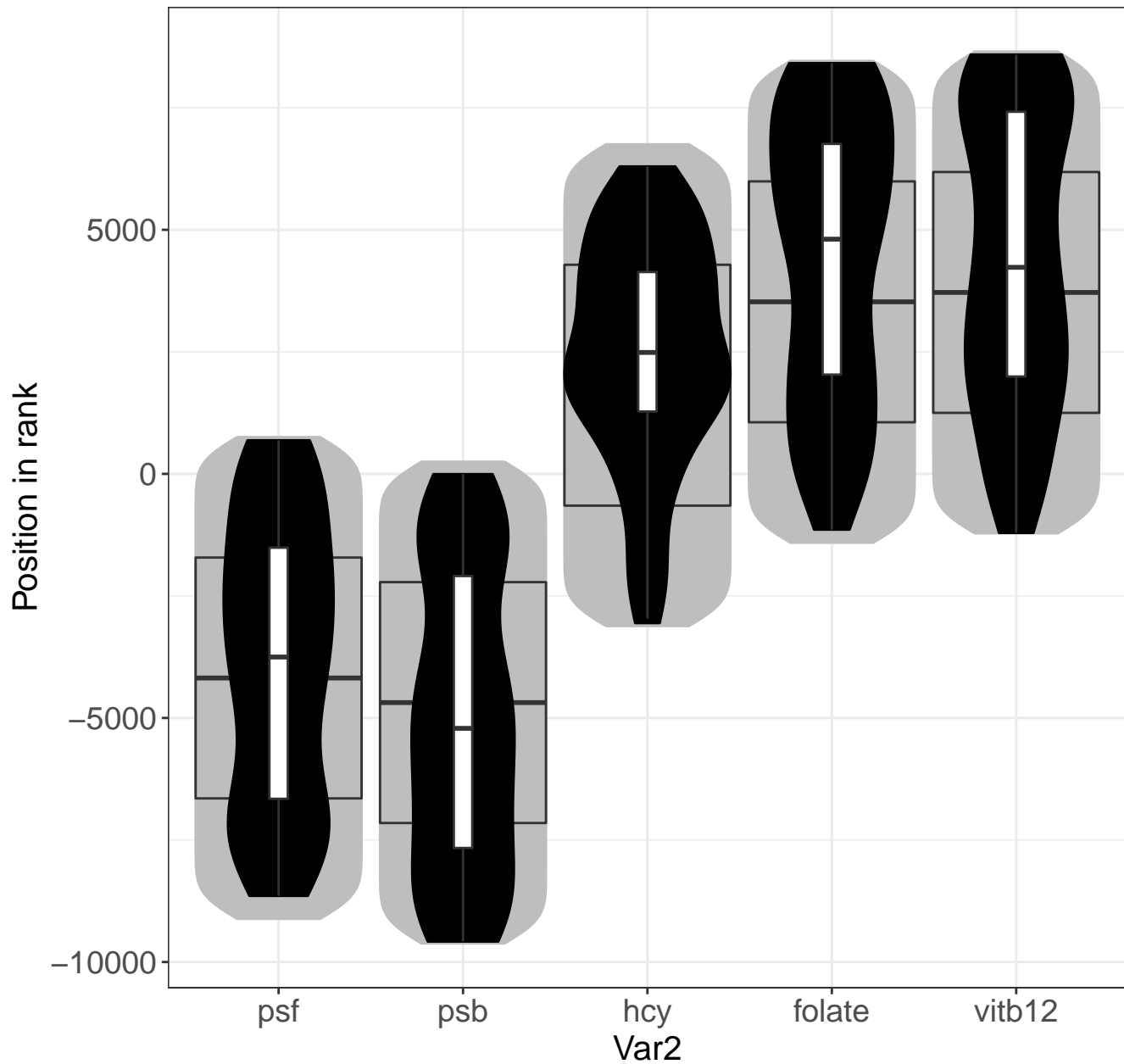
Cap-dependent Translation Initiation



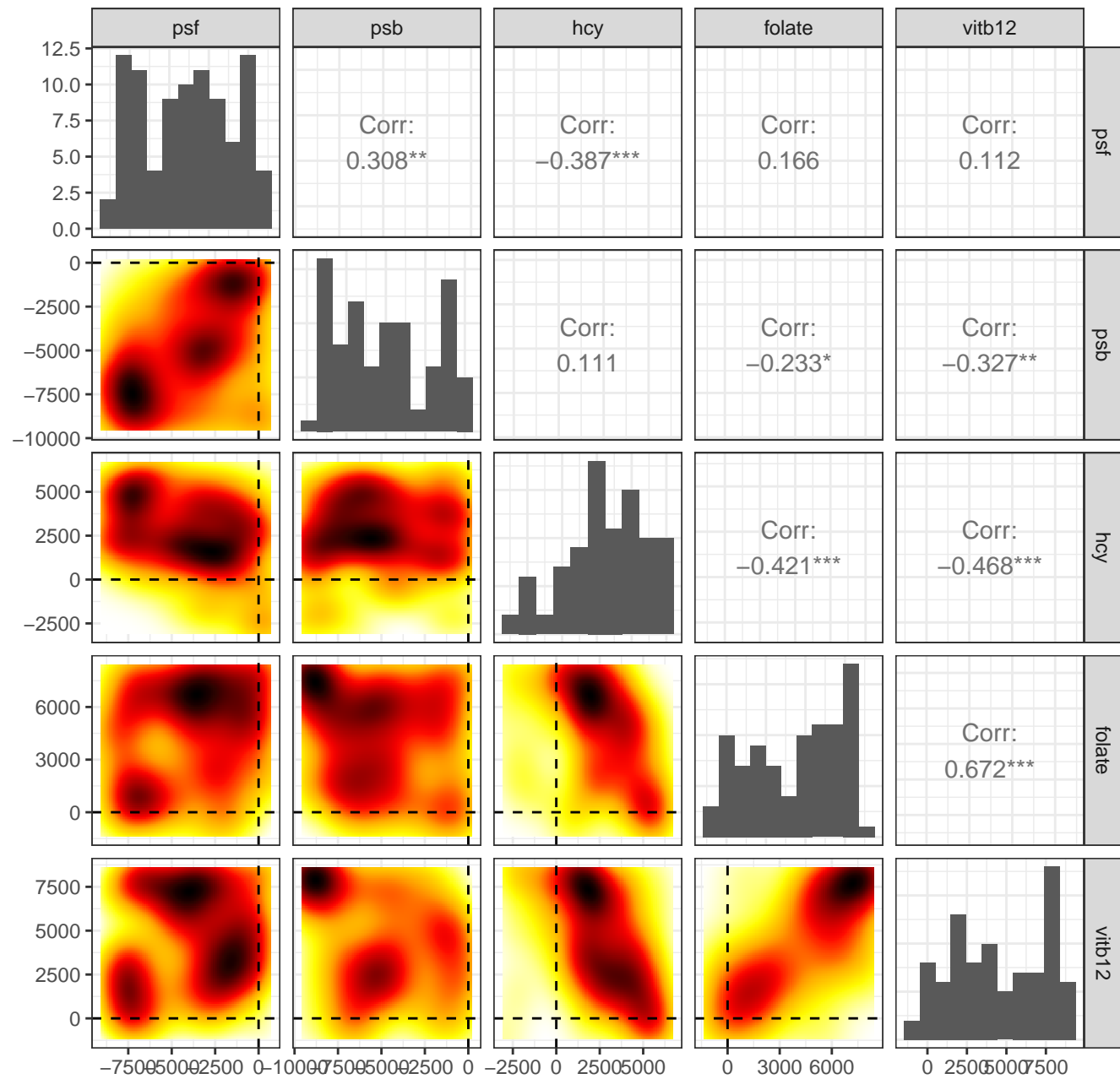
Cap-dependent Translation Initiation



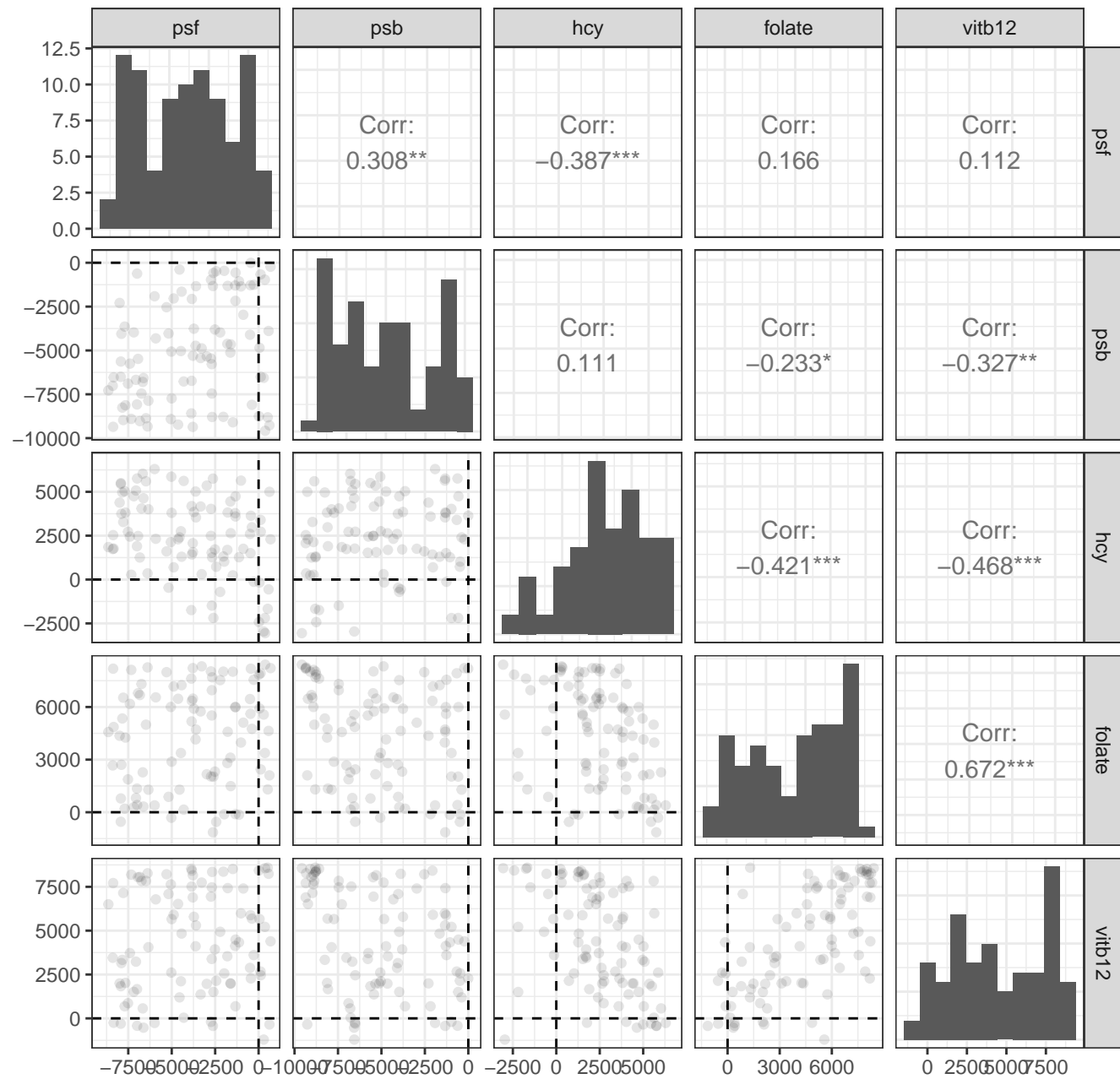
Cap-dependent Translation Initiation



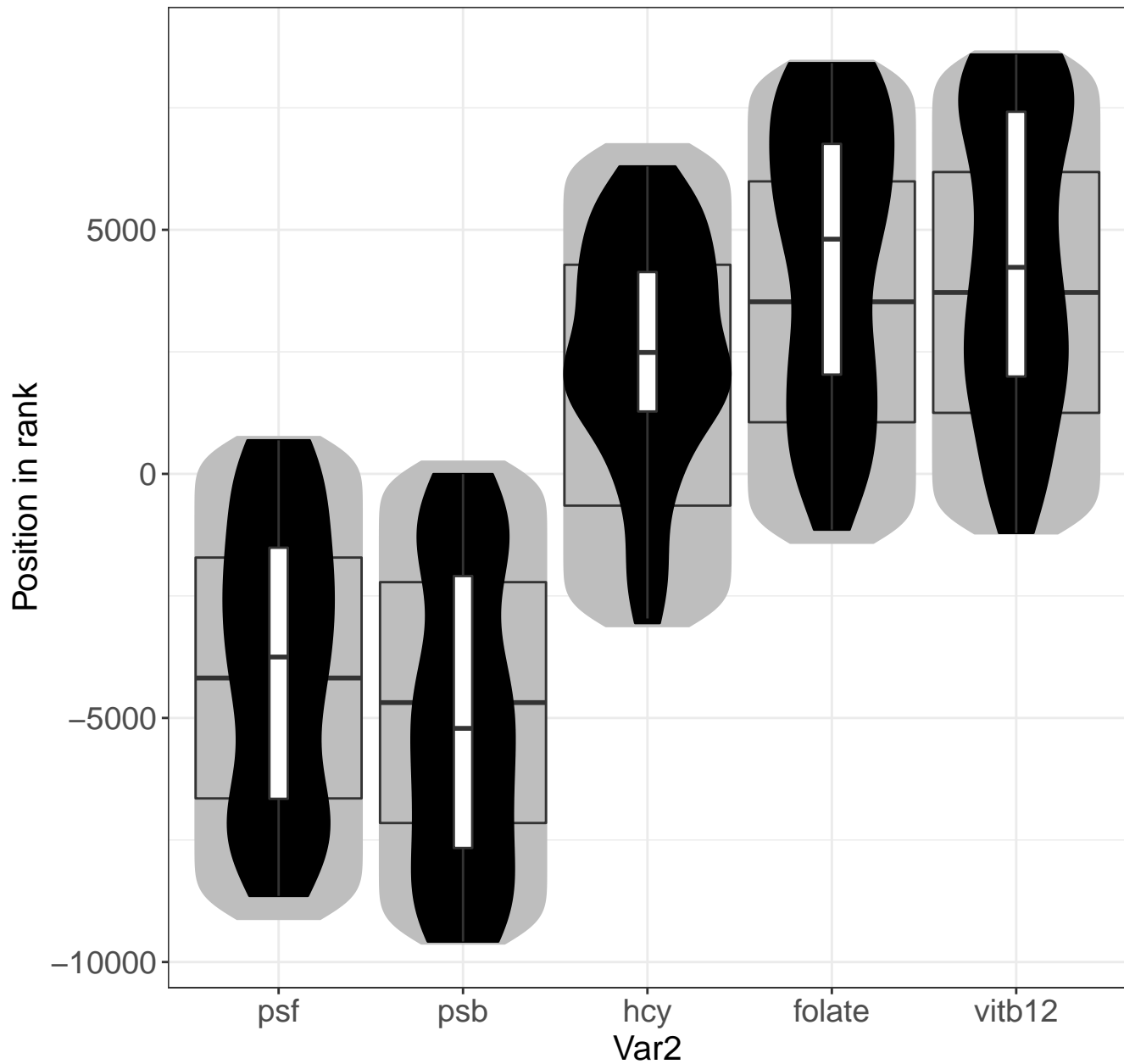
Eukaryotic Translation Initiation



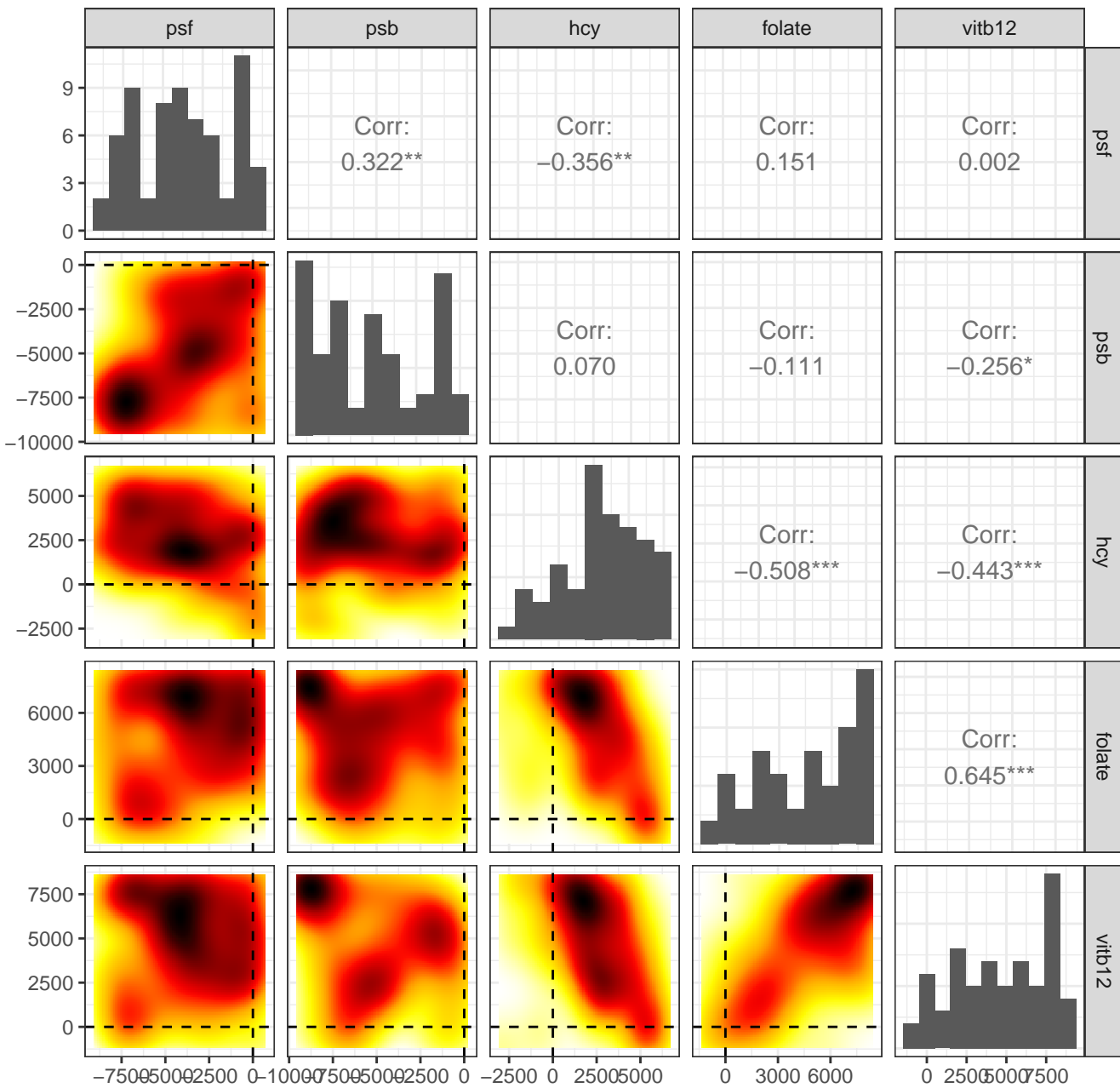
Eukaryotic Translation Initiation



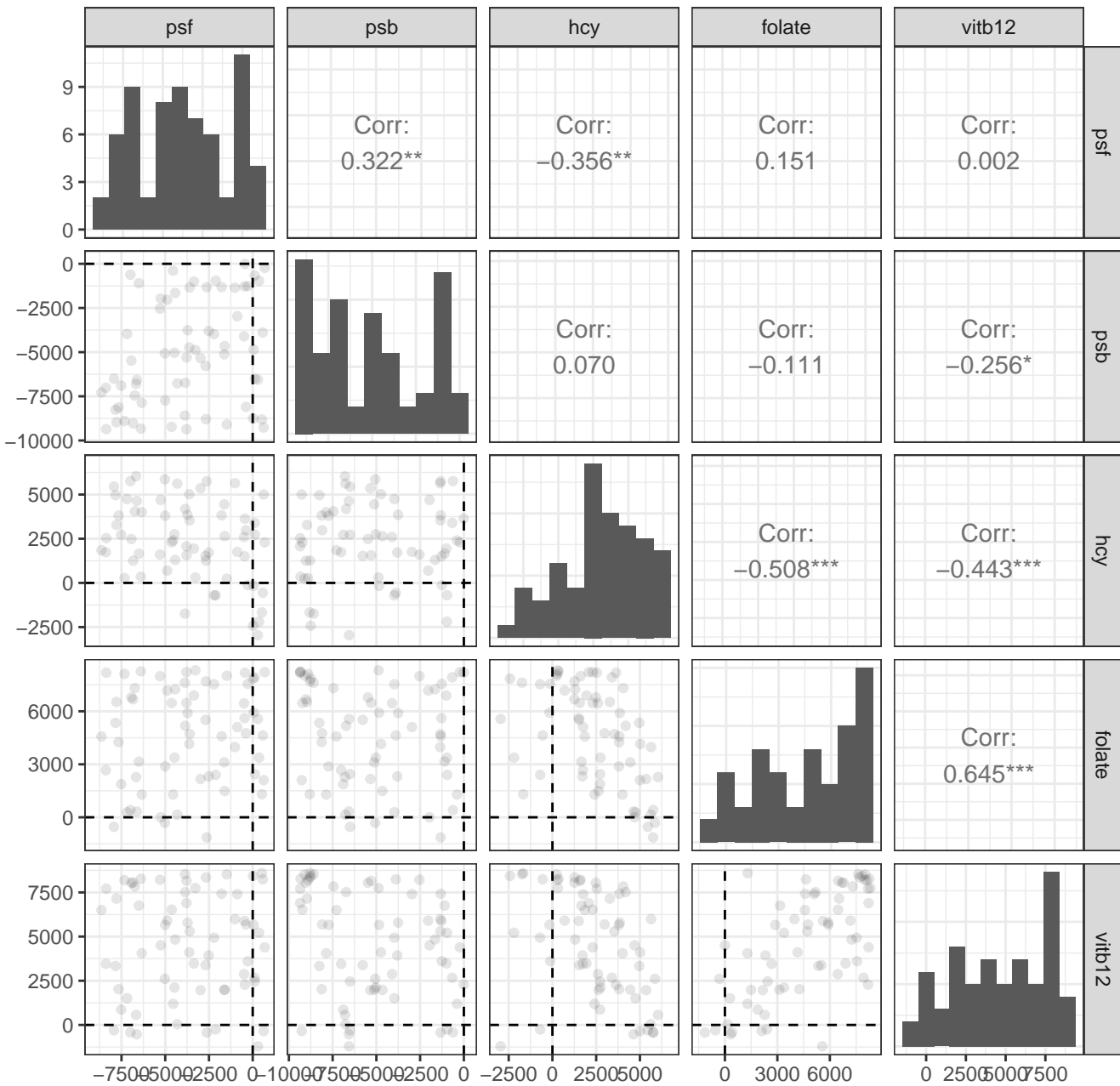
Eukaryotic Translation Initiation



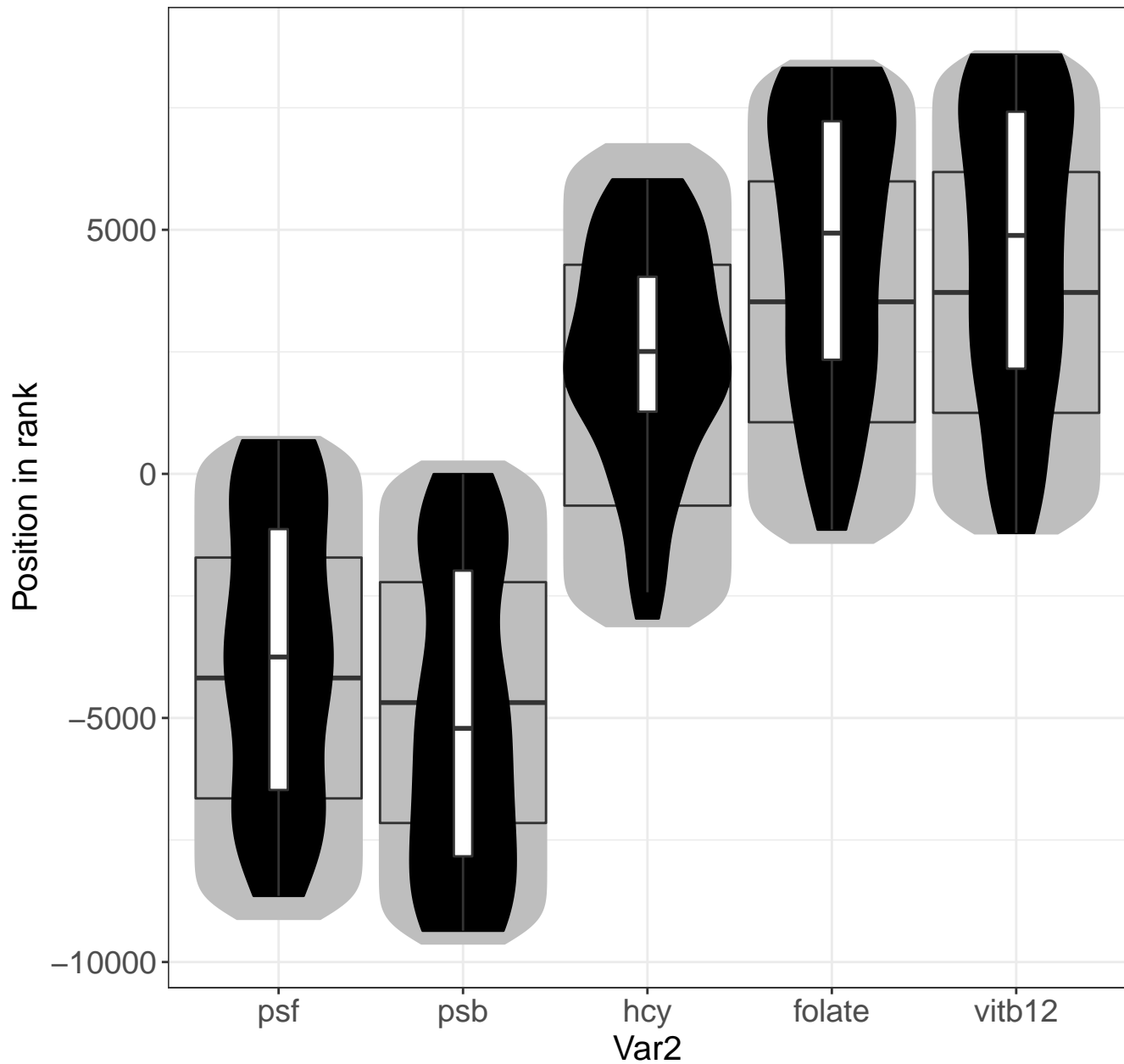
Eukaryotic Translation Termination



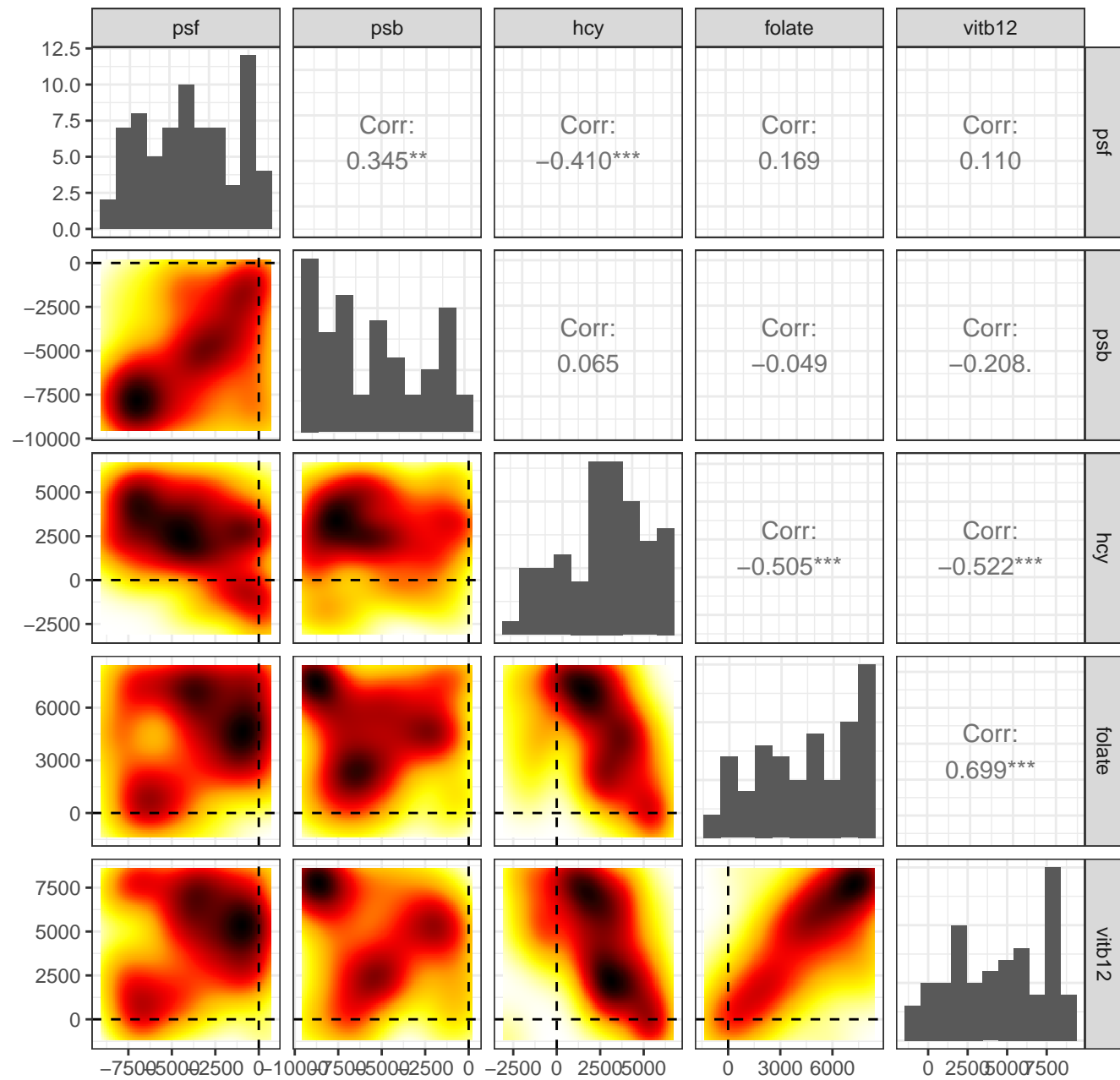
Eukaryotic Translation Termination



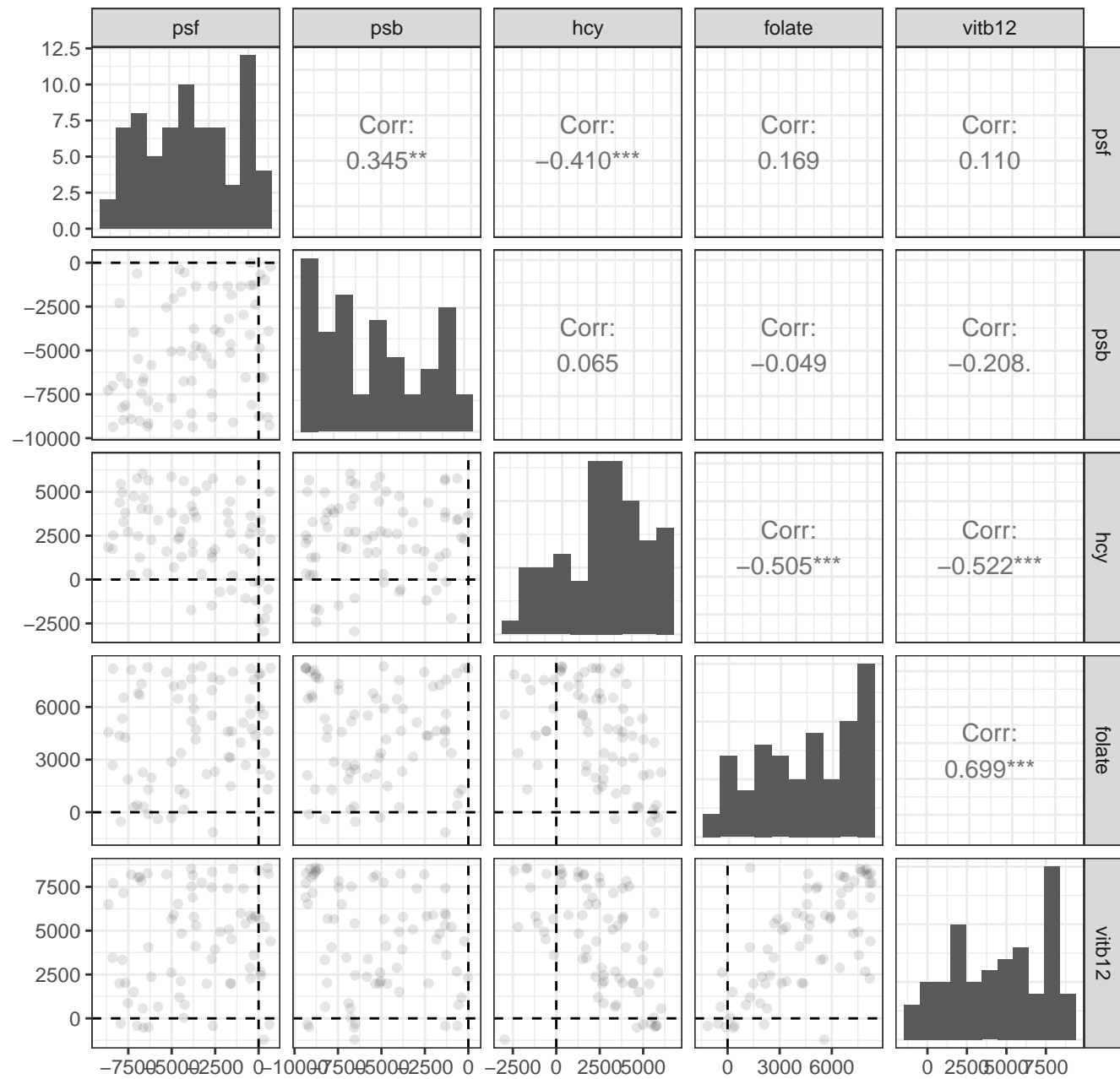
Eukaryotic Translation Termination



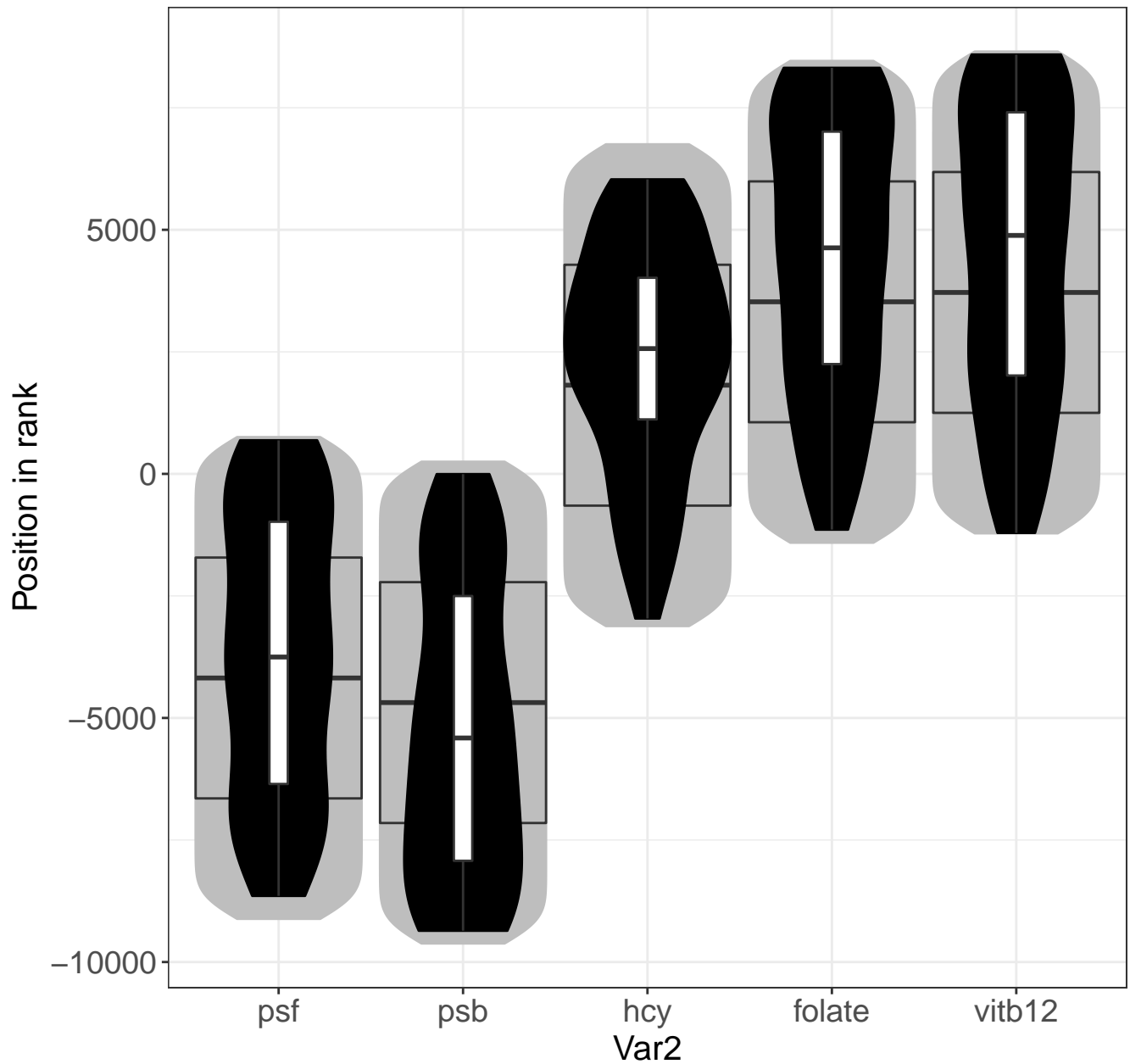
Response of EIF2AK4 (GCN2) to amino acid deficiency



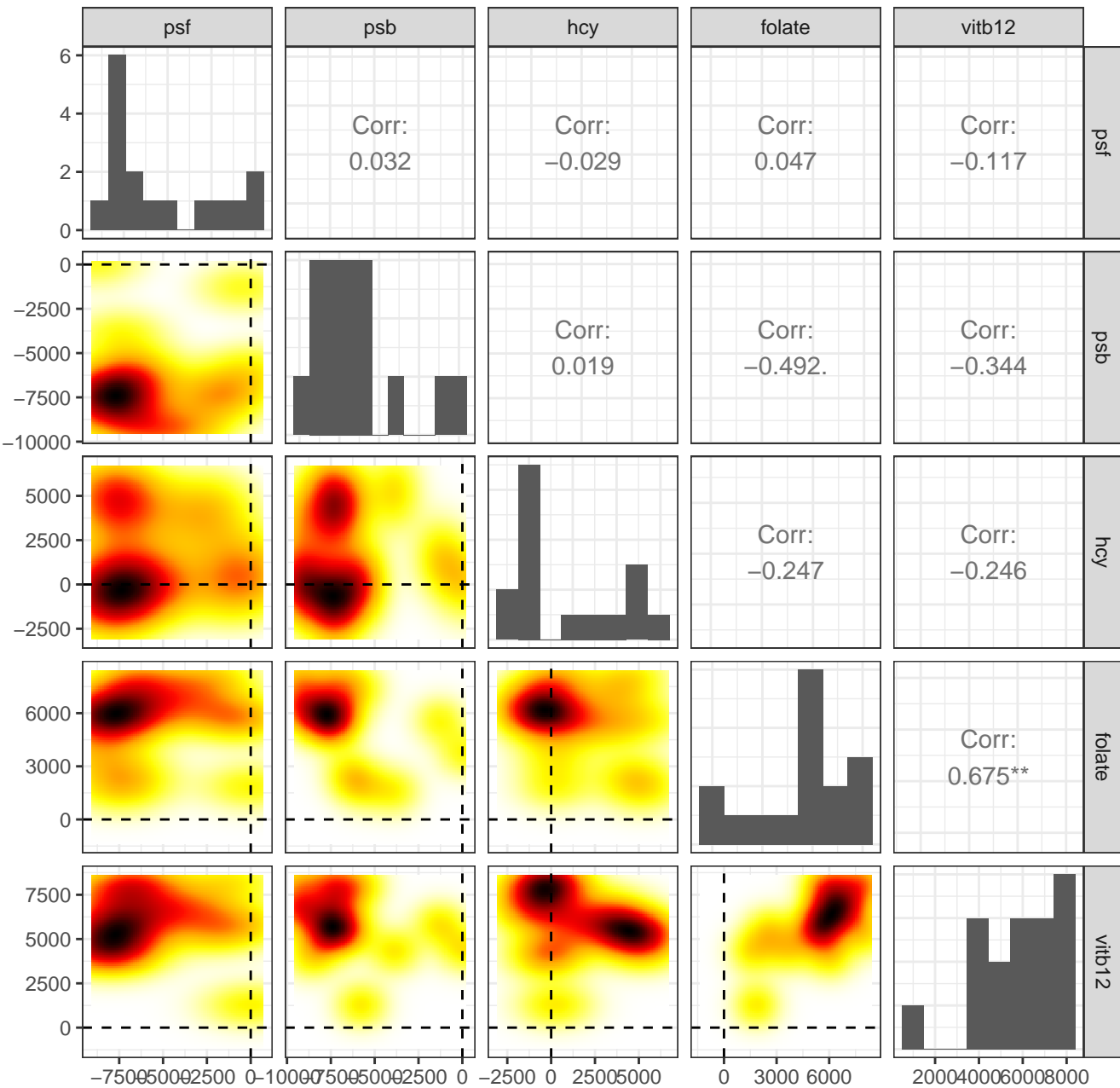
Response of EIF2AK4 (GCN2) to amino acid deficiency



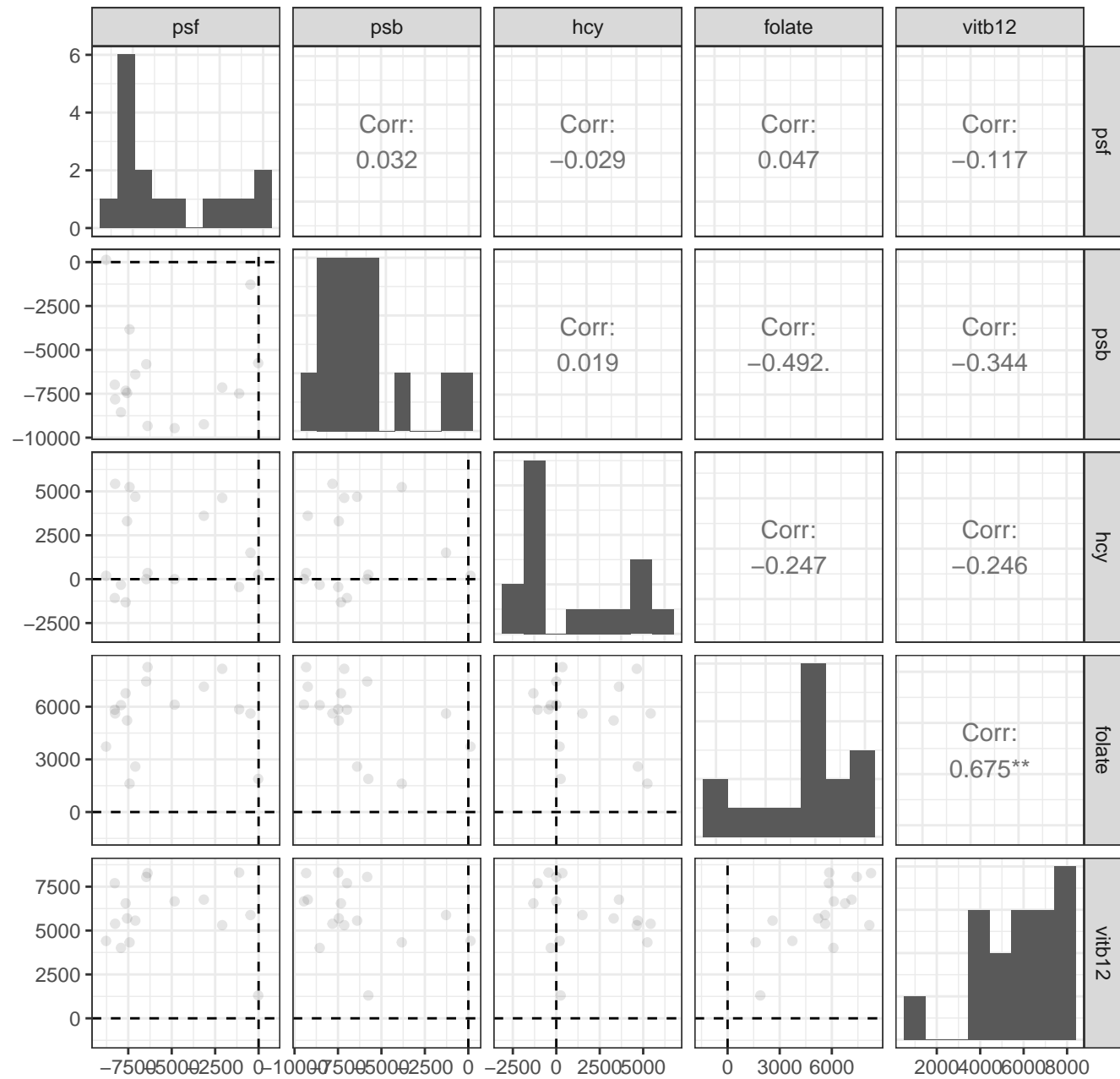
Response of EIF2AK4 (GCN2) to amino acid def



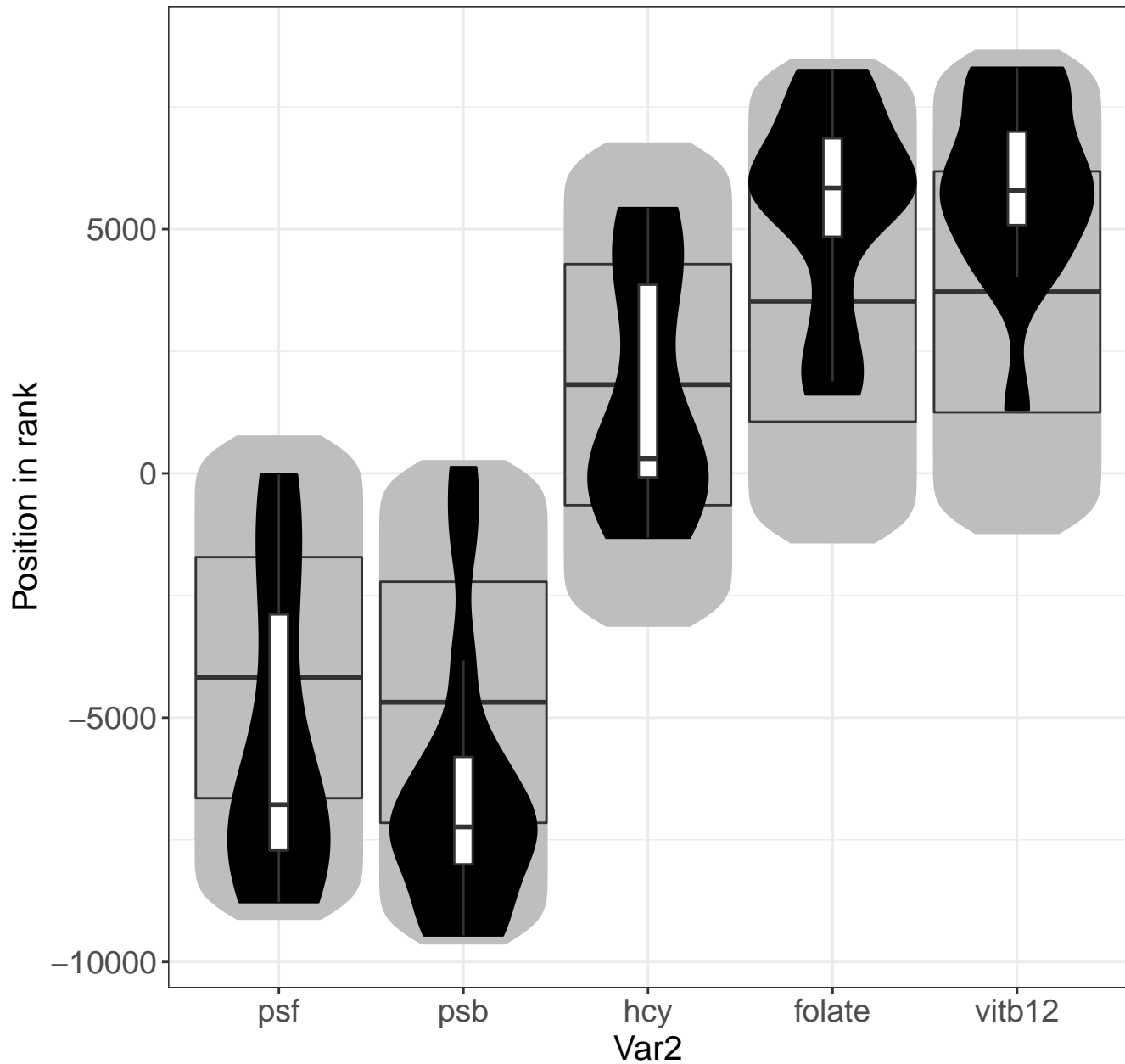
Regulation of TP53 Activity through Methylation



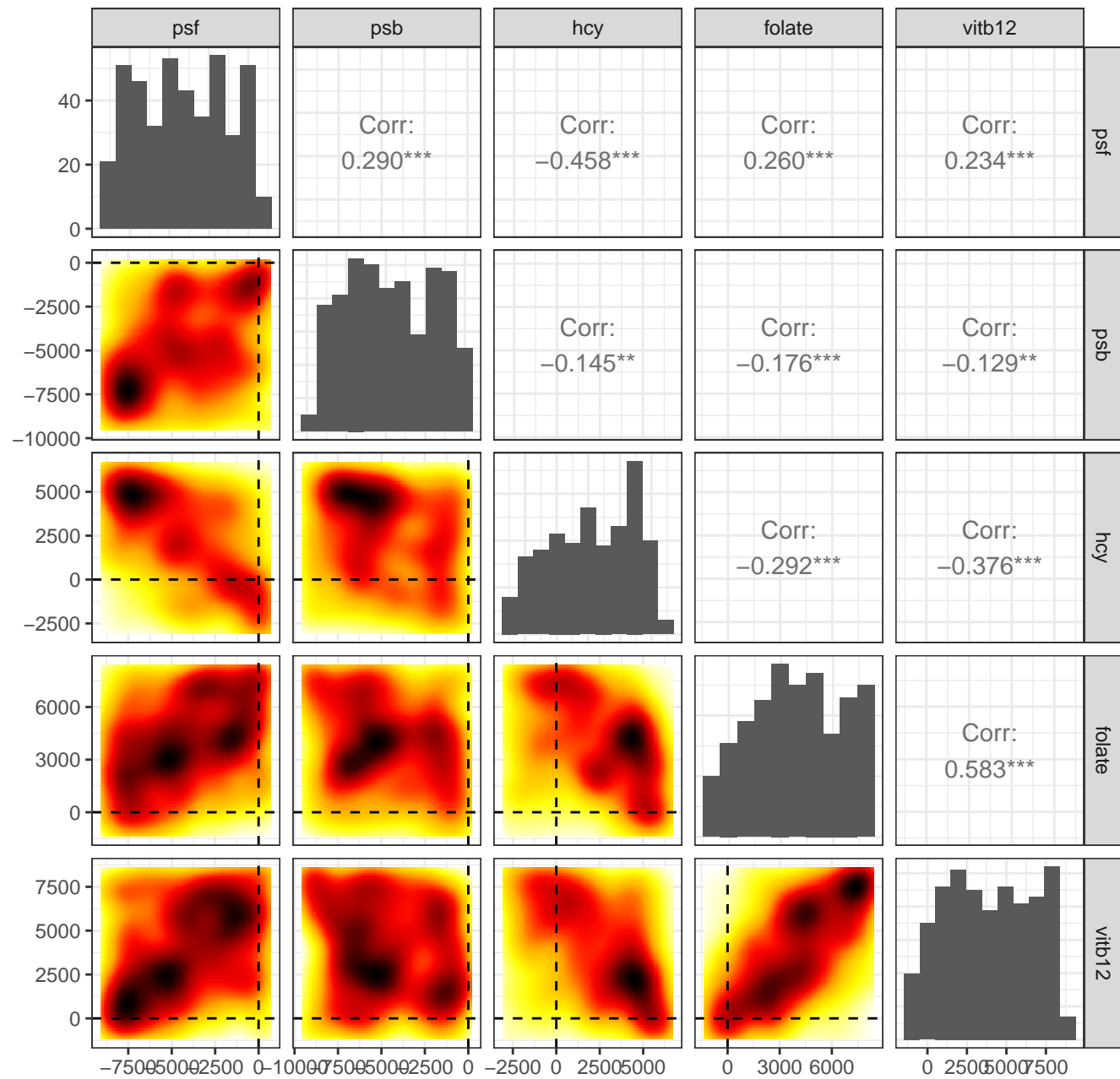
Regulation of TP53 Activity through Methylation



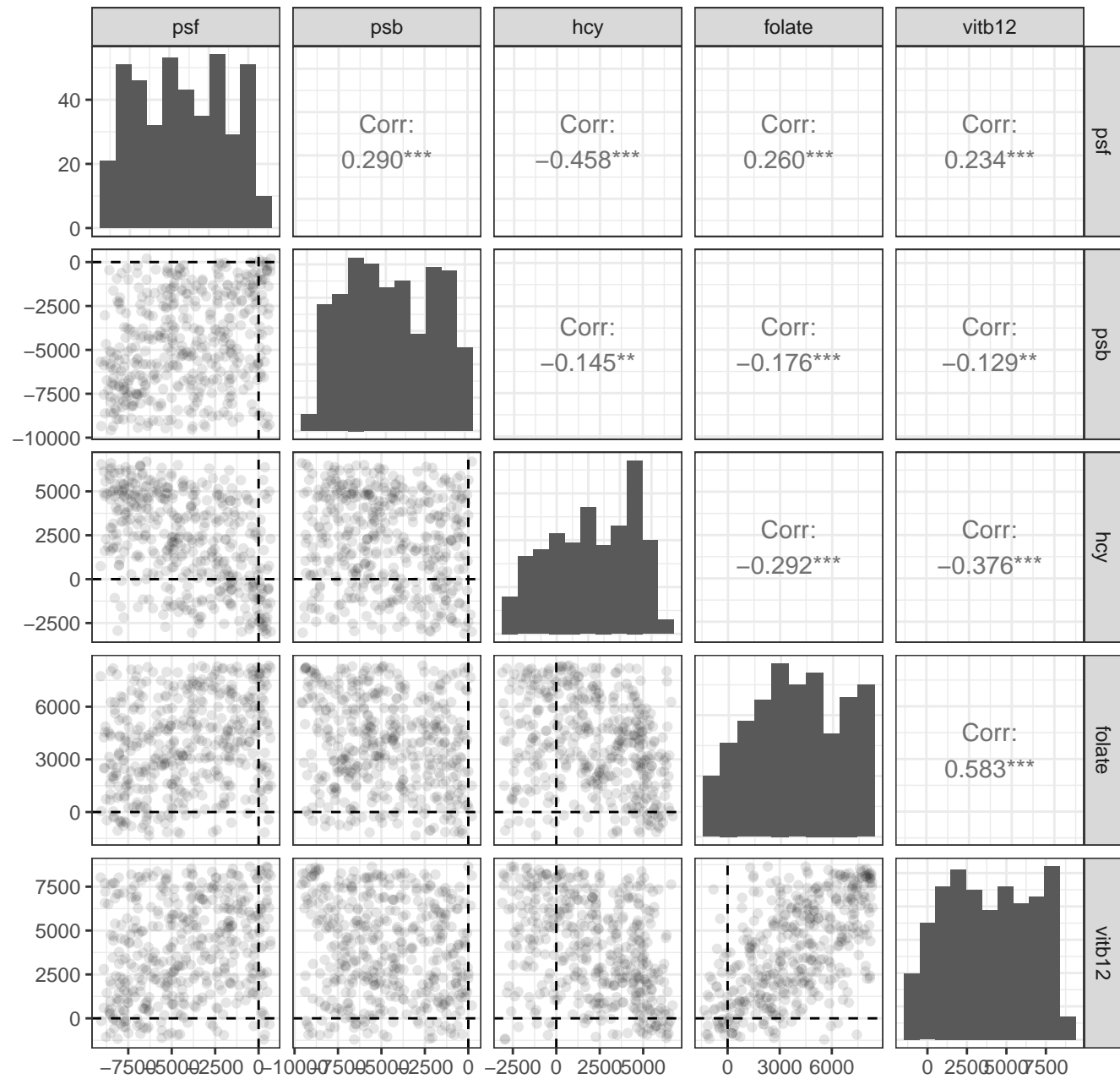
Regulation of TP53 Activity through Methylation



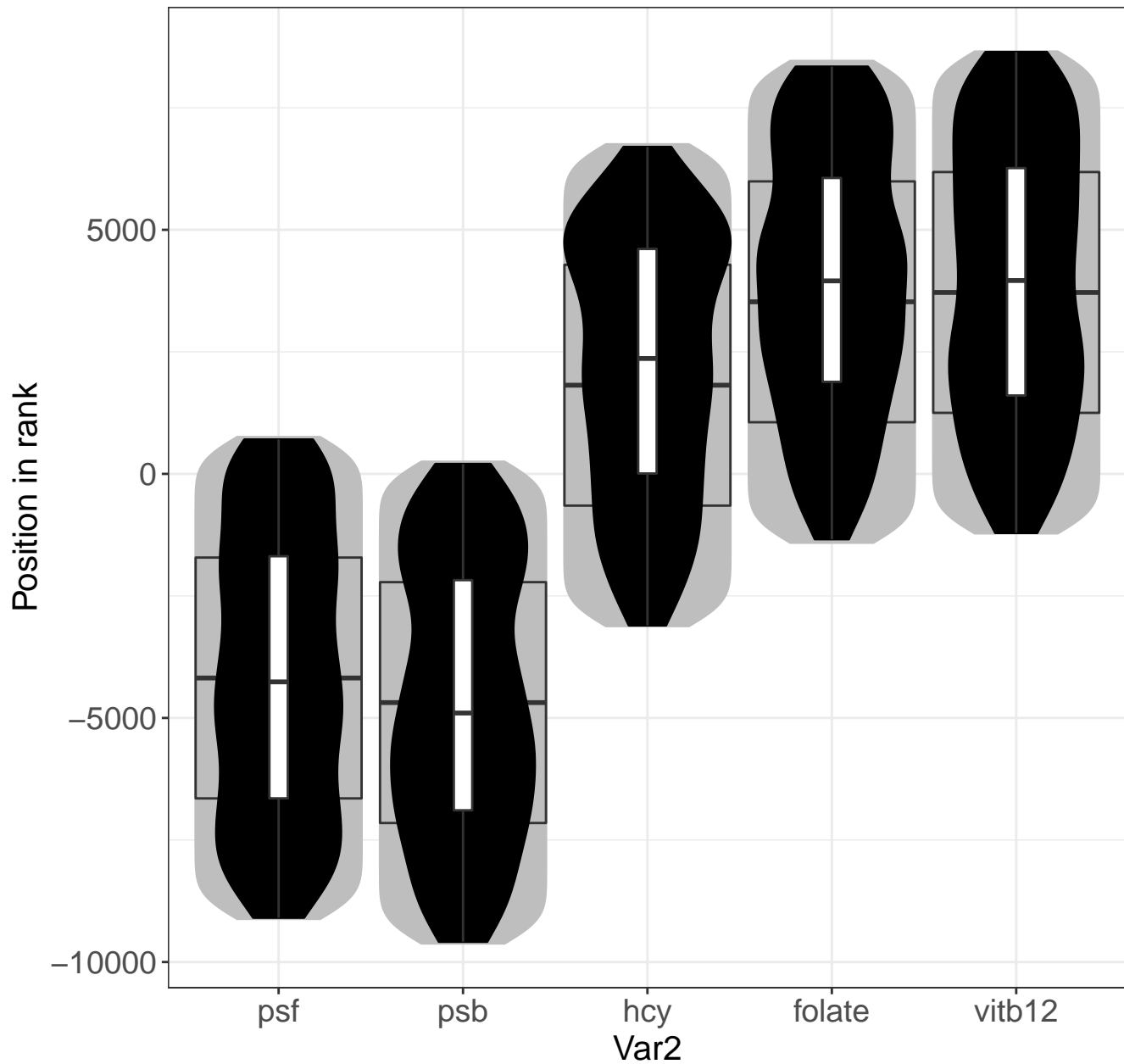
Cellular responses to stress



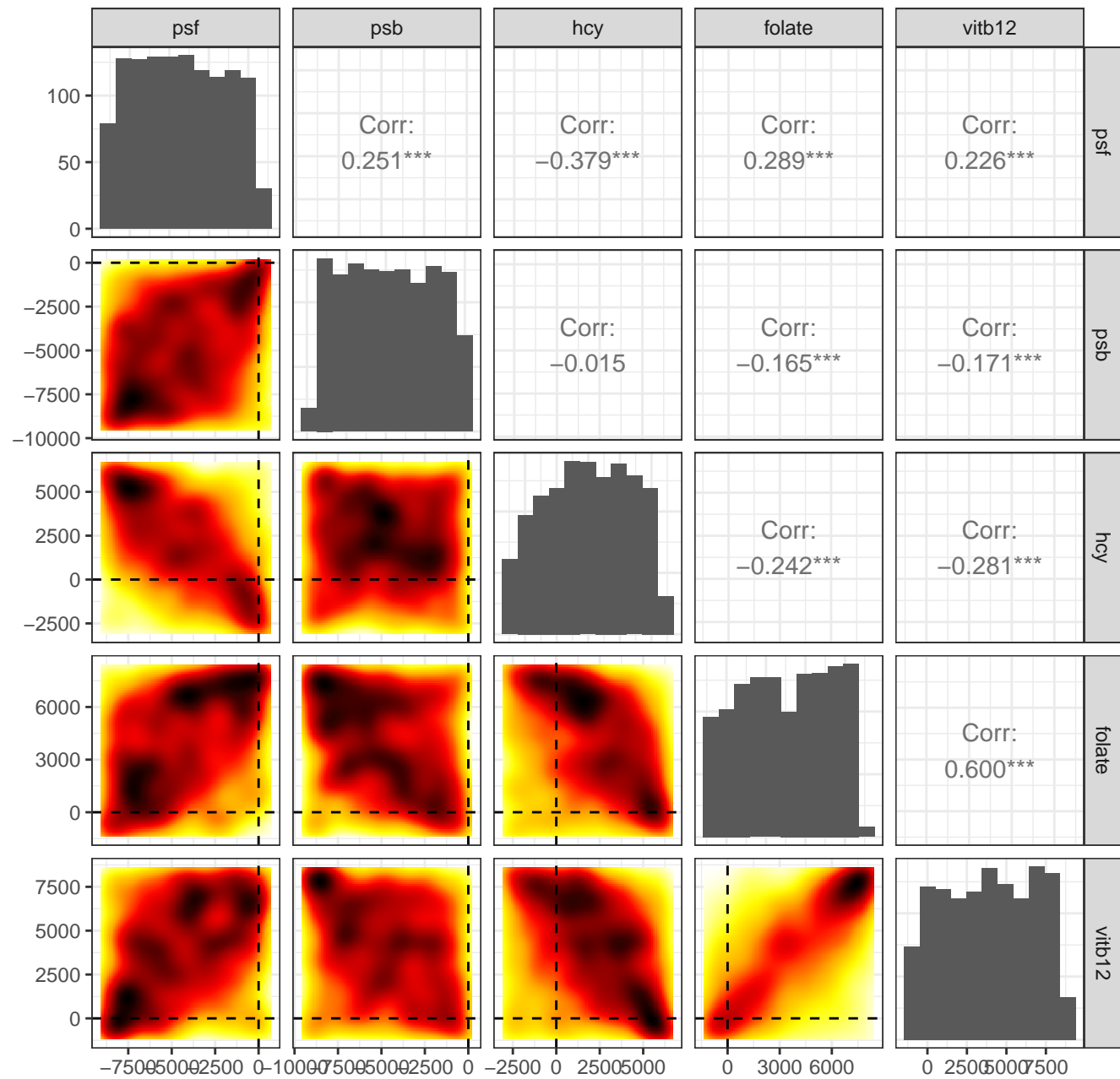
Cellular responses to stress



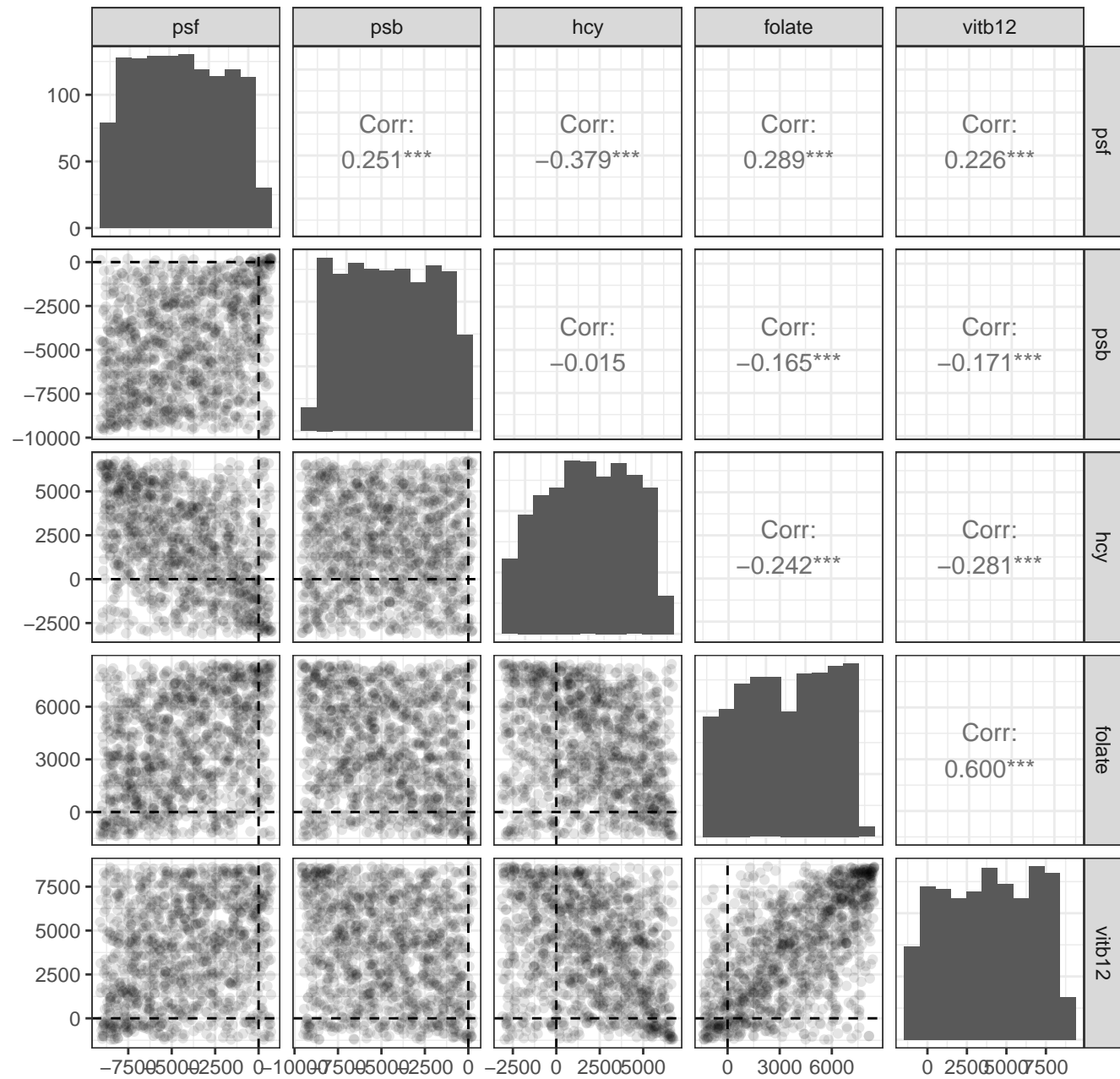
Cellular responses to stress



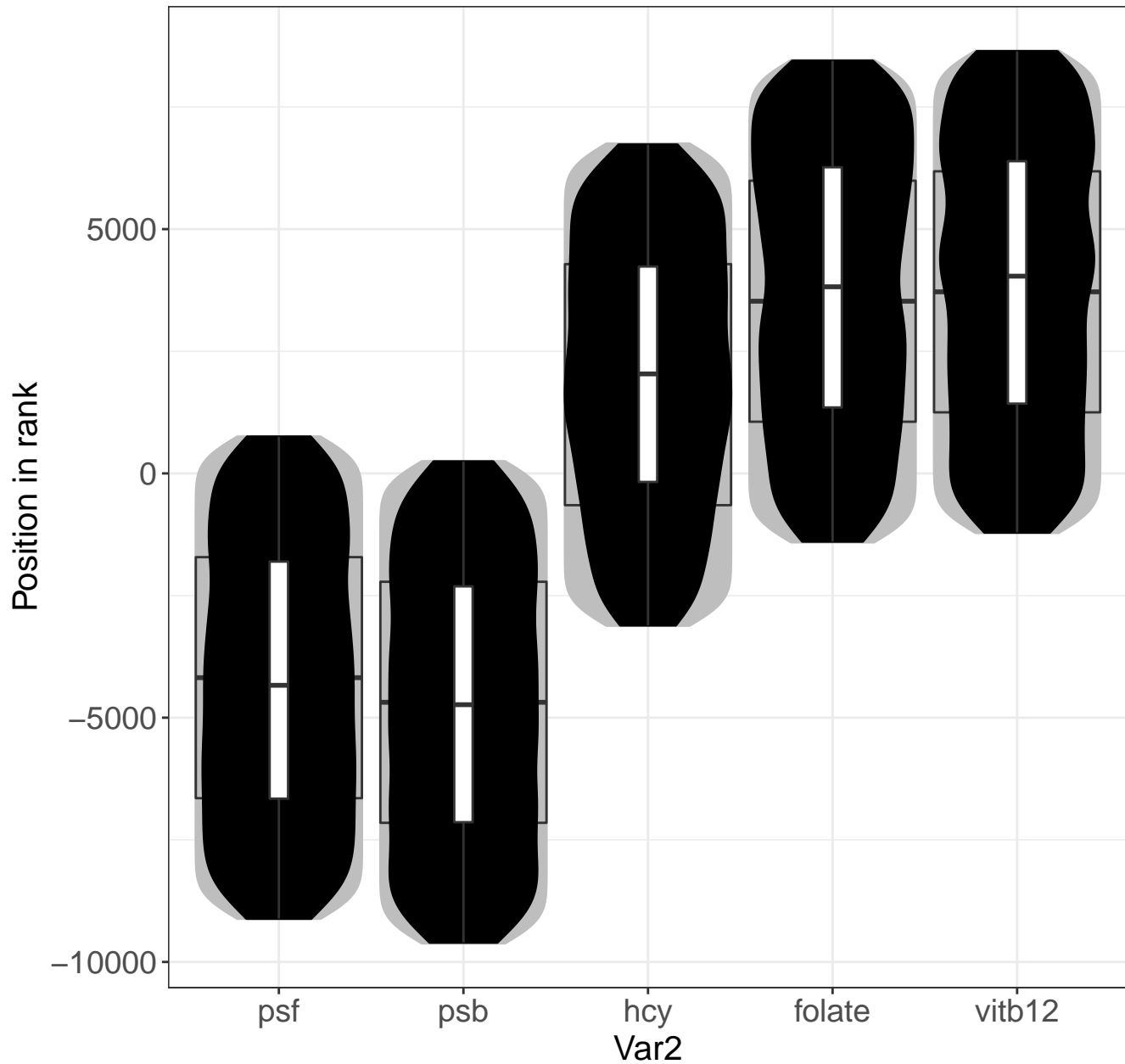
Metabolism of proteins



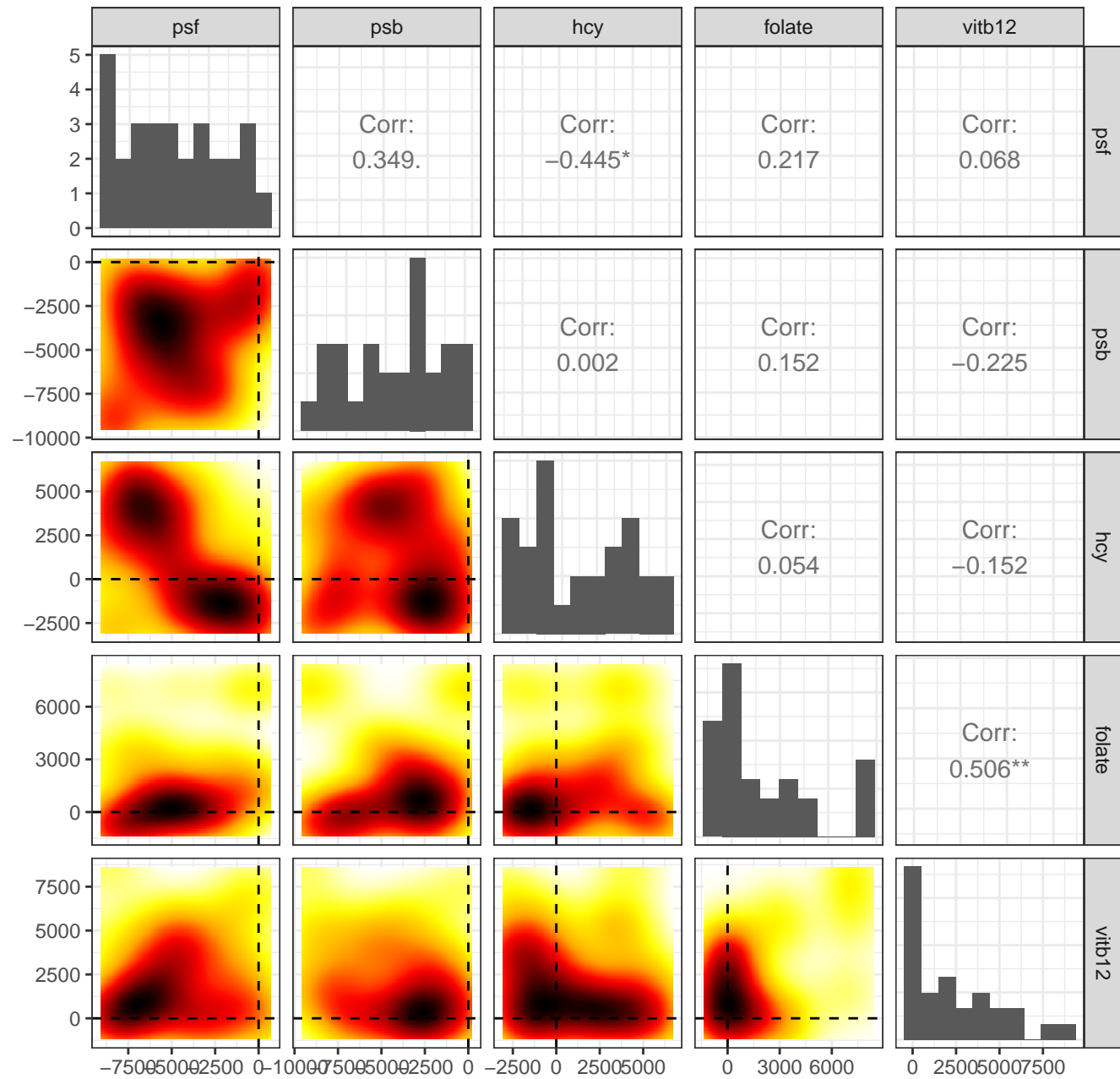
Metabolism of proteins



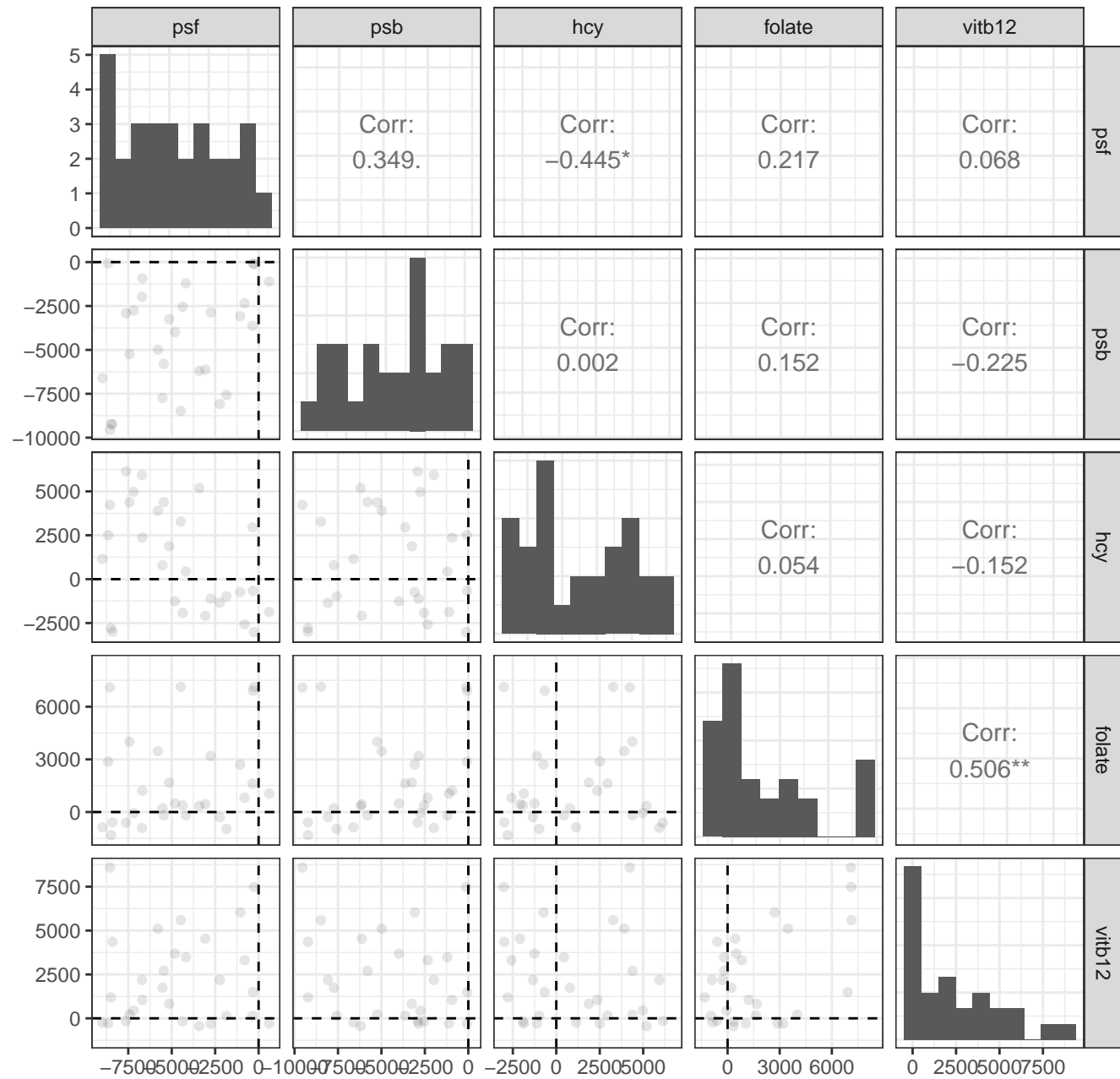
Metabolism of proteins



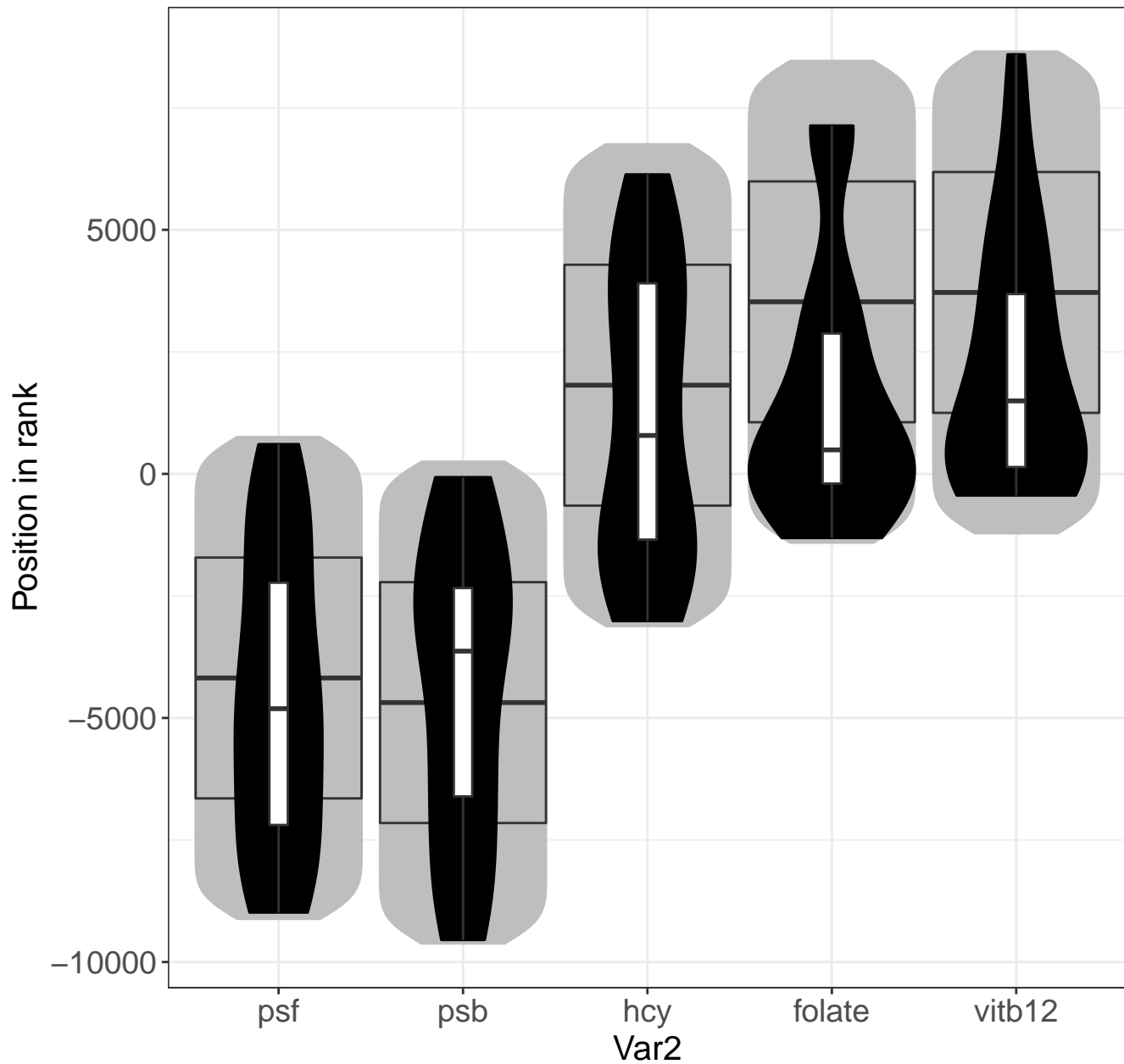
PLC beta mediated events



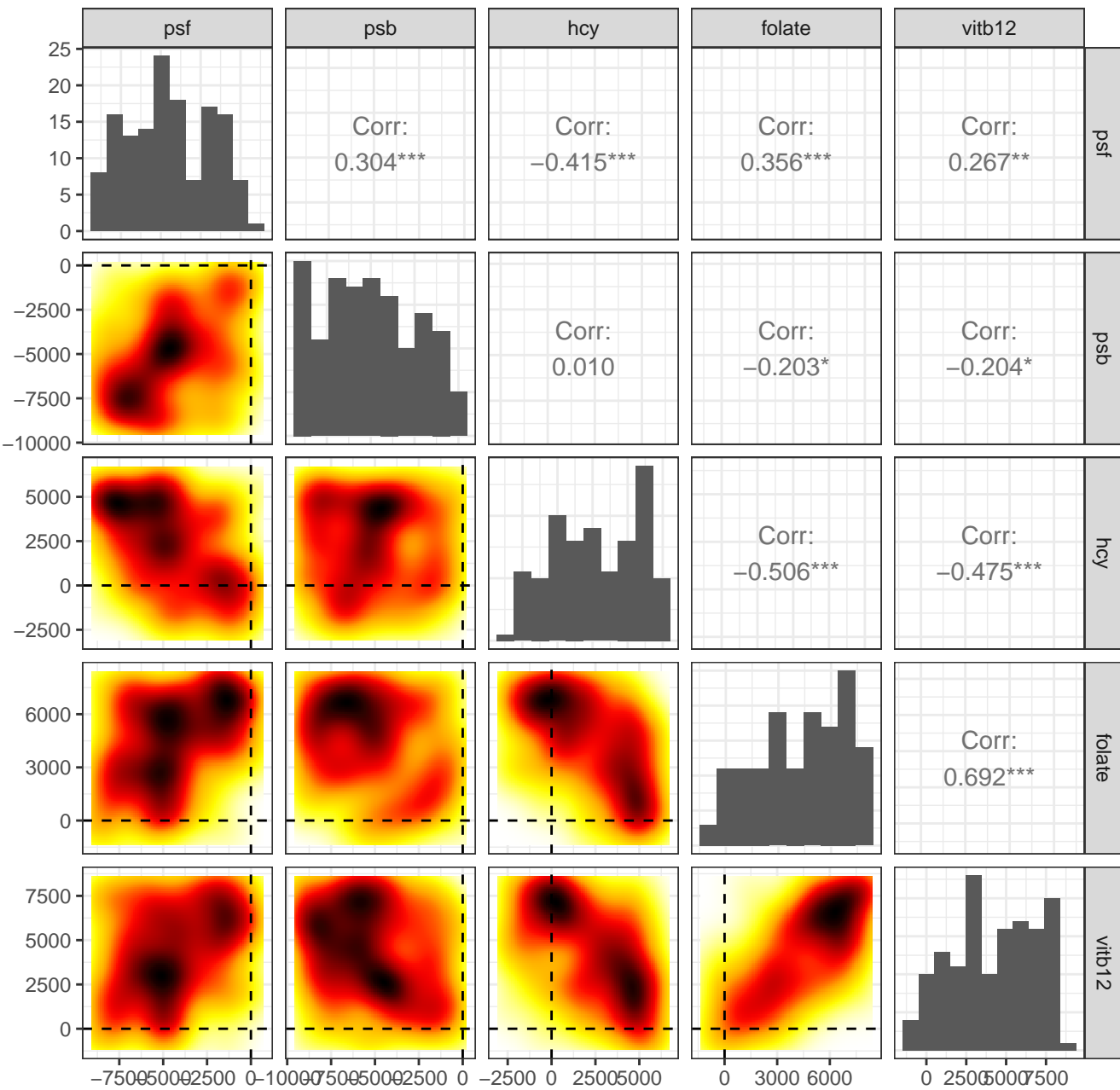
PLC beta mediated events



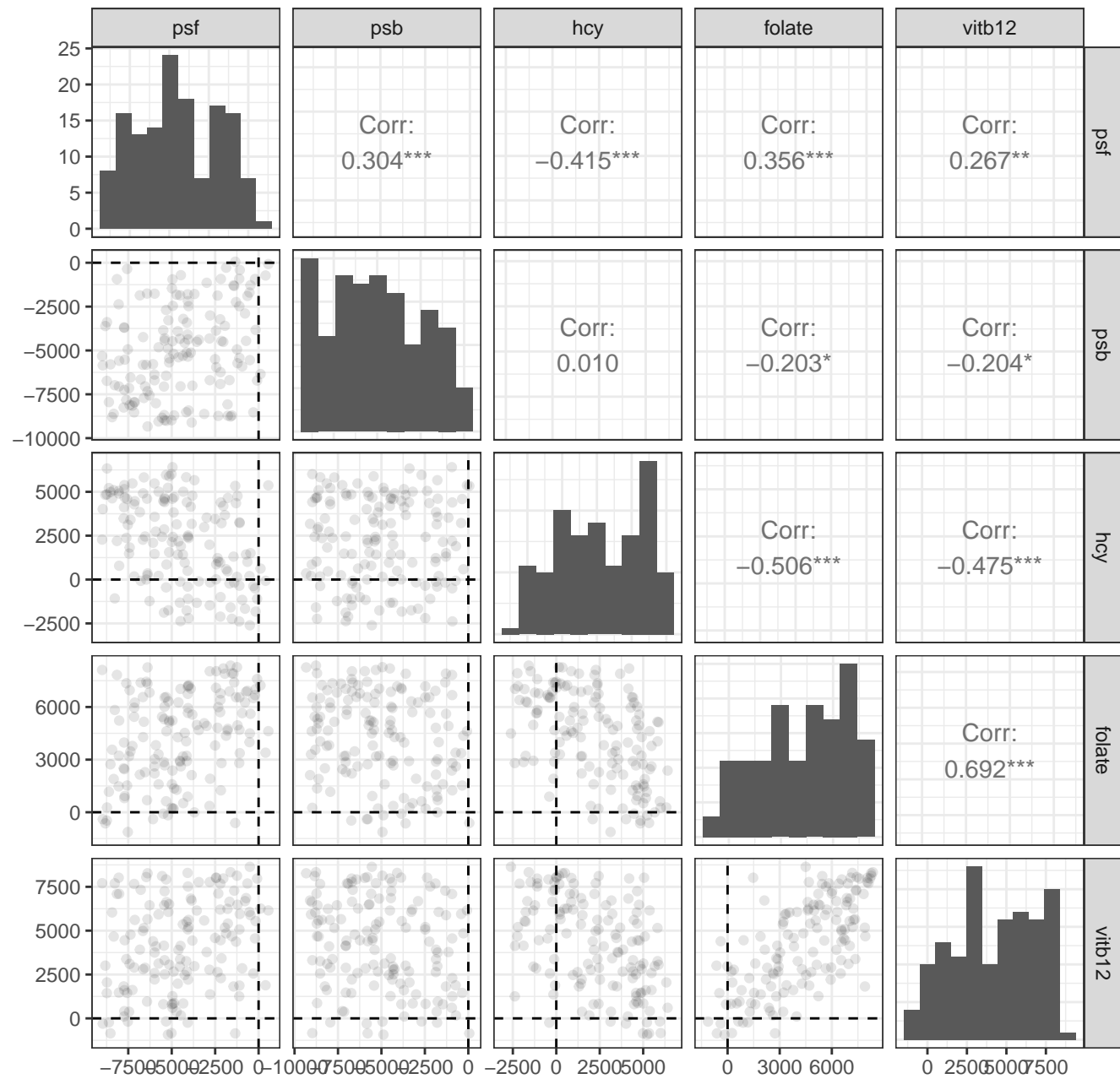
PLC beta mediated events



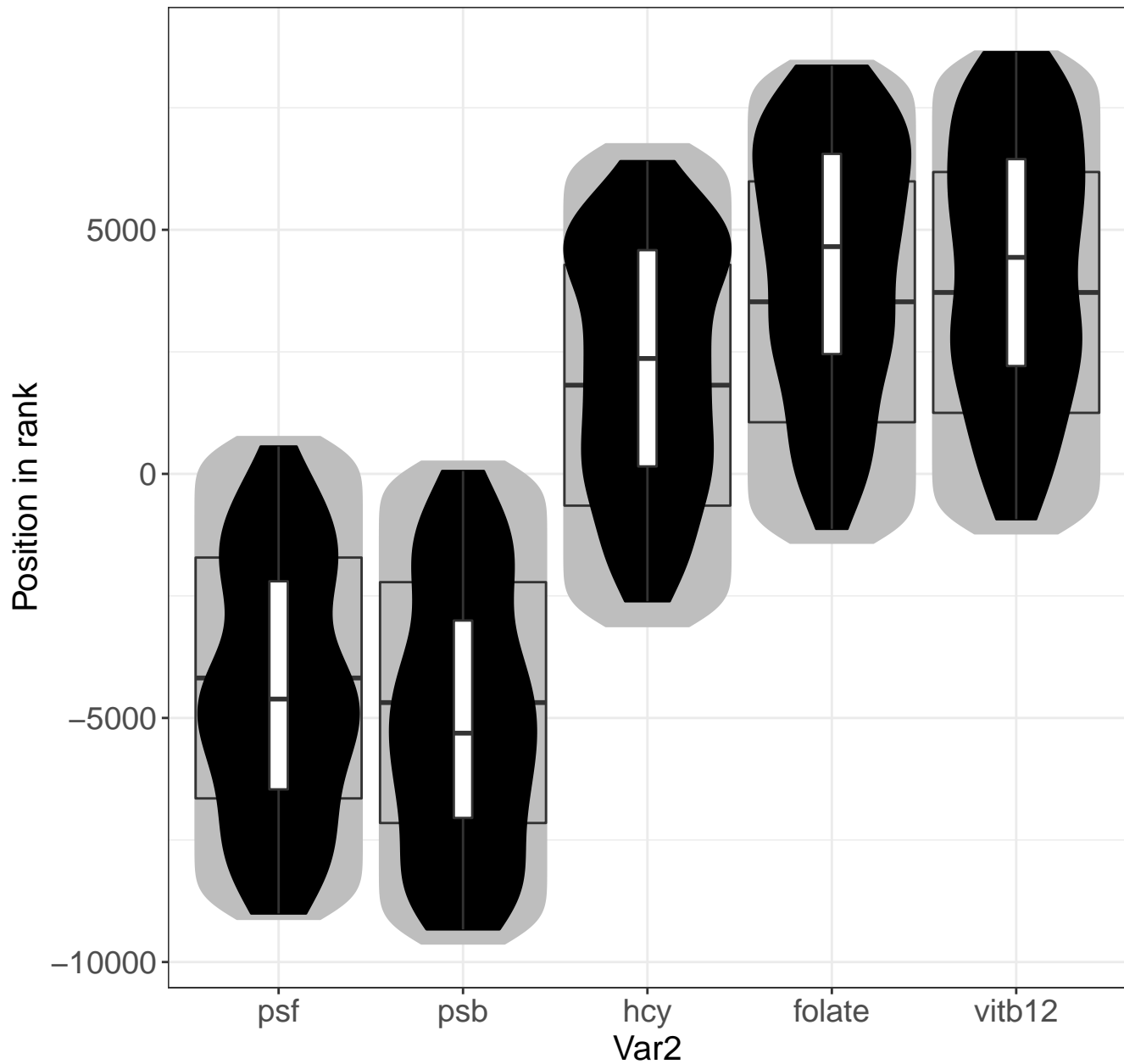
Separation of Sister Chromatids



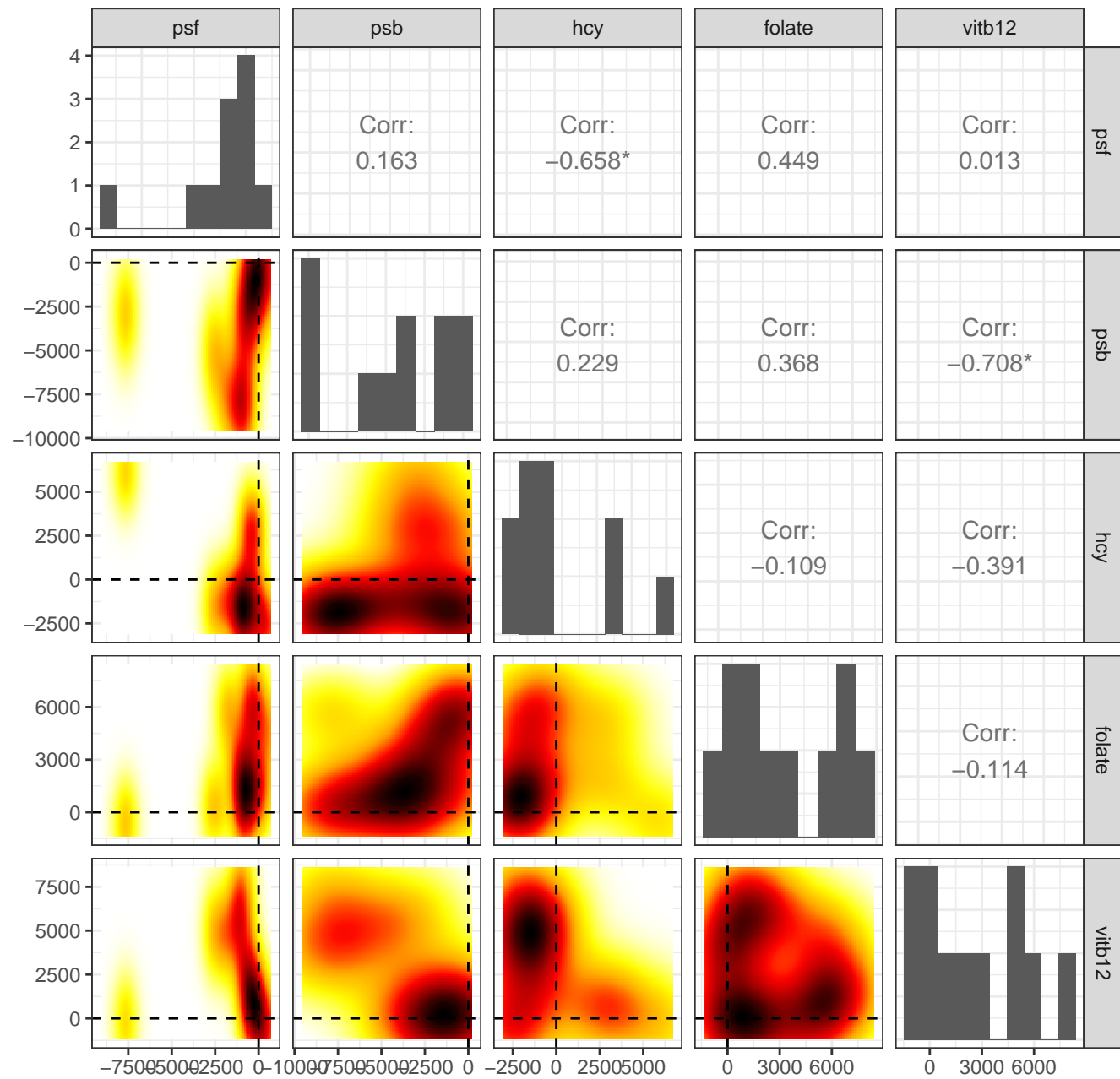
Separation of Sister Chromatids



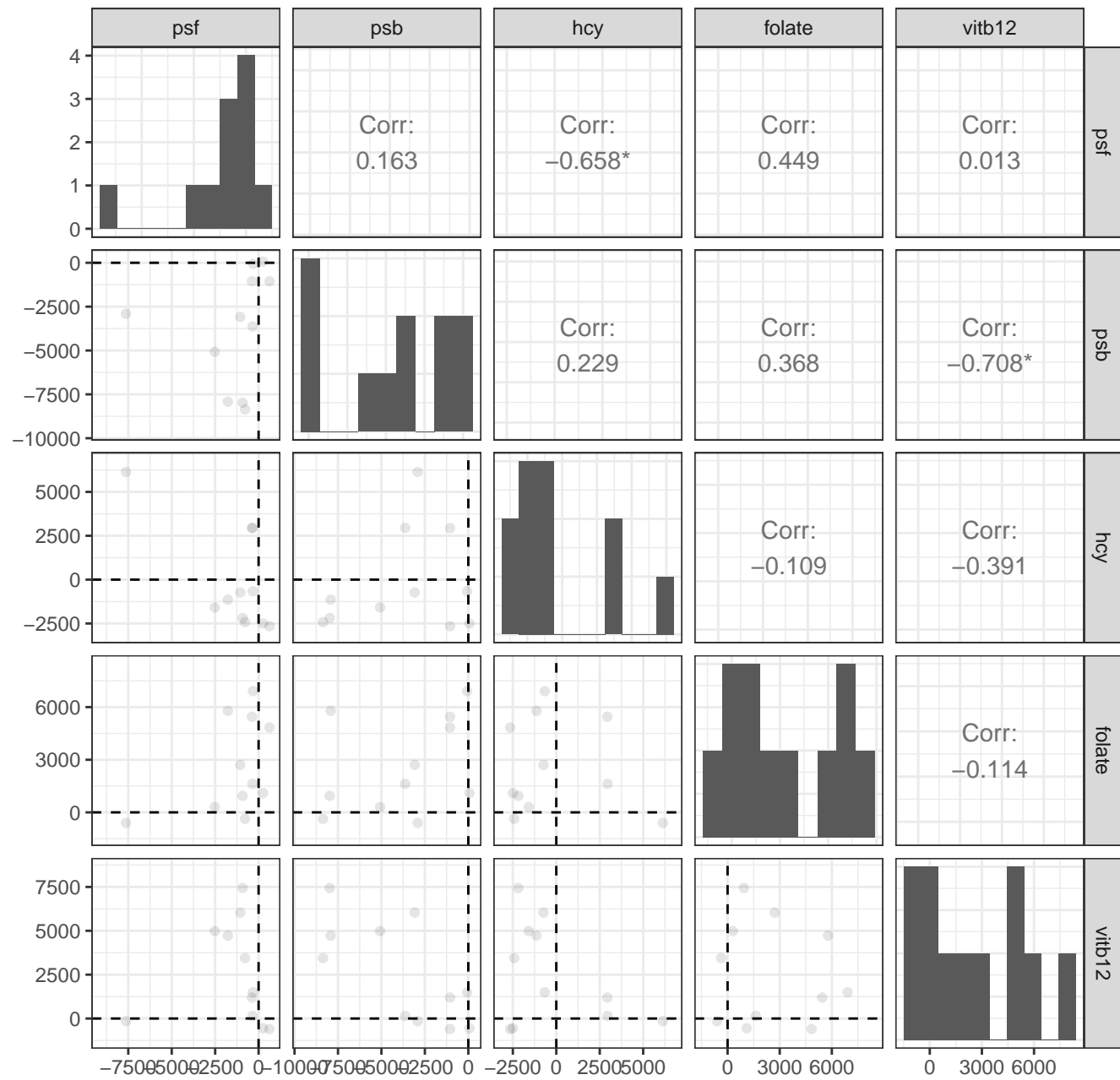
Separation of Sister Chromatids



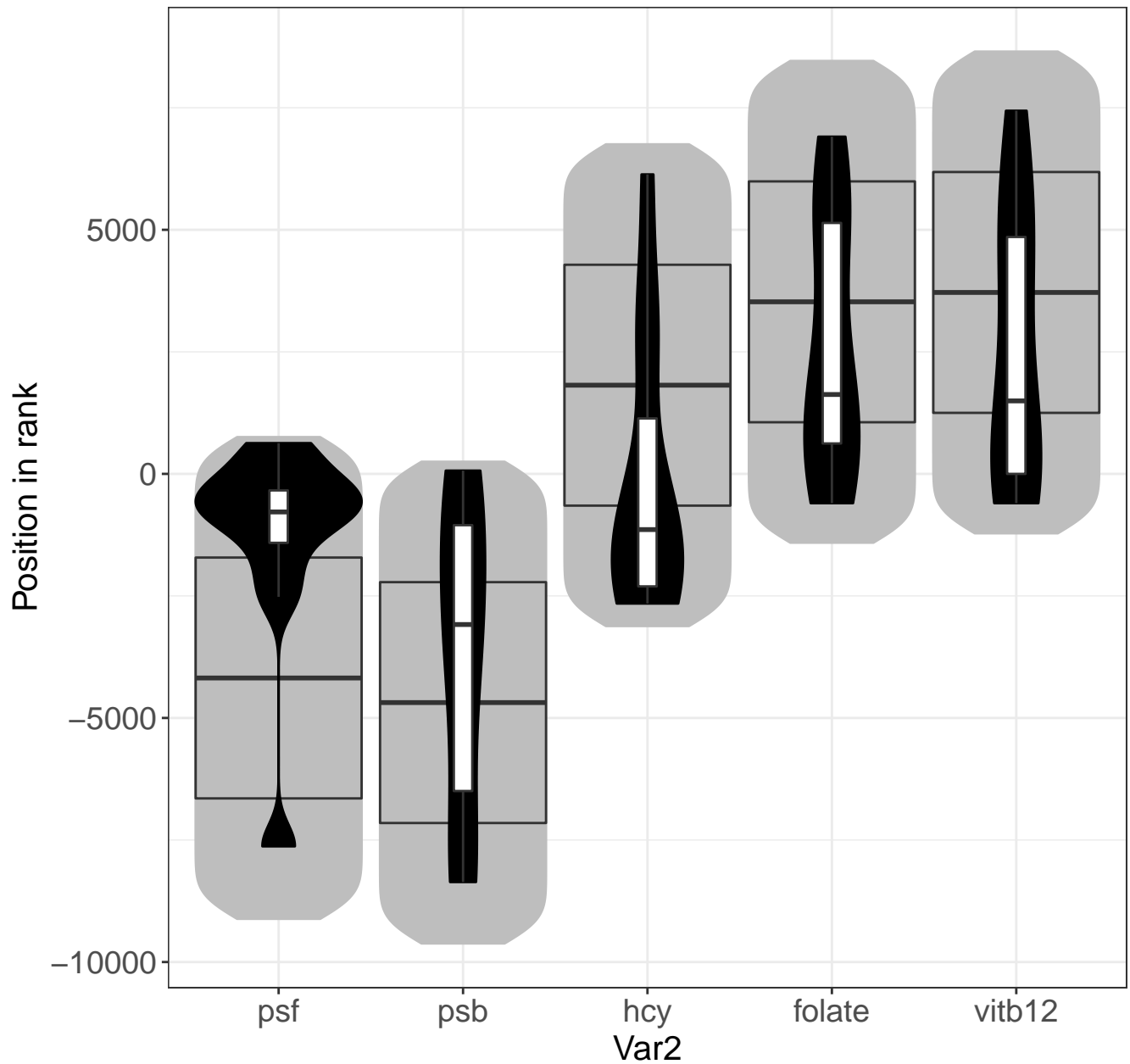
Negative regulation of NMDA receptor-mediated neuronal transmission



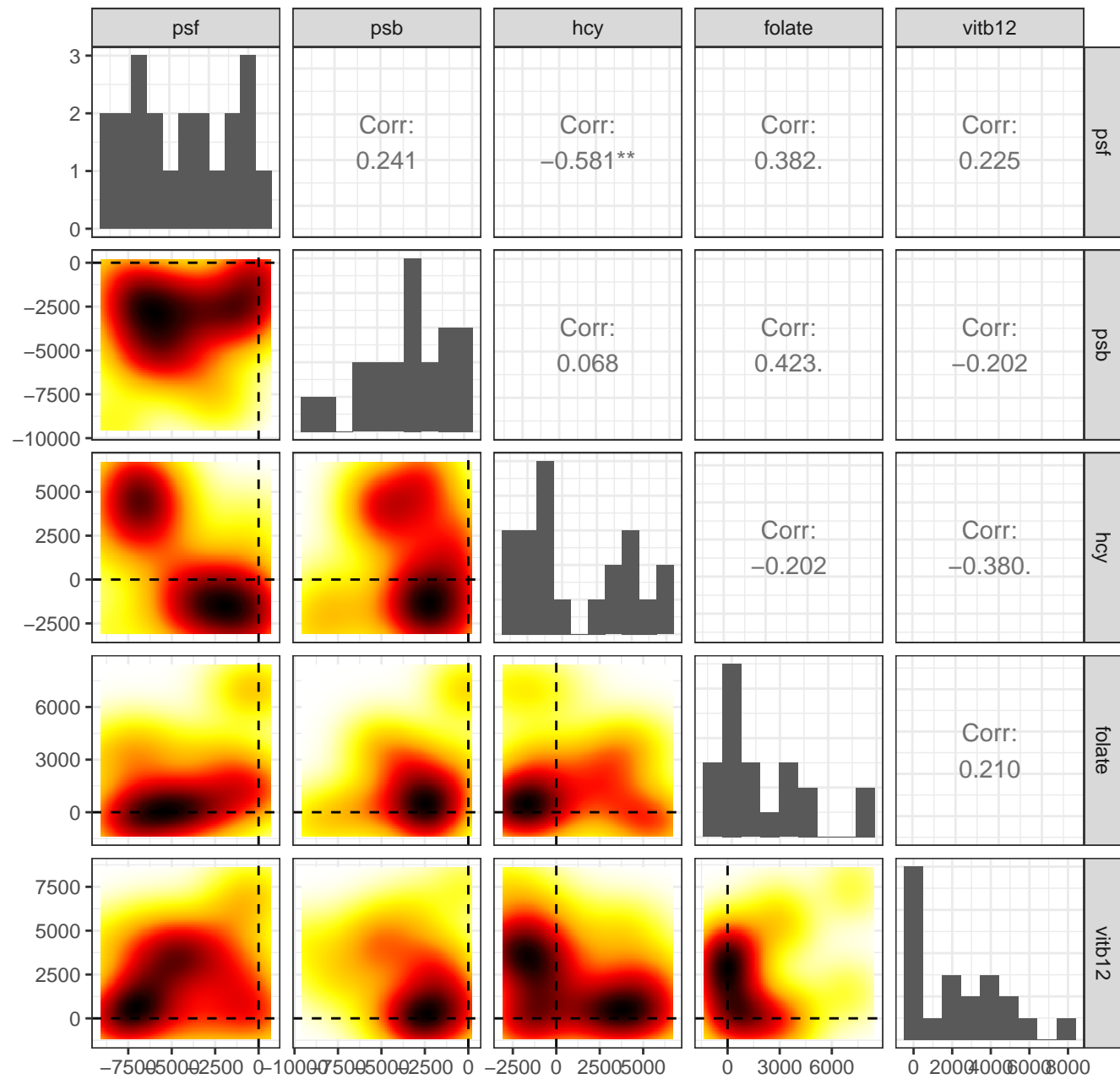
Negative regulation of NMDA receptor-mediated neuronal transmission



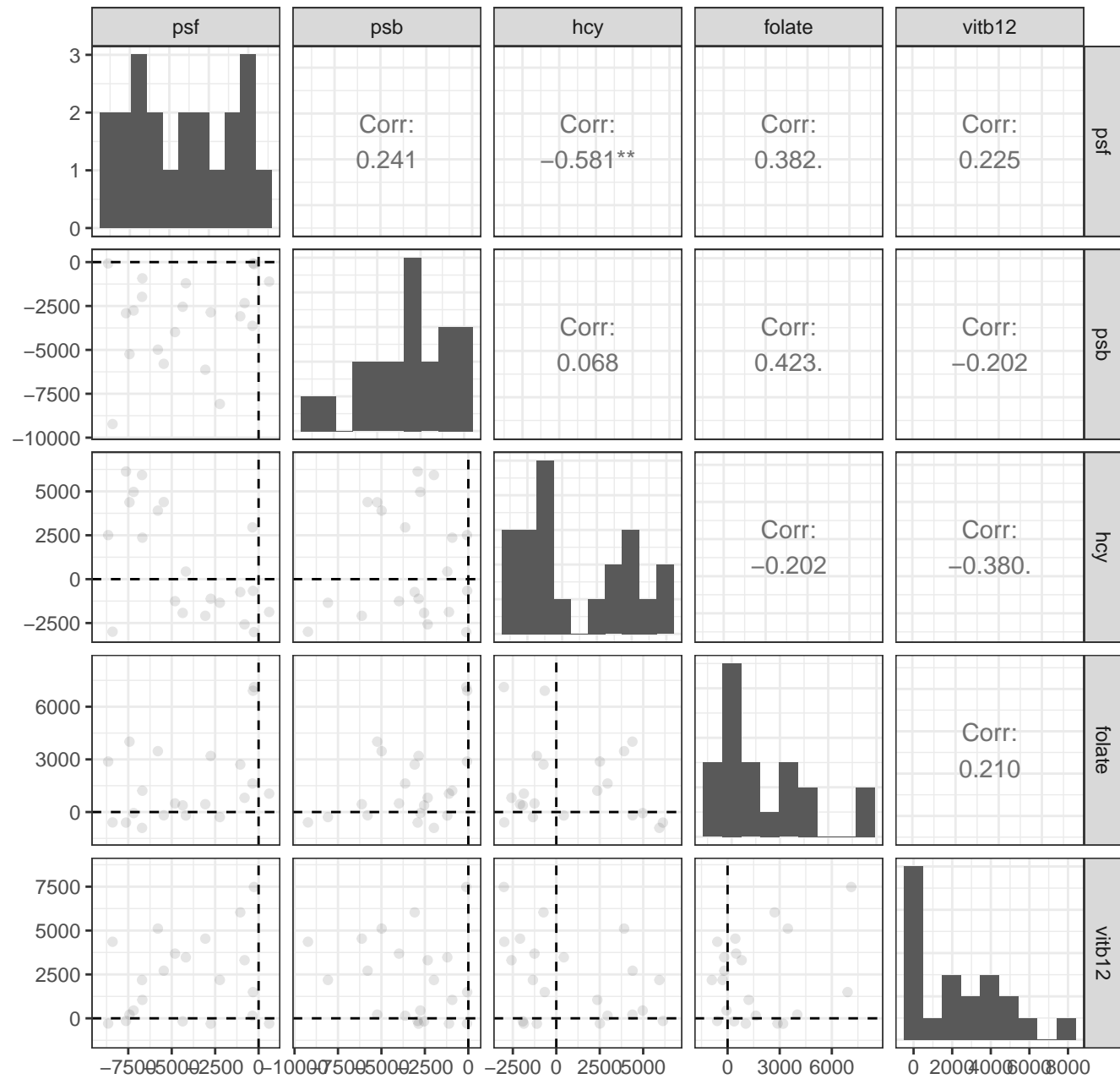
Negative regulation of NMDA receptor-mediated



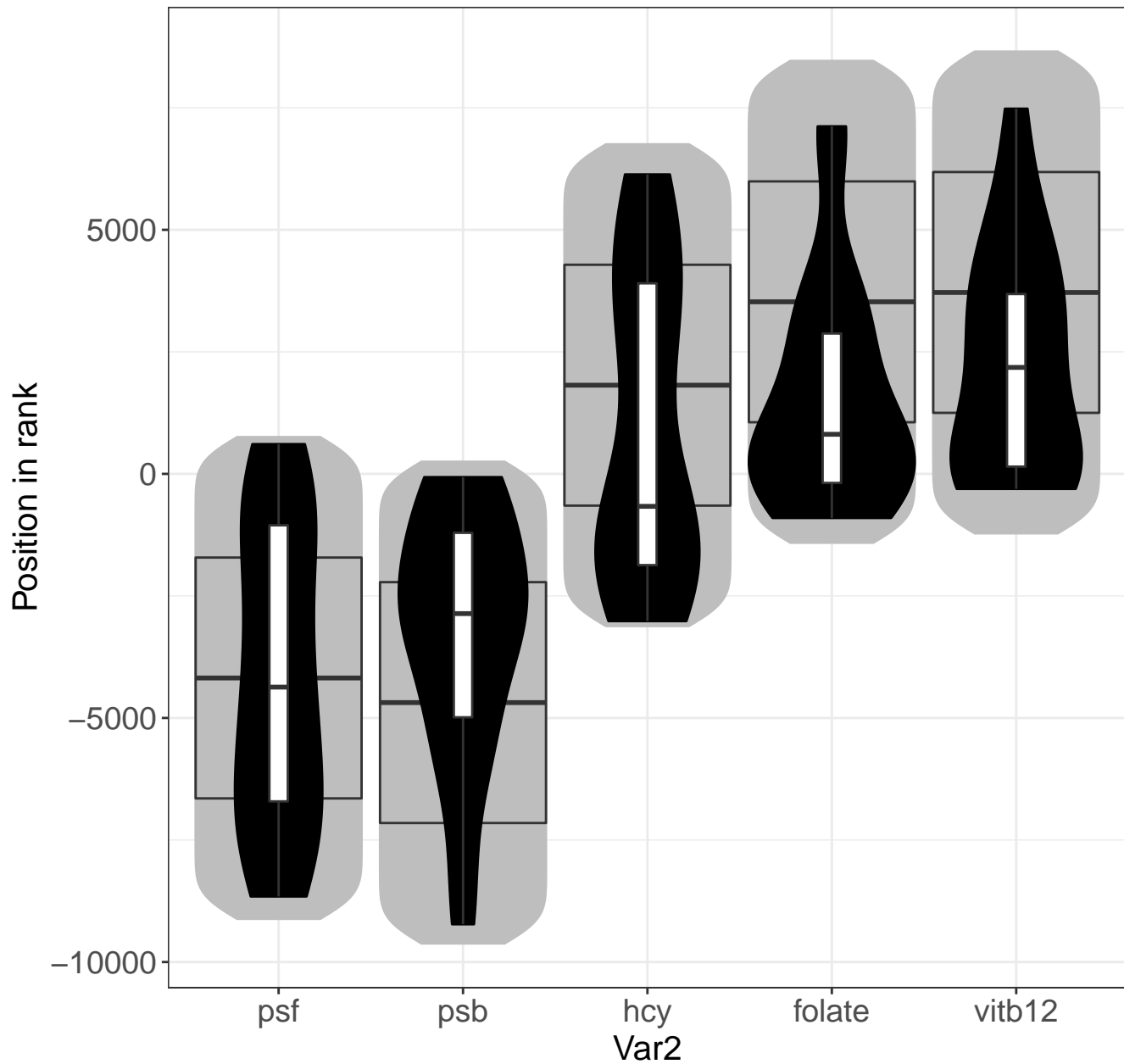
Ca-dependent events



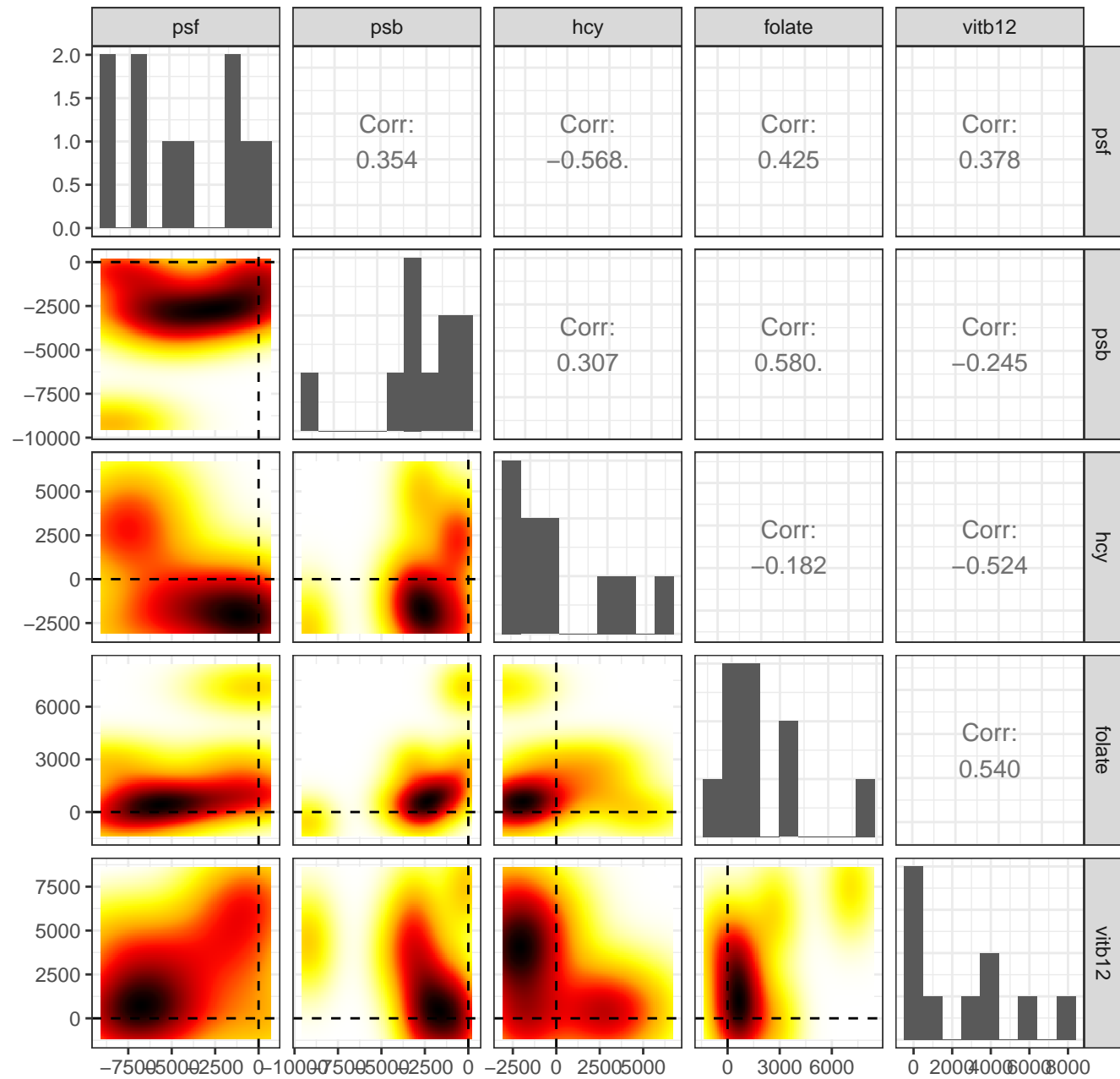
Ca-dependent events



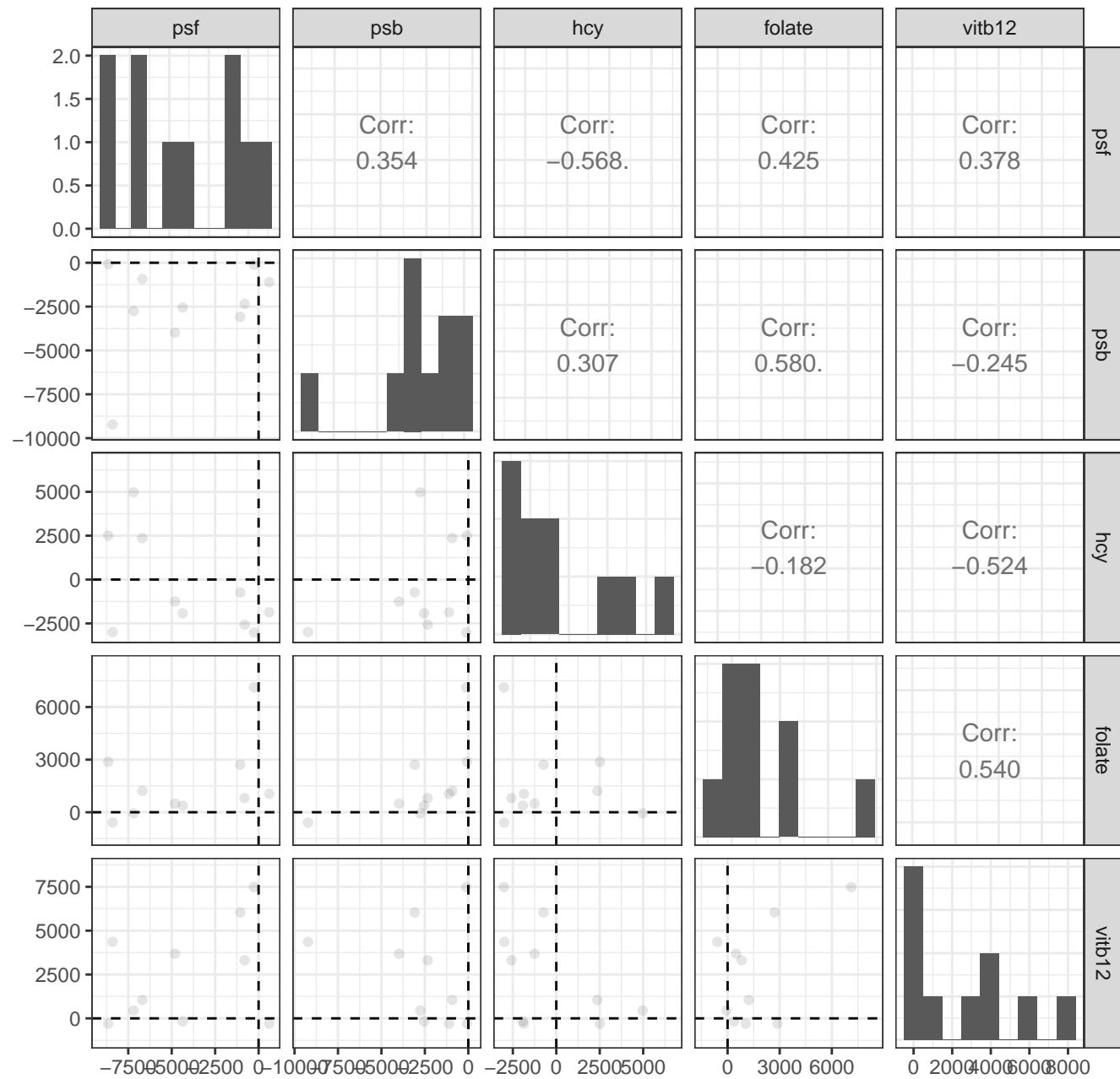
Ca-dependent events



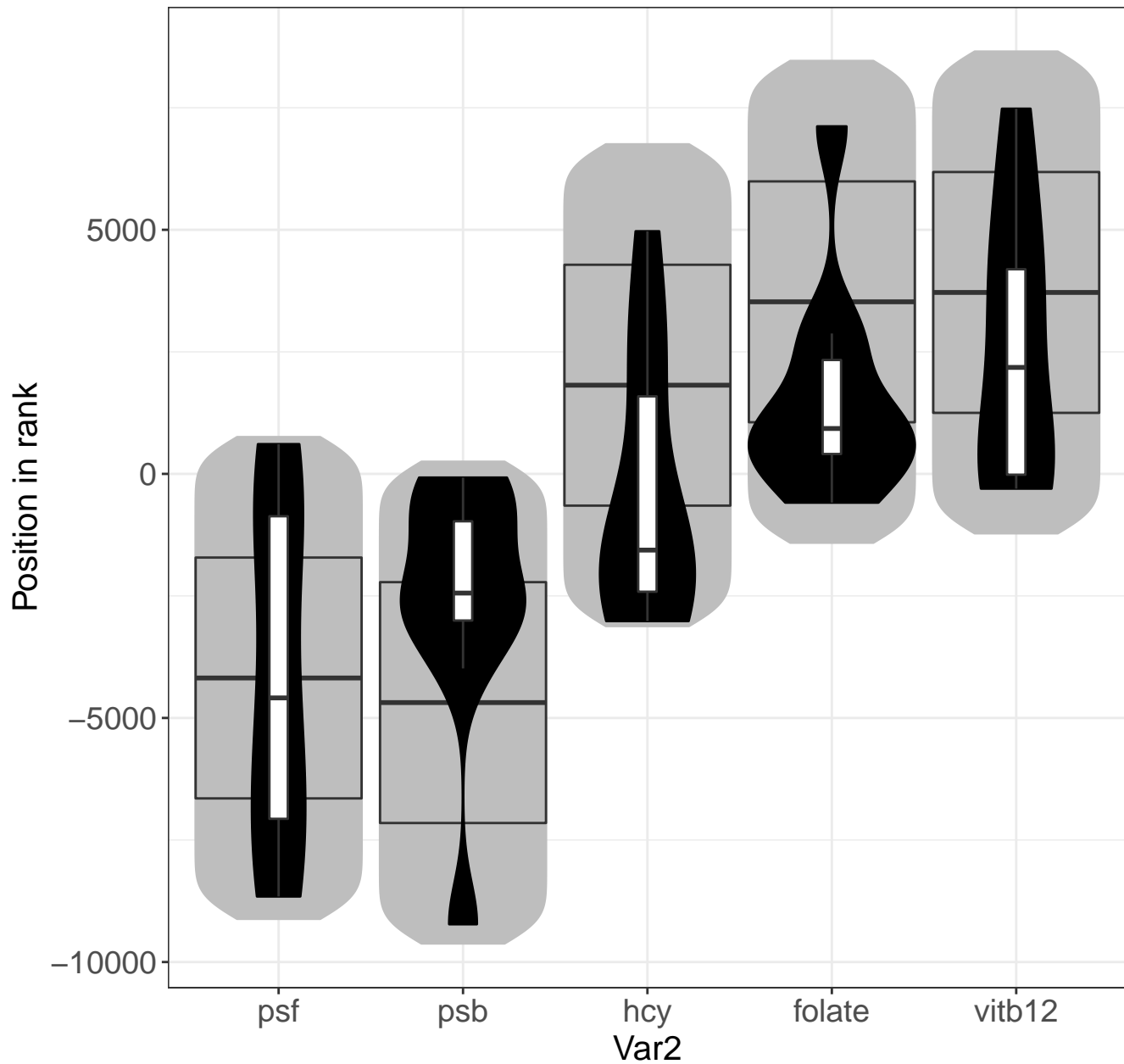
PKA activation



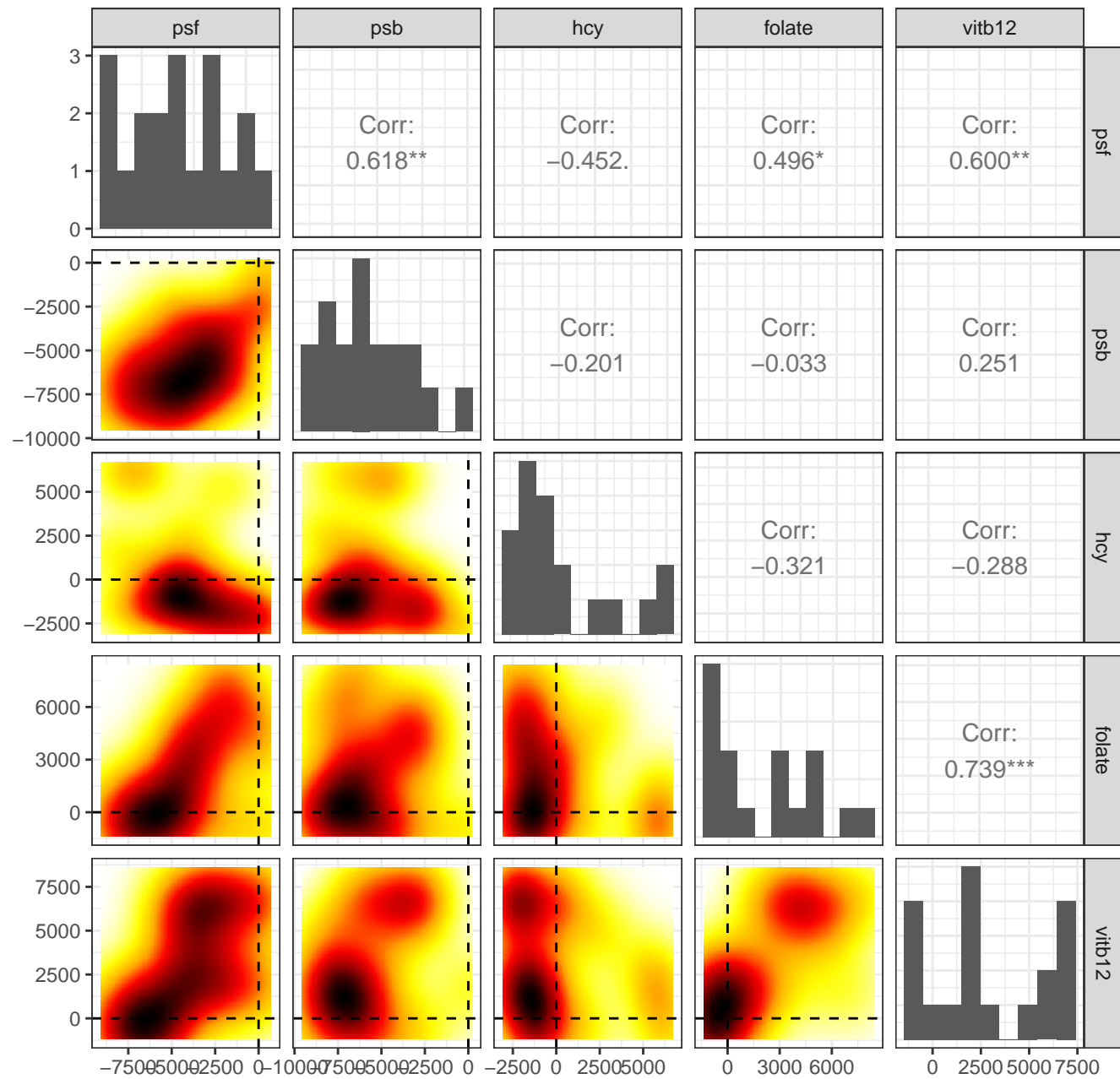
PKA activation



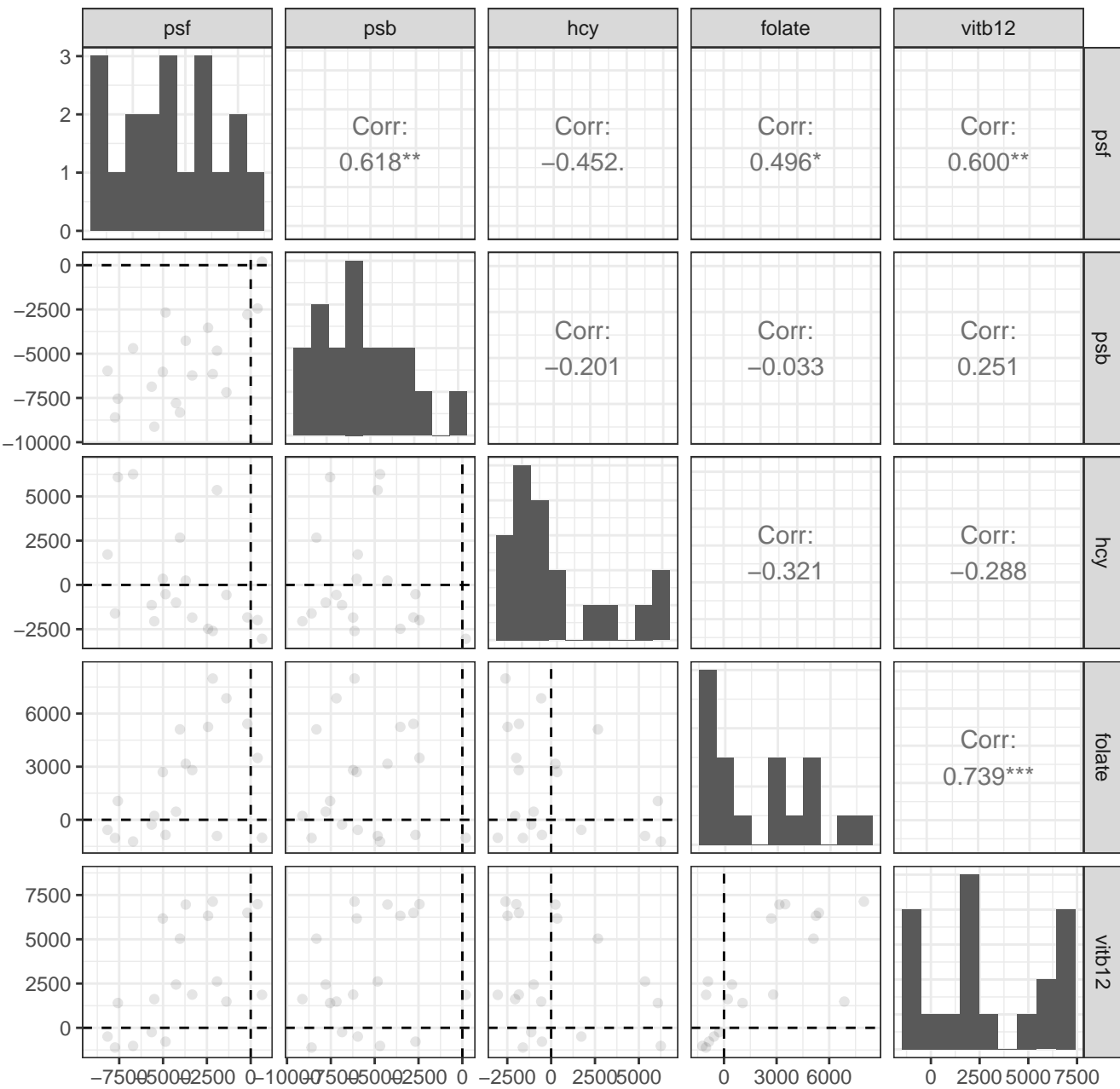
PKA activation



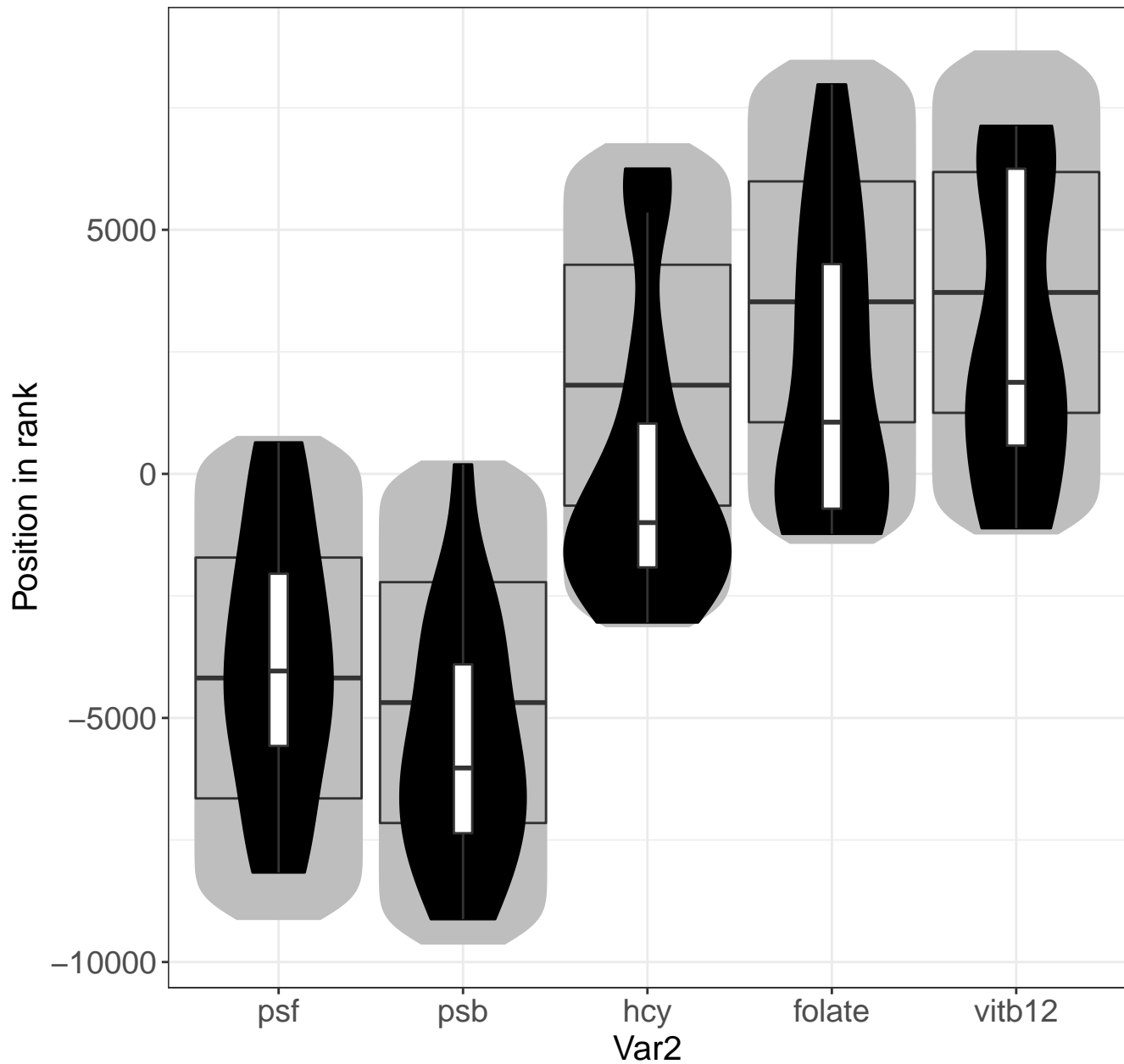
Heparan sulfate/heparin (HS-GAG) metabolism



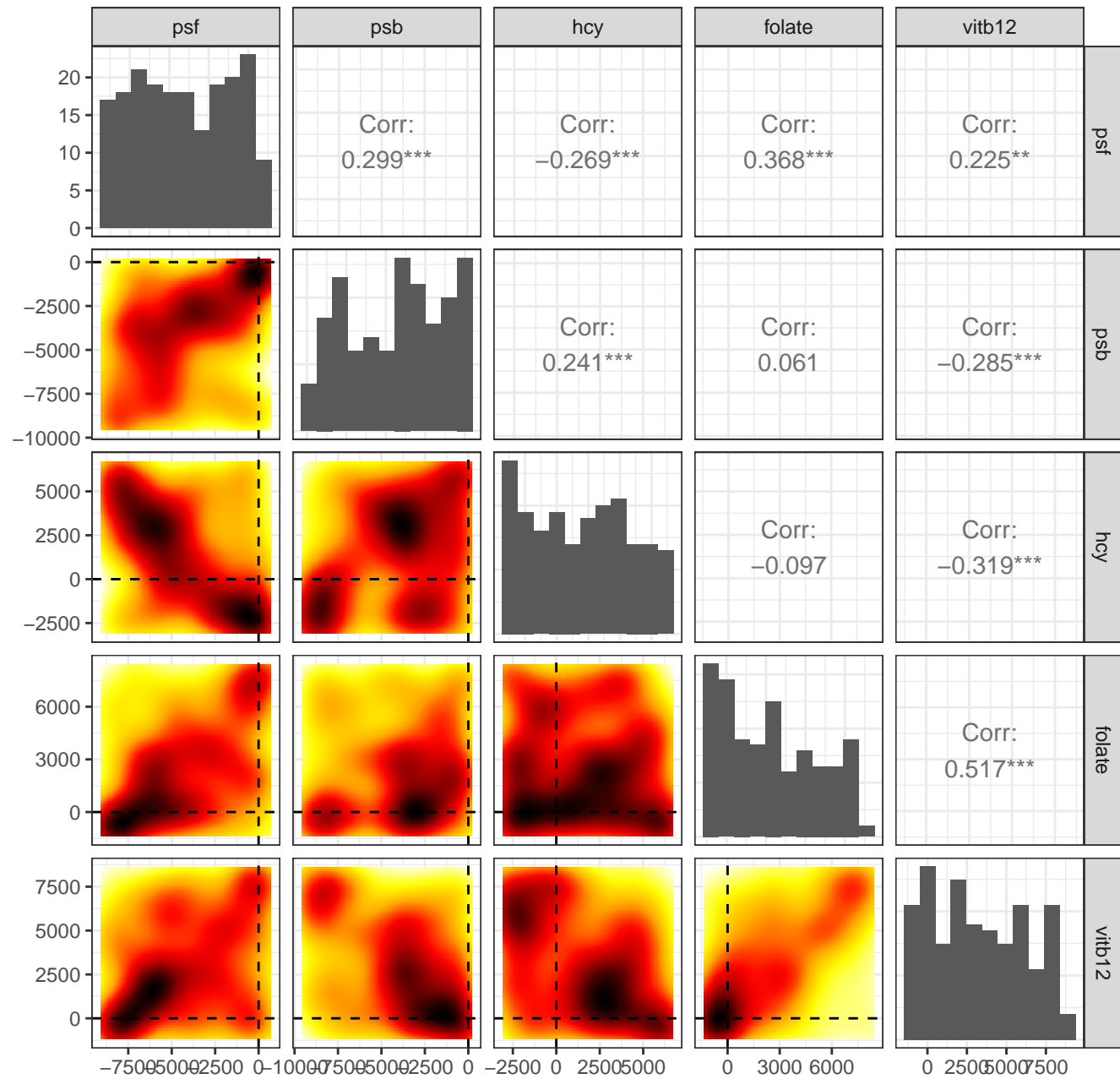
Heparan sulfate/heparin (HS-GAG) metabolism



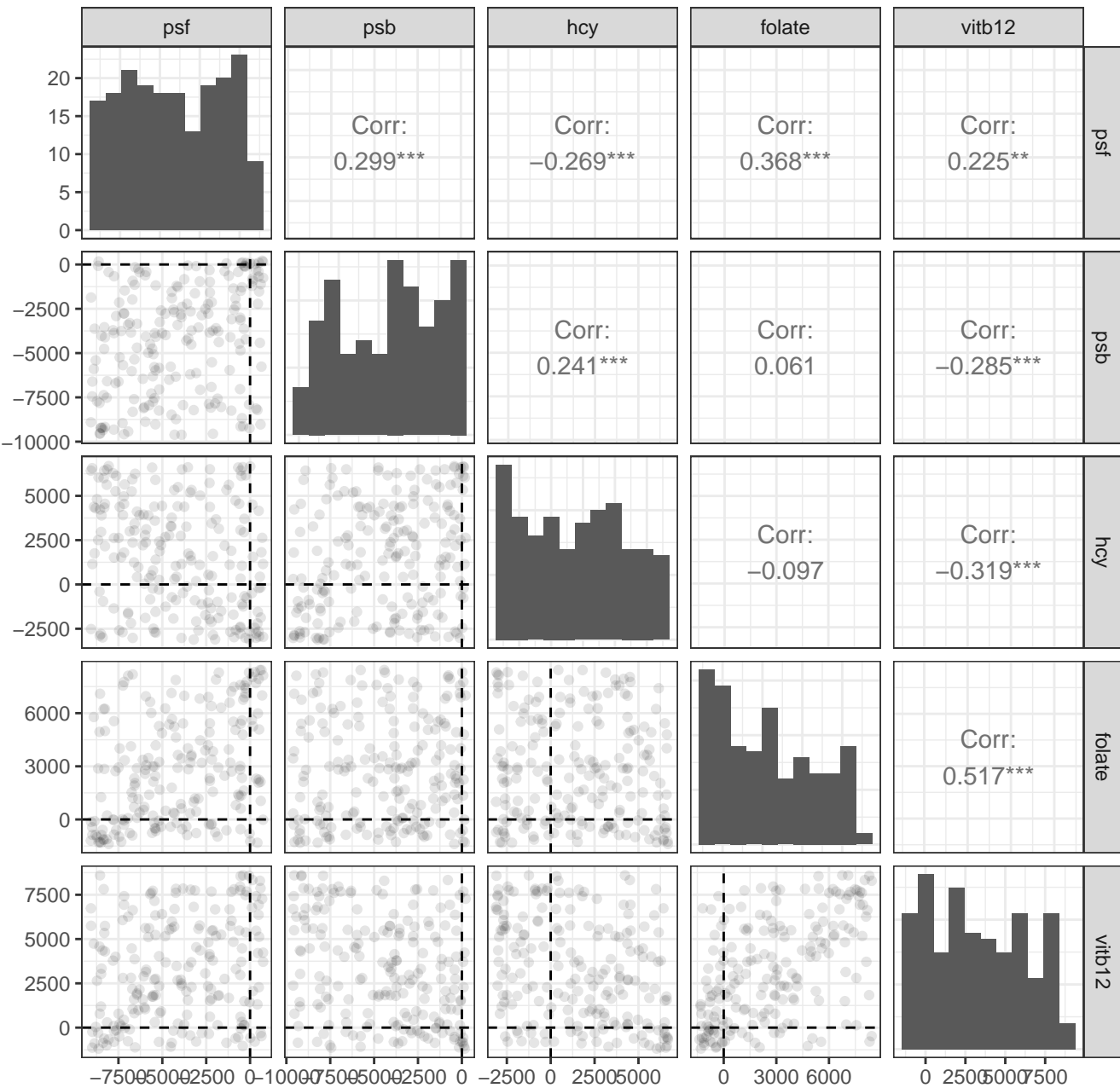
Heparan sulfate/heparin (HS-GAG) metabolism



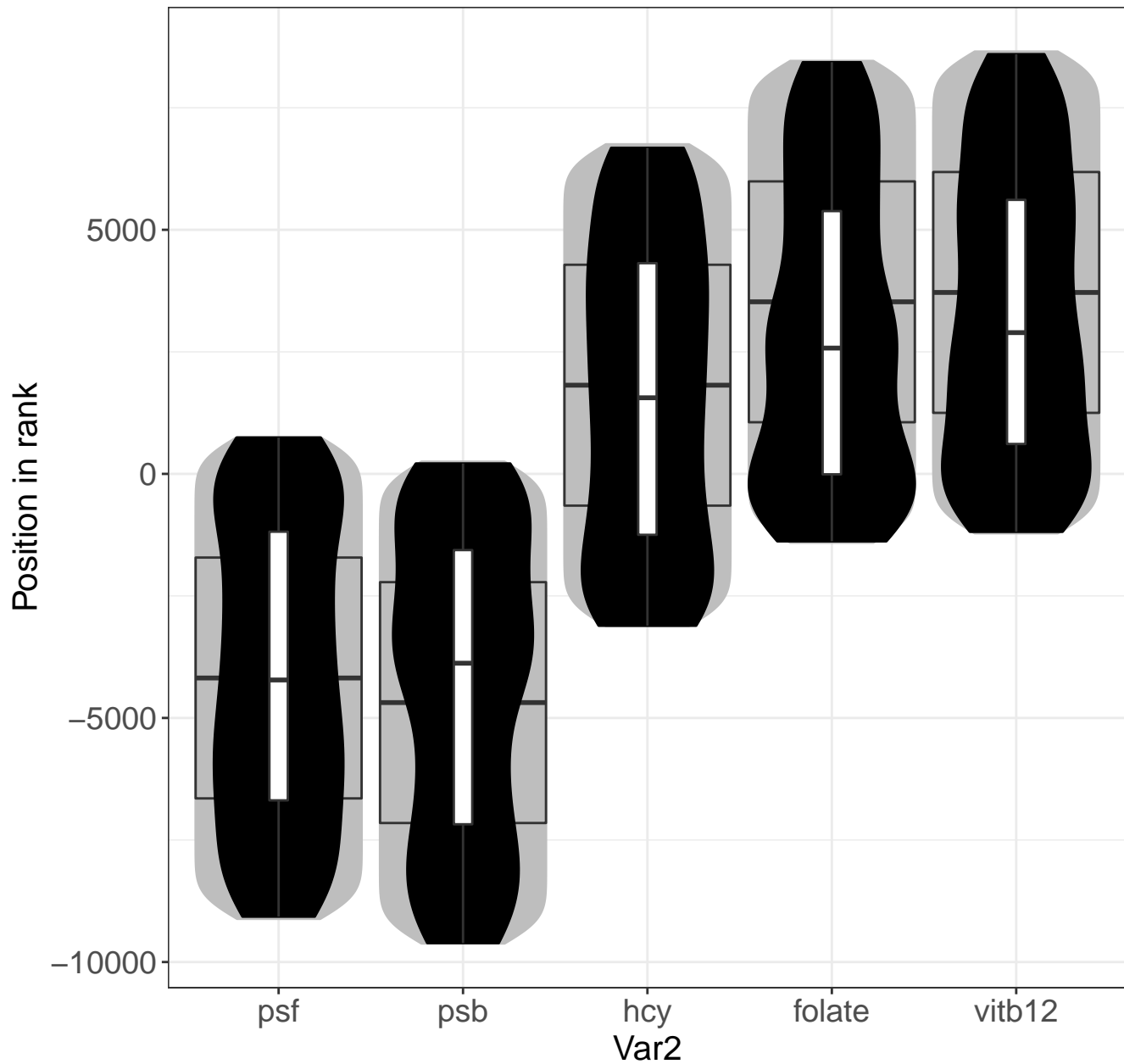
Signaling by GPCR



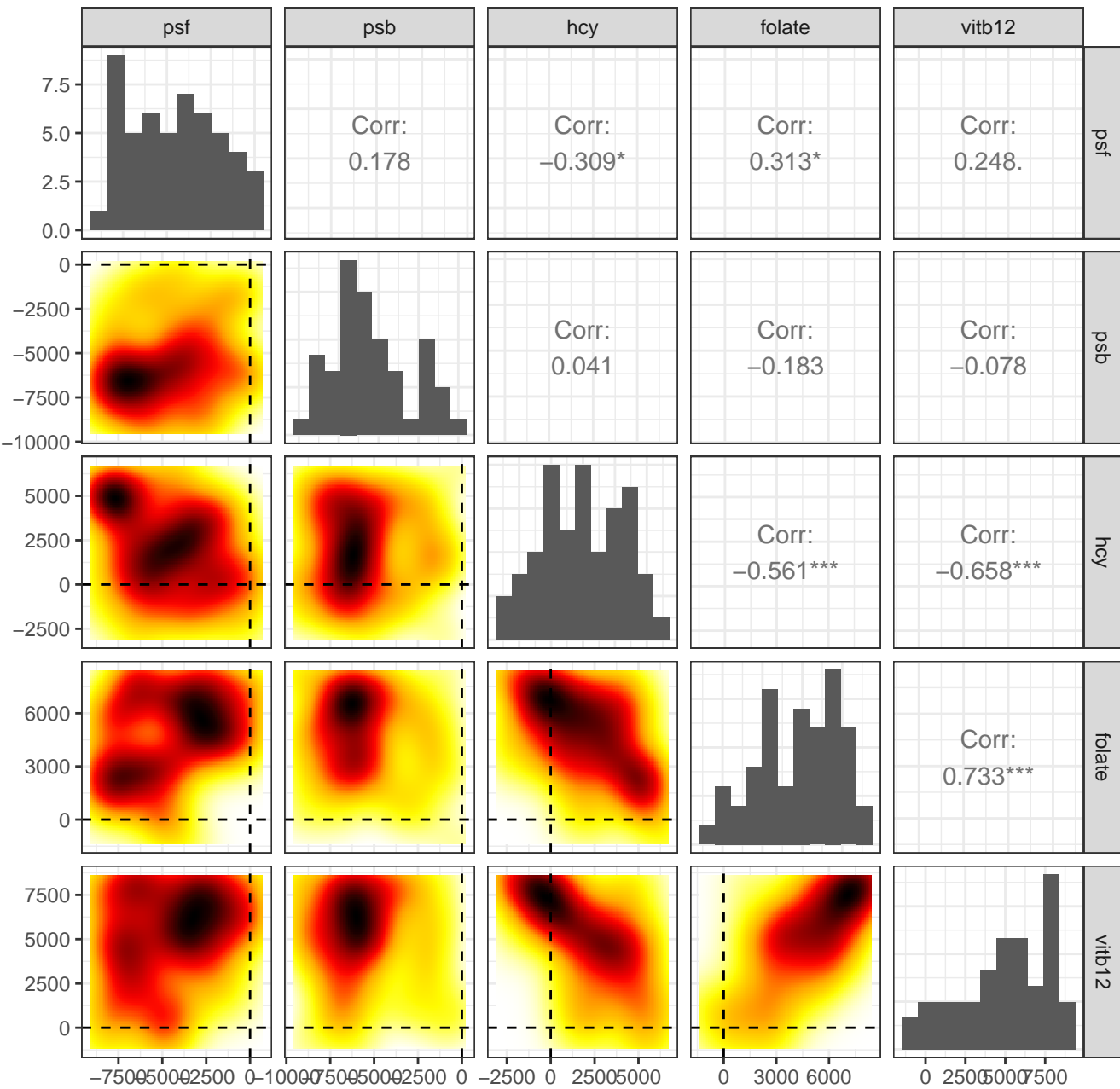
Signaling by GPCR



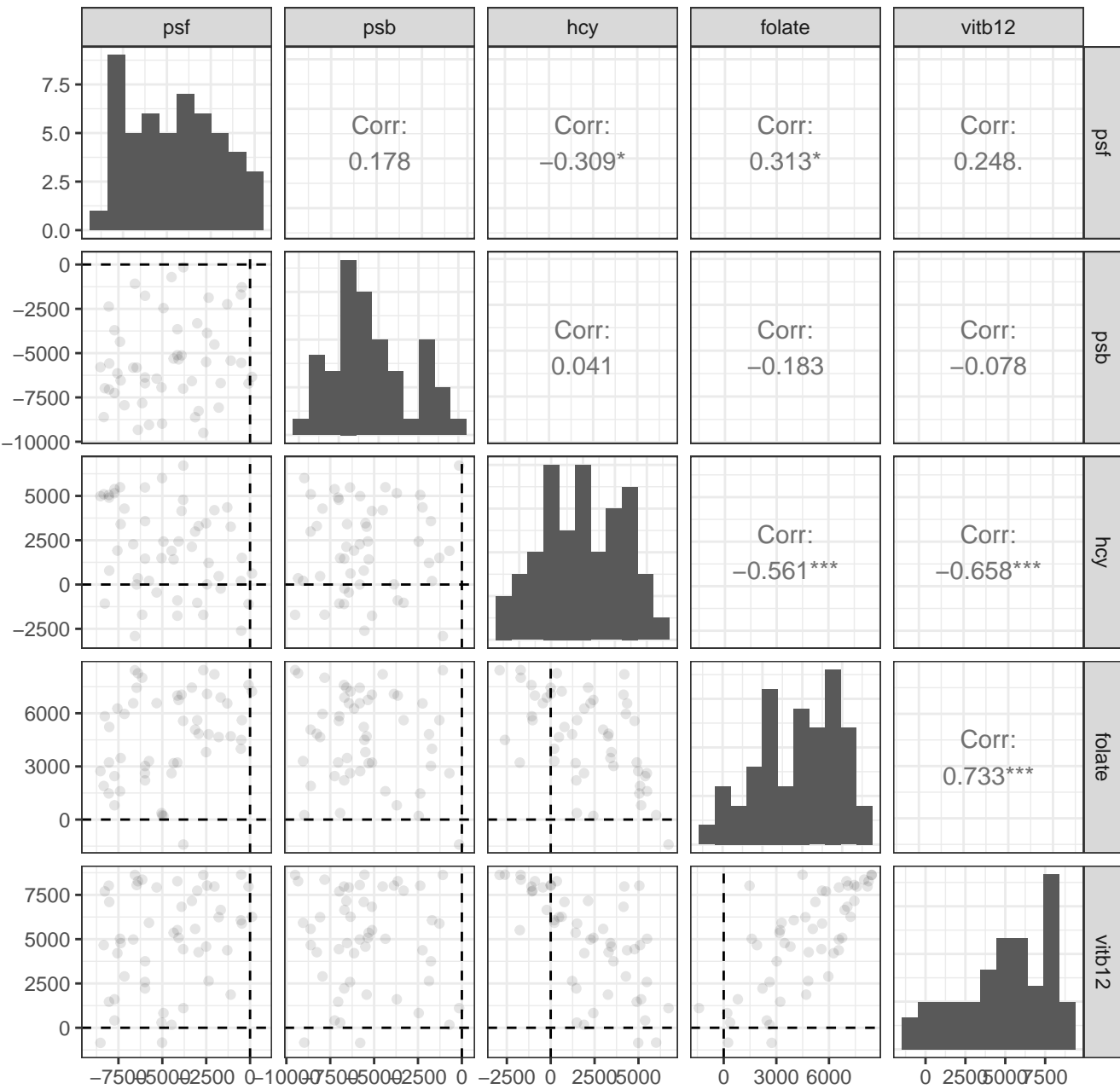
Signaling by GPCR



Defective CFTR causes cystic fibrosis



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