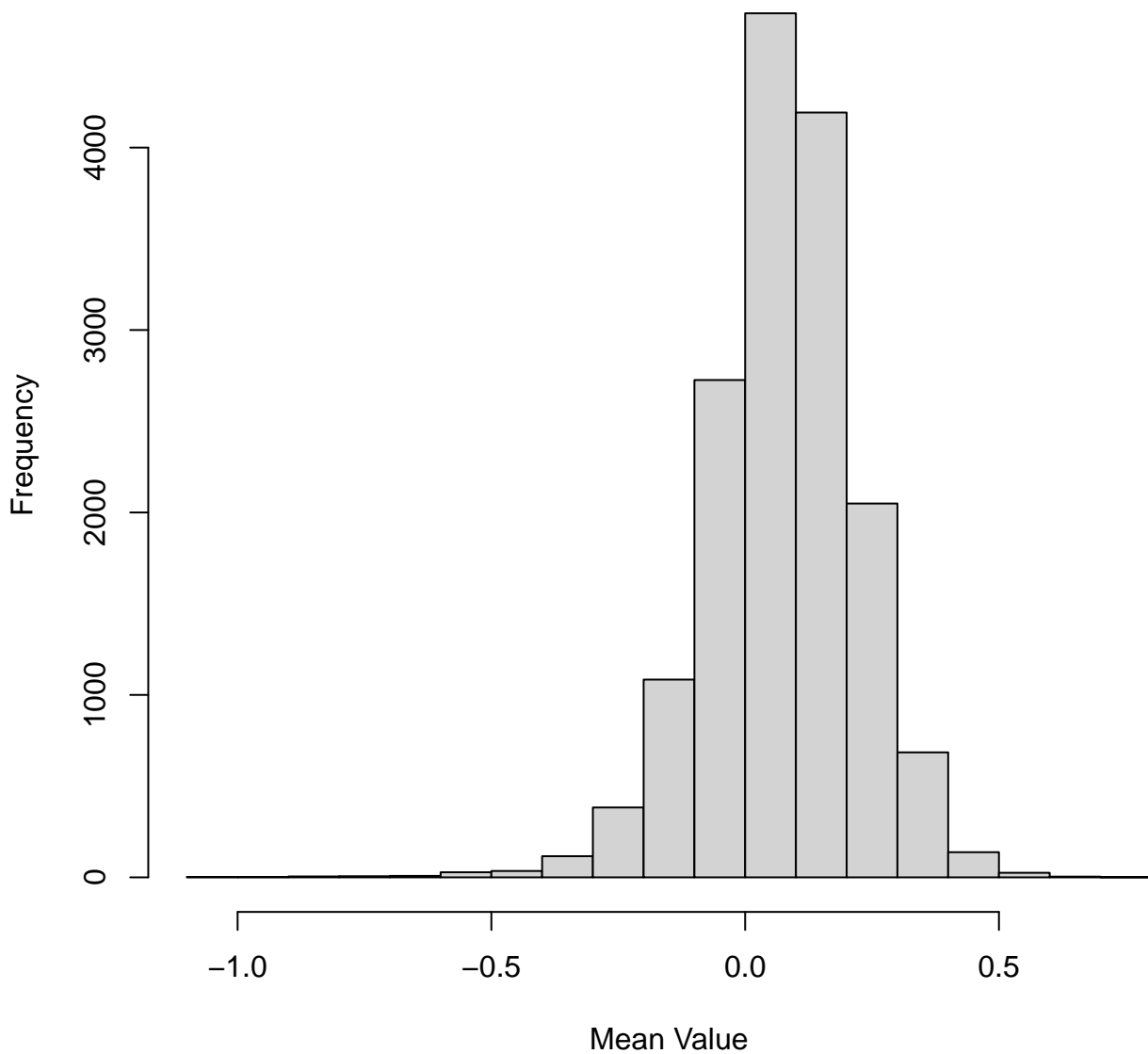


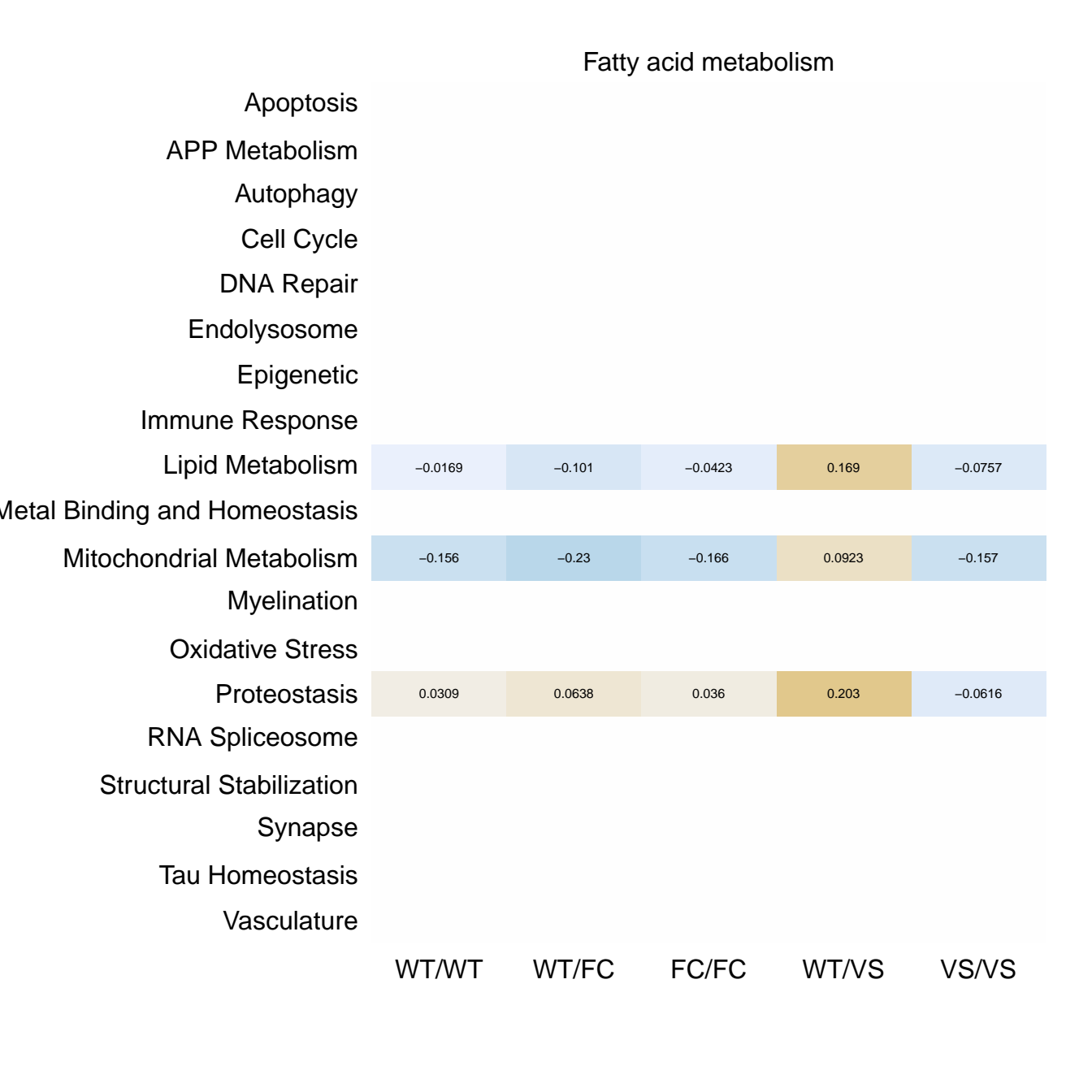
Mean Biodomain–Kegg Intersection Expression



Metabolic pathways					
Apoptosis	−0.00412	−0.0507	−0.0262	0.176	−0.0285
APP Metabolism					
Autophagy	0.0329	0.0684	0.0445	0.148	−0.0403
Cell Cycle	−0.0342	−0.0528	−0.0439	0.162	−0.0441
DNA Repair	0.0871	−0.0361	0.0635	0.19	0.0786
Endolysosome	−0.012	−0.0418	−0.0136	0.0751	−0.0596
Epigenetic	0.18	0.174	0.213	0.052	0.0908
Immune Response	0.0416	0.0247	0.0422	0.124	−0.00584
Lipid Metabolism	0.0222	0.00278	0.0302	0.121	−0.0276
Metal Binding and Homeostasis	0.00336	−0.0143	0.0104	0.0891	−0.0333
Mitochondrial Metabolism	−0.167	−0.303	−0.26	0.161	−0.0345
Myelination	0.0366	0.0297	0.0522	0.132	−0.164
Oxidative Stress	−0.138	−0.239	−0.22	0.16	−0.0244
Proteostasis	0.035	0.0567	0.0675	0.124	−0.00161
RNA Spliceosome					
Structural Stabilization	0.068	0.104	0.114	0.0837	−0.0156
Synapse	0.00192	0.0146	0.0398	0.076	−0.073
Tau Homeostasis					
Vasculature	0.0781	0.076	0.0995	0.0867	0.0313
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

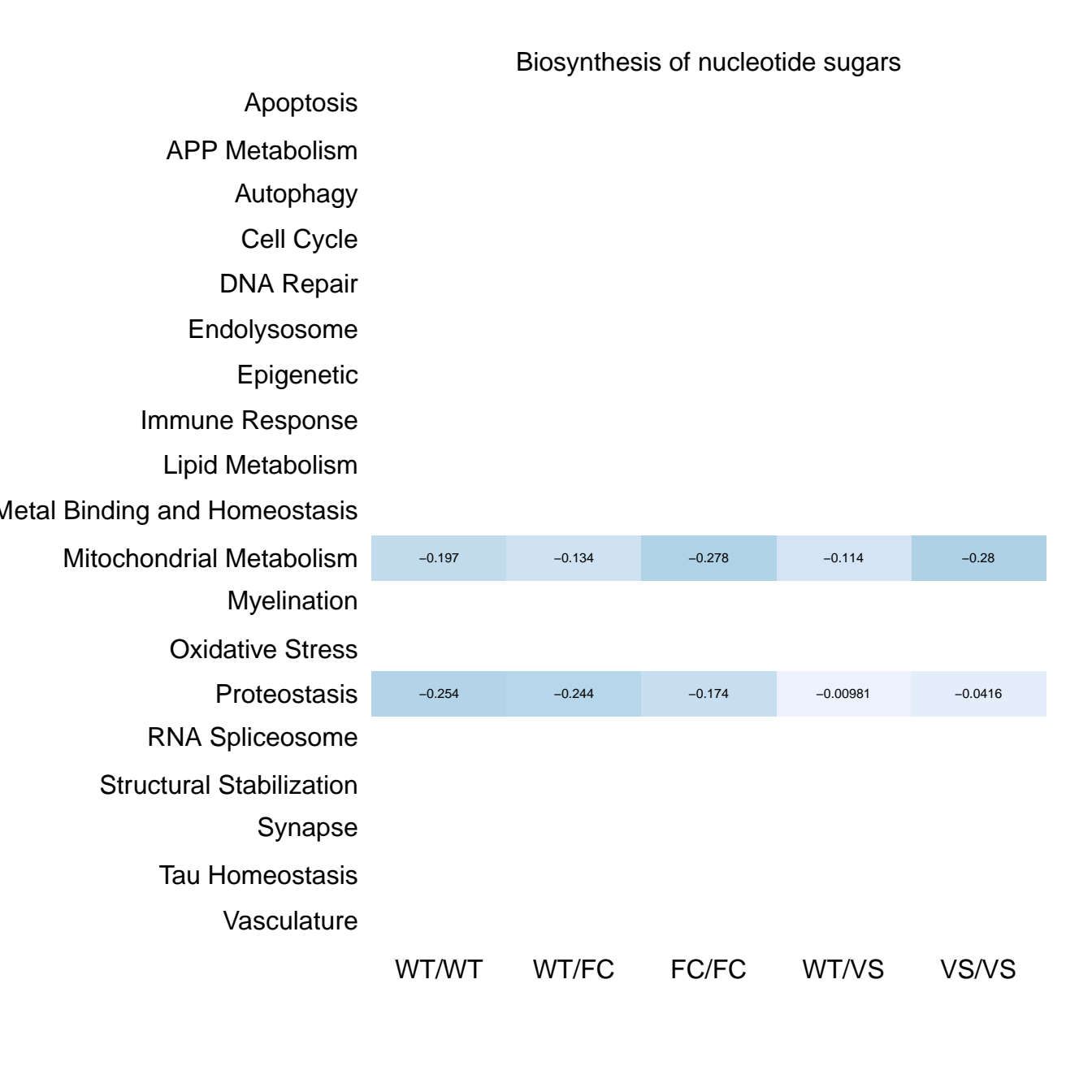
	Carbon metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	−0.0721	−0.0775	−0.109	0.0102	−0.0354
Lipid Metabolism	−0.155	−0.228	−0.222	0.0601	−0.224
Metal Binding and Homeostasis	−0.127	−0.238	−0.202	0.188	−0.132
Mitochondrial Metabolism	−0.152	−0.28	−0.258	0.214	−0.102
Myelination					
Oxidative Stress					
Proteostasis	−0.232	−0.367	−0.239	0.177	−0.116
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	2-Oxocarboxylic acid metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	-0.15	-0.238	-0.153	0.31	-0.132
Mitochondrial Metabolism	-0.0545	-0.158	-0.123	0.296	-0.0888
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Biosynthesis of amino acids					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	−0.0866	−0.177	−0.216	0.174	0.0279
Lipid Metabolism	−0.0863	−0.0526	−0.168	0.248	−0.0705
Metal Binding and Homeostasis	−0.129	−0.194	−0.193	0.175	−0.121
Mitochondrial Metabolism	−0.0801	−0.239	−0.241	0.339	0.0209
Myelination					
Oxidative Stress					
Proteostasis	−0.212	−0.266	−0.16	0.129	−0.0899
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

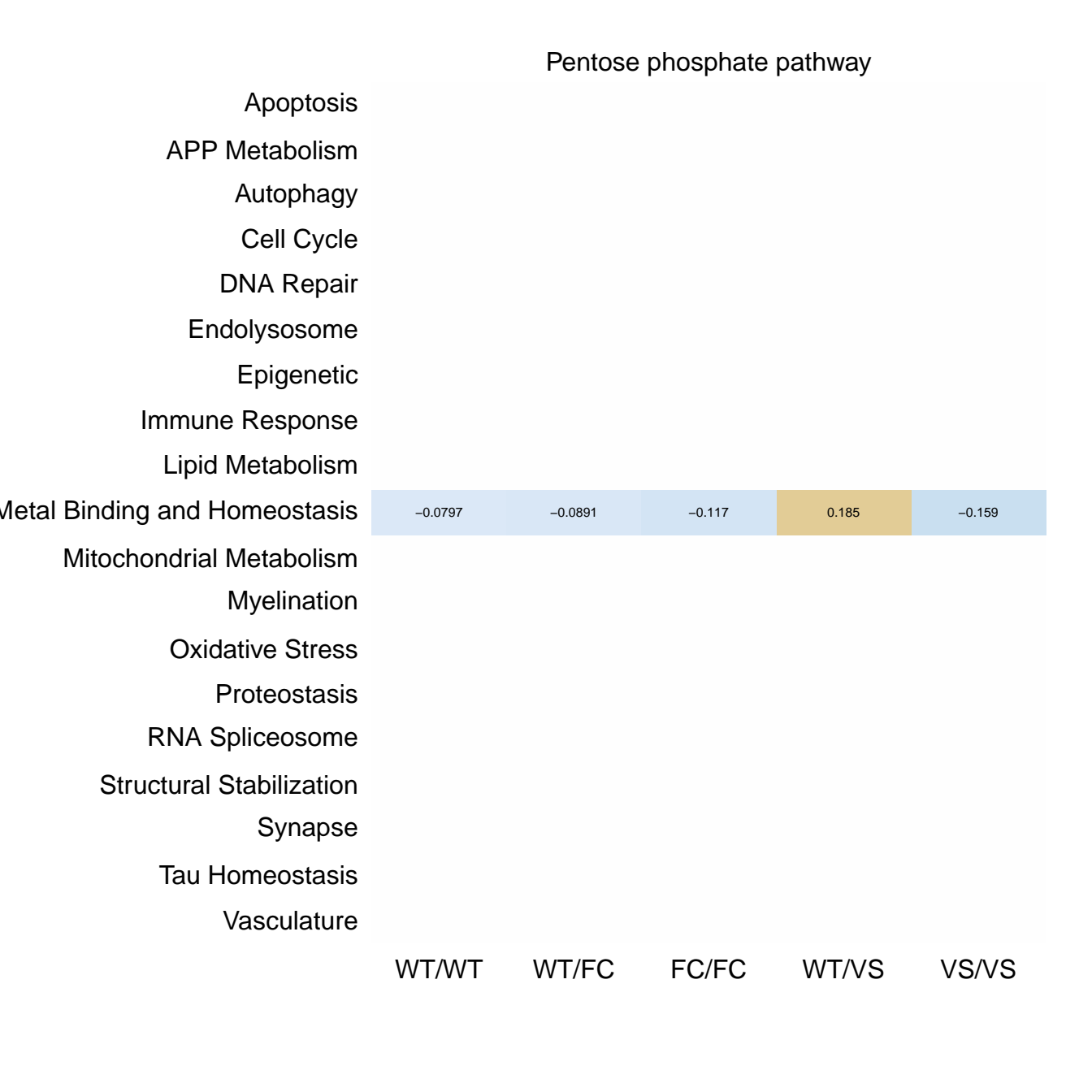
	Nucleotide metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	−0.16	−0.238	−0.206	0.152	−0.101
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	−0.144	−0.414	−0.322	0.239	−0.0717
Lipid Metabolism					
Metal Binding and Homeostasis	−0.154	−0.304	−0.233	0.205	−0.0297
Mitochondrial Metabolism	−0.057	−0.138	−0.0458	0.166	−0.0506
Myelination					
Oxidative Stress					
Proteostasis	0.0108	0.0331	−0.0204	0.331	−0.105
RNA Spliceosome					
Structural Stabilization	0.0369	0.0822	−0.0325	0.31	0.0428
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

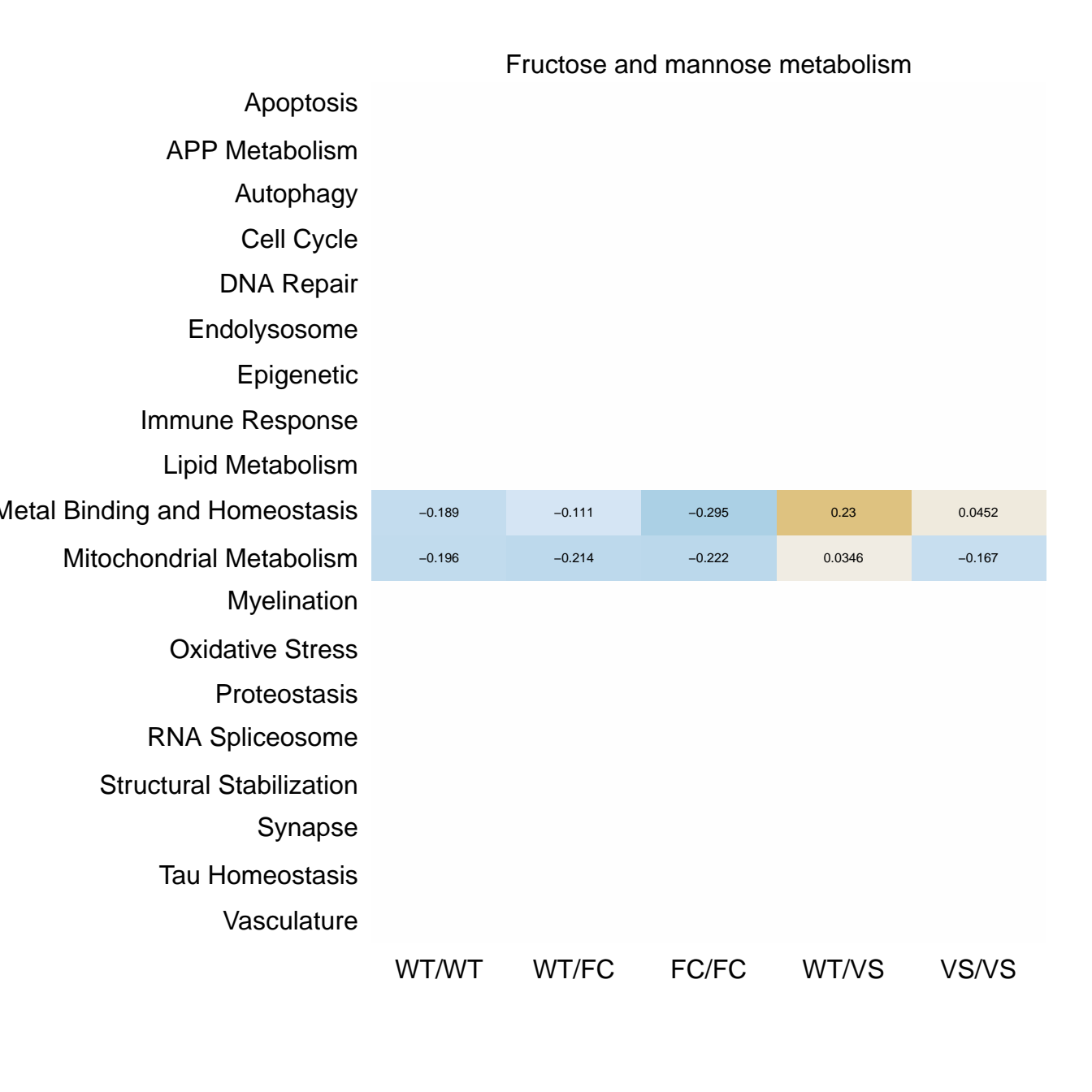


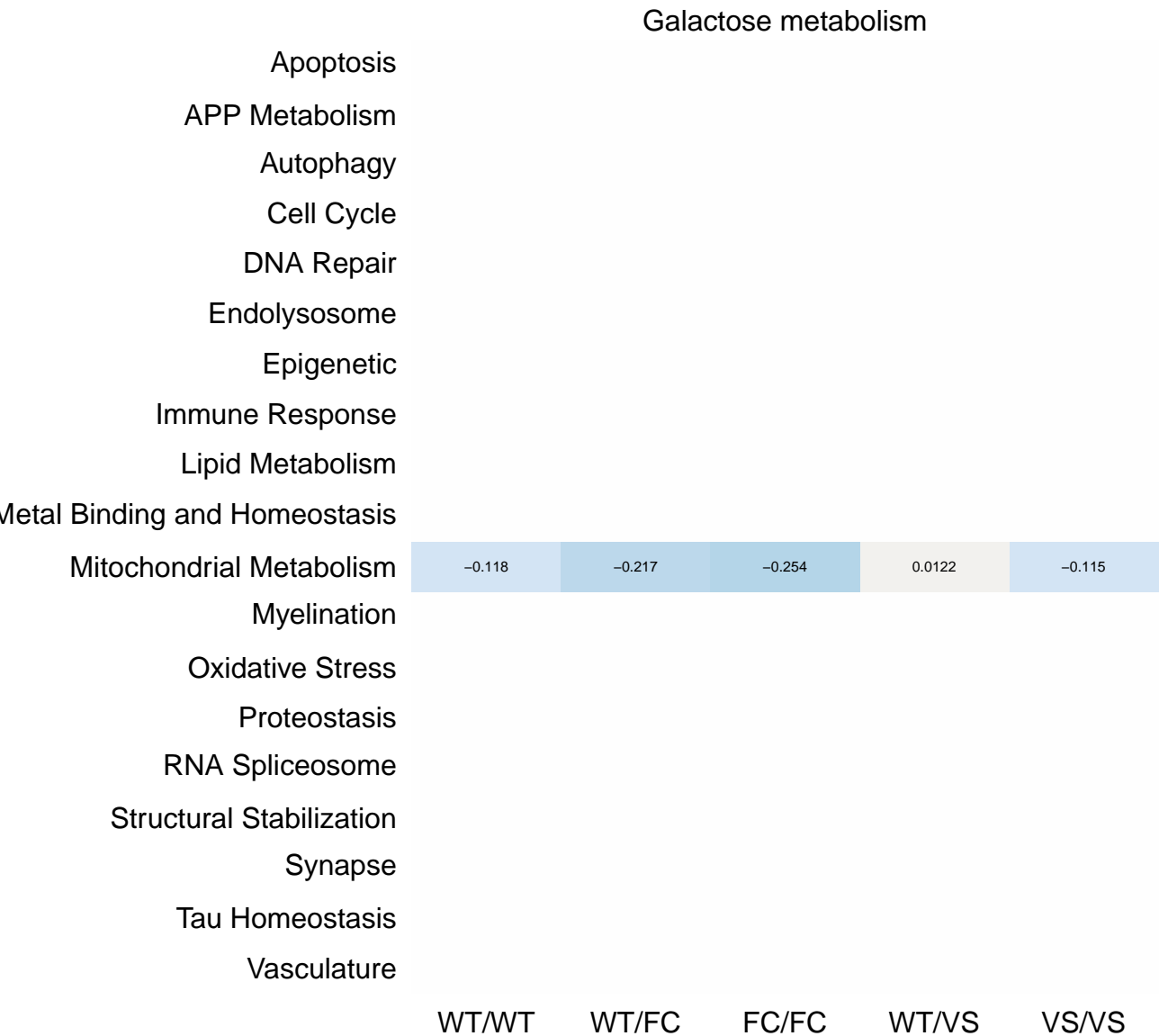
		Biosynthesis of cofactors				
APP Metabolism	Apoptosis	−0.121	−0.371	−0.241	0.326	0.0184
	Autophagy					
	Cell Cycle	−0.0163	−0.0168	−0.152	0.219	−0.0962
	DNA Repair					
	Endolysosome					
Lipid Metabolism	Epigenetic					
	Immune Response	−0.0779	−0.169	−0.186	0.168	−0.194
	Metal Binding and Homeostasis	−0.127	−0.273	−0.259	0.172	−0.0921
Mitochondrial Metabolism		−0.124	−0.197	−0.297	0.153	−0.0965
	Myelination					
	Oxidative Stress	−0.173	−0.226	−0.256	0.156	−0.153
RNA Spliceosome	Proteostasis	−0.15	−0.3	−0.213	0.0994	−0.0762
	Structural Stabilization	−0.0339	−0.163	−0.171	0.206	0.105
	Synapse	−0.0412	−0.162	−0.00475	0.148	−0.133
Tau Homeostasis	Vasculature					
		WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

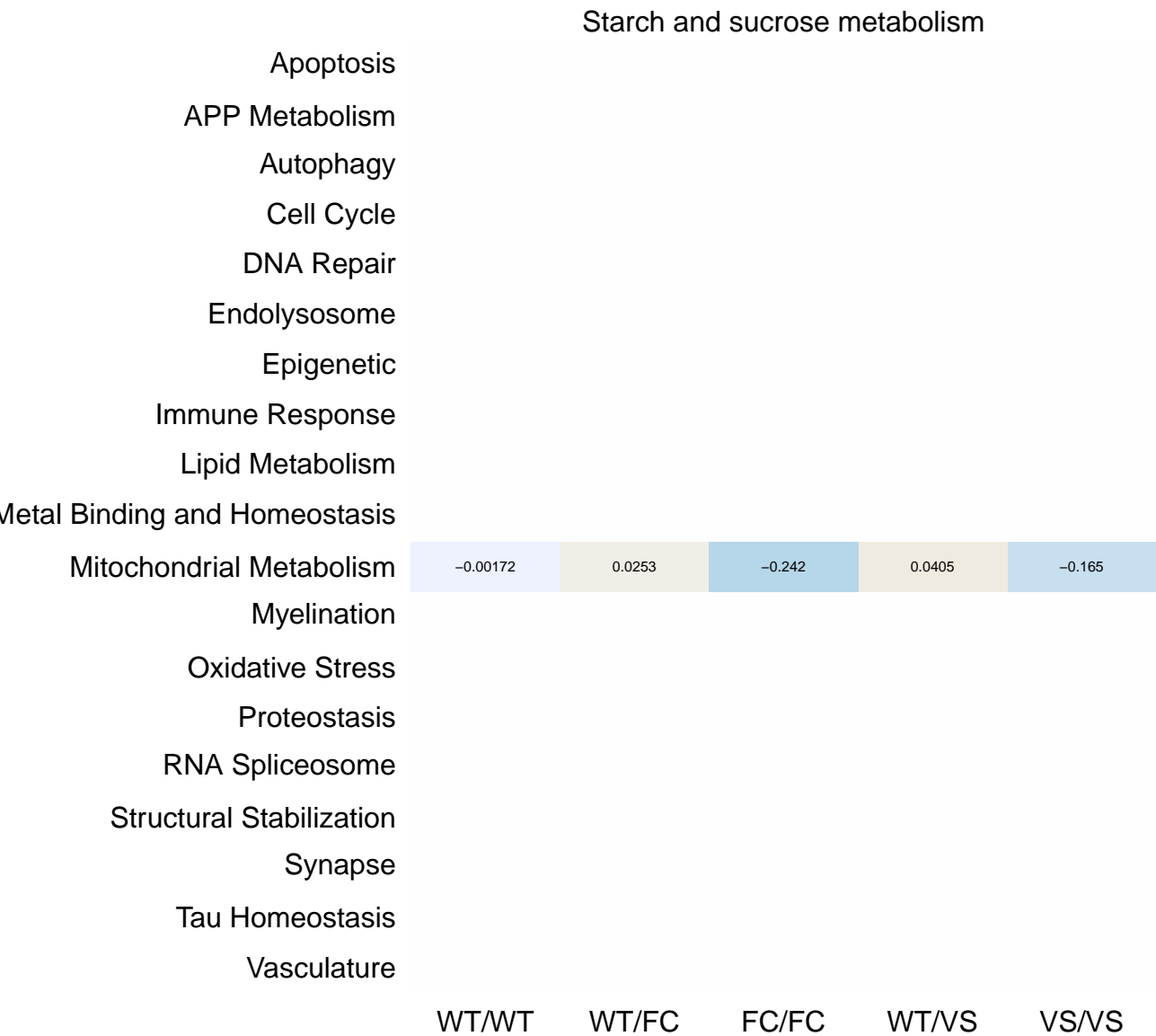
Glycolysis / Gluconeogenesis					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	-0.167	-0.328	-0.0979	0.114	-0.0715
Metal Binding and Homeostasis	0.000452	-0.311	-0.147	0.236	0.0685
Mitochondrial Metabolism	-0.168	-0.232	-0.243	0.191	-0.000271
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

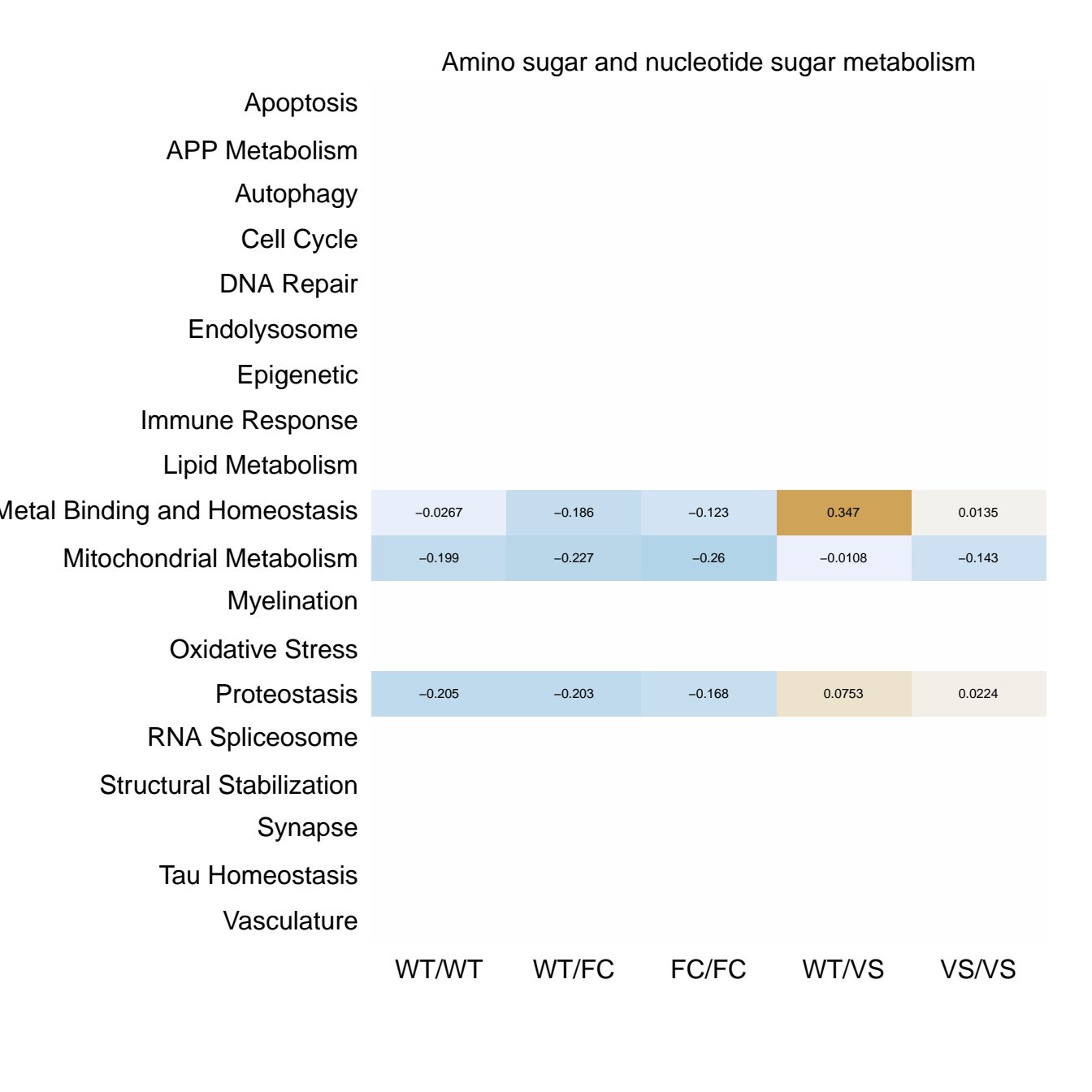
	Citrate cycle (TCA cycle)				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	−0.0774	−0.141	−0.155	0.333	−0.0863
Mitochondrial Metabolism	−0.107	−0.266	−0.218	0.374	−0.0717
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS





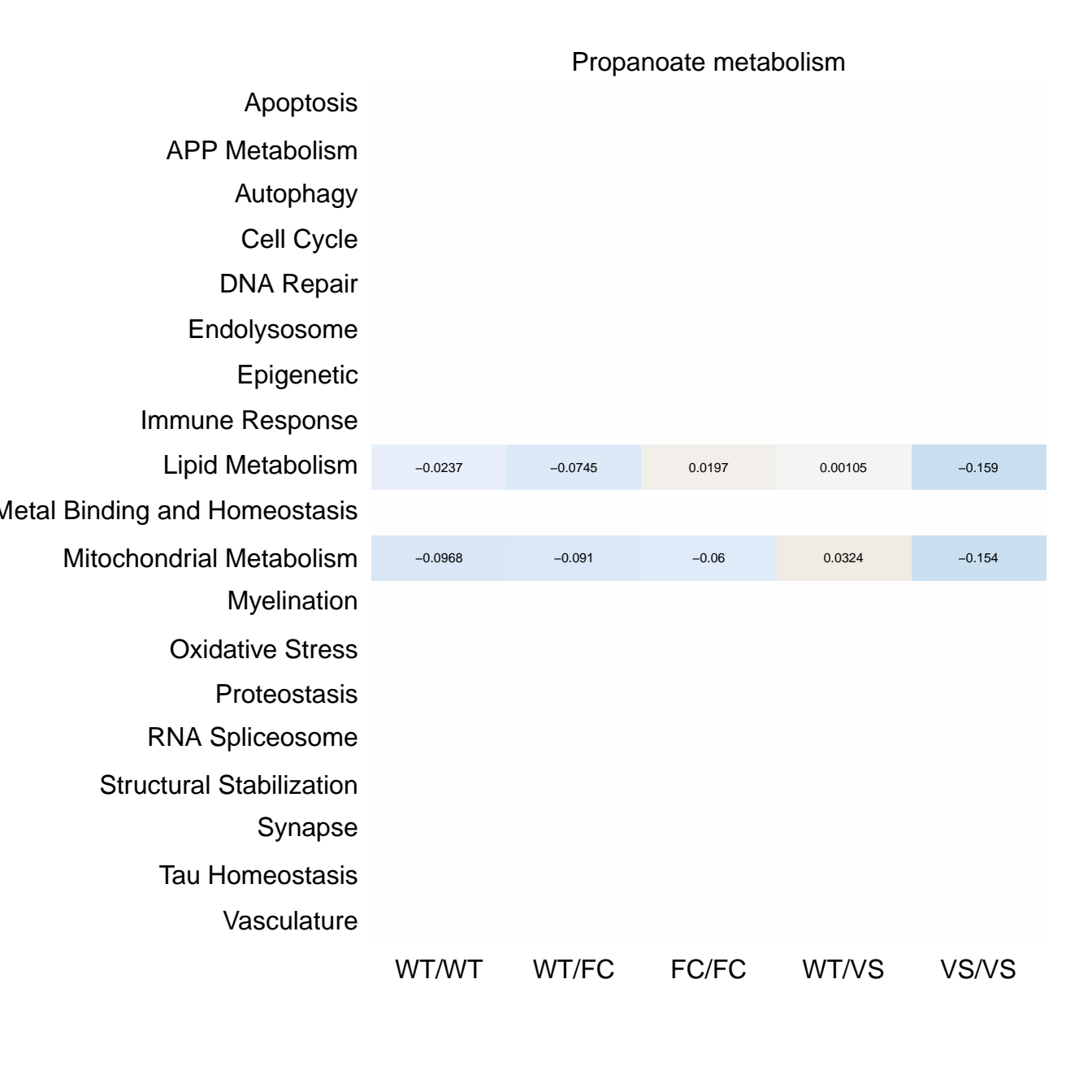


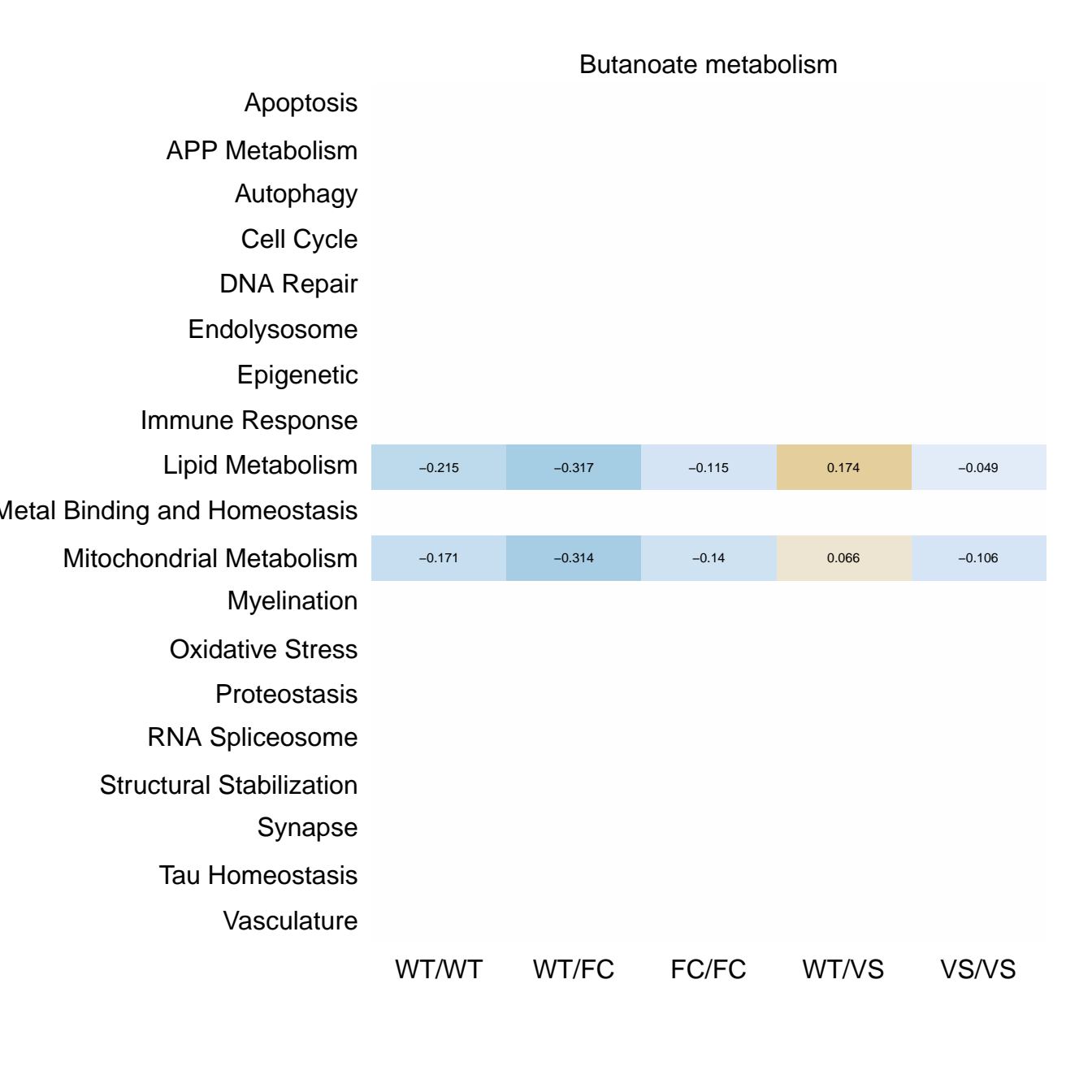






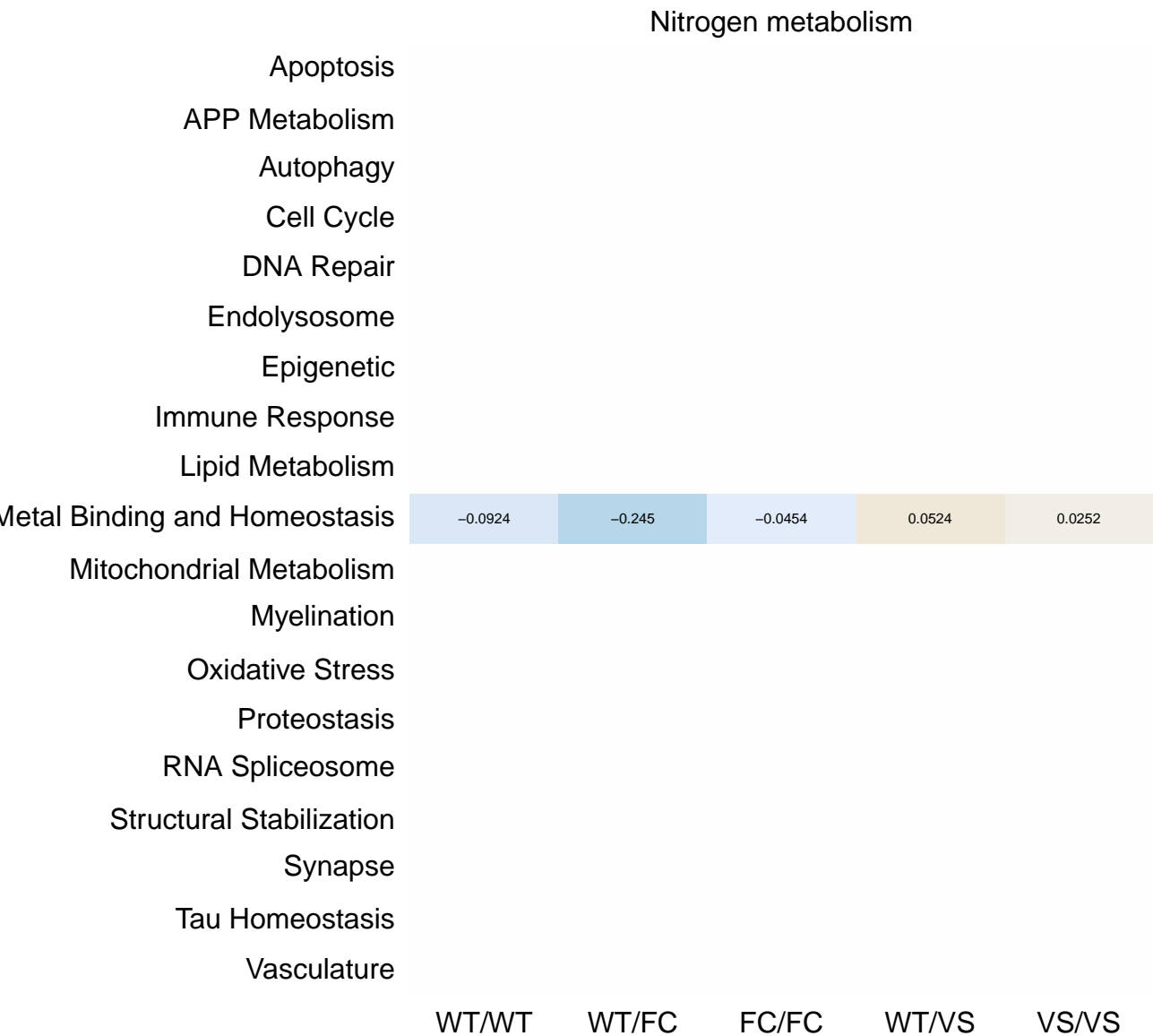
Glyoxylate and dicarboxylate metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	-0.293	-0.408	-0.41	-0.0446	-0.291
Metal Binding and Homeostasis	-0.228	-0.33	-0.236	-0.0104	-0.3
Mitochondrial Metabolism	-0.253	-0.358	-0.258	0.00387	-0.235
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

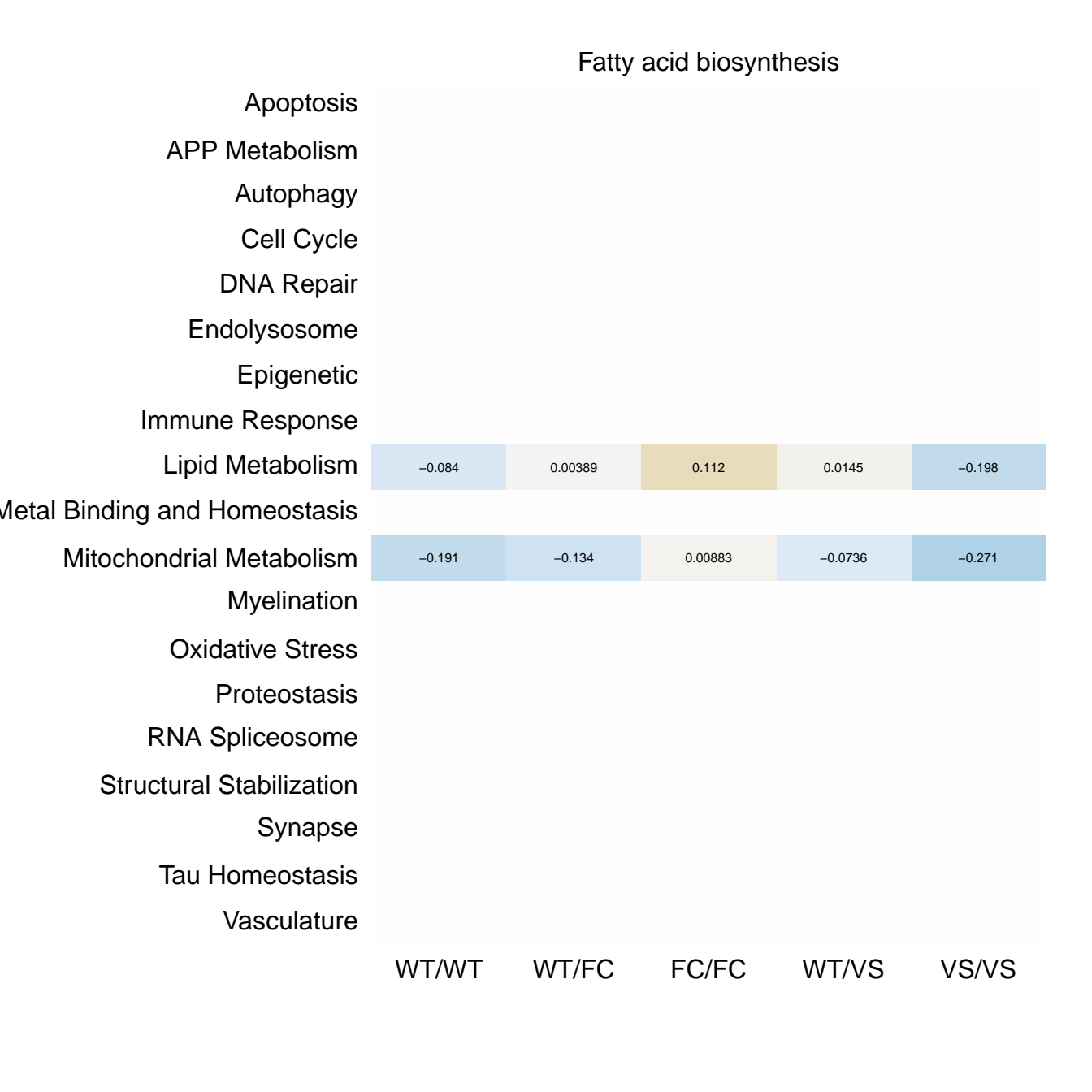


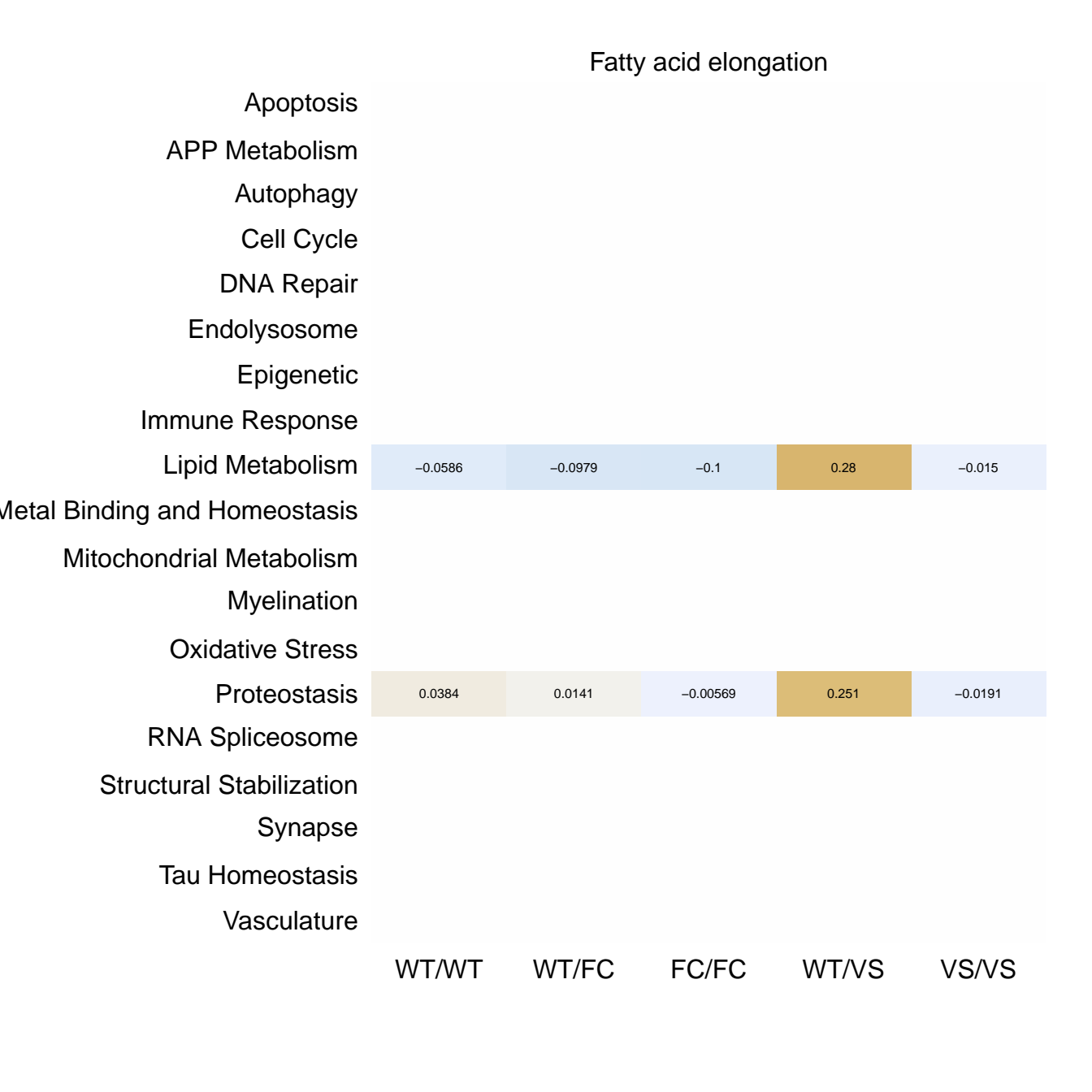


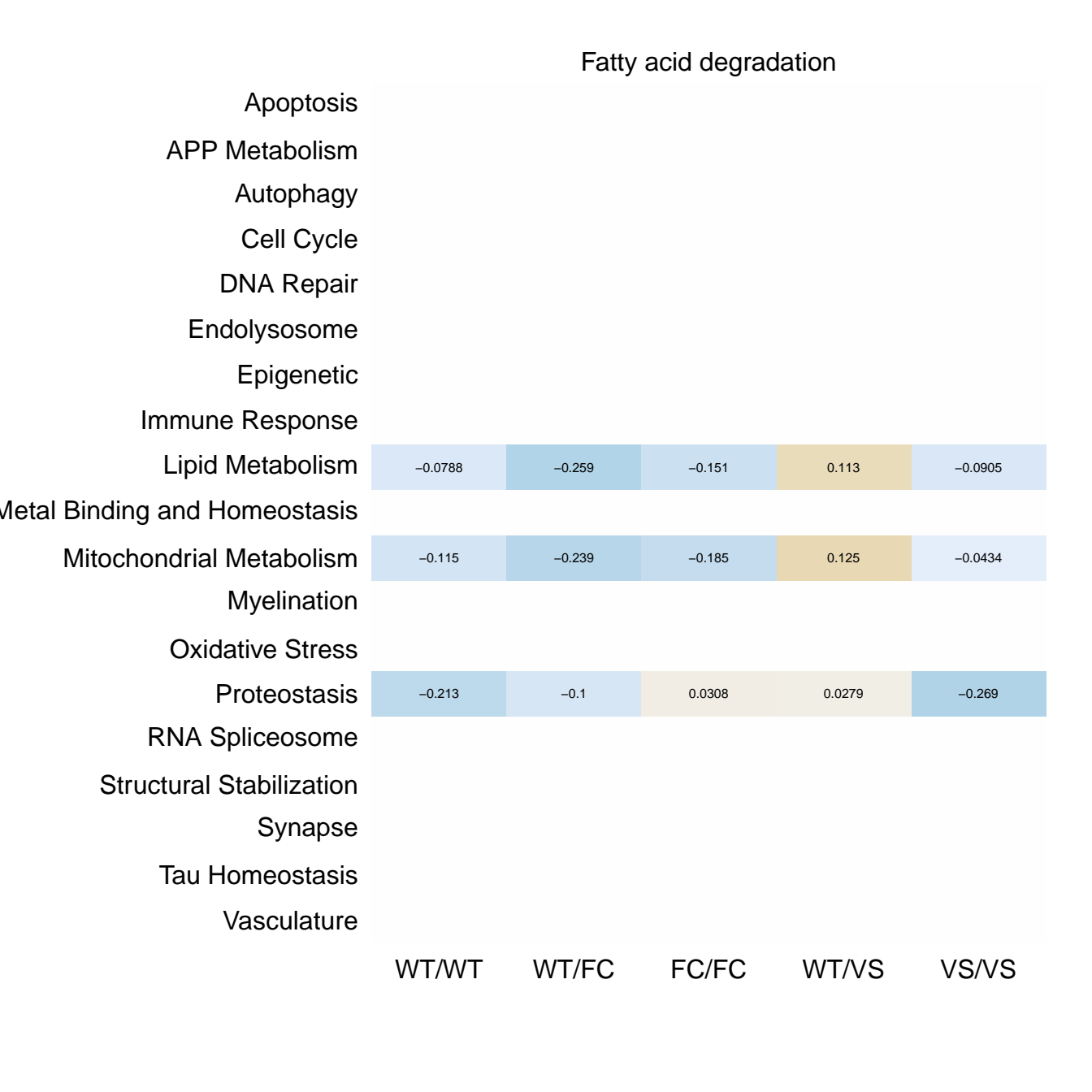
Inositol phosphate metabolism					
Apoptosis					
APP Metabolism					
Autophagy	0.193	0.419	0.384	−0.00725	−0.127
Cell Cycle					
DNA Repair					
Endolysosome	0.155	0.377	0.387	−0.027	−0.256
Epigenetic					
Immune Response	0.116	0.235	0.322	−0.0328	−0.0498
Lipid Metabolism	0.111	0.254	0.278	0.0308	−0.0923
Metal Binding and Homeostasis	0.221	0.221	0.322	0.137	0.0703
Mitochondrial Metabolism	0.0876	0.134	0.262	0.0656	−0.0431
Myelination					
Oxidative Stress					
Proteostasis	0.102	0.213	0.309	0.0298	−0.18
RNA Spliceosome					
Structural Stabilization	0.112	0.3	0.303	−0.145	−0.12
Synapse	0.12	0.213	0.327	0.0634	−0.124
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

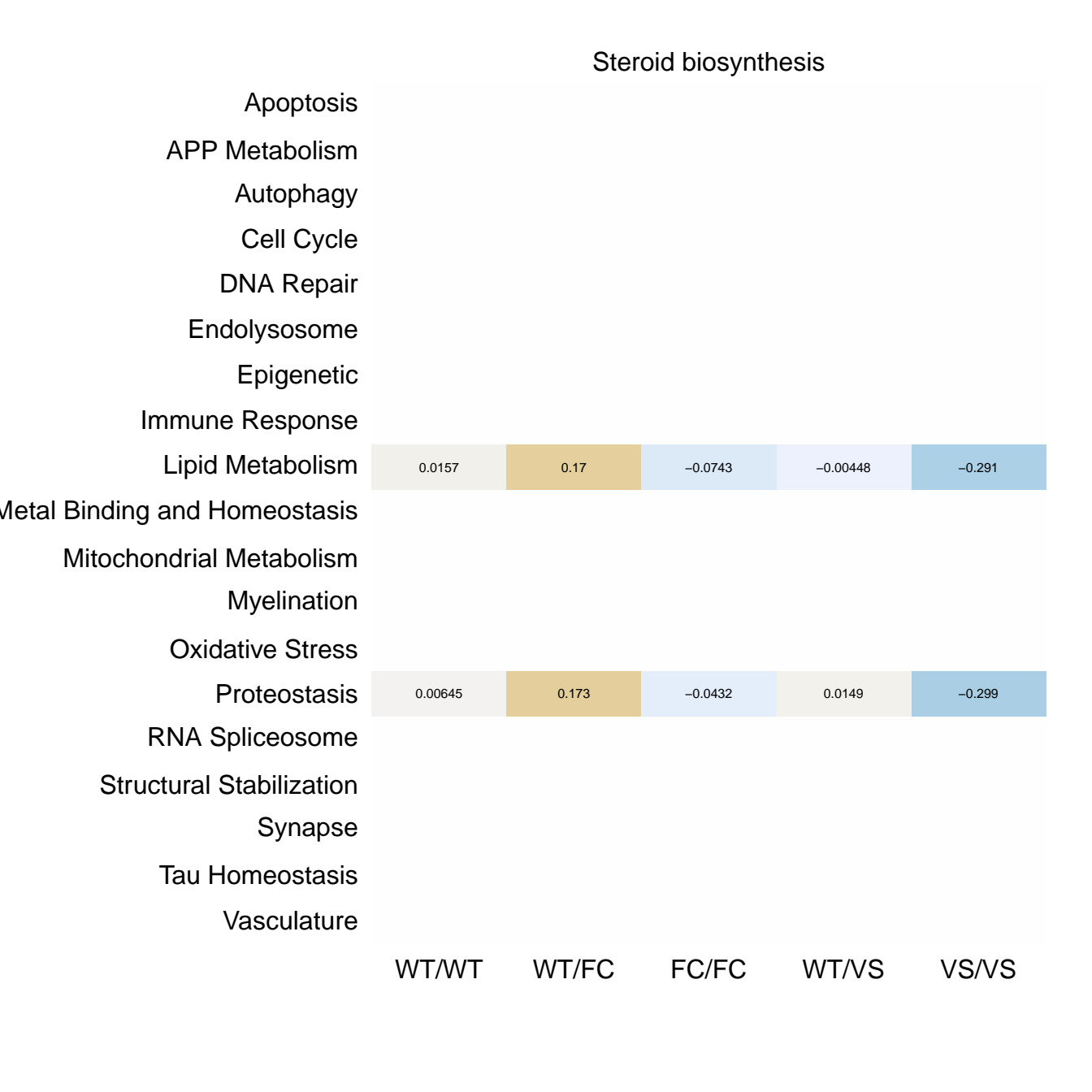
	Oxidative phosphorylation				
Apoptosis					
APP Metabolism					
Autophagy	−0.206	−0.341	−0.321	0.285	−0.00915
Cell Cycle					
DNA Repair					
Endolysosome	−0.281	−0.49	−0.441	0.295	−0.0264
Epigenetic					
Immune Response	−0.0055	−0.267	−0.151	0.498	0.215
Lipid Metabolism	−0.256	−0.601	−0.603	0.191	−0.023
Metal Binding and Homeostasis	−0.333	−0.644	−0.556	0.351	0.0851
Mitochondrial Metabolism	−0.512	−0.795	−0.77	0.144	−0.0532
Myelination					
Oxidative Stress	−0.597	−0.843	−0.769	0.013	−0.201
Proteostasis	−0.305	−0.484	−0.383	0.347	0.0234
RNA Spliceosome					
Structural Stabilization					
Synapse	−0.345	−0.48	−0.426	0.249	−0.0941
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



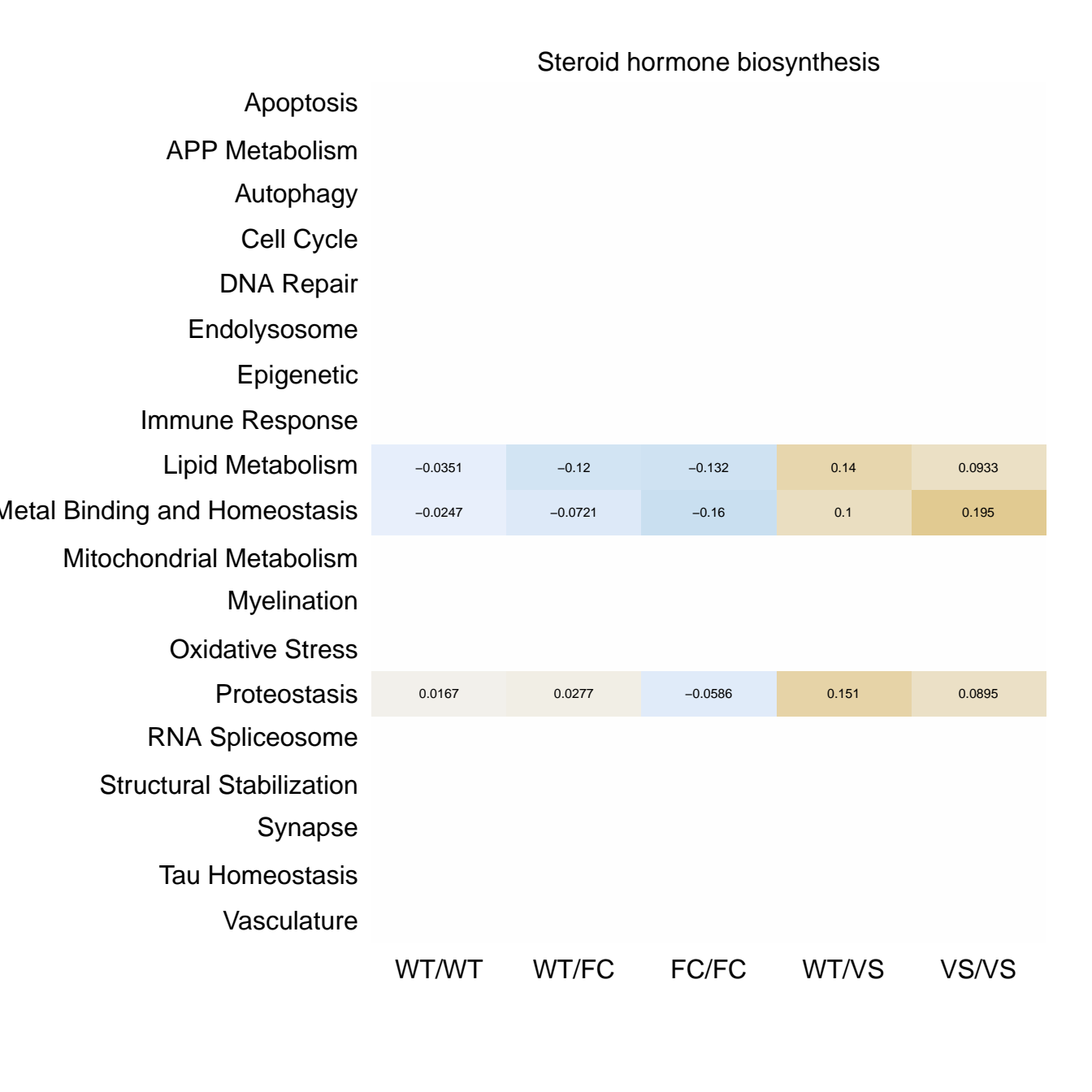










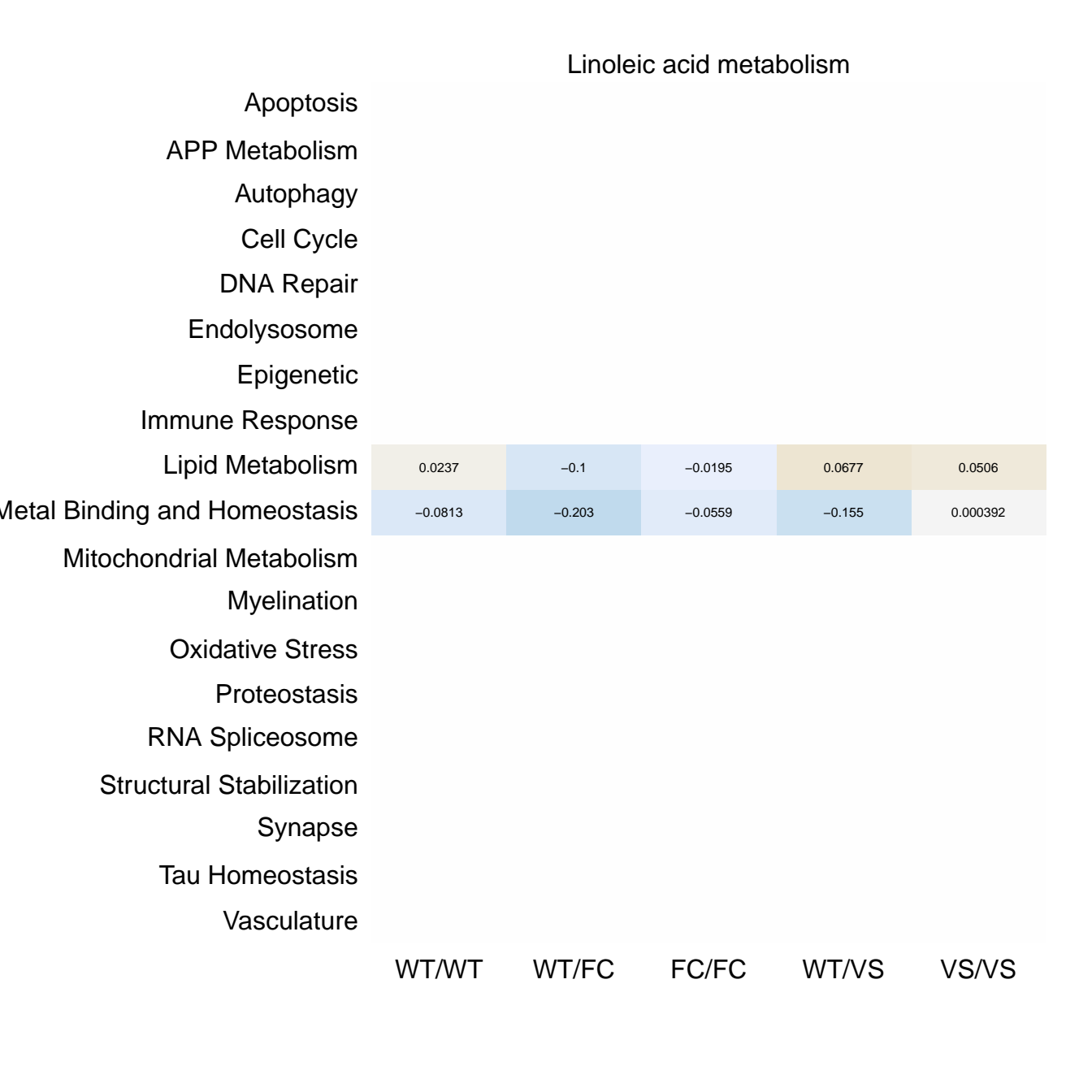


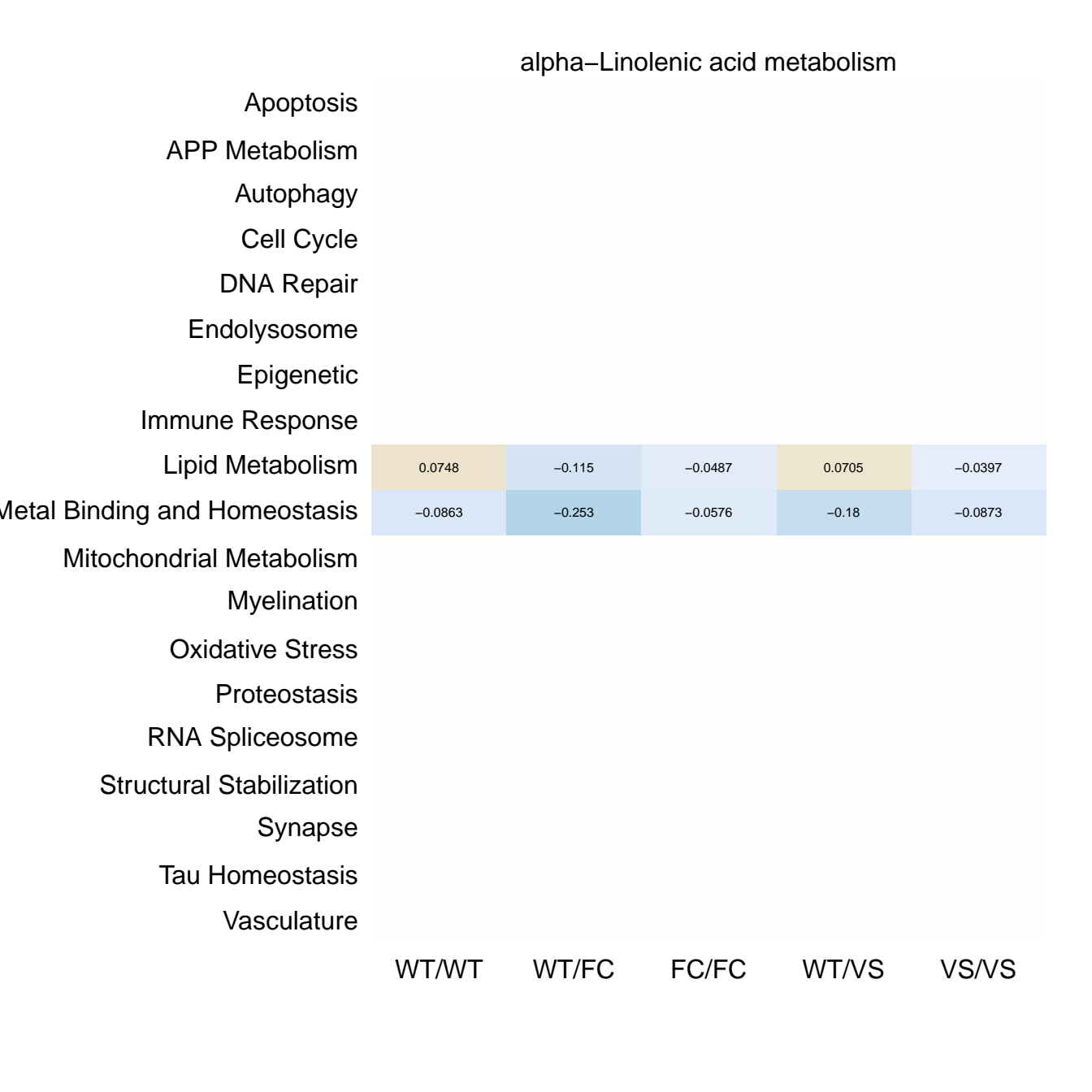
Glycerophospholipid metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0475	−0.0217	−0.109	−0.0972	0.0115
Epigenetic					
Immune Response	0.109	−0.0156	−0.00122	0.261	0.139
Lipid Metabolism	0.13	0.136	0.142	0.11	0.0247
Metal Binding and Homeostasis	−0.0176	0.0139	0.0922	−0.133	−0.131
Mitochondrial Metabolism	0.0969	0.0805	−0.00706	0.076	−0.0796
Myelination					
Oxidative Stress					
Proteostasis	0.21	0.276	0.197	0.244	0.0652
RNA Spliceosome					
Structural Stabilization	0.31	0.291	0.267	0.261	0.131
Synapse	0.142	0.203	0.168	−0.0209	0.012
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

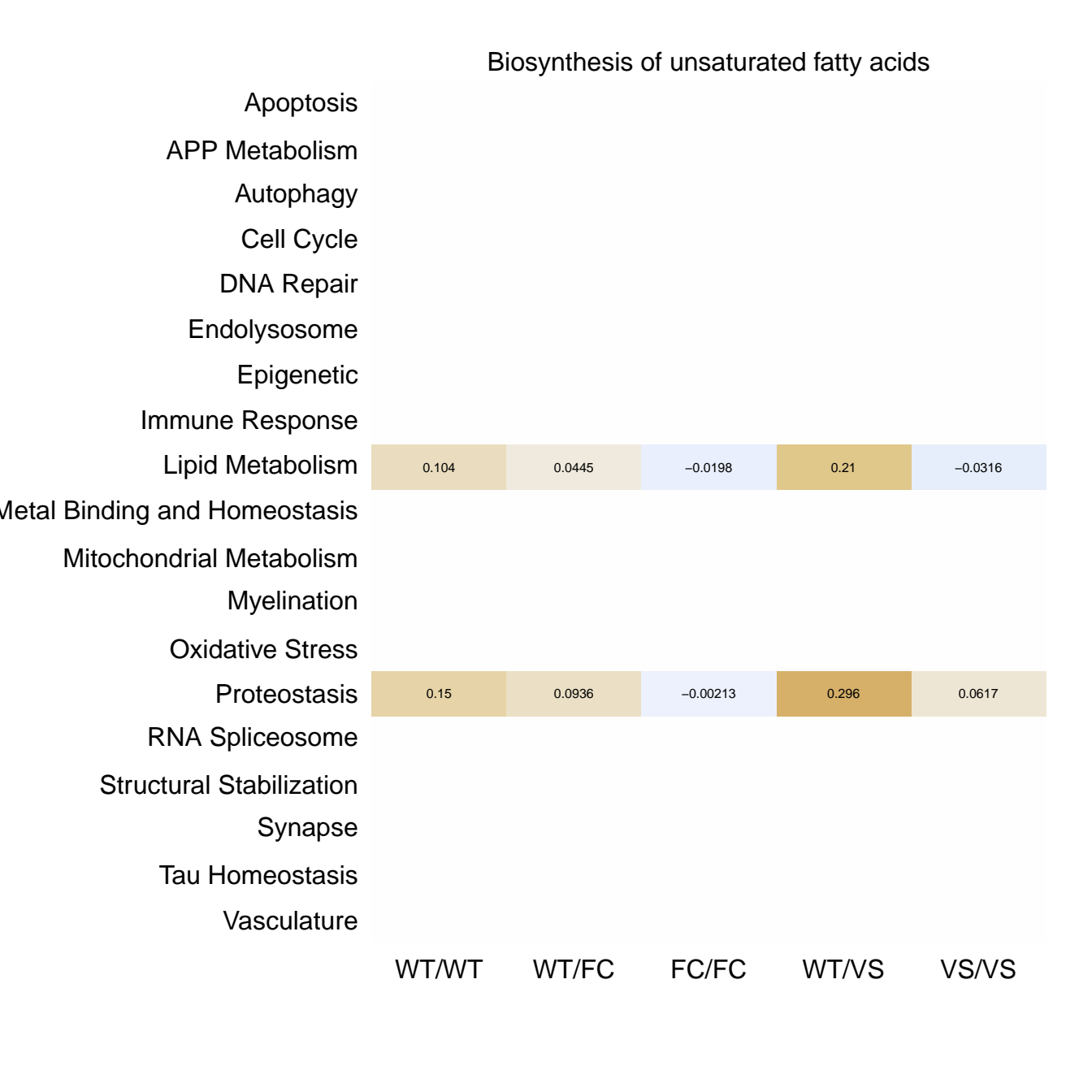
Ether lipid metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	-0.161	-0.161	-0.257	-0.146	-0.0526
Epigenetic					
Immune Response	0.0545	0.0565	0.0269	0.108	-0.00477
Lipid Metabolism	0.0508	0.0239	-0.0252	0.0965	-0.0706
Metal Binding and Homeostasis	-0.0641	-0.12	-0.0583	-0.152	-0.191
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0553	0.0283	-0.0726	0.199	-0.0126
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

SpHINGOLIPID METABOLISM					
Apoptosis	0.304	0.345	0.295	0.274	0.076
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.0446	-0.0256	0.0693	0.127	-0.0873
Epigenetic					
Immune Response	0.162	0.319	0.371	0.238	0.142
Lipid Metabolism	0.107	0.117	0.117	0.0743	-0.0533
Metal Binding and Homeostasis	0.216	0.225	0.307	0.184	0.155
Mitochondrial Metabolism					
Myelination	-0.0351	0.082	-0.0218	0.00639	-0.192
Oxidative Stress					
Proteostasis	0.108	0.194	0.134	0.0777	-0.0194
RNA Spliceosome					
Structural Stabilization					
Synapse	0.104	0.17	0.108	0.209	-0.0222
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Arachidonic acid metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.14	0.0493	0.0739	0.218	0.0954
Lipid Metabolism	-0.0196	-0.103	-0.0793	0.121	0.0161
Metal Binding and Homeostasis	-0.094	-0.123	-0.06	-0.0635	-0.0828
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0595	0.0251	0.00613	0.188	0.152
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



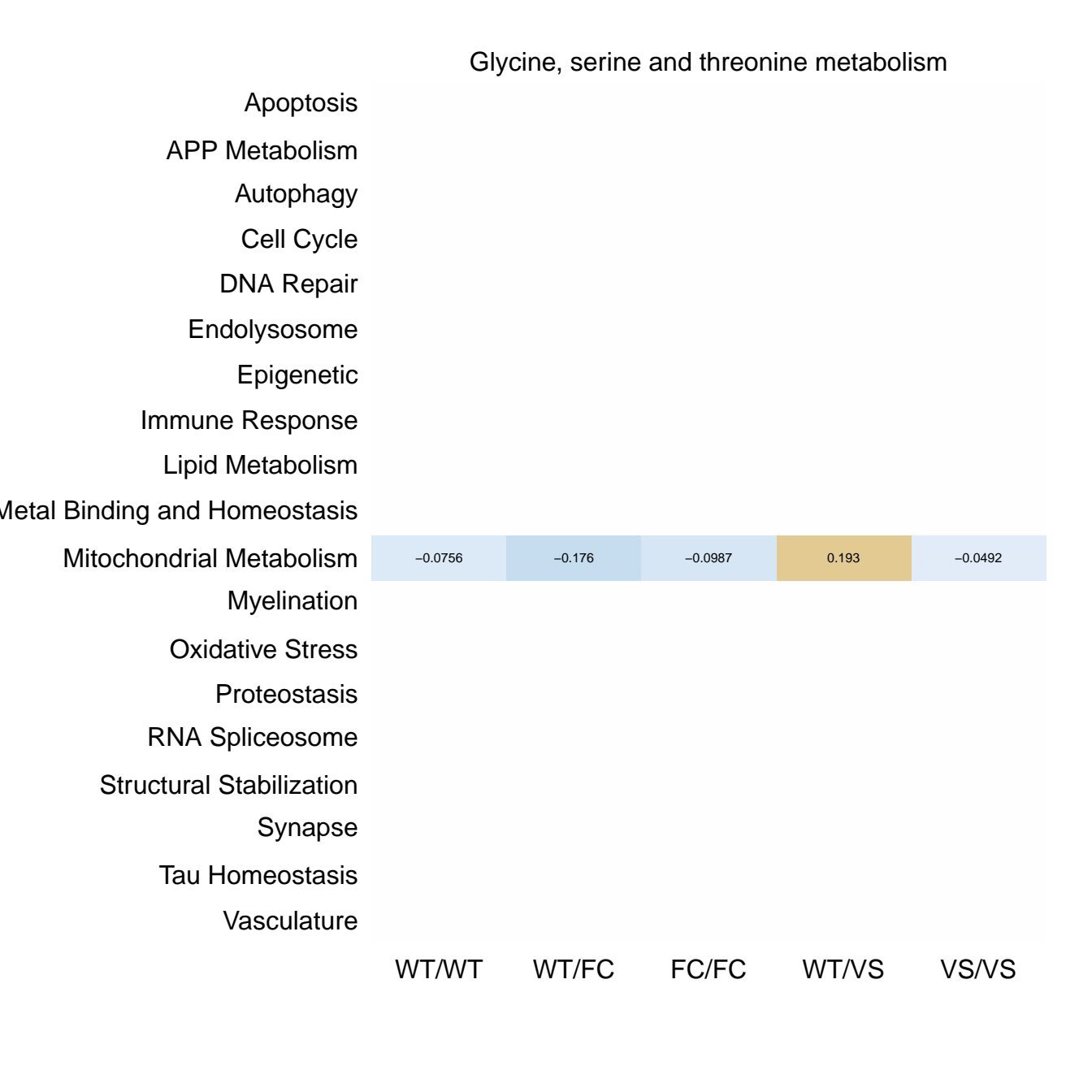


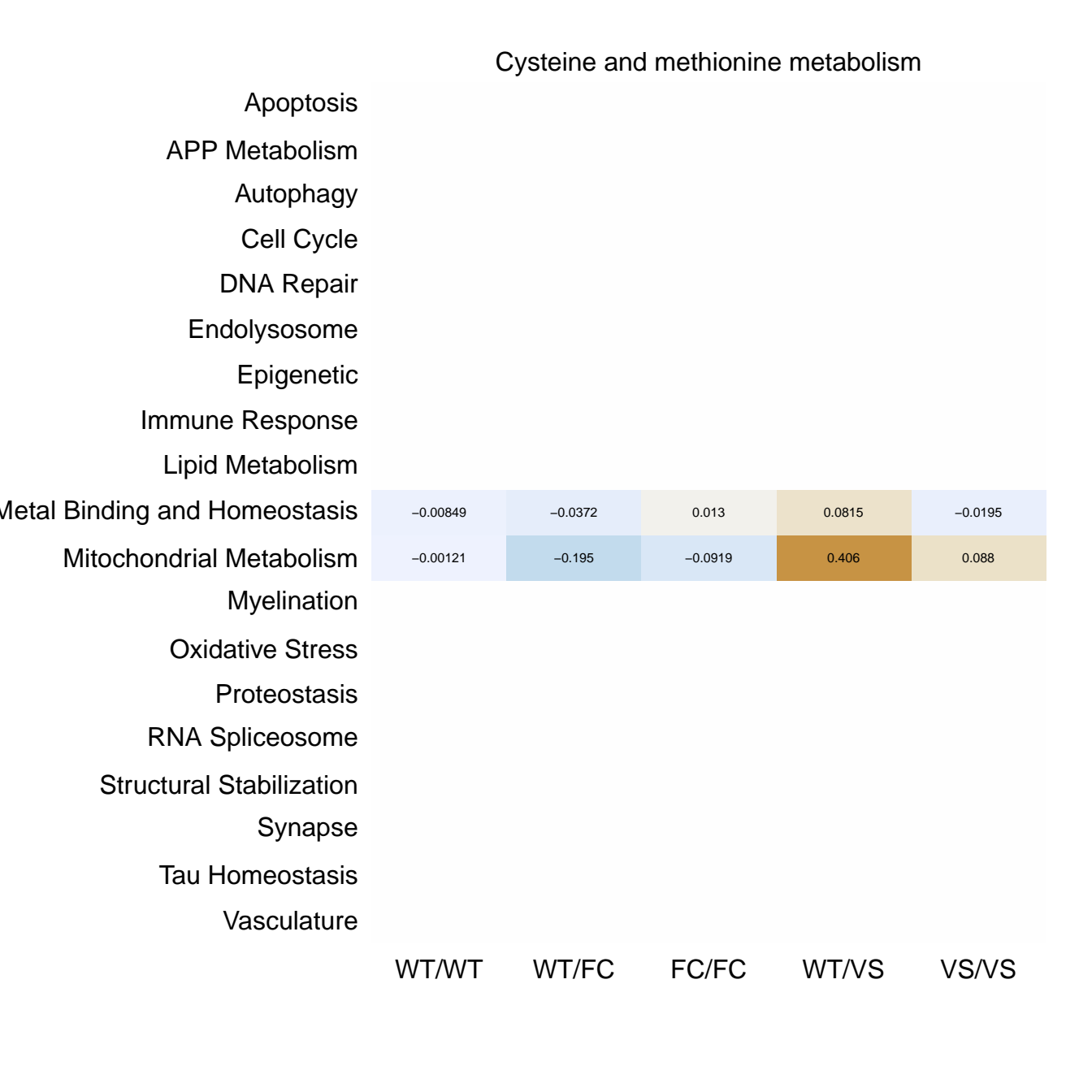


Purine metabolism					
Apoptosis	−0.0724	−0.201	−0.139	0.171	0.0874
APP Metabolism					
Autophagy					
Cell Cycle	−0.152	−0.155	−0.163	0.118	−0.114
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.0073	−0.0447	−0.00939	0.0644	−0.14
Lipid Metabolism	0.0102	0.0563	0.093	−0.0252	−0.176
Metal Binding and Homeostasis	−0.0422	−0.0153	−0.000235	0.00861	−0.0855
Mitochondrial Metabolism	−0.101	−0.129	−0.0984	0.0858	−0.0499
Myelination					
Oxidative Stress					
Proteostasis	0.0447	0.0937	0.0353	0.117	−0.0552
RNA Spliceosome					
Structural Stabilization	0.019	0.0272	0.046	0.164	−0.0255
Synapse	−0.0761	0.149	0.0443	−0.269	−0.173
Tau Homeostasis					
Vasculature	0.121	0.271	0.316	−0.0774	−0.04
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Pyrimidine metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	-0.118	-0.129	-0.0936	0.135	-0.0946
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	-0.0779	-0.201	-0.132	0.192	-0.0725
Mitochondrial Metabolism	-0.123	-0.135	-0.0743	0.177	-0.12
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Alanine, aspartate and glutamate metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	0.0417	0.238	0.0773	-0.0234	-0.204
Mitochondrial Metabolism	-0.00467	0.128	0.0358	0.00982	-0.112
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS





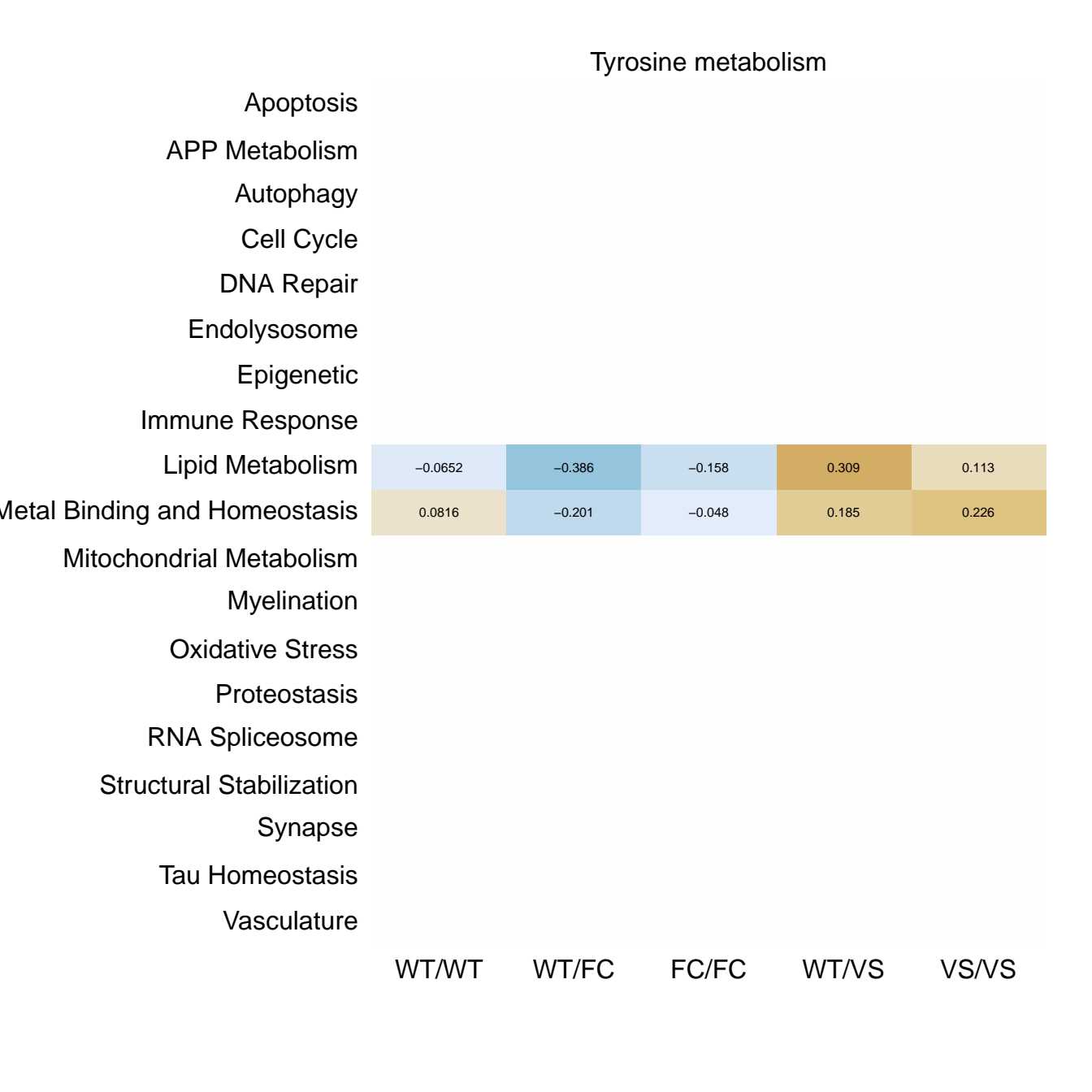
Valine, leucine and isoleucine degradation

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	−0.162	−0.3	−0.184	0.15	−0.115
Metal Binding and Homeostasis	−0.134	−0.269	0.00278	−0.0788	−0.111
Mitochondrial Metabolism	−0.135	−0.236	−0.138	0.125	−0.0912
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

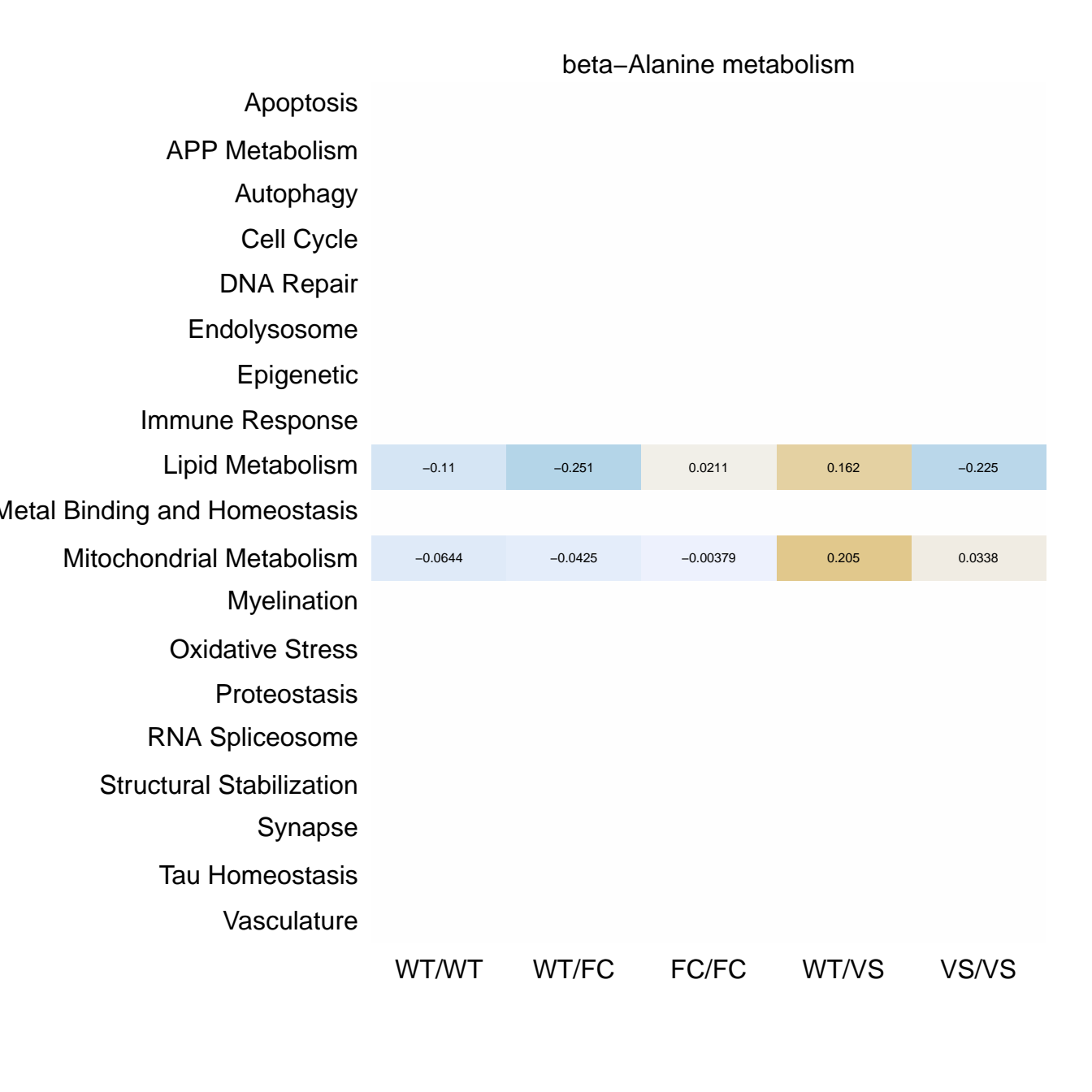
Lysine degradation					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	0.123	0.106	0.164	0.0532	0.0463
DNA Repair					
Endolysosome					
Epigenetic	0.288	0.378	0.409	-0.109	0.0207
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	0.269	0.294	0.319	-0.0555	-0.00585
Mitochondrial Metabolism	-0.101	-0.179	-0.0961	0.0566	-0.0799
Myelination					
Oxidative Stress					
Proteostasis	0.164	0.0896	0.103	0.127	-0.00812
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Arginine biosynthesis				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	0.0155	0.0454	0.0215	-0.00602	0.0049
Mitochondrial Metabolism	-0.0157	0.0728	-0.066	0.0994	-0.0345
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

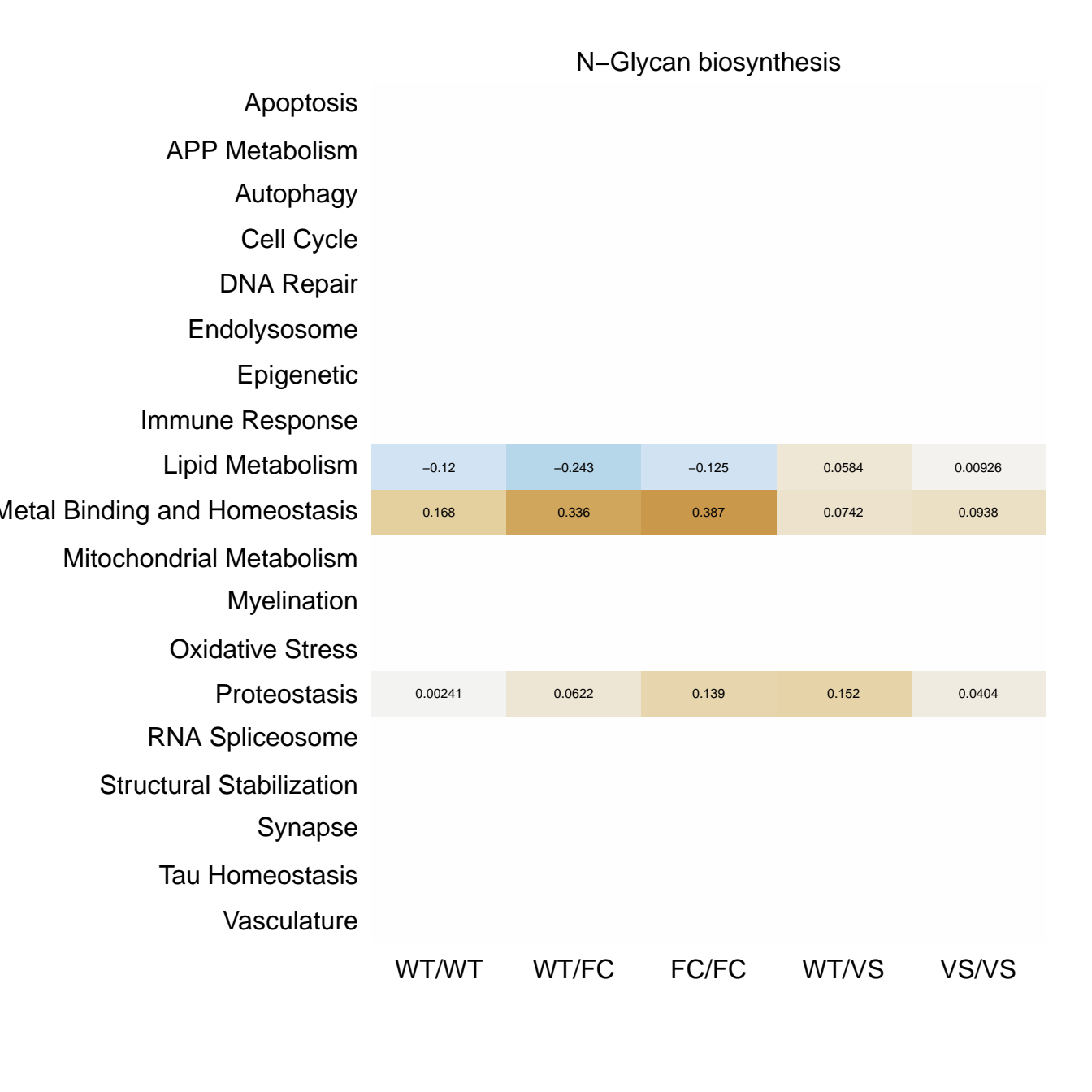
	Arginine and proline metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	0.21	0.11	-0.0999	0.322	0.139
Mitochondrial Metabolism	0.0592	-0.065	-0.0339	0.293	0.12
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



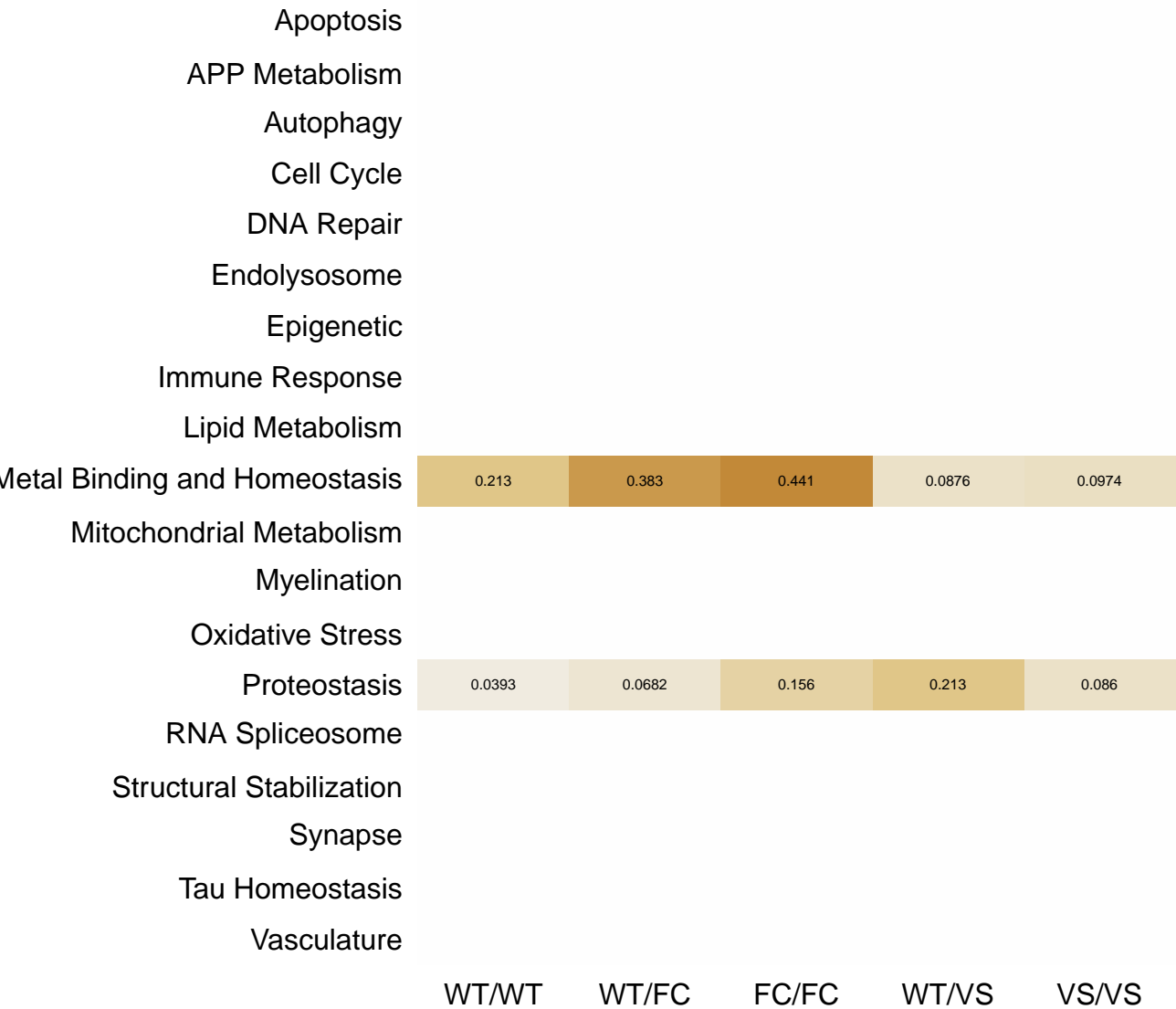
		Tryptophan metabolism				
	Apoptosis					
	APP Metabolism					
	Autophagy					
	Cell Cycle					
	DNA Repair					
	Endolysosome					
	Epigenetic					
	Immune Response					
	Lipid Metabolism	-0.123	-0.239	-0.0738	0.094	-0.209
	Metal Binding and Homeostasis	-0.0146	-0.133	0.113	0.0305	-0.211
	Mitochondrial Metabolism	-0.128	-0.226	-0.111	0.0738	-0.152
	Myelination					
	Oxidative Stress					
	Proteostasis					
	RNA Spliceosome					
	Structural Stabilization					
	Synapse					
	Tau Homeostasis					
	Vasculature					
		WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

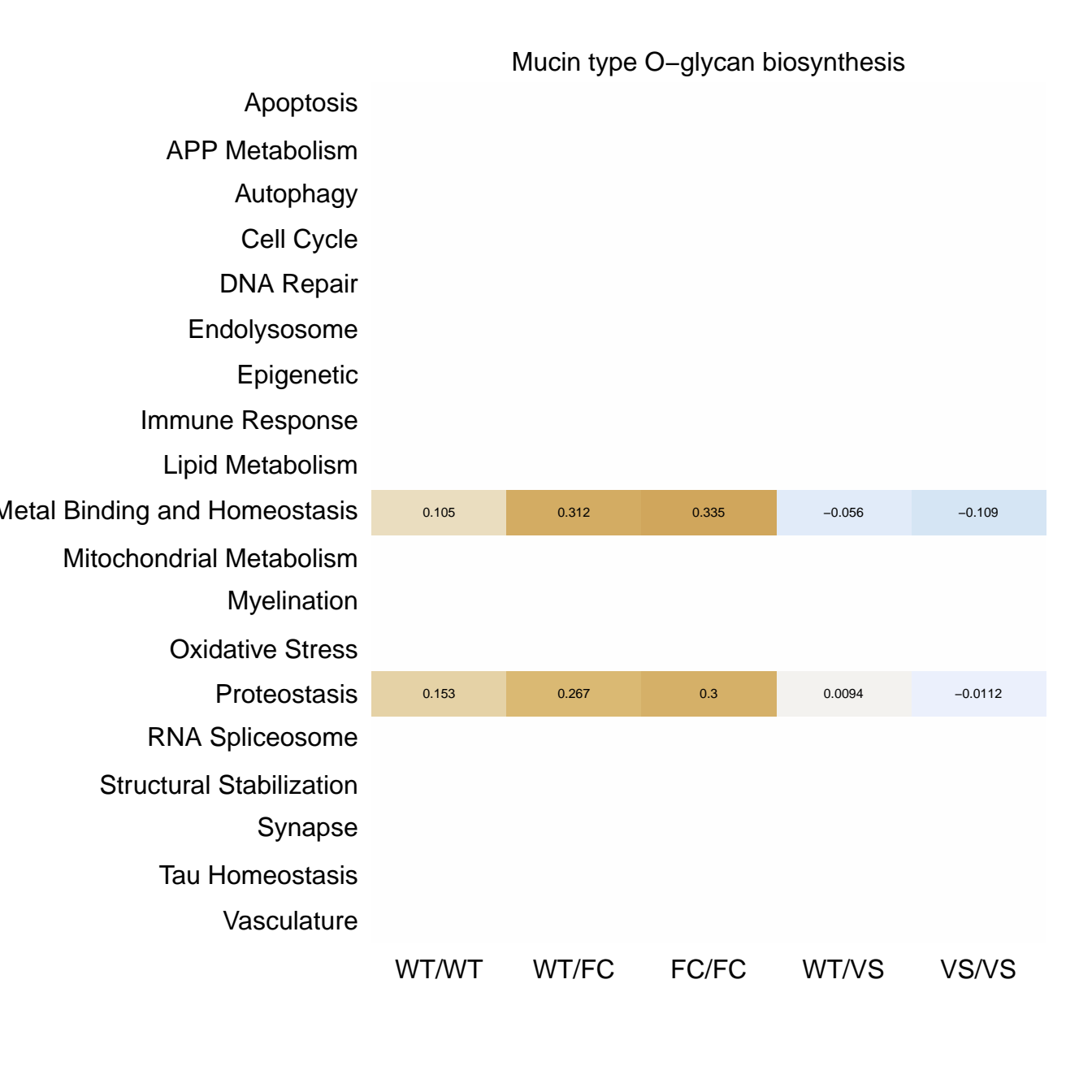


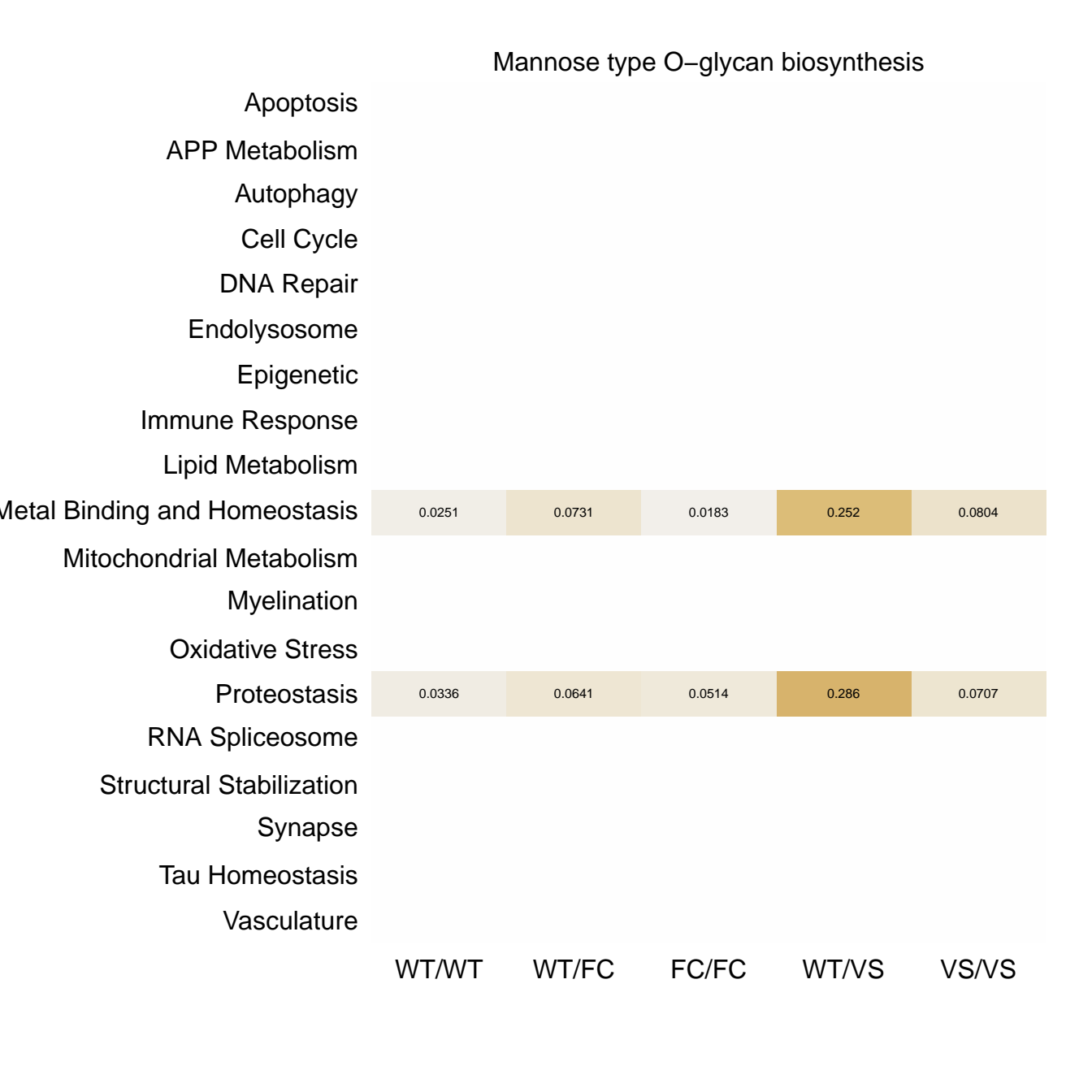
	Glutathione metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.00485	-0.162	0.0301	0.344	0.0589
Lipid Metabolism	-0.0792	-0.25	-0.221	0.353	0.0244
Metal Binding and Homeostasis	-0.0903	-0.109	-0.0082	0.0306	-0.321
Mitochondrial Metabolism	-0.073	-0.175	-0.0685	0.355	0.0371
Myelination					
Oxidative Stress	-0.0265	-0.117	-0.129	0.308	0.116
Proteostasis	-0.151	-0.406	-0.256	0.287	0.181
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

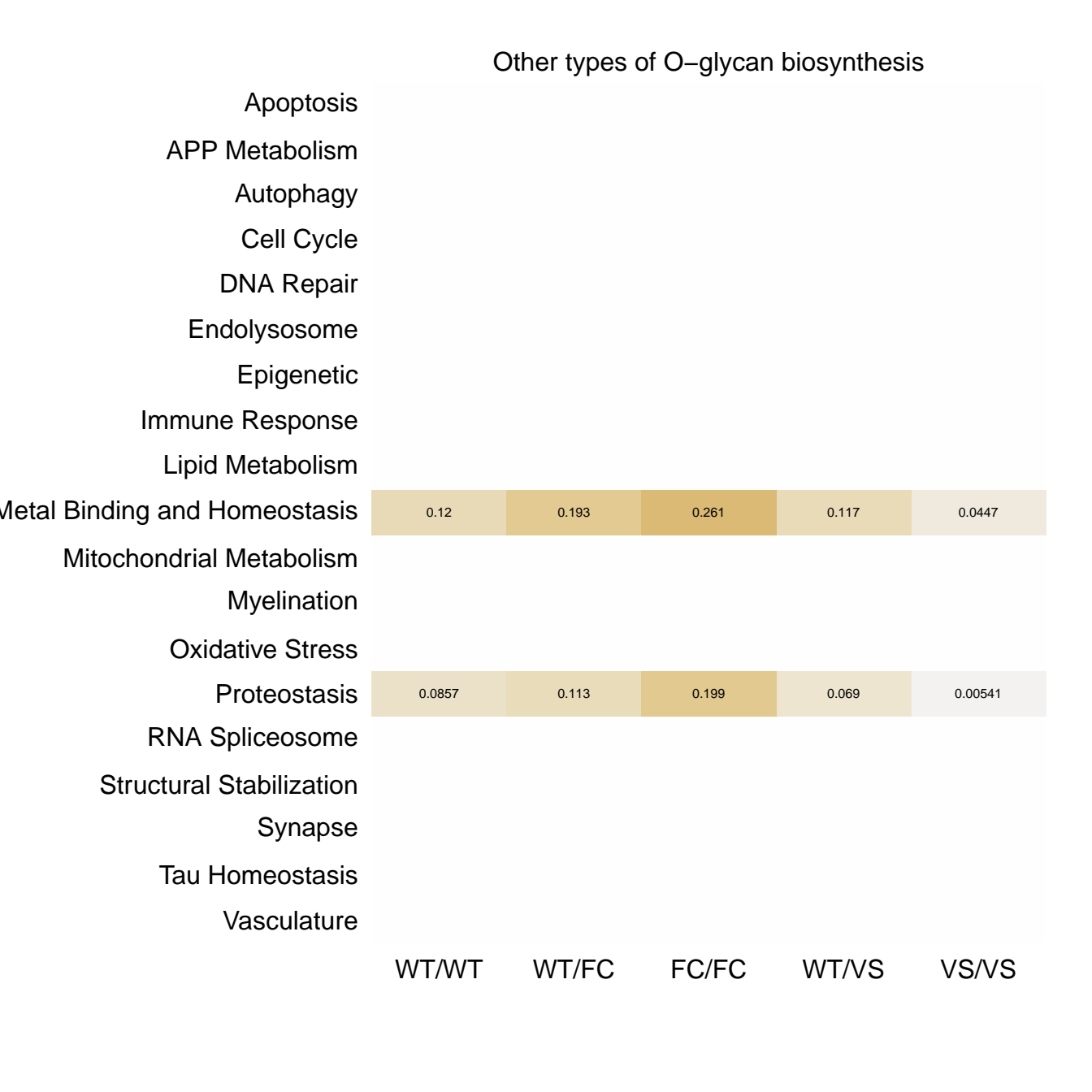


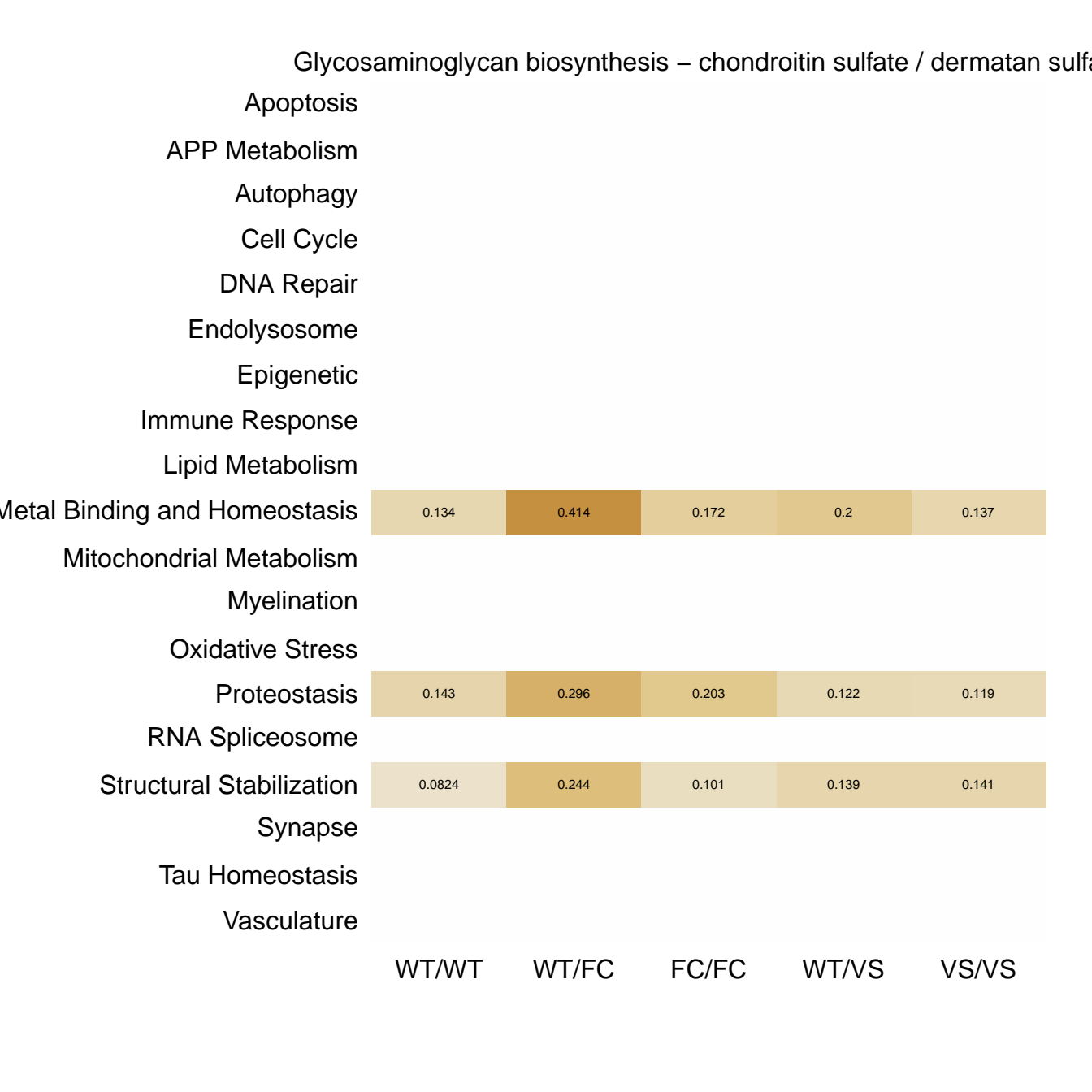
Various types of N-glycan biosynthesis



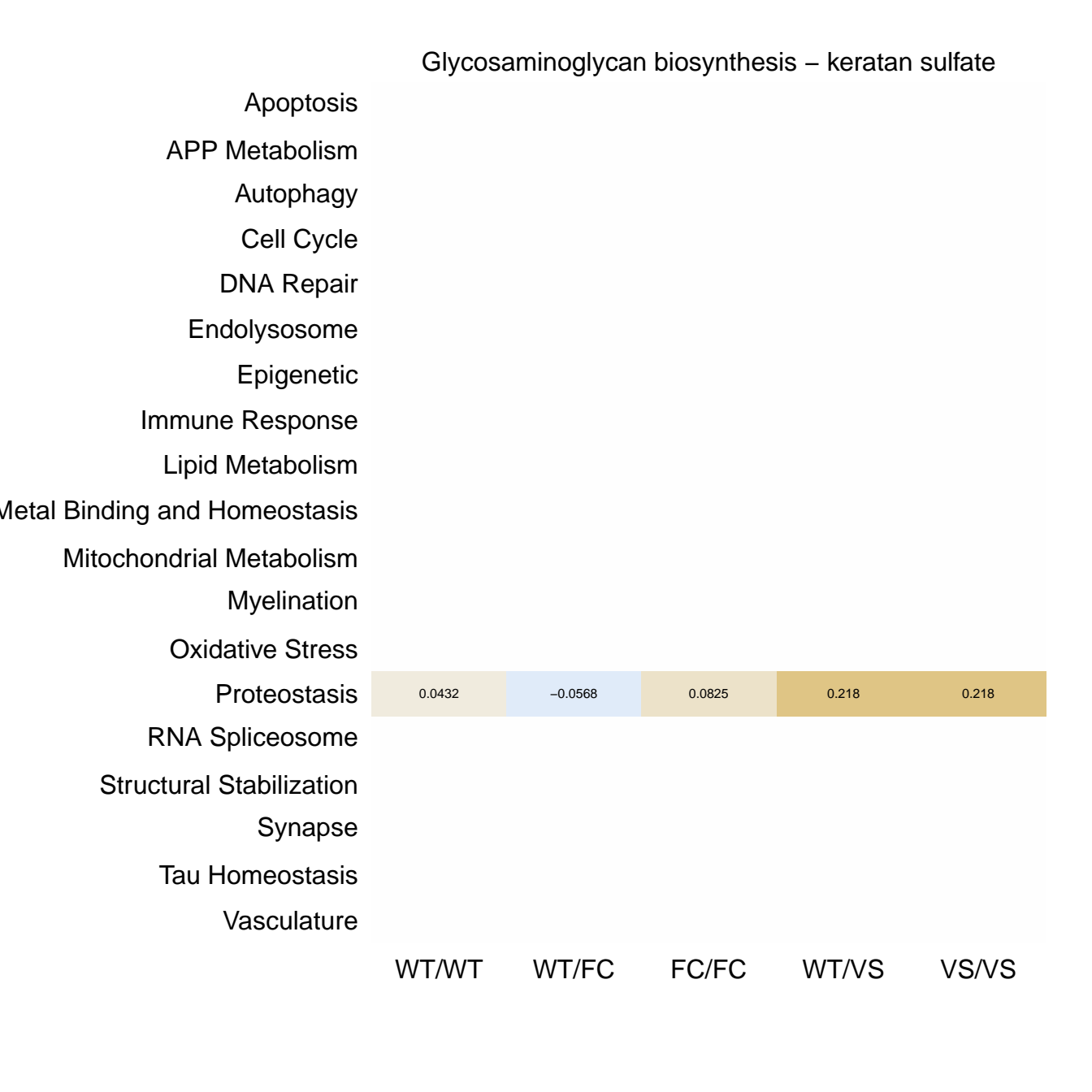


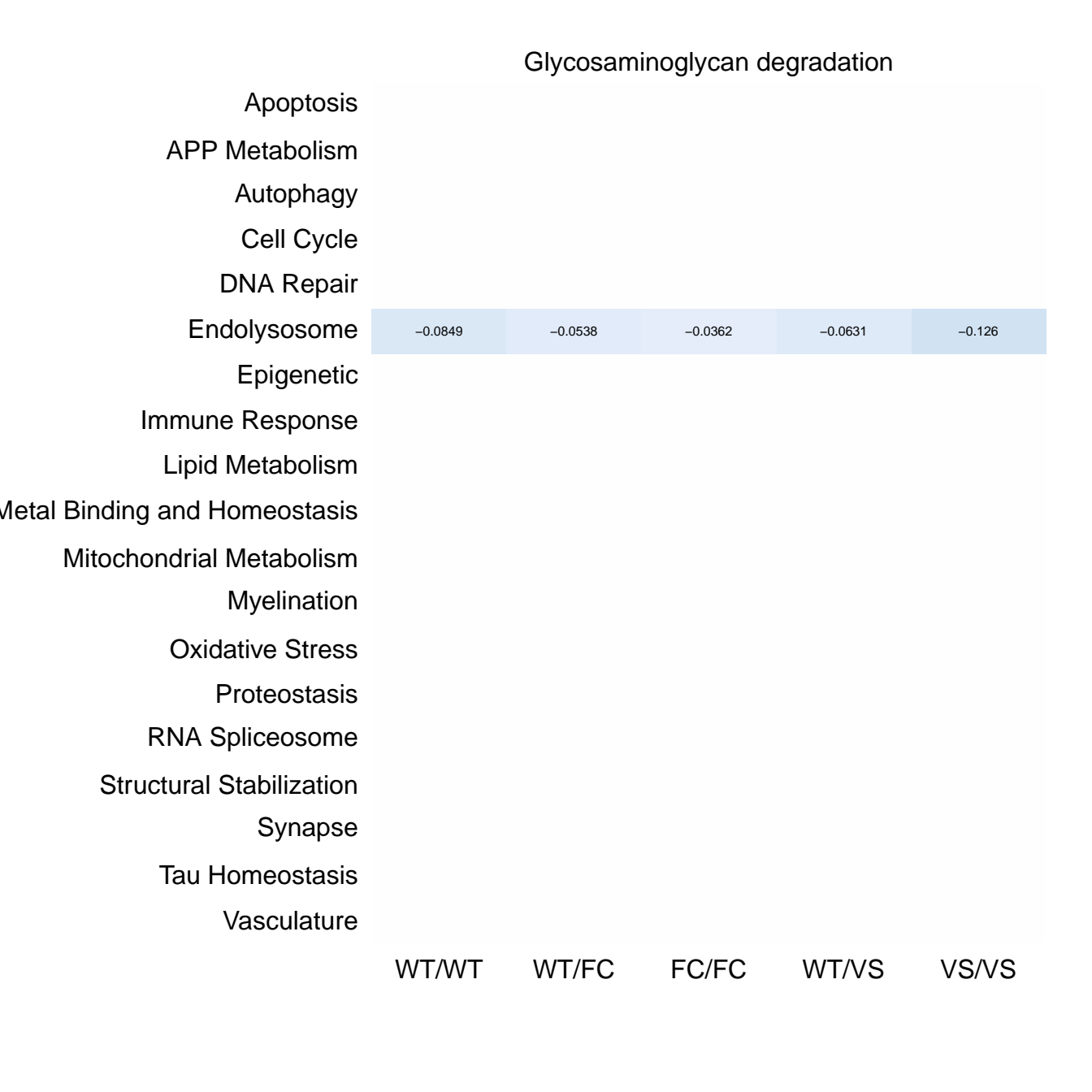


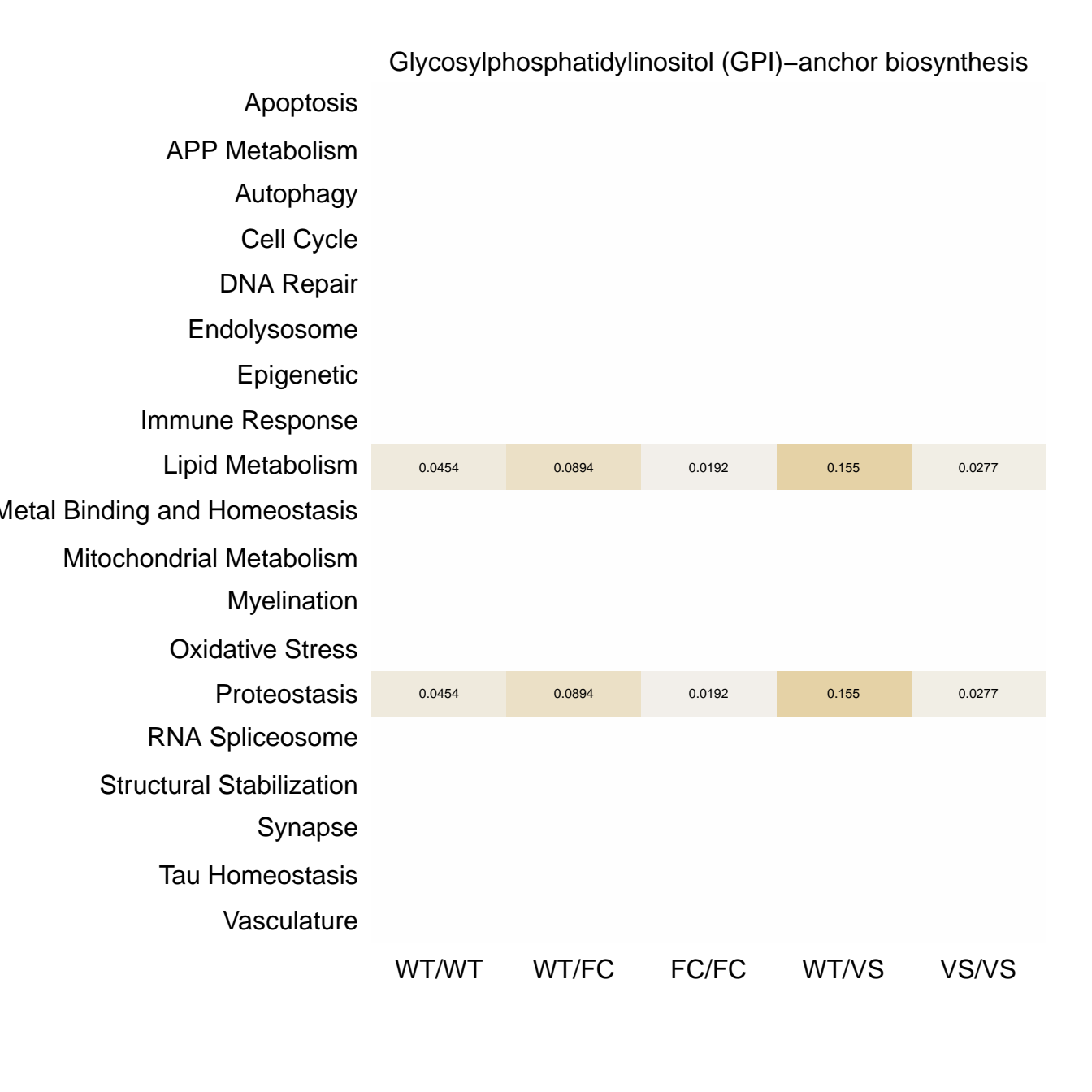


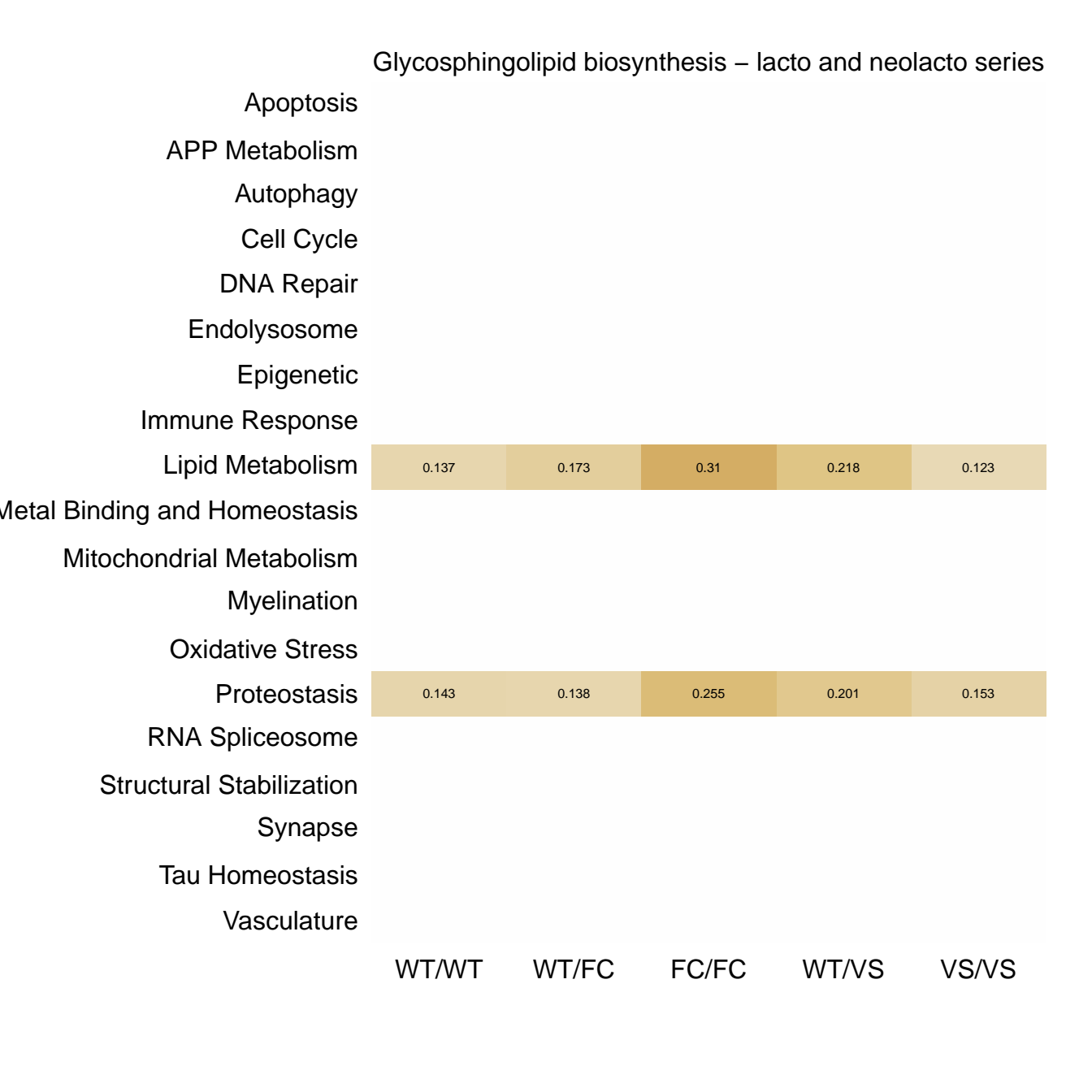


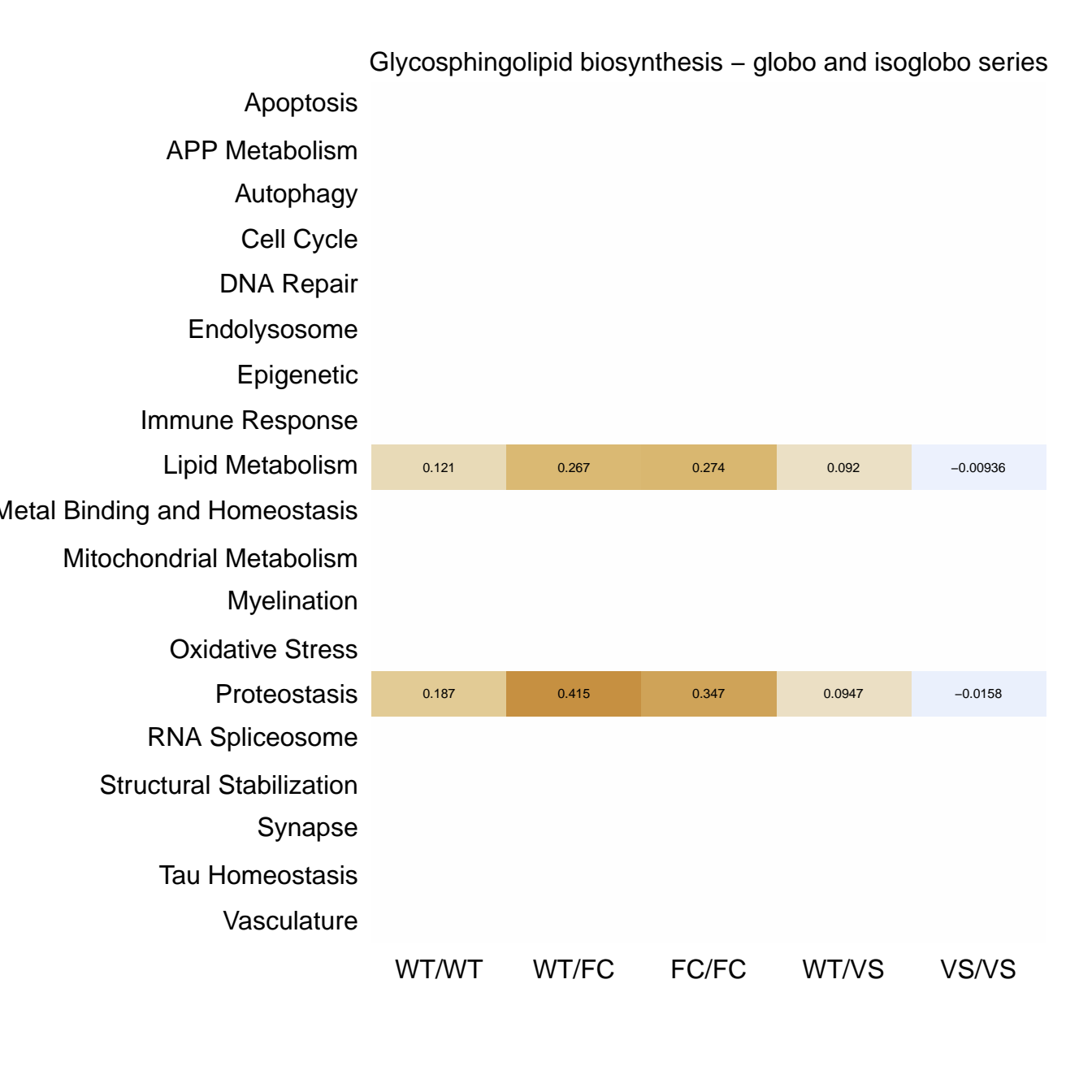
Glycosaminoglycan biosynthesis – heparan sulfate / heparin					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0859	0.293	0.286	0.00908	-0.0281
RNA Spliceosome					
Structural Stabilization	0.0859	0.293	0.286	0.00908	-0.0281
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

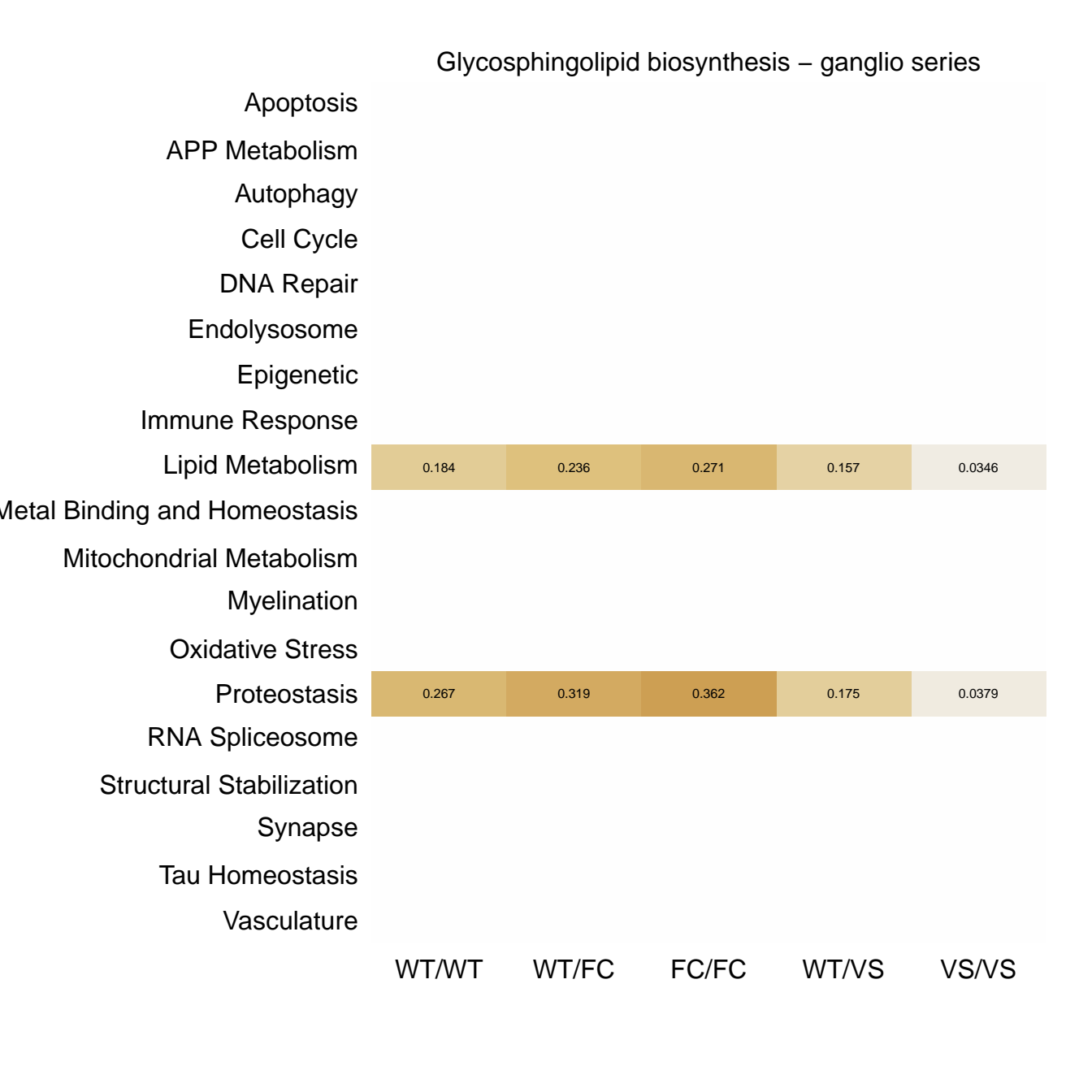


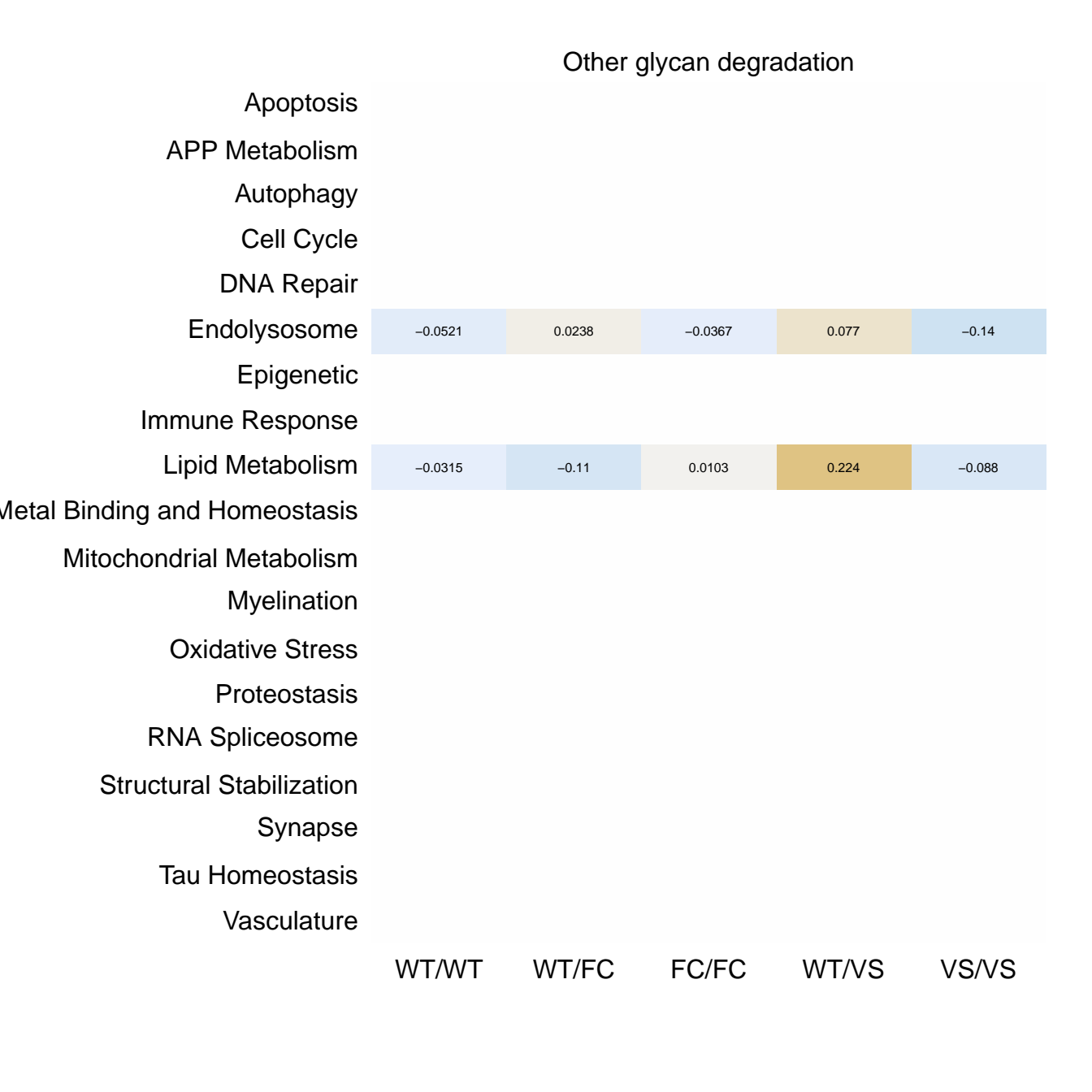






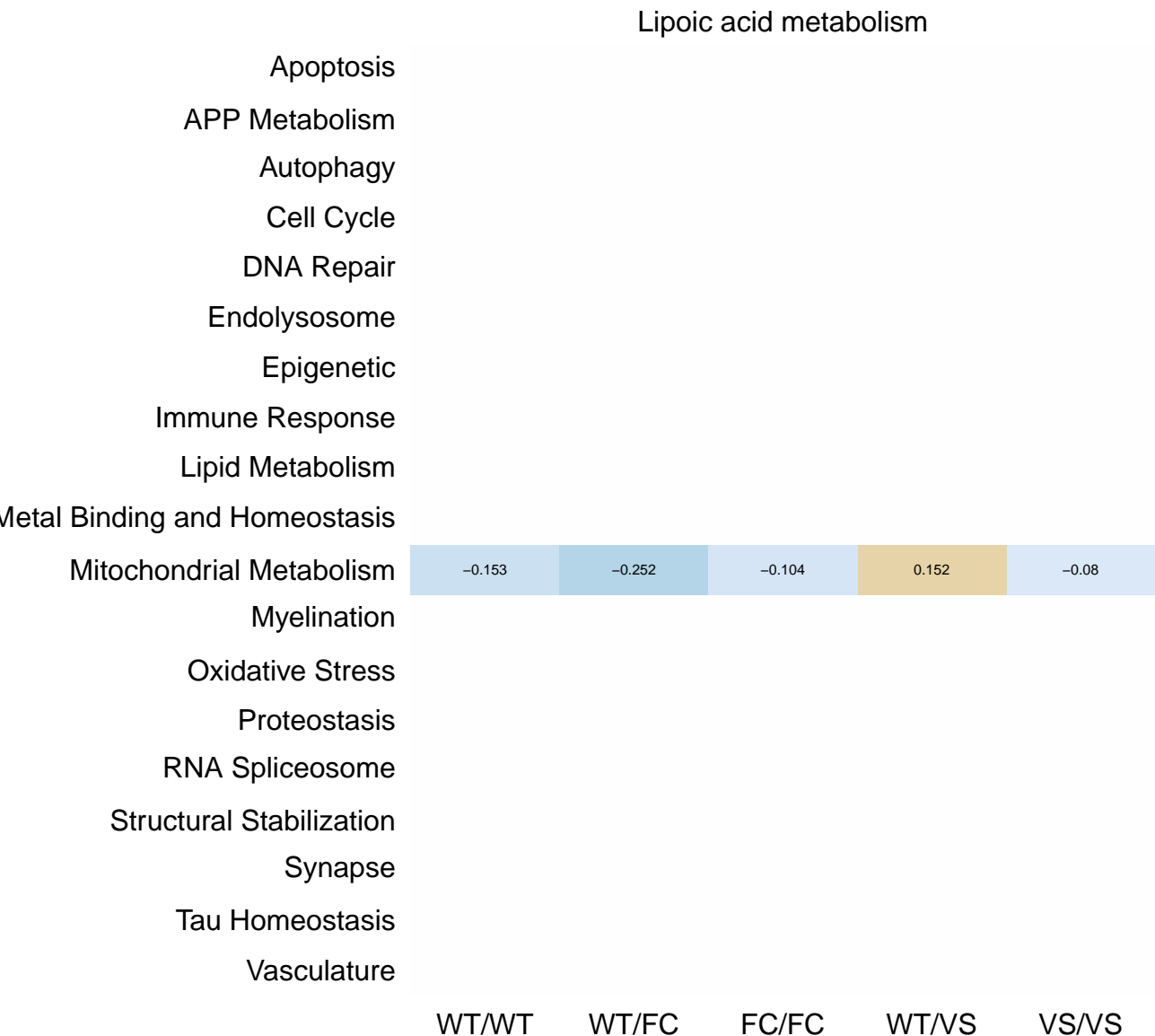


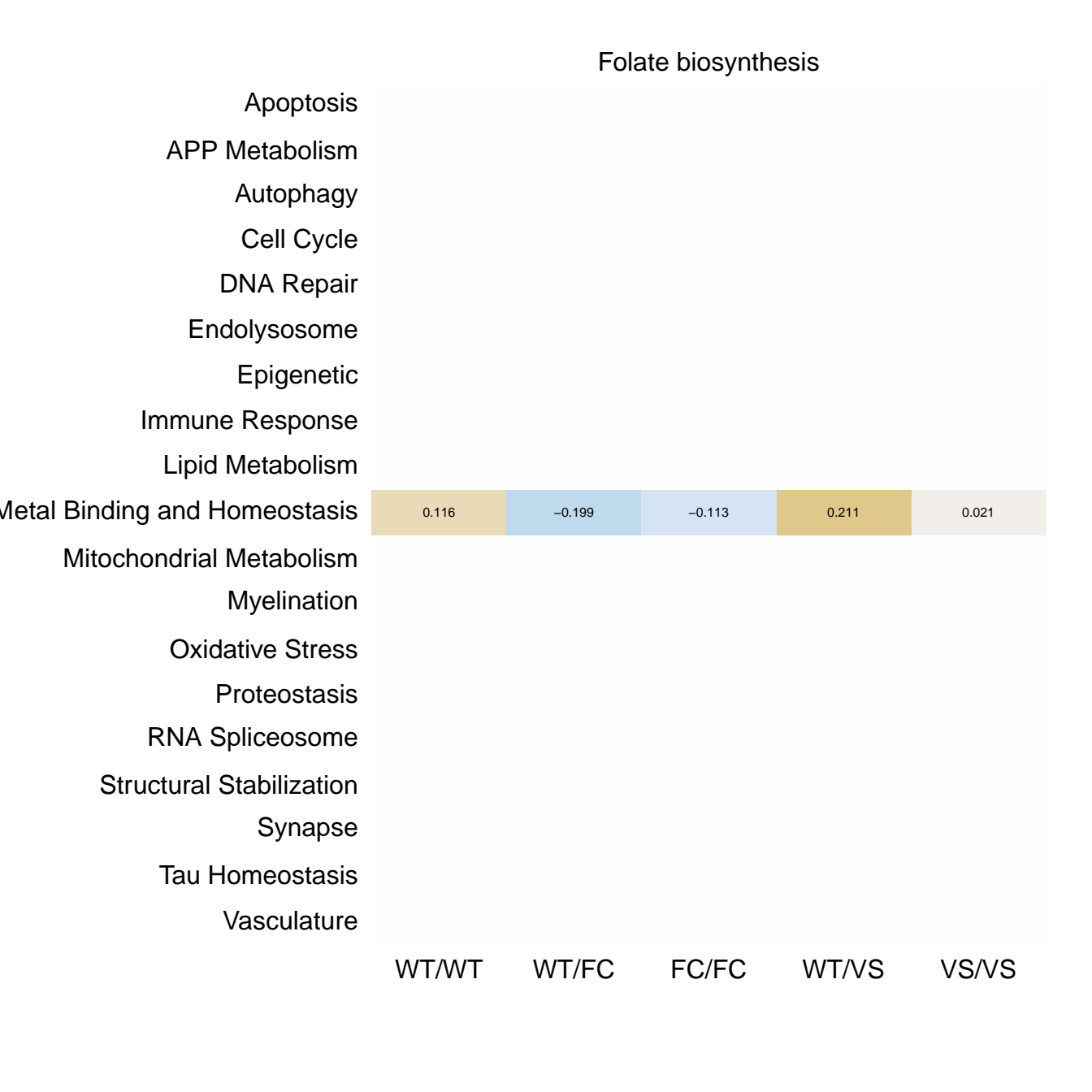




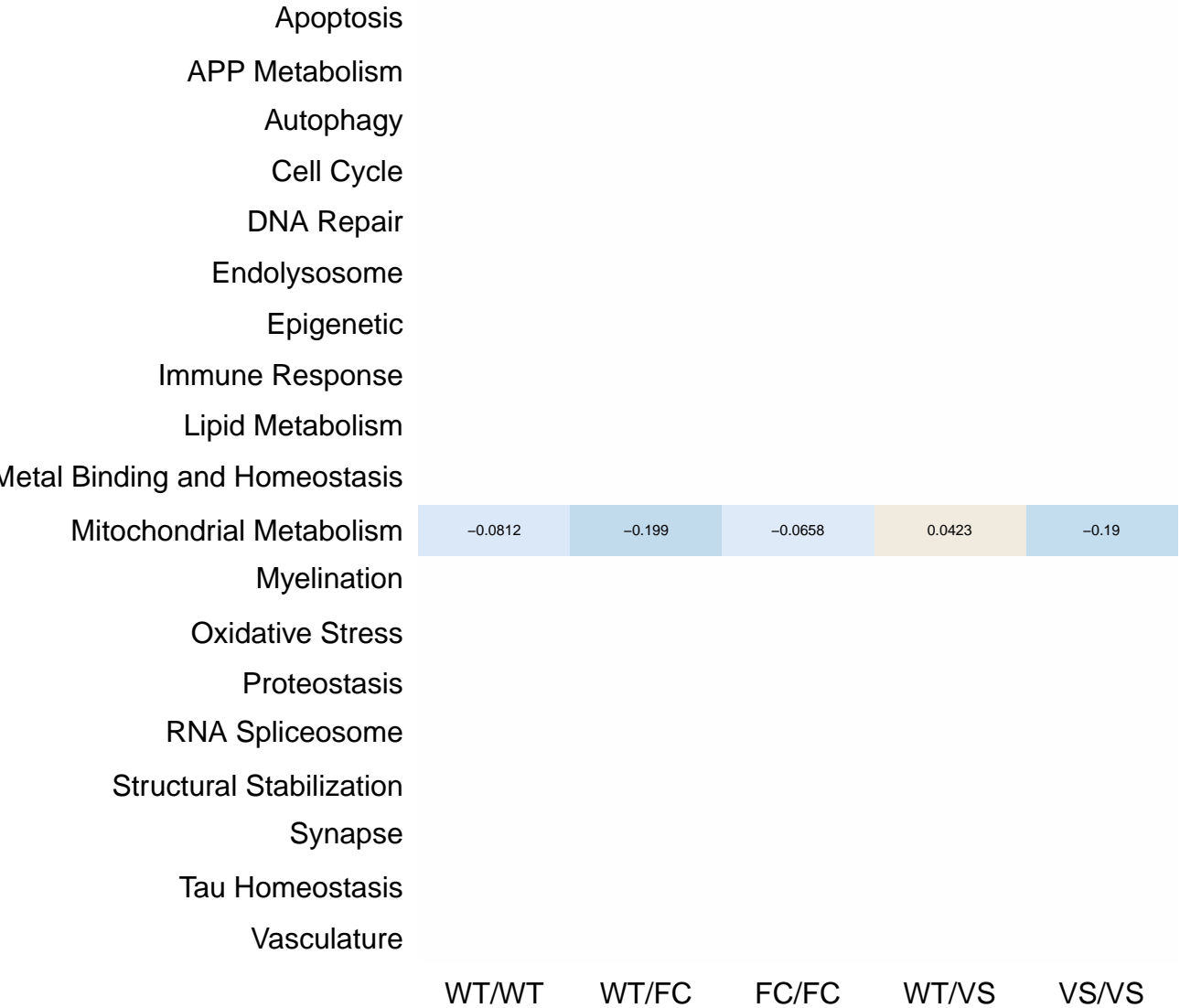
Nicotinate and nicotinamide metabolism

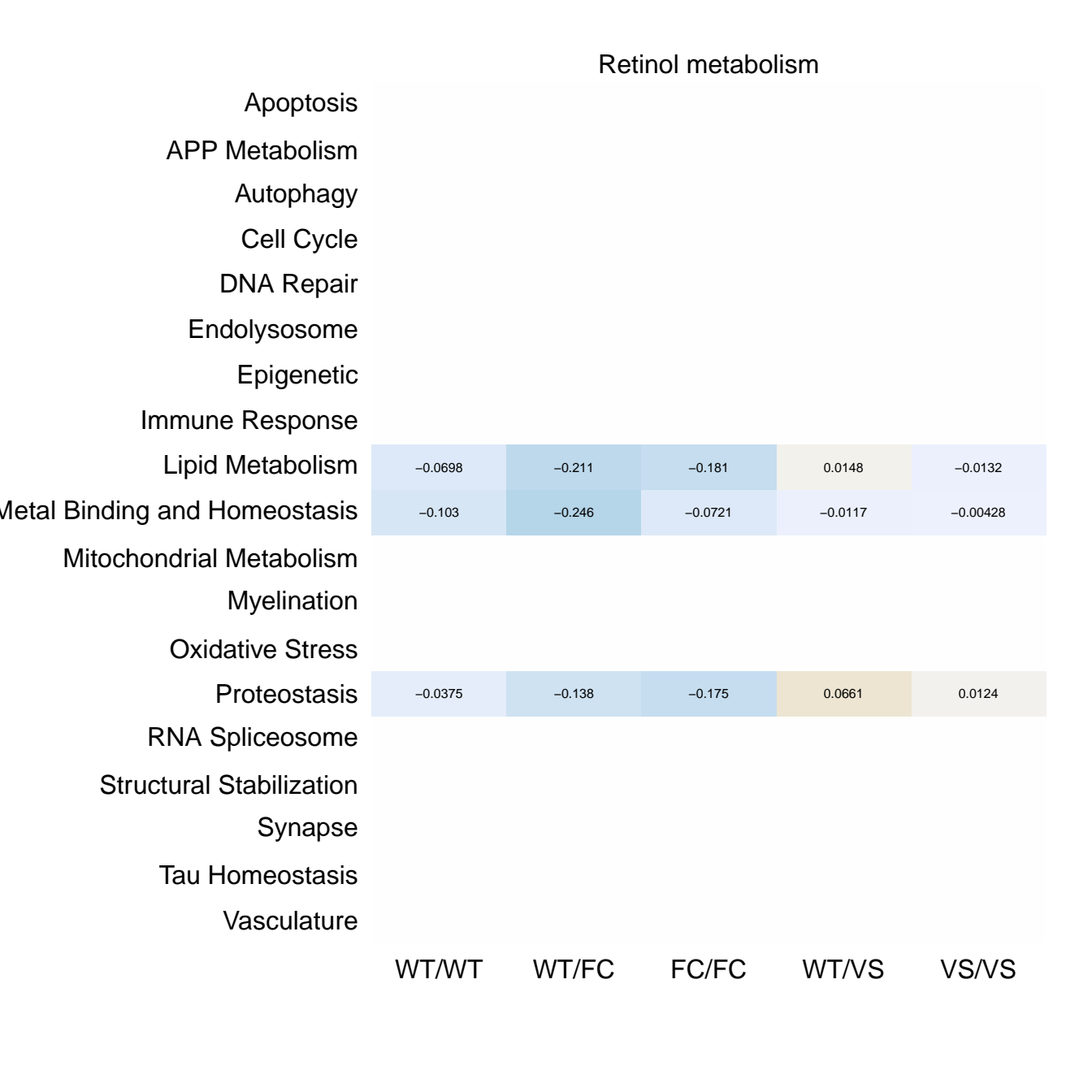
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.193	0.0308	0.0942	0.191	0.032
Lipid Metabolism	0.0294	-0.124	0.0244	0.21	-0.0271
Metal Binding and Homeostasis	0.0452	-0.14	-0.0268	0.164	-0.0277
Mitochondrial Metabolism	0.133	-0.0171	0.0906	0.202	0.0855
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



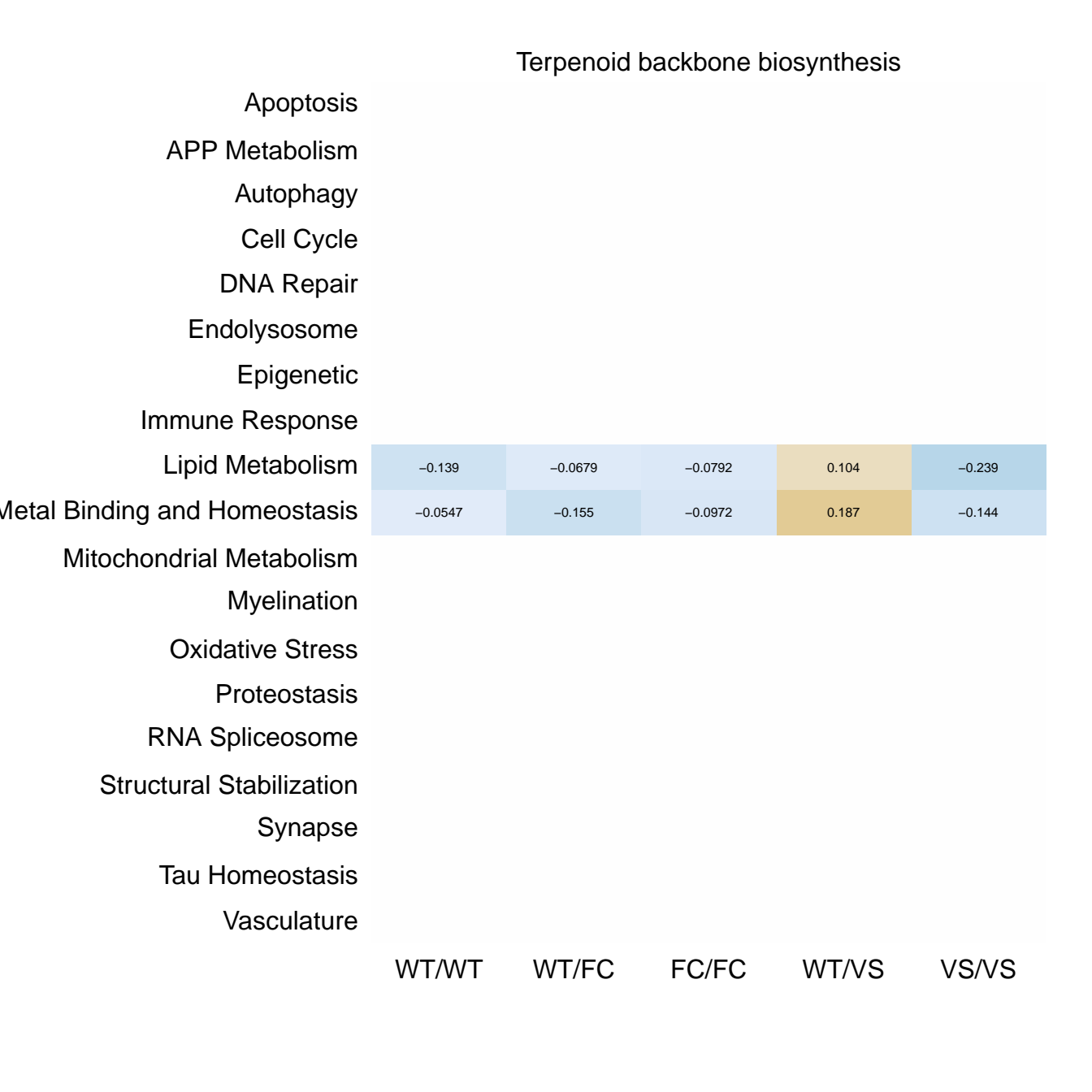


One carbon pool by folate



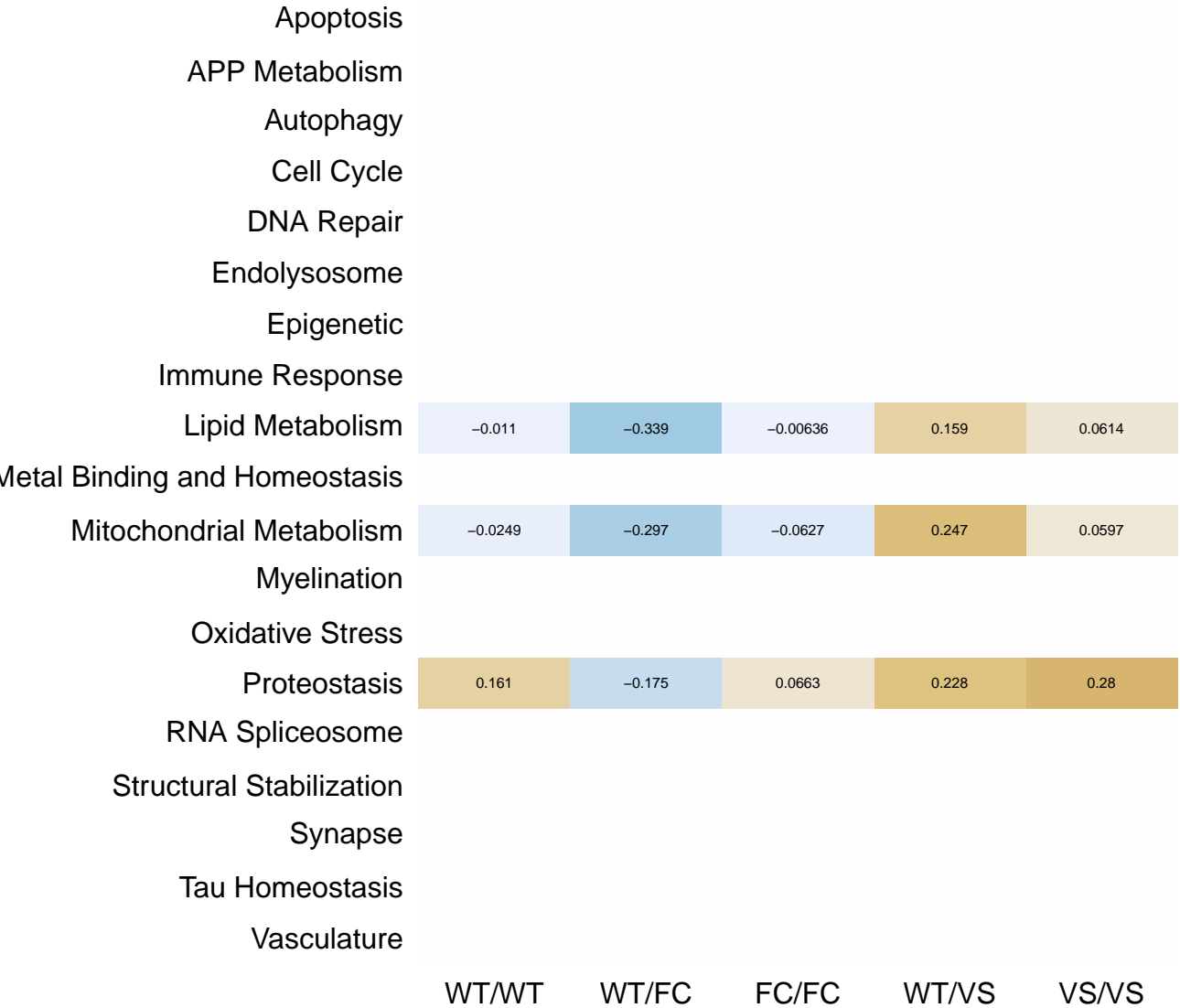


Porphyrin metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	−0.0443	−0.185	−0.114	0.193	−0.0684
Mitochondrial Metabolism	−0.134	−0.0318	−0.0524	0.169	−0.0815
Myelination					
Oxidative Stress					
Proteostasis	0.0165	−0.239	−0.136	0.209	−0.00709
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



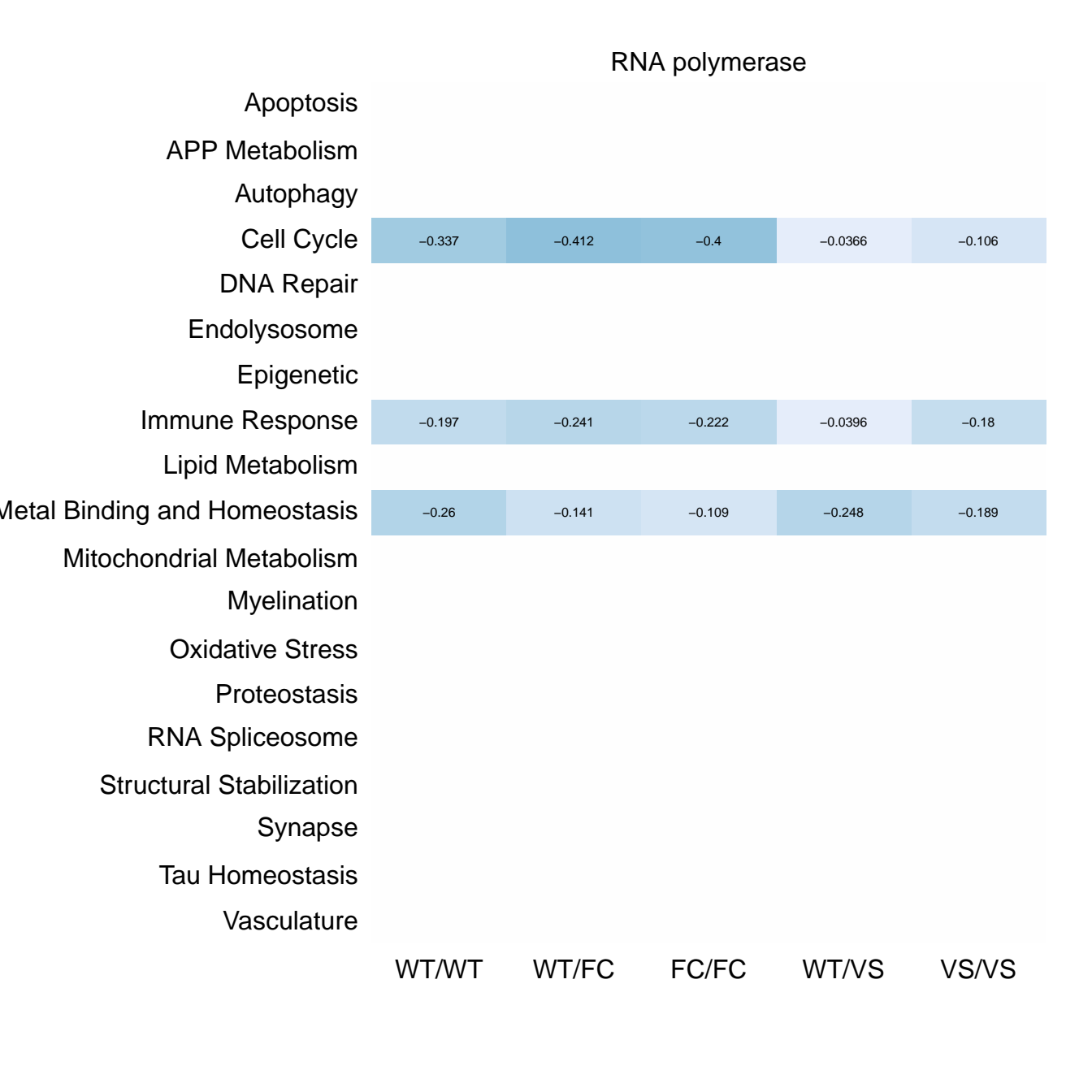
Metabolism of xenobiotics by cytochrome P450					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.0443	-0.289	-0.000536	0.217	0.0611
Metal Binding and Homeostasis	0.0108	-0.178	0.0654	0.0853	-0.0476
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.156	-0.0631	0.0939	0.279	0.18
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

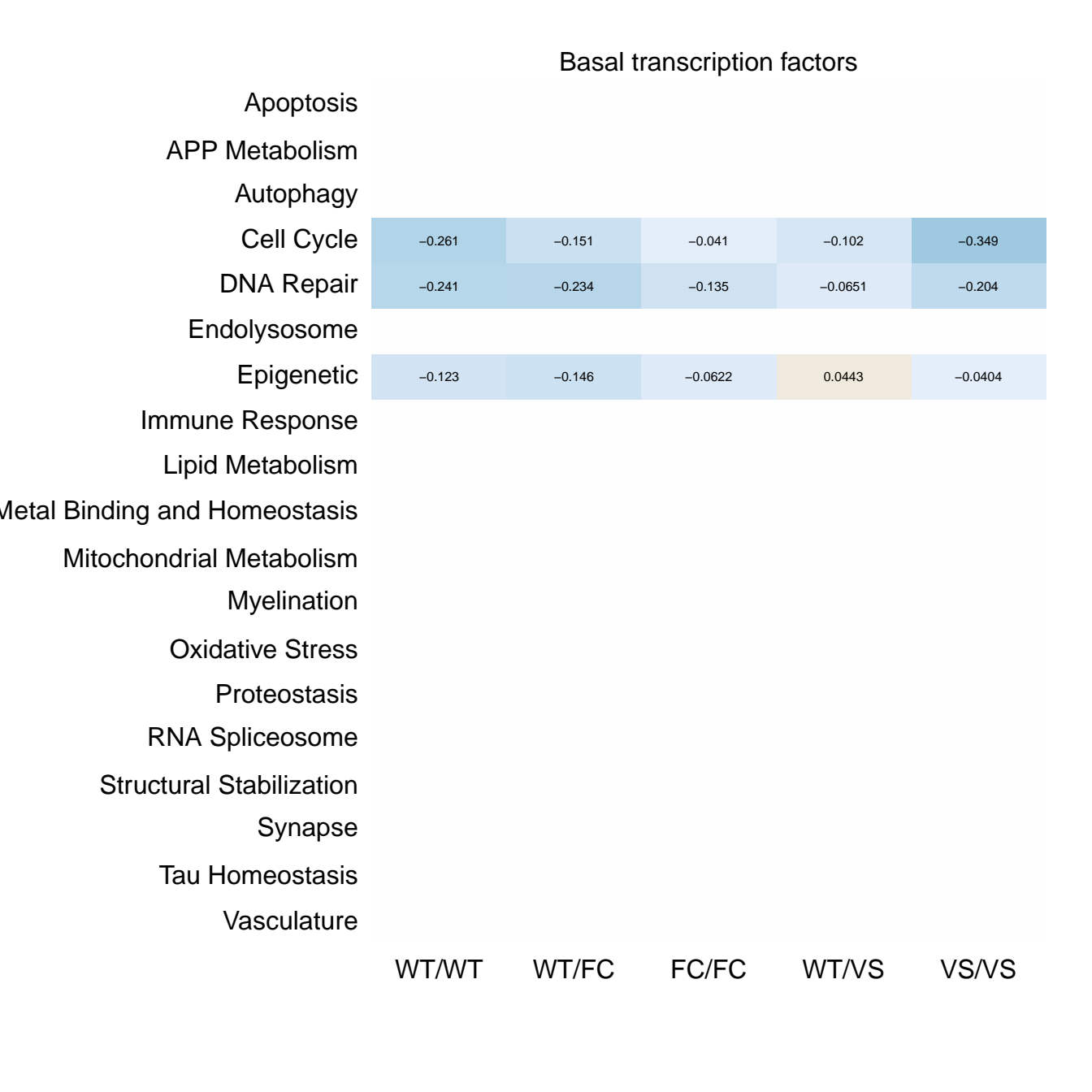
Drug metabolism – cytochrome P450



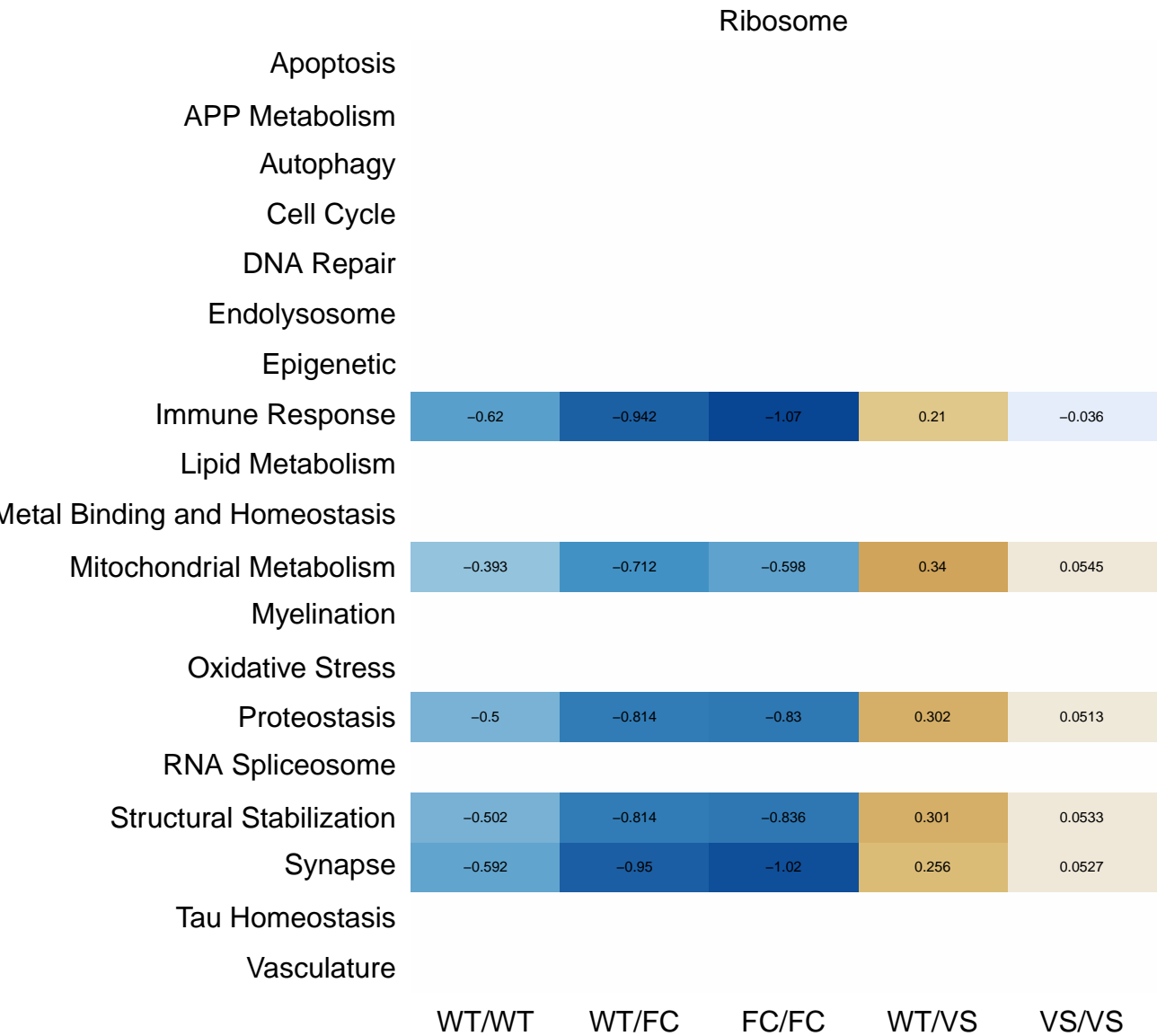
Drug metabolism – other enzymes

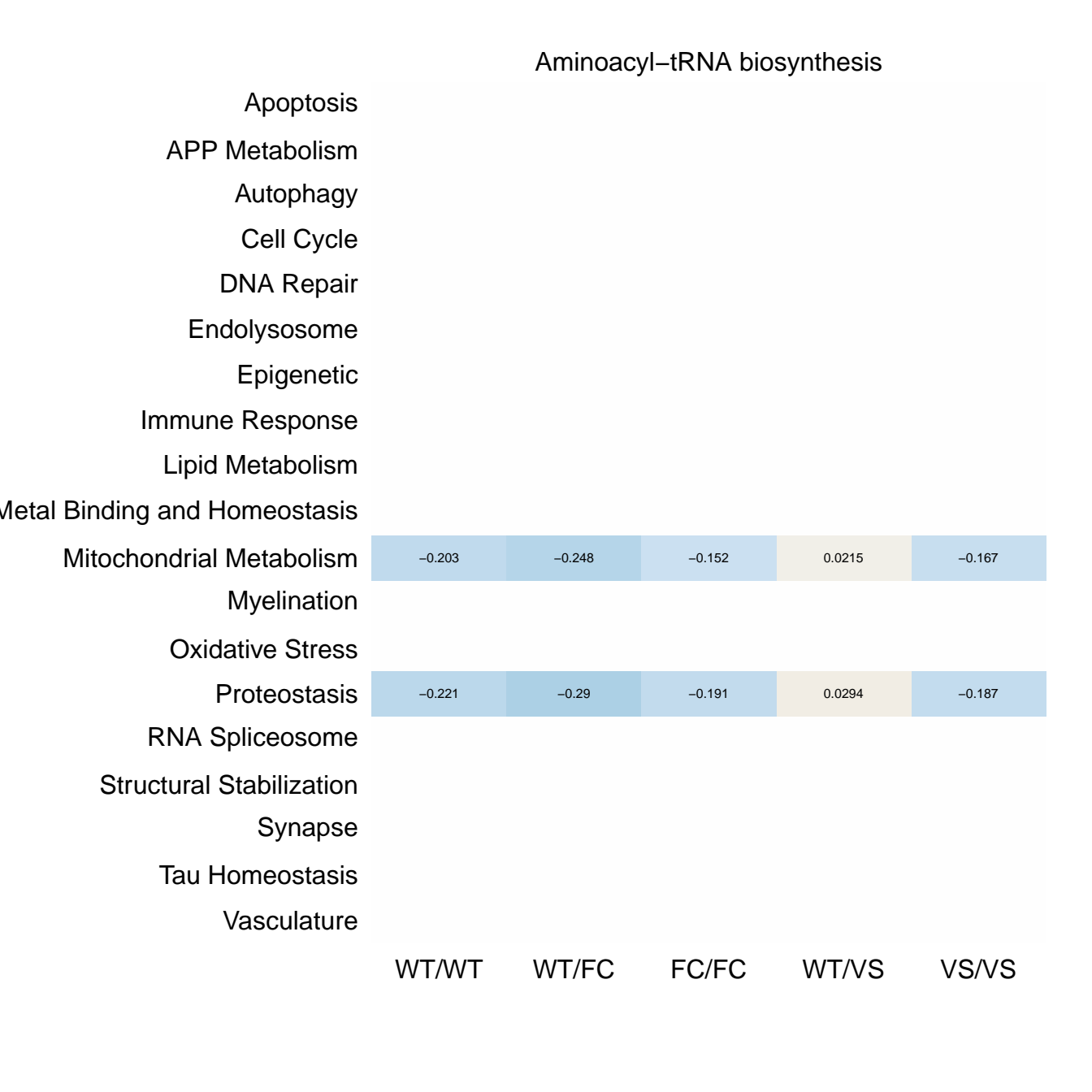
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	−0.152	−0.197	−0.197	0.144	0.000745
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.0418	−0.243	−0.0868	0.331	0.163
Metal Binding and Homeostasis	−0.176	−0.3	−0.206	0.16	0.00288
Mitochondrial Metabolism	−0.128	−0.196	−0.0567	0.19	−0.0351
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS





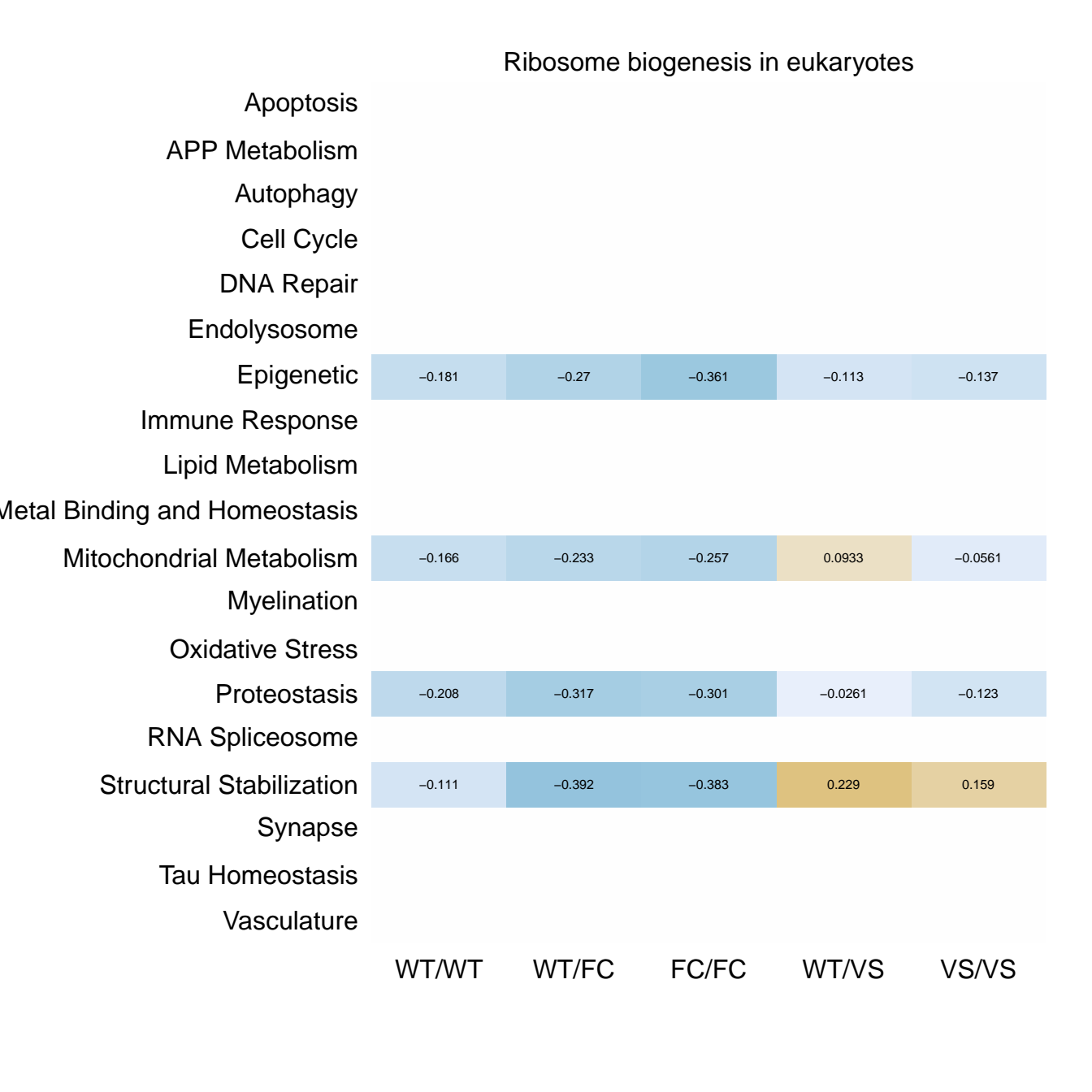
	Spliceosome				
Apoptosis	−0.103	−0.353	−0.17	0.0753	0.0706
APP Metabolism					
Autophagy					
Cell Cycle	−0.292	−0.384	−0.357	0.116	−0.0664
DNA Repair	−0.214	−0.374	−0.114	−0.0627	−0.0356
Endolysosome					
Epigenetic	−0.209	−0.336	−0.134	0.105	0.00723
Immune Response	0.137	0.0517	0.112	0.385	0.24
Lipid Metabolism					
Metal Binding and Homeostasis	−0.251	−0.416	−0.424	0.142	0.0554
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.074	−0.261	−0.167	0.381	0.16
RNA Spliceosome	−0.207	−0.4	−0.302	0.156	0.0715
Structural Stabilization	−0.133	−0.329	−0.115	0.243	0.0845
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

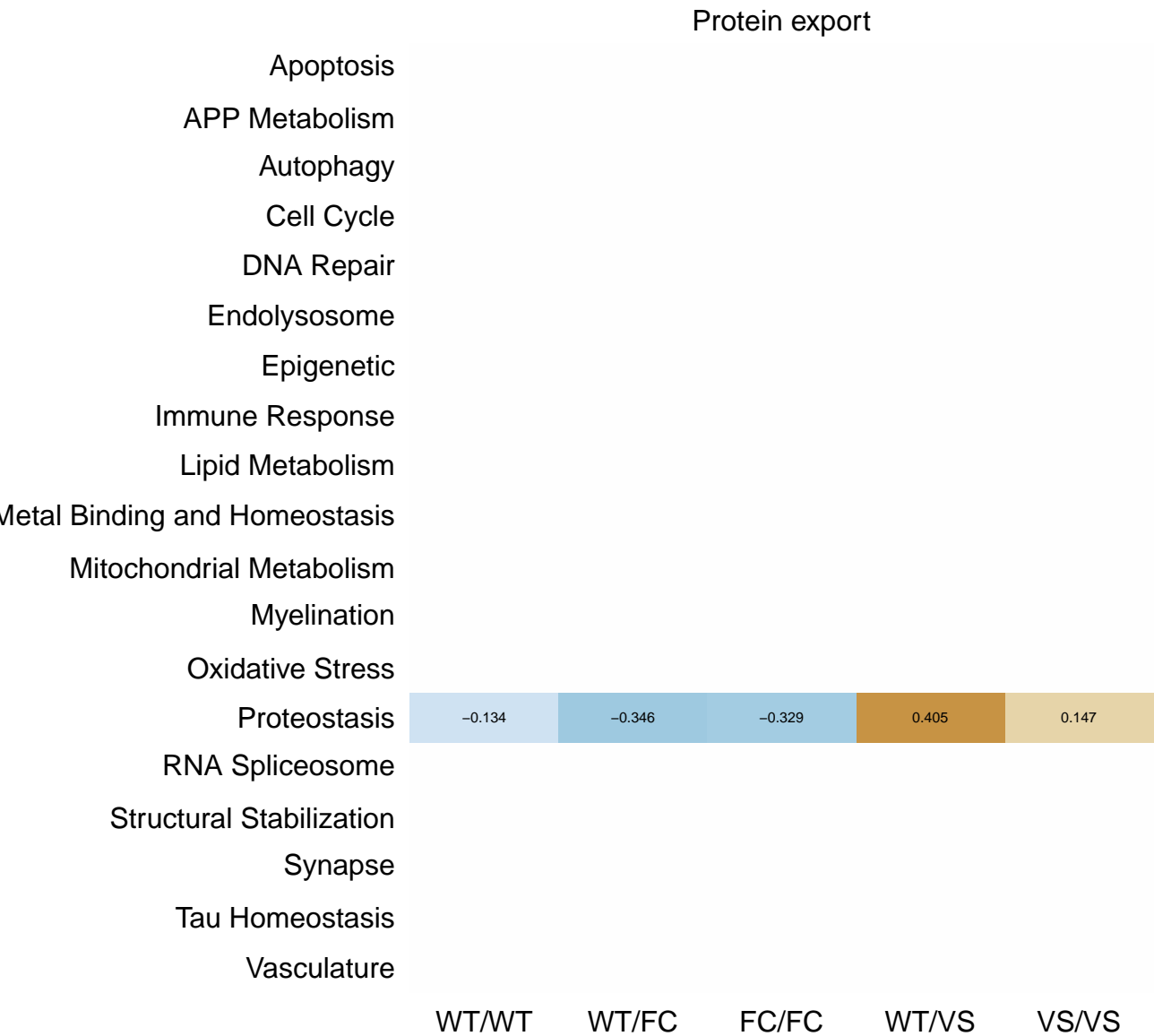




Nucleocytoplasmic transport					
Apoptosis	0.0651	−0.00338	0.109	0.404	0.281
APP Metabolism					
Autophagy					
Cell Cycle	−0.0618	−0.00718	−0.0545	−0.0845	−0.218
DNA Repair					
Endolysosome					
Epigenetic	−0.0727	0.0923	0.0486	−0.215	−0.293
Immune Response	0.0704	0.0539	−0.0577	0.0653	0.0179
Lipid Metabolism					
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.236	−0.232	−0.195	−0.0159	−0.127
RNA Spliceosome	−0.0782	−0.3	−0.213	0.217	0.203
Structural Stabilization	−0.0689	0.000251	0.00218	−0.0866	−0.14
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

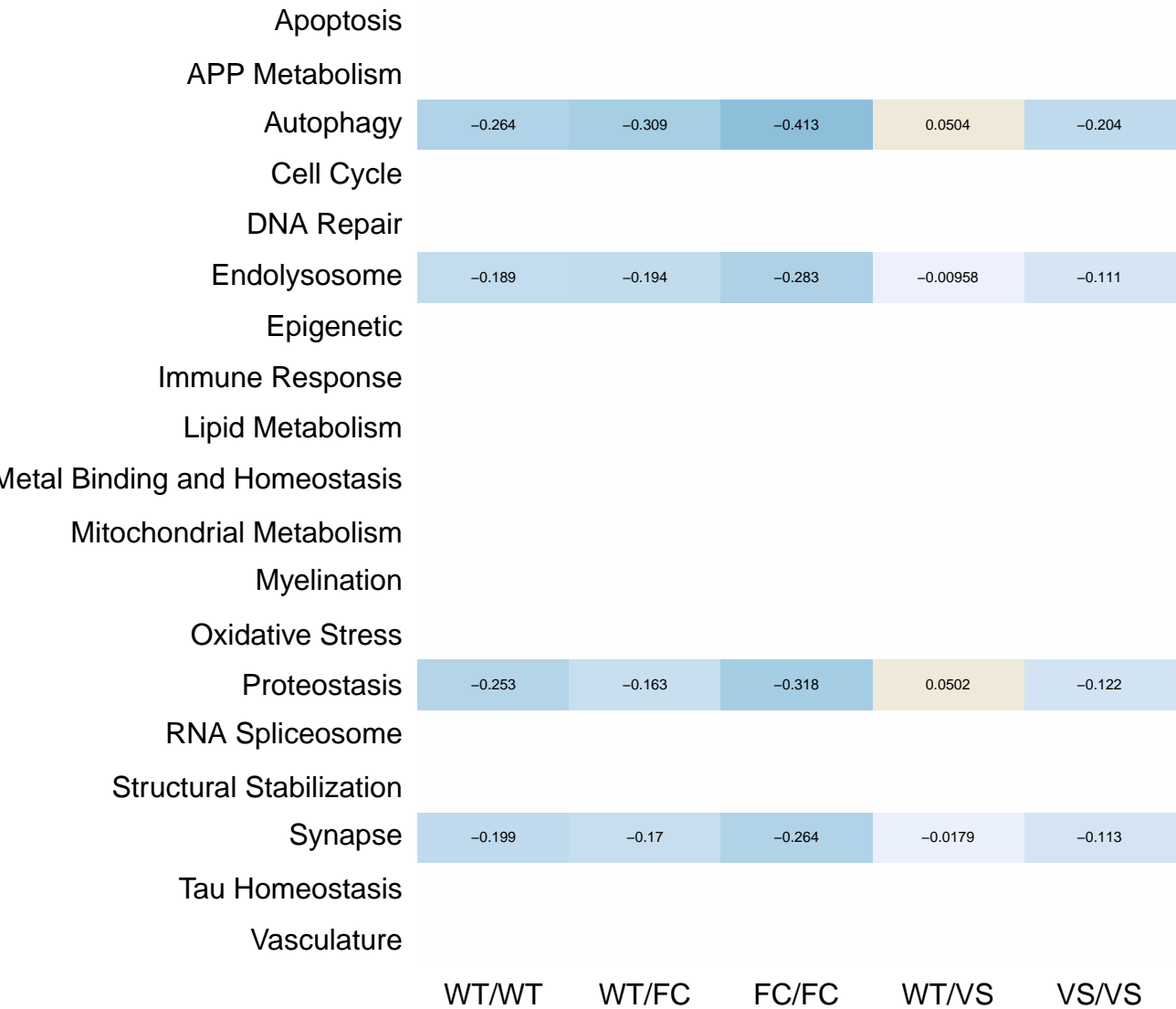
mRNA surveillance pathway					
Apoptosis	−0.11	−0.155	−0.0823	0.475	0.201
APP Metabolism					
Autophagy					
Cell Cycle	−0.129	−0.121	−0.0651	0.266	−0.0136
DNA Repair	0.254	0.283	0.436	0.0194	0.162
Endolysosome					
Epigenetic	0.0936	−0.0192	0.0751	0.249	0.263
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	−0.0714	−0.00759	0.0599	0.141	0.00571
Mitochondrial Metabolism	−0.306	−0.221	−0.207	0.0901	−0.142
Myelination					
Oxidative Stress					
Proteostasis	−0.166	−0.241	−0.169	0.0768	−0.0509
RNA Spliceosome	−0.00583	−0.221	−0.0583	0.264	0.301
Structural Stabilization	−0.255	−0.262	−0.233	0.282	0.0888
Synapse	−0.217	−0.264	−0.238	0.248	−0.0522
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



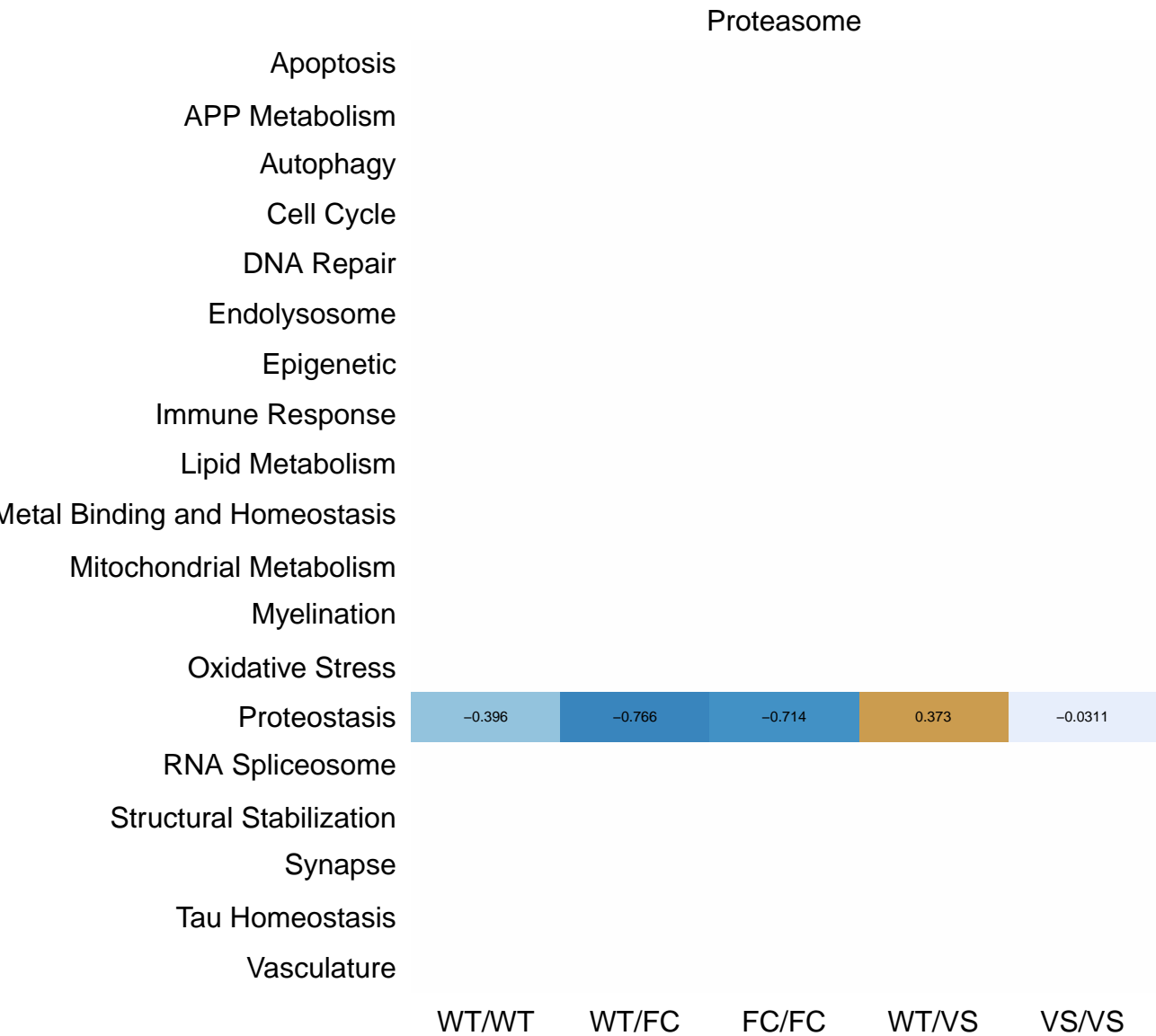


Protein processing in endoplasmic reticulum					
Apoptosis	0.152	0.0273	0.173	0.395	0.142
APP Metabolism					
Autophagy	0.159	0.0846	0.158	0.353	0.152
Cell Cycle	-0.00677	-0.203	-0.125	0.59	0.308
DNA Repair	-0.052	-0.13	-0.143	0.329	0.261
Endolysosome	0.183	-0.0307	0.166	0.484	0.184
Epigenetic	0.193	0.2	0.186	0.435	0.224
Immune Response	0.122	-0.0496	0.0672	0.441	0.19
Lipid Metabolism	0.0389	-0.105	0.0758	0.349	0.0988
Metal Binding and Homeostasis	0.224	0.235	0.274	0.222	0.0562
Mitochondrial Metabolism	0.116	0.11	0.154	0.315	0.157
Myelination					
Oxidative Stress	0.164	0.127	0.19	0.404	0.183
Proteostasis	0.0749	0.00317	0.0724	0.266	0.0695
RNA Spliceosome					
Structural Stabilization	0.205	0.028	0.182	0.556	0.277
Synapse	0.191	0.14	0.169	0.363	0.149
Tau Homeostasis					
Vasculature	0.216	0.184	0.249	0.486	0.265
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

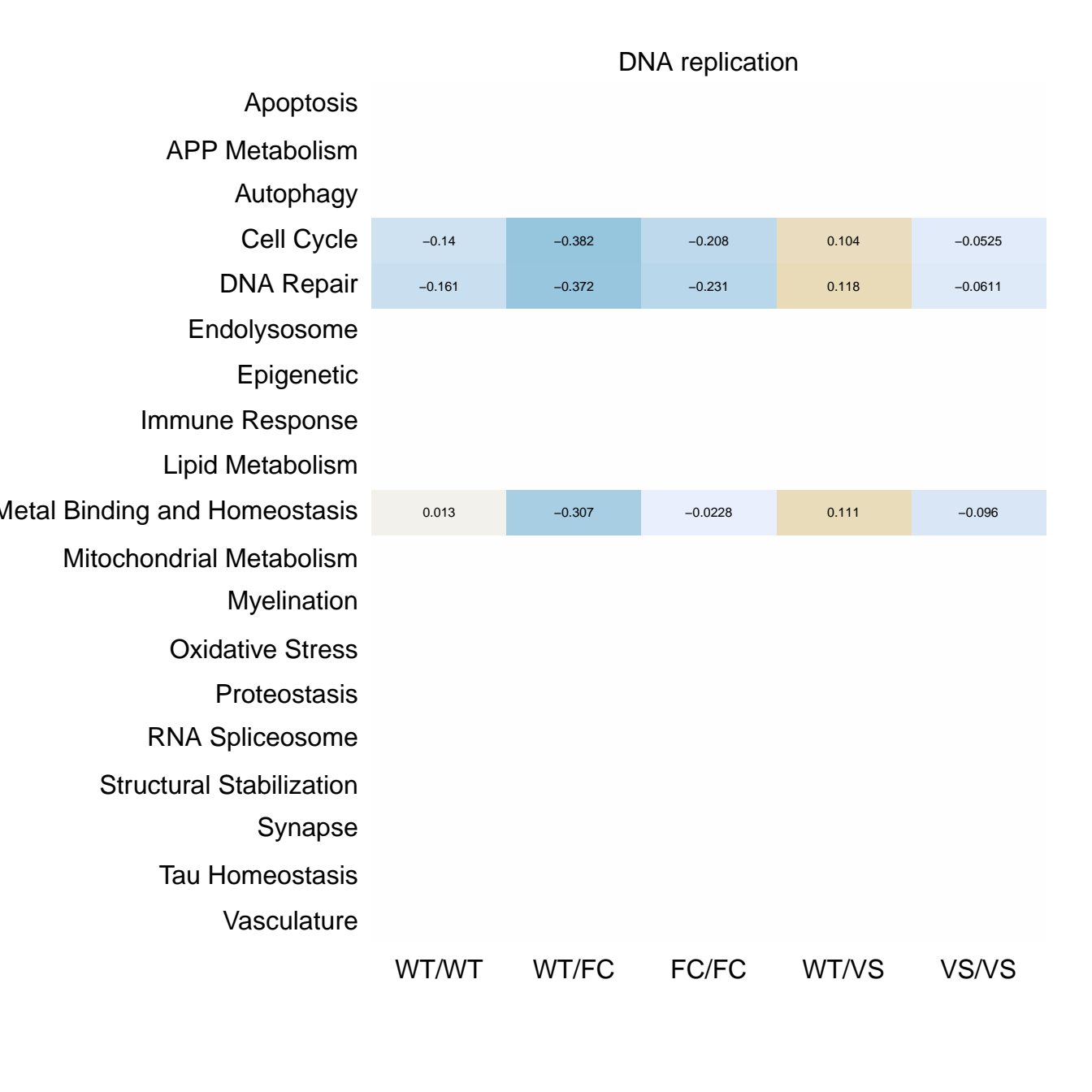
SNARE interactions in vesicular transport



Ubiquitin mediated proteolysis					
Apoptosis	0.000829	0.0888	0.106	0.0303	−0.167
APP Metabolism					
Autophagy	−0.087	0.0486	−0.1	0.00074	−0.153
Cell Cycle	−0.138	−0.0428	−0.042	−7e−04	−0.228
DNA Repair	−0.022	0.132	0.0841	−0.0445	−0.131
Endolysosome	0.211	0.361	0.292	0.112	0.0433
Epigenetic	−0.0161	0.0927	0.00337	−0.0313	−0.11
Immune Response	0.0929	0.195	0.18	0.094	−0.0752
Lipid Metabolism	0.0111	0.16	0.0534	0.174	−0.0599
Metal Binding and Homeostasis	0.0465	0.109	0.0572	0.0468	−0.108
Mitochondrial Metabolism	−0.252	−0.21	−0.303	0.171	−0.0864
Myelination					
Oxidative Stress					
Proteostasis	−0.0539	0.0253	−0.0102	0.099	−0.114
RNA Spliceosome					
Structural Stabilization	0.0129	0.158	0.0942	0.0597	−0.128
Synapse	0.077	0.167	0.137	0.025	−0.0431
Tau Homeostasis					
Vasculature	0.0638	0.16	0.249	0.0523	−0.0325
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

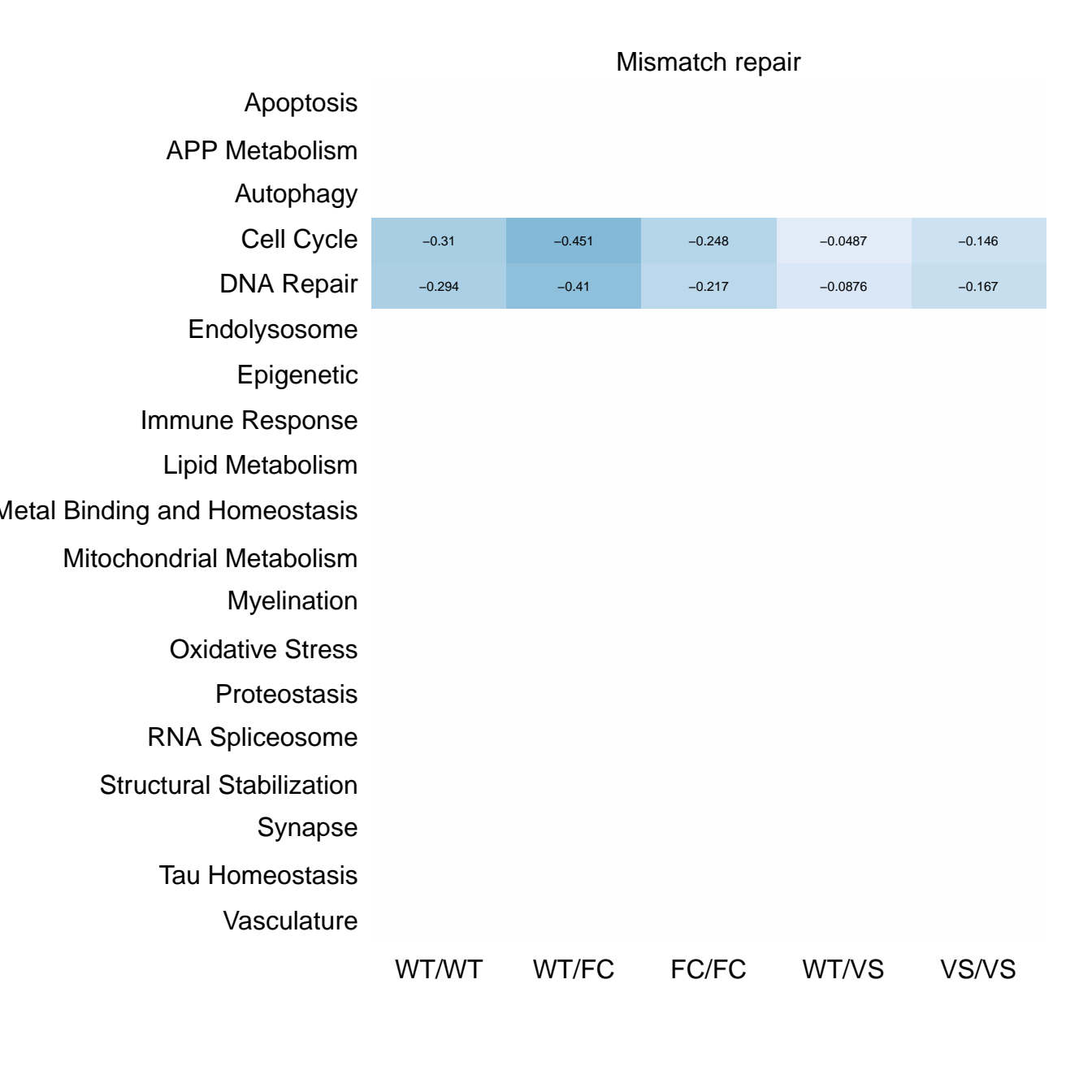


RNA degradation					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	-0.16	-0.0744	-0.0963	-0.0905	-0.202
Immune Response	-0.263	-0.251	-0.344	0.0198	-0.186
Lipid Metabolism					
Metal Binding and Homeostasis	-0.0938	-0.0171	-0.0367	-0.0517	-0.137
Mitochondrial Metabolism	-0.21	-0.268	-0.271	0.0219	-0.223
Myelination					
Oxidative Stress					
Proteostasis	-0.252	-0.197	-0.204	-0.0874	-0.157
RNA Spliceosome	-0.409	-0.589	-0.568	0.241	-0.0979
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Base excision repair					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	-0.12	-0.353	-0.224	0.134	0.0037
DNA Repair	-0.1	-0.331	-0.134	0.139	0.0255
Endolysosome					
Epigenetic	-0.226	-0.596	-0.332	0.164	0.0518
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	-0.119	-0.224	-0.186	0.141	-0.0566
Mitochondrial Metabolism	-0.0725	-0.149	-0.0799	0.305	0.000528
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Nucleotide excision repair				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	-0.251	-0.375	-0.24	0.056	-0.135
DNA Repair	-0.232	-0.355	-0.189	0.00427	-0.181
Endolysosome					
Epigenetic	-0.0538	0.101	0.101	-0.215	-0.244
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	-0.312	-0.349	-0.246	0.0182	-0.157
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	-0.222	-0.266	-0.132	0.0389	-0.172
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Homologous recombination					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	-0.128	-0.152	-0.0522	0.00526	-0.127
DNA Repair	-0.147	-0.183	-0.0855	-0.00147	-0.124
Endolysosome					
Epigenetic	-0.2	-0.149	-0.107	-0.0555	-0.213
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	-0.06	0.0113	0.089	0.0101	-0.0178
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	-0.177	-0.303	-0.259	0.0705	-0.0219
RNA Spliceosome					
Structural Stabilization	0.00417	0.117	0.192	-0.124	-0.193
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Fanconi anemia pathway					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	−0.113	−0.146	−0.0123	−0.052	−0.0764
DNA Repair	−0.117	−0.154	−0.0207	−0.0982	−0.0992
Endolysosome					
Epigenetic	−0.0221	0.0227	0.115	0.0305	0.0662
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	−0.0229	0.0109	0.107	−0.0159	−0.0752
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.243	−0.291	−0.144	−0.159	−0.149
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

ATP-dependent chromatin remodeling					
Apoptosis	−0.145	−0.284	−0.256	0.131	0.0549
APP Metabolism					
Autophagy					
Cell Cycle	−0.0439	−0.0851	−0.0604	0.0845	0.0385
DNA Repair	0.00136	−0.0349	−0.0107	0.119	0.0809
Endolysosome					
Epigenetic	0.00411	−0.0273	−0.0194	0.0426	0.0463
Immune Response	−0.0276	0.0266	0.0328	0.126	0.0248
Lipid Metabolism					
Metal Binding and Homeostasis	0.161	0.2	0.177	0.0125	0.134
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization	0.00887	−0.048	−0.052	0.163	0.0828
Synapse	0.0573	0.0848	0.0566	0.0794	0.0389
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Polycomb repressive complex					
Apoptosis	0.0776	0.204	0.203	0.0283	0.0878
APP Metabolism					
Autophagy					
Cell Cycle	−0.00621	0.0717	0.0612	−0.0155	0.0117
DNA Repair	0.231	0.526	0.362	0.0745	0.156
Endolysosome					
Epigenetic	0.127	0.219	0.19	0.0148	0.0829
Immune Response	0.0824	0.179	0.158	−0.128	0.0239
Lipid Metabolism					
Metal Binding and Homeostasis	0.106	0.266	0.213	0.0265	0.142
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.133	0.385	0.285	0.065	0.0128
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Viral life cycle – HIV–1					
Apoptosis	0.112	0.232	0.142	–0.0387	0.00964
APP Metabolism					
Autophagy	–0.0473	–0.0644	0.0475	0.332	0.124
Cell Cycle	0.046	–0.106	0.028	0.282	0.179
DNA Repair					
Endolysosome	–0.0639	–0.215	0.0512	0.328	0.145
Epigenetic	0.0687	0.0723	0.00953	0.137	0.196
Immune Response	0.144	0.206	0.207	0.00378	0.0137
Lipid Metabolism	0.121	0.0598	0.233	0.146	0.057
Metal Binding and Homeostasis	0.123	0.166	0.227	–0.027	0.0731
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.142	0.198	0.257	0.142	0.00676
RNA Spliceosome					
Structural Stabilization	0.0879	–0.000608	0.13	0.358	0.146
Synapse	0.21	0.324	0.344	0.263	0.127
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Virion – Hepatitis viruses

Apoptosis					
APP Metabolism					
Autophagy	−0.179	−0.222	−0.226	0.347	−0.09
Cell Cycle					
DNA Repair					
Endolysosome	−0.0554	−0.142	−0.163	0.19	−0.0105
Epigenetic					
Immune Response	0.175	0.191	0.0739	0.0331	0.0803
Lipid Metabolism	0.11	0.0856	0.00065	0.192	0.133
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.0773	−0.0771	−0.144	0.0794	−0.125
RNA Spliceosome					
Structural Stabilization	0.0182	−0.0979	−0.196	0.264	0.144
Synapse					
Tau Homeostasis					
Vasculature	0.181	0.123	0.0842	0.00626	0.152
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

ABC transporters

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.313	0.413	0.457	0.113	0.0873
Epigenetic					
Immune Response	0.359	0.179	0.311	-0.0959	0.0163
Lipid Metabolism	0.202	0.294	0.322	-0.17	-0.0577
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.192	0.199	0.252	-0.097	-0.0212
RNA Spliceosome					
Structural Stabilization					
Synapse	0.0854	0.232	0.277	-0.288	-0.0535
Tau Homeostasis					
Vasculature	0.292	0.373	0.421	-0.0421	0.0648
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

MAPK signaling pathway					
Apoptosis	0.176	0.289	0.21	0.126	0.0348
APP Metabolism	0.183	0.489	0.282	−0.000605	0.138
Autophagy	−0.11	−0.0567	−0.0737	0.216	−0.0556
Cell Cycle	0.0353	0.184	0.123	0.0535	0.034
DNA Repair	0.0785	0.0848	0.101	0.175	0.00505
Endolysosome	0.062	0.0613	0.0303	0.151	0.0689
Epigenetic	0.0971	0.196	0.166	0.138	0.0451
Immune Response	0.0968	0.164	0.114	0.0955	0.0142
Lipid Metabolism	0.165	0.255	0.176	0.0825	−0.00451
Metal Binding and Homeostasis	0.045	0.19	0.151	−0.0945	−0.133
Mitochondrial Metabolism	0.123	0.147	0.126	0.176	0.042
Myelination	0.211	0.342	0.283	0.223	0.0757
Oxidative Stress	0.0316	0.188	0.106	0.185	0.0838
Proteostasis	0.0707	0.121	0.0726	0.202	0.0337
RNA Spliceosome					
Structural Stabilization	0.145	0.229	0.143	0.138	0.0433
Synapse	0.129	0.238	0.157	0.0545	0.00977
Tau Homeostasis					
Vasculature	0.106	0.239	0.118	0.0935	0.0108
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

ErbB signaling pathway					
Apoptosis	0.14	0.366	0.267	0.0167	-0.0585
APP Metabolism					
Autophagy	0.19	0.401	0.384	0.108	-0.0103
Cell Cycle	0.111	0.298	0.22	0.169	0.0762
DNA Repair	0.165	0.327	0.256	0.0664	-0.0135
Endolysosome	0.133	0.231	0.146	0.0737	0.0178
Epigenetic	0.0832	0.232	0.256	0.0775	-0.0376
Immune Response	0.142	0.323	0.231	0.0401	-0.0371
Lipid Metabolism	0.236	0.43	0.338	0.0716	0.0165
Metal Binding and Homeostasis	0.141	0.262	0.219	-0.0262	0.00172
Mitochondrial Metabolism	0.117	0.348	0.248	-0.00677	-0.034
Myelination					
Oxidative Stress	0.171	0.38	0.188	0.345	0.0726
Proteostasis	0.14	0.221	0.169	0.2	0.109
RNA Spliceosome					
Structural Stabilization	0.161	0.371	0.265	0.0356	-0.0177
Synapse	0.0936	0.34	0.218	-0.0524	-0.0764
Tau Homeostasis					
Vasculature	0.194	0.391	0.285	0.0463	-0.0432
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Ras signaling pathway					
Apoptosis	0.148	0.308	0.182	0.0204	−0.0529
APP Metabolism	0.25	0.595	0.362	0.0191	0.0817
Autophagy	−0.0148	0.106	0.00511	0.187	−0.0857
Cell Cycle	0.101	0.165	0.0799	0.116	0.035
DNA Repair	0.106	0.0939	0.121	0.212	−0.0449
Endolysosome	−0.00966	0.0473	−0.0259	0.12	−0.0208
Epigenetic	0.135	0.276	0.194	−0.0259	−0.0438
Immune Response	0.0997	0.18	0.0896	0.062	−0.0408
Lipid Metabolism	0.158	0.202	0.143	0.102	0.00718
Metal Binding and Homeostasis	0.0433	0.0888	0.0837	−0.0684	−0.0439
Mitochondrial Metabolism	0.116	0.172	0.0836	0.202	0.0347
Myelination	0.0331	0.207	0.196	0.194	0.0428
Oxidative Stress	0.147	0.247	0.0968	0.165	0.0561
Proteostasis	0.0548	0.129	0.0399	0.168	0.0175
RNA Spliceosome					
Structural Stabilization	0.114	0.193	0.103	0.126	0.0296
Synapse	0.0664	0.213	0.0875	0.0376	−0.0584
Tau Homeostasis					
Vasculature	0.11	0.22	0.078	0.0678	−0.0519
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Rap1 signaling pathway					
Apoptosis	0.144	0.299	0.199	0.0319	−0.0946
APP Metabolism	0.208	0.545	0.379	−0.0803	0.0431
Autophagy	−0.0105	0.186	0.0696	0.105	−0.0941
Cell Cycle	0.0503	0.101	0.0714	0.126	0.0232
DNA Repair	0.055	0.208	0.17	0.0859	−0.118
Endolysosome	0.0514	0.222	0.0989	0.0839	−0.0638
Epigenetic	0.116	0.188	0.114	0.106	0.0337
Immune Response	0.0873	0.195	0.122	0.0535	−0.0156
Lipid Metabolism	0.144	0.243	0.179	−0.012	−0.0927
Metal Binding and Homeostasis	0.101	0.222	0.188	−0.0355	−0.0888
Mitochondrial Metabolism	0.0791	0.122	0.181	0.0331	−0.0388
Myelination	0.0793	0.17	0.198	0.19	−0.0387
Oxidative Stress	0.0153	0.174	0.0817	0.114	−0.0254
Proteostasis	0.0955	0.154	0.0944	0.141	0.0261
RNA Spliceosome					
Structural Stabilization	0.104	0.221	0.136	0.0625	−0.0388
Synapse	0.108	0.222	0.14	0.0347	−0.0436
Tau Homeostasis					
Vasculature	0.0835	0.161	0.0907	0.0955	−0.0218
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Wnt signaling pathway					
Apoptosis	0.0516	0.247	0.102	−0.0848	−0.14
APP Metabolism					
Autophagy	−0.105	0.0666	−0.017	−0.00993	−0.164
Cell Cycle	−0.0183	0.22	0.0288	−0.129	−0.122
DNA Repair	0.13	0.174	0.101	0.083	−0.00614
Endolysosome	0.0759	0.107	0.00482	0.156	0.00884
Epigenetic	0.133	0.291	0.134	0.0173	−0.0109
Immune Response	0.0818	0.126	0.0392	0.0496	−0.00817
Lipid Metabolism	0.116	0.224	0.173	−0.0636	−0.136
Metal Binding and Homeostasis	0.00664	0.125	0.067	−0.115	−0.148
Mitochondrial Metabolism	0.00369	0.0399	0.0401	−0.0575	−0.161
Myelination					
Oxidative Stress	0.0123	0.147	0.0794	0.0876	−0.229
Proteostasis	0.0176	0.125	0.0263	−0.00862	−0.093
RNA Spliceosome					
Structural Stabilization	0.0974	0.15	0.0849	0.00995	−0.0415
Synapse	0.0819	0.13	0.0799	0.01	−0.0278
Tau Homeostasis					
Vasculature	0.12	0.244	0.0956	0.115	0.00691
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Notch signaling pathway					
Apoptosis	0.173	0.258	0.155	0.0994	−0.058
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.219	0.157	0.101	0.329	0.0947
Epigenetic	0.232	0.273	0.196	0.108	0.136
Immune Response	0.258	0.372	0.188	0.158	0.138
Lipid Metabolism	0.19	0.12	0.11	0.101	−0.058
Metal Binding and Homeostasis	0.358	0.369	0.295	0.304	0.245
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.353	0.304	0.259	0.343	0.195
RNA Spliceosome					
Structural Stabilization	0.175	0.149	0.103	0.147	0.107
Synapse	0.259	0.196	0.104	0.19	0.187
Tau Homeostasis					
Vasculature	0.225	0.273	0.178	0.106	−0.025
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Hedgehog signaling pathway				
Apoptosis	0.154	0.403	0.227	−0.0901	0.00764
APP Metabolism					
Autophagy					
Cell Cycle	0.0119	0.35	0.128	−0.119	−0.13
DNA Repair					
Endolysosome	0.335	0.444	0.355	0.202	0.241
Epigenetic	0.227	0.388	0.297	−0.135	0.0446
Immune Response	0.322	0.321	0.145	0.131	0.237
Lipid Metabolism	0.24	0.29	0.146	0.219	0.0848
Metal Binding and Homeostasis	0.247	0.324	0.192	0.0815	0.087
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.255	0.454	0.316	0.0809	0.0558
RNA Spliceosome					
Structural Stabilization	0.137	0.34	0.123	−0.0983	−0.0482
Synapse	0.323	0.397	0.316	0.0854	0.204
Tau Homeostasis					
Vasculature	0.392	0.348	0.222	0.149	0.405
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

TGF-beta signaling pathway					
Apoptosis	0.079	0.119	0.11	0.0367	0.00741
APP Metabolism					
Autophagy					
Cell Cycle	0.0244	0.111	0.0842	0.059	-0.0097
DNA Repair					
Endolysosome	-0.0536	0.113	0.0146	-0.096	-0.251
Epigenetic	0.158	0.217	0.223	0.0974	0.0762
Immune Response	0.0723	0.0889	0.106	0.0422	0.0046
Lipid Metabolism	0.0556	0.111	0.132	0.0317	-0.084
Metal Binding and Homeostasis	0.115	0.337	0.246	-0.122	-0.121
Mitochondrial Metabolism	-0.0856	-0.0137	-0.0199	0.214	-0.0475
Myelination					
Oxidative Stress	-0.134	-0.00262	-0.107	-0.129	-0.202
Proteostasis	0.0509	0.122	0.1	0.0101	-0.0643
RNA Spliceosome					
Structural Stabilization	0.0564	0.117	0.0825	0.029	-0.0292
Synapse	0.109	0.209	0.179	0.0228	0.00494
Tau Homeostasis					
Vasculature	0.168	0.223	0.249	0.0845	0.0566
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hippo signaling pathway					
Apoptosis	0.104	0.176	0.114	0.0717	−0.00902
APP Metabolism					
Autophagy					
Cell Cycle	0.0481	0.0537	0.0423	0.117	0.0129
DNA Repair	0.0709	0.0629	0.0475	0.173	0.138
Endolysosome	0.214	0.246	0.139	0.18	0.095
Epigenetic	0.123	0.183	0.0947	0.114	0.0643
Immune Response	0.0828	0.116	0.0674	0.0852	−0.00715
Lipid Metabolism	0.153	0.195	0.173	0.0832	−0.0134
Metal Binding and Homeostasis	0.158	0.218	0.228	0.0697	−0.0194
Mitochondrial Metabolism	−0.0716	0.00568	−0.109	0.261	0.0261
Myelination	0.263	0.23	0.299	0.151	0.0472
Oxidative Stress	0.0386	0.0639	0.0692	−0.0618	−0.134
Proteostasis	0.0705	0.161	0.0523	0.0686	−0.0517
RNA Spliceosome					
Structural Stabilization	0.12	0.191	0.122	0.0733	−0.00811
Synapse	0.0815	0.154	0.0924	0.0606	−0.0273
Tau Homeostasis					
Vasculature	0.116	0.235	0.116	0.114	0.0126
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hippo signaling pathway – multiple species					
Apoptosis	0.0569	0.0628	0.307	−0.0739	−0.139
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.133	0.059	0.23	0.149	0.136
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization	0.246	0.37	0.319	0.0188	0.0536
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

VEGF signaling pathway					
Apoptosis	0.178	0.23	0.301	0.187	0.178
APP Metabolism					
Autophagy	0.0694	0.0793	0.135	0.408	0.17
Cell Cycle	0.0103	0.022	0.131	0.239	0.184
DNA Repair	0.183	0.151	0.329	0.206	0.226
Endolysosome	−0.0291	−0.0643	0.01	0.221	0.126
Epigenetic	0.089	0.183	0.18	0.149	0.163
Immune Response	0.0948	0.0872	0.148	0.227	0.175
Lipid Metabolism	0.171	0.195	0.301	0.163	0.115
Metal Binding and Homeostasis	0.0036	−0.138	0.0736	−0.0866	−0.0107
Mitochondrial Metabolism	0.13	0.0937	0.177	0.214	0.112
Myelination					
Oxidative Stress	0.216	0.113	0.24	0.536	0.371
Proteostasis	0.108	0.13	0.16	0.351	0.183
RNA Spliceosome					
Structural Stabilization	0.077	0.102	0.153	0.26	0.168
Synapse	−0.00273	0.0113	0.0309	0.206	0.106
Tau Homeostasis					
Vasculature	0.138	0.208	0.248	0.147	0.127
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Apelin signaling pathway					
Apoptosis	0.133	0.219	0.194	0.13	0.0829
APP Metabolism					
Autophagy	−0.0254	0.143	0.133	0.0904	−0.104
Cell Cycle	−0.126	−0.0048	−0.0504	0.175	−0.0376
DNA Repair					
Endolysosome	0.0615	0.137	0.0977	0.199	−0.00655
Epigenetic	0.154	0.369	0.208	0.0971	0.0288
Immune Response	0.0654	0.219	0.0773	0.0776	−0.0249
Lipid Metabolism	0.116	0.226	0.219	0.0175	−0.0477
Metal Binding and Homeostasis	0.132	0.269	0.181	−0.0142	−0.0141
Mitochondrial Metabolism	0.126	0.179	0.232	0.00542	0.00838
Myelination	0.0476	0.0187	0.0627	0.296	0.0888
Oxidative Stress	0.124	0.175	0.141	0.358	0.199
Proteostasis	0.153	0.2	0.178	0.119	0.0558
RNA Spliceosome					
Structural Stabilization	0.0686	0.162	0.117	0.0539	−0.0206
Synapse	0.102	0.227	0.162	−0.00182	−0.0281
Tau Homeostasis					
Vasculature	0.158	0.262	0.17	0.094	0.048
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

JAK–STAT signaling pathway					
Apoptosis	0.169	0.208	0.177	0.131	0.0971
APP Metabolism					
Autophagy	0.235	0.227	0.199	0.178	0.015
Cell Cycle	0.171	0.176	0.0811	0.254	0.236
DNA Repair	0.281	0.456	0.205	0.195	0.167
Endolysosome	0.0695	0.0505	0.0639	0.0233	−0.0397
Epigenetic	0.128	0.141	0.0904	0.0817	0.183
Immune Response	0.141	0.0766	0.141	0.126	0.133
Lipid Metabolism	0.173	0.168	0.214	0.0457	0.0629
Metal Binding and Homeostasis	0.222	0.245	0.229	0.179	0.174
Mitochondrial Metabolism	0.304	0.196	0.345	0.217	0.155
Myelination					
Oxidative Stress	0.31	0.282	0.171	0.376	0.297
Proteostasis	0.15	0.16	0.152	0.088	0.0522
RNA Spliceosome					
Structural Stabilization	0.155	0.177	0.148	0.186	0.137
Synapse	0.206	0.174	0.146	0.121	0.105
Tau Homeostasis					
Vasculature	0.19	0.285	0.314	0.0643	0.00462
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

NF-kappa B signaling pathway					
Apoptosis	0.117	0.164	0.127	0.121	0.0307
APP Metabolism					
Autophagy	0.122	0.219	0.225	0.263	0.0339
Cell Cycle	-0.0197	0.147	0.108	0.0254	-0.0377
DNA Repair	0.402	0.428	0.367	0.356	0.229
Endolysosome	0.142	0.14	0.215	0.215	-0.00105
Epigenetic	0.0997	0.191	0.169	0.146	0.0726
Immune Response	0.128	0.11	0.114	0.109	0.0251
Lipid Metabolism	0.13	0.0953	0.0966	0.117	0.0336
Metal Binding and Homeostasis	0.0114	0.186	0.113	-0.122	-0.124
Mitochondrial Metabolism	0.265	0.3	0.306	0.433	0.333
Myelination					
Oxidative Stress	0.228	0.269	0.275	0.198	0.0853
Proteostasis	0.104	0.156	0.19	0.0917	-0.0345
RNA Spliceosome					
Structural Stabilization	0.153	0.208	0.2	0.11	0.0531
Synapse	0.1	0.133	0.119	0.138	0.0204
Tau Homeostasis					
Vasculature	0.0258	0.0167	0.0998	0.0854	0.0479
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

TNF signaling pathway					
Apoptosis	0.112	0.167	0.234	0.0957	−0.00898
APP Metabolism					
Autophagy	0.0603	0.0638	0.135	0.103	−0.0816
Cell Cycle	−0.0125	0.138	0.193	0.0247	−0.0918
DNA Repair	0.0627	0.253	0.21	−0.0765	−0.138
Endolysosome	0.101	0.195	0.32	0.0747	−0.0678
Epigenetic	0.0899	0.21	0.225	0.125	0.0812
Immune Response	0.093	0.15	0.176	0.0886	0.0334
Lipid Metabolism	0.141	0.162	0.212	0.107	0.0893
Metal Binding and Homeostasis	0.0833	0.22	0.272	−0.0652	−0.12
Mitochondrial Metabolism	0.18	0.177	0.336	0.15	0.067
Myelination					
Oxidative Stress	0.0694	0.22	0.24	0.163	−0.0493
Proteostasis	0.132	0.154	0.193	0.17	0.0548
RNA Spliceosome					
Structural Stabilization	0.172	0.2	0.265	0.0969	0.0475
Synapse	0.0736	0.102	0.176	0.116	−0.00268
Tau Homeostasis					
Vasculature	0.0574	0.171	0.253	0.059	−0.00175
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

HIF-1 signaling pathway					
Apoptosis	0.168	0.261	0.203	0.0681	0.0456
APP Metabolism					
Autophagy	0.161	0.277	0.331	0.18	0.029
Cell Cycle	0.17	0.297	0.228	0.129	0.112
DNA Repair	0.25	0.376	0.33	0.0961	0.108
Endolysosome	0.189	0.335	0.235	0.0633	0.0134
Epigenetic	0.159	0.29	0.216	0.0866	0.0597
Immune Response	0.158	0.233	0.17	0.0743	0.0545
Lipid Metabolism	0.167	0.287	0.223	0.123	0.0465
Metal Binding and Homeostasis	0.134	0.0862	0.123	0.157	0.116
Mitochondrial Metabolism	-0.00227	0.0699	0.0316	0.134	-0.0018
Myelination					
Oxidative Stress	0.0671	0.17	0.174	0.263	0.152
Proteostasis	0.0542	0.0575	0.0571	0.201	0.0871
RNA Spliceosome					
Structural Stabilization	0.114	0.164	0.0894	0.159	0.093
Synapse	0.157	0.251	0.13	0.107	0.0637
Tau Homeostasis					
Vasculature	0.153	0.226	0.178	0.0581	0.00333
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

FoxO signaling pathway					
Apoptosis	0.126	0.263	0.225	0.0217	0.00696
APP Metabolism					
Autophagy	0.134	0.188	0.178	0.184	0.0269
Cell Cycle	0.0601	0.163	0.11	0.0769	0.0858
DNA Repair	0.13	0.233	0.17	0.039	0.0563
Endolysosome	0.0834	0.145	0.0525	0.192	0.117
Epigenetic	0.158	0.286	0.211	0.00944	0.0319
Immune Response	0.194	0.304	0.281	0.0322	0.0298
Lipid Metabolism	0.177	0.289	0.286	0.0312	0.00847
Metal Binding and Homeostasis	0.179	0.233	0.229	-0.0327	0.0468
Mitochondrial Metabolism	0.108	0.165	0.2	0.084	-0.0327
Myelination					
Oxidative Stress	0.118	0.192	0.168	0.0606	-0.0401
Proteostasis	0.0673	0.0505	0.0584	0.175	0.0803
RNA Spliceosome					
Structural Stabilization	0.117	0.245	0.182	0.0719	0.0428
Synapse	0.146	0.253	0.174	0.0909	0.0409
Tau Homeostasis					
Vasculature	0.228	0.313	0.238	0.088	0.0375
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Calcium signaling pathway					
Apoptosis	0.0868	0.137	0.0353	−0.00626	−0.0668
APP Metabolism					
Autophagy	−0.0337	−0.00324	0.0102	0.0135	−0.0564
Cell Cycle	−0.0258	0.0844	−0.0197	−0.112	−0.0577
DNA Repair					
Endolysosome	0.181	0.217	0.195	−0.01	0.0088
Epigenetic	0.137	0.182	0.138	0.0432	0.0243
Immune Response	0.0914	0.174	0.0814	−0.047	−0.0581
Lipid Metabolism	0.12	0.216	0.133	−0.0743	−0.0802
Metal Binding and Homeostasis	0.0279	0.162	0.125	−0.175	−0.102
Mitochondrial Metabolism	0.033	0.0646	0.000587	−0.106	−0.102
Myelination	−0.0105	0.14	0.00861	−0.0857	−0.0911
Oxidative Stress	0.165	0.259	0.126	0.0645	−0.0384
Proteostasis	0.107	0.152	0.0797	−0.0534	−0.037
RNA Spliceosome					
Structural Stabilization	0.0986	0.241	0.127	−0.0637	−0.0404
Synapse	0.0866	0.212	0.124	−0.11	−0.0895
Tau Homeostasis					
Vasculature	0.103	0.197	0.112	−0.0562	−0.0257
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Phosphatidylinositol signaling system					
Apoptosis	−0.0265	0.255	0.212	−0.287	−0.224
APP Metabolism					
Autophagy	0.101	0.294	0.297	−0.0146	−0.103
Cell Cycle	−0.225	−0.0269	0.0576	−0.185	−0.154
DNA Repair					
Endolysosome	0.175	0.363	0.359	−0.012	−0.161
Epigenetic					
Immune Response	0.0531	0.175	0.273	−0.0583	−0.0133
Lipid Metabolism	0.143	0.299	0.309	−0.021	−0.0859
Metal Binding and Homeostasis	0.0695	0.169	0.23	−0.0662	−0.0799
Mitochondrial Metabolism	0.134	0.26	0.321	−0.145	−0.108
Myelination					
Oxidative Stress					
Proteostasis	0.195	0.386	0.432	−0.022	−0.103
RNA Spliceosome					
Structural Stabilization	0.0456	0.251	0.24	−0.173	−0.0964
Synapse	0.0406	0.165	0.287	−0.114	−0.151
Tau Homeostasis					
Vasculature	0.0723	0.139	0.22	−0.0765	−0.0639
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Phospholipase D signaling pathway					
Apoptosis	0.17	0.14	0.167	0.197	0.0793
APP Metabolism					
Autophagy	0.194	0.175	0.181	0.413	0.258
Cell Cycle	0.0722	0.0718	0.0796	0.175	0.145
DNA Repair					
Endolysosome	0.0466	0.0586	0.0566	0.114	0.0329
Epigenetic	0.128	0.118	0.148	0.118	0.087
Immune Response	0.155	0.224	0.173	0.147	0.0728
Lipid Metabolism	0.173	0.194	0.189	0.0901	0.0316
Metal Binding and Homeostasis	0.119	0.144	0.212	-0.0563	-0.0524
Mitochondrial Metabolism	0.0929	0.148	0.131	0.13	0.0211
Myelination	0.107	0.0714	0.0822	0.465	0.204
Oxidative Stress	0.133	0.0755	0.0281	0.302	0.124
Proteostasis	0.125	0.136	0.0838	0.29	0.138
RNA Spliceosome					
Structural Stabilization	0.164	0.243	0.206	0.179	0.0646
Synapse	0.139	0.22	0.221	0.046	0.0111
Tau Homeostasis					
Vasculature	0.151	0.258	0.175	0.0971	0.00594
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Spingolipid signaling pathway					
Apoptosis	0.0965	0.117	0.125	0.228	0.047
APP Metabolism					
Autophagy	0.0738	0.0711	0.0852	0.348	0.15
Cell Cycle	-0.0177	-0.0243	0.0343	0.297	0.0911
DNA Repair	0.0953	-0.0137	0.0715	0.291	0.176
Endolysosome	0.0387	-0.00459	0.0518	0.403	0.0865
Epigenetic	0.179	0.283	0.247	0.23	0.117
Immune Response	0.0629	0.0606	0.088	0.226	0.0931
Lipid Metabolism	0.158	0.141	0.172	0.204	0.0854
Metal Binding and Homeostasis	0.0685	0.0887	0.174	0.198	0.0371
Mitochondrial Metabolism	0.0194	0.0278	0.108	0.179	0.0102
Myelination	0.141	-0.00329	0.0257	0.666	0.379
Oxidative Stress	0.0728	0.0188	0.0936	0.399	0.171
Proteostasis	0.0692	0.0616	0.0202	0.25	0.0774
RNA Spliceosome					
Structural Stabilization	0.0737	0.103	0.129	0.323	0.092
Synapse	0.0643	0.0125	0.0758	0.303	0.0889
Tau Homeostasis					
Vasculature	0.167	0.19	0.24	0.183	0.0426
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

cAMP signaling pathway					
Apoptosis	0.123	0.228	0.242	0.0119	-0.0324
APP Metabolism	0.112	0.511	0.417	-0.223	-0.148
Autophagy	0.0801	0.151	0.158	0.209	0.0335
Cell Cycle	-0.0148	0.101	0.0676	0.0993	-0.0103
DNA Repair					
Endolysosome	0.0178	0.237	0.0968	0.0283	-0.0953
Epigenetic	0.172	0.305	0.246	0.0885	0.0326
Immune Response	0.0759	0.226	0.137	0.0287	-0.0401
Lipid Metabolism	0.111	0.263	0.214	0.046	-0.0263
Metal Binding and Homeostasis	0.142	0.35	0.275	-0.0641	-0.0559
Mitochondrial Metabolism	0.0427	0.135	0.0906	-0.019	-0.0974
Myelination	-0.0466	0.0723	0.0941	0.142	0.0514
Oxidative Stress	-0.00043	0.242	0.117	0.233	-0.122
Proteostasis	0.0982	0.183	0.124	0.0729	0.0128
RNA Spliceosome					
Structural Stabilization	0.0465	0.163	0.124	0.0701	-0.033
Synapse	0.0417	0.183	0.0734	-0.0163	-0.0574
Tau Homeostasis					
Vasculature	0.0763	0.275	0.178	0.00706	-0.0716
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

cGMP–PKG signaling pathway					
Apoptosis	0.0694	−0.014	0.0318	0.19	0.0265
APP Metabolism					
Autophagy	−0.0181	0.00893	0.0628	0.209	0.0569
Cell Cycle	−0.0572	0.0703	0.0511	0.0879	−0.0439
DNA Repair					
Endolysosome	0.0947	0.154	0.13	0.218	0.103
Epigenetic	0.15	0.171	0.204	0.131	0.117
Immune Response	0.105	0.197	0.138	0.0588	−0.000566
Lipid Metabolism	0.142	0.259	0.297	−0.016	−0.068
Metal Binding and Homeostasis	0.119	0.276	0.28	−0.0796	−0.0652
Mitochondrial Metabolism	0.0215	−0.0485	−0.0255	0.0625	−0.0368
Myelination	0.0311	−0.04	0.0675	0.328	0.196
Oxidative Stress	0.0694	0.0862	0.0151	0.333	−0.00316
Proteostasis	0.158	0.1	0.164	0.193	0.118
RNA Spliceosome					
Structural Stabilization	0.0572	0.152	0.127	0.113	0.0388
Synapse	0.0509	0.147	0.106	−0.0366	−0.0655
Tau Homeostasis					
Vasculature	0.102	0.251	0.178	−0.0244	−0.0287
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

PI3K–Akt signaling pathway					
Apoptosis	0.125	0.228	0.13	0.086	−0.0196
APP Metabolism	0.189	0.426	0.213	−0.0688	0.0842
Autophagy	0.167	0.246	0.202	0.129	−0.0336
Cell Cycle	0.0661	0.171	0.0721	0.174	0.0639
DNA Repair	0.151	0.266	0.125	0.224	0.00256
Endolysosome	0.142	0.181	0.121	0.0852	0.0178
Epigenetic	0.0942	0.16	0.0629	0.12	0.0508
Immune Response	0.129	0.154	0.101	0.0586	0.0154
Lipid Metabolism	0.199	0.259	0.211	0.0568	−0.0053
Metal Binding and Homeostasis	0.14	0.234	0.205	0.0364	0.00825
Mitochondrial Metabolism	0.132	0.262	0.171	0.212	0.0671
Myelination	0.318	0.34	0.216	0.223	0.0946
Oxidative Stress	0.08	0.189	0.0575	0.158	0.0137
Proteostasis	0.126	0.118	0.0981	0.155	0.0852
RNA Spliceosome					
Structural Stabilization	0.143	0.201	0.174	0.0455	0.00453
Synapse	0.145	0.195	0.115	0.0688	8.67e−05
Tau Homeostasis					
Vasculature	0.17	0.25	0.188	0.0439	−0.00439
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

AMPK signaling pathway					
Apoptosis	0.0319	0.219	0.147	0.00955	-0.0393
APP Metabolism					
Autophagy	0.15	0.361	0.329	-0.0134	-0.0236
Cell Cycle	0.00555	0.161	0.083	0.17	0.051
DNA Repair					
Endolysosome	0.117	0.337	0.29	0.129	0.0292
Epigenetic	0.104	0.196	0.174	-0.0445	0.0013
Immune Response	0.172	0.275	0.258	0.183	0.101
Lipid Metabolism	0.221	0.322	0.32	0.108	0.0781
Metal Binding and Homeostasis	0.0482	0.151	0.171	0.131	-0.0558
Mitochondrial Metabolism	0.0608	0.169	0.177	0.0252	-0.00379
Myelination					
Oxidative Stress	-0.0501	0.169	0.18	-0.312	-0.21
Proteostasis	0.0482	0.163	0.136	0.076	0.0304
RNA Spliceosome					
Structural Stabilization	0.0324	0.311	0.177	0.0905	-0.0841
Synapse	0.0902	0.233	0.205	0.102	0.0299
Tau Homeostasis					
Vasculature	0.233	0.396	0.357	0.00471	0.0337
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

mTOR signaling pathway					
Apoptosis	0.114	0.247	0.17	0.0199	−0.0246
APP Metabolism					
Autophagy	−0.0418	0.0809	0.044	0.109	−0.11
Cell Cycle	0.118	0.199	0.112	0.101	0.0737
DNA Repair	0.205	0.17	0.213	0.213	0.0476
Endolysosome	−0.0444	−0.016	−0.0685	0.101	−0.0834
Epigenetic	0.179	0.296	0.191	0.0349	0.0275
Immune Response	0.113	0.212	0.104	0.0498	0.0154
Lipid Metabolism	0.278	0.345	0.321	0.106	0.107
Metal Binding and Homeostasis	0.129	0.176	0.254	−0.0259	−0.0517
Mitochondrial Metabolism	0.058	0.148	0.0616	0.178	−0.0336
Myelination	0.286	0.321	0.356	0.264	0.189
Oxidative Stress	0.0645	0.0597	−0.0106	0.194	−0.0738
Proteostasis	0.0984	0.184	0.119	0.102	−0.0142
RNA Spliceosome					
Structural Stabilization	0.099	0.149	0.122	0.0543	−0.026
Synapse	0.0714	0.163	0.0582	0.0657	−0.0131
Tau Homeostasis					
Vasculature	0.109	0.409	0.164	0.00734	−0.0404
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Neuroactive ligand–receptor interaction					
Apoptosis	0.0566	0.0699	0.0266	−0.0724	−0.0258
APP Metabolism	−0.00445	0.367	0.169	−0.261	−0.106
Autophagy	0.154	0.116	0.156	0.214	0.221
Cell Cycle	−0.0145	0.0433	0.0162	0.0533	−0.0232
DNA Repair					
Endolysosome	0.0496	0.225	0.0419	−0.0346	−0.0404
Epigenetic	0.0992	0.186	0.0837	0.0887	0.026
Immune Response	0.07	0.147	0.0303	0.0484	−0.0197
Lipid Metabolism	0.0703	0.167	0.0339	0.039	−0.0188
Metal Binding and Homeostasis	0.035	0.252	0.102	−0.0707	−0.0914
Mitochondrial Metabolism	0.055	0.108	−0.00549	−0.0681	0.0126
Myelination					
Oxidative Stress	0.143	0.177	0.0426	0.168	0.0242
Proteostasis	−0.0216	0.067	−0.0242	−0.0752	−0.0987
RNA Spliceosome					
Structural Stabilization	0.0731	0.259	0.129	−0.0443	−0.11
Synapse	0.033	0.174	0.0195	−0.0225	−0.04
Tau Homeostasis					
Vasculature	0.0652	0.144	0.00412	0.0521	−0.054
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cytokine–cytokine receptor interaction					
Apoptosis	0.0646	0.104	0.0904	−0.0333	−0.0377
APP Metabolism					
Autophagy	0.147	−0.0998	0.0624	0.0278	−0.0146
Cell Cycle	0.155	0.21	0.099	0.105	0.137
DNA Repair					
Endolysosome	−0.00918	−0.0445	−0.0471	−0.124	−0.133
Epigenetic	0.0692	0.0233	0.0729	0.0412	0.0646
Immune Response	0.0507	−0.000174	0.0403	0.00811	0.0169
Lipid Metabolism	0.0954	0.0345	0.0609	−0.046	0.00536
Metal Binding and Homeostasis	0.0762	0.354	0.137	−0.199	−0.0564
Mitochondrial Metabolism	0.112	0.0267	0.224	−0.0533	−0.128
Myelination					
Oxidative Stress					
Proteostasis	0.0339	−0.0615	−0.00518	0.103	−0.0329
RNA Spliceosome					
Structural Stabilization	0.0935	0.0943	0.107	0.0286	0.0196
Synapse	0.139	0.182	0.16	0.0448	0.0622
Tau Homeostasis					
Vasculature	0.0416	0.0444	0.1	−0.0627	0.0114
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Viral protein interaction with cytokine and cytokine receptor					
Apoptosis	0.0314	0.00465	0.0743	−0.0896	−0.112
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	−0.000664	−0.075	0.00861	−0.051	−0.0741
Lipid Metabolism	0.161	0.0088	0.149	−0.0235	−0.00202
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.18	−0.0146	0.121	0.266	0.135
RNA Spliceosome					
Structural Stabilization	0.0825	0.0735	0.0473	−0.0466	−0.0585
Synapse	0.0501	0.0811	0.108	−0.0274	−0.0339
Tau Homeostasis					
Vasculature	−0.0702	−0.0341	0.0211	−0.173	−0.0905
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

ECM–receptor interaction					
Apoptosis	0.0966	0.258	0.194	−0.303	−0.282
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.166	0.105	0.0685	−0.0549	0.0274
Epigenetic					
Immune Response	0.195	0.269	0.266	−0.147	−0.0214
Lipid Metabolism	0.17	0.273	0.298	−0.2	−0.132
Metal Binding and Homeostasis	0.227	0.279	0.318	−0.0993	0.0767
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.321	0.271	0.282	0.0449	0.14
RNA Spliceosome					
Structural Stabilization	0.209	0.231	0.275	−0.0884	0.029
Synapse	0.259	0.356	0.343	−0.185	−0.116
Tau Homeostasis					
Vasculature	0.21	0.297	0.318	−0.136	0.0274
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cell adhesion molecules					
Apoptosis	0.0911	0.207	0.0842	-0.162	-0.228
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.066	0.211	0.147	-0.186	-0.0903
Epigenetic					
Immune Response	0.0867	0.175	0.0648	-0.03	-0.0658
Lipid Metabolism	0.0919	0.191	0.132	-0.0913	-0.124
Metal Binding and Homeostasis	0.158	0.282	0.301	-0.227	-0.0519
Mitochondrial Metabolism					
Myelination	0.334	0.509	0.256	-0.0285	-0.0746
Oxidative Stress					
Proteostasis	0.142	0.241	0.171	-0.238	-0.198
RNA Spliceosome					
Structural Stabilization	0.145	0.302	0.185	-0.154	-0.101
Synapse	0.116	0.407	0.24	-0.241	-0.185
Tau Homeostasis					
Vasculature	0.157	0.244	0.257	-0.0761	-0.0717
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Endocytosis					
Apoptosis	0.115	0.243	0.163	0.0563	-0.0613
APP Metabolism	0.0587	0.303	0.0883	0.0668	-0.114
Autophagy	-0.0632	-0.0108	-0.0311	0.298	-0.00277
Cell Cycle	-0.00982	0.0709	0.0242	0.21	-0.0241
DNA Repair					
Endolysosome	0.014	0.0827	0.0567	0.179	-0.0375
Epigenetic	0.088	0.235	0.0808	0.111	-0.00242
Immune Response	0.111	0.256	0.184	0.169	-0.0505
Lipid Metabolism	0.114	0.194	0.172	0.152	-0.0334
Metal Binding and Homeostasis	0.164	0.159	0.204	0.0295	-0.0237
Mitochondrial Metabolism	0.176	0.328	0.269	0.351	0.0522
Myelination					
Oxidative Stress	0.267	0.403	0.369	0.236	0.235
Proteostasis	0.0427	0.13	0.0729	0.173	-0.0304
RNA Spliceosome					
Structural Stabilization	0.043	0.113	0.079	0.173	-0.00568
Synapse	0.0962	0.206	0.142	0.199	0.0379
Tau Homeostasis					
Vasculature	0.112	0.277	0.22	0.183	-0.00635
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Phagosome					
Apoptosis	0.031	−0.0309	−0.0114	0.048	−0.0168
APP Metabolism	0.106	0.0944	0.0517	−0.0169	0.0471
Autophagy	−0.0216	−0.115	−0.0647	0.163	−0.0178
Cell Cycle	−0.114	−0.232	−0.283	0.376	0.0632
DNA Repair					
Endolysosome	−0.0689	−0.122	−0.112	0.192	−0.0477
Epigenetic					
Immune Response	0.0227	−0.0657	−0.0383	0.203	0.0439
Lipid Metabolism	0.0849	0.0243	0.0361	0.0596	−0.0275
Metal Binding and Homeostasis	0.0417	−0.0667	−0.039	0.143	0.0818
Mitochondrial Metabolism	−0.144	−0.24	−0.19	0.196	−0.0105
Myelination					
Oxidative Stress	0.0129	0.0726	0.0527	−0.0638	−0.00441
Proteostasis	−0.0291	−0.0824	−0.0161	0.126	−0.0489
RNA Spliceosome					
Structural Stabilization	−0.0165	−0.069	−0.0797	0.152	0.0223
Synapse	−0.0768	−0.106	−0.119	0.185	−0.0486
Tau Homeostasis					
Vasculature	0.053	0.0925	0.138	0.0338	−0.0348
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Lysosome					
Apoptosis	0.0716	0.0618	0.0276	0.254	0.0326
APP Metabolism					
Autophagy	−0.00842	0.00305	0.00241	0.168	−0.00785
Cell Cycle					
DNA Repair					
Endolysosome	−0.0381	−0.0224	−0.0262	0.119	−0.0691
Epigenetic					
Immune Response	0.0665	0.0488	0.0531	0.25	0.0768
Lipid Metabolism	0.0279	−0.057	0.00746	0.159	−0.0379
Metal Binding and Homeostasis	−0.00343	0.0151	0.0515	0.142	0.0535
Mitochondrial Metabolism	−0.0655	−0.0566	−0.104	0.232	0.0964
Myelination					
Oxidative Stress					
Proteostasis	−0.0497	−0.00336	−0.00531	0.115	−0.0771
RNA Spliceosome					
Structural Stabilization	0.0479	−0.0812	0.028	0.162	0.0886
Synapse	−0.0772	0.00677	−0.0225	0.106	−0.131
Tau Homeostasis					
Vasculature	0.121	−0.119	−0.081	0.203	0.181
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Peroxisome				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	−0.0962	−0.153	−0.105	0.108	−0.152
Metal Binding and Homeostasis	−0.0921	−0.217	−0.106	0.19	−0.00217
Mitochondrial Metabolism	−0.0786	−0.192	−0.135	0.181	−0.108
Myelination					
Oxidative Stress	−0.151	−0.257	−0.221	0.0971	−0.0582
Proteostasis	−0.139	−0.187	−0.138	0.0163	−0.151
RNA Spliceosome					
Structural Stabilization					
Synapse	−0.0857	−0.083	−0.03	0.148	−0.097
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Autophagy – animal					
Apoptosis	0.0392	0.168	0.14	0.153	−0.0718
APP Metabolism					
Autophagy	0.0668	0.165	0.139	0.171	−0.0851
Cell Cycle	0.0505	0.163	0.129	0.179	0.0369
DNA Repair	0.259	0.341	0.284	0.325	0.104
Endolysosome	0.0139	0.144	0.0973	0.206	−0.0802
Epigenetic	−0.038	0.175	0.135	0.00495	−0.172
Immune Response	0.0291	0.102	0.0958	0.167	−0.0821
Lipid Metabolism	0.17	0.297	0.279	0.189	0.00975
Metal Binding and Homeostasis	0.0822	0.203	0.121	0.172	−0.0571
Mitochondrial Metabolism	0.0487	0.13	0.113	0.232	0.00119
Myelination	0.224	0.286	0.305	0.399	0.199
Oxidative Stress	−0.0103	0.194	0.113	0.139	−0.0308
Proteostasis	0.00639	0.0628	0.0402	0.207	−0.00358
RNA Spliceosome					
Structural Stabilization	−0.0423	0.0773	1.51e−05	0.116	−0.119
Synapse	0.00884	0.103	0.0788	0.205	−0.0362
Tau Homeostasis					
Vasculature	0.0757	0.39	0.262	0.0405	−0.17
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Autophagy – other					
Apoptosis	−0.272	−0.172	−0.249	0.221	−0.108
APP Metabolism					
Autophagy	0.0893	0.192	0.172	0.221	−0.0117
Cell Cycle					
DNA Repair					
Endolysosome	0.136	0.448	0.349	0.128	−0.0266
Epigenetic					
Immune Response	−0.218	−0.183	−0.136	0.141	−0.193
Lipid Metabolism	0.0979	0.244	0.23	0.181	0.00537
Metal Binding and Homeostasis					
Mitochondrial Metabolism	−0.00296	0.0568	−0.0184	0.29	0.0313
Myelination					
Oxidative Stress					
Proteostasis	−0.034	0.0387	−0.0358	0.232	−0.0222
RNA Spliceosome					
Structural Stabilization					
Synapse	−0.151	−0.0389	−0.0857	0.144	−0.177
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Mitophagy – animal					
Apoptosis	0.0108	0.0834	0.0496	0.289	0.034
APP Metabolism					
Autophagy	0.0129	−0.0103	−0.0264	0.351	0.0546
Cell Cycle	−0.124	−0.0227	−0.0995	0.264	0.159
DNA Repair					
Endolysosome	−0.0202	−0.0986	−0.079	0.501	0.128
Epigenetic	0.0534	0.212	0.113	0.147	−0.0419
Immune Response	0.0282	0.0528	0.0598	0.306	−0.00697
Lipid Metabolism	−0.0122	0.0939	0.0229	0.288	0.0506
Metal Binding and Homeostasis	0.00419	0.00396	0.00995	0.318	−0.015
Mitochondrial Metabolism	−0.0394	−0.00476	−0.0106	0.248	−0.0197
Myelination					
Oxidative Stress	−0.0117	0.153	0.078	0.355	0.0351
Proteostasis	−0.023	0.0528	0.0269	0.285	0.0151
RNA Spliceosome					
Structural Stabilization	−0.0649	−0.0826	−0.133	0.316	0.0659
Synapse	−0.0294	−0.0486	−0.0308	0.422	0.0797
Tau Homeostasis					
Vasculature	0.038	0.376	0.171	0.265	−0.0567
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Efferocytosis					
Apoptosis	0.0899	0.0894	0.113	0.01	−0.023
APP Metabolism					
Autophagy	0.07	0.111	0.212	0.00155	−0.0726
Cell Cycle	0.121	0.115	0.126	0.11	0.0488
DNA Repair	0.177	−0.0775	0.141	0.187	0.215
Endolysosome	0.0888	0.155	0.201	0.0911	−0.0309
Epigenetic	0.291	0.251	0.273	0.22	0.212
Immune Response	0.0994	0.125	0.132	0.115	0.0307
Lipid Metabolism	0.161	0.235	0.183	0.126	0.0371
Metal Binding and Homeostasis	0.162	0.227	0.214	0.0345	−0.0374
Mitochondrial Metabolism	0.102	0.0385	0.069	0.237	0.0434
Myelination					
Oxidative Stress	0.105	0.281	0.247	0.0498	−0.011
Proteostasis	0.0808	0.171	0.153	0.0728	0.0108
RNA Spliceosome					
Structural Stabilization	0.12	0.232	0.189	0.118	0.00668
Synapse	0.11	0.223	0.187	0.144	0.0422
Tau Homeostasis					
Vasculature	0.191	0.257	0.219	0.124	0.0342
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cell cycle					
Apoptosis	−0.0106	0.00541	0.0441	0.0656	−0.00573
APP Metabolism					
Autophagy					
Cell Cycle	−0.0709	−0.0435	−0.00121	0.0586	−0.0439
DNA Repair	−0.00401	0.0266	0.0657	0.0121	−0.0709
Endolysosome					
Epigenetic	0.0174	0.0599	0.0583	0.0449	−0.0205
Immune Response	−0.0221	−0.0811	−0.0568	0.0805	−0.00433
Lipid Metabolism	0.0424	0.0207	−0.00524	0.259	0.0741
Metal Binding and Homeostasis	0.0342	−0.0188	−0.0214	0.0589	0.0226
Mitochondrial Metabolism	0.0721	0.0226	0.056	0.194	−0.111
Myelination					
Oxidative Stress	−0.136	−0.289	−0.339	0.0971	−0.0689
Proteostasis	−0.107	−0.0921	−0.0715	0.0349	−0.12
RNA Spliceosome					
Structural Stabilization	−0.11	−0.0261	−0.0274	−0.0154	−0.105
Synapse	−0.0905	−0.0376	−0.00585	0.0687	−0.0339
Tau Homeostasis					
Vasculature	0.0967	−0.0123	0.0685	0.21	0.217
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Oocyte meiosis					
Apoptosis	−0.023	0.11	0.125	−0.00132	−0.148
APP Metabolism					
Autophagy					
Cell Cycle	−0.168	−0.147	−0.109	0.0603	−0.106
DNA Repair	−0.163	−0.199	−0.135	0.00371	−0.225
Endolysosome	0.052	0.3	0.051	0.129	0.0564
Epigenetic	−0.0825	0.00209	−0.048	0.031	−0.0821
Immune Response	−0.141	−0.0677	−0.116	0.0277	−0.1
Lipid Metabolism	0.0938	0.336	0.171	−0.0108	−0.0745
Metal Binding and Homeostasis	−0.00855	0.132	0.024	−0.019	−0.0941
Mitochondrial Metabolism	−0.0576	−0.0485	−0.0747	0.0251	−0.138
Myelination					
Oxidative Stress					
Proteostasis	−0.134	−0.0579	−0.0922	0.0274	−0.168
RNA Spliceosome					
Structural Stabilization	−0.187	−0.0984	−0.179	0.0353	−0.111
Synapse	−0.0597	0.0753	0.0378	−0.0205	−0.0881
Tau Homeostasis					
Vasculature	−0.247	0.057	−0.166	−0.0681	−0.167
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Apoptosis					
Apoptosis	0.0283	0.0196	0.0611	0.16	0.0714
APP Metabolism					
Autophagy	0.0302	0.0683	0.0935	0.268	0.0815
Cell Cycle	-0.0299	-0.135	-0.0912	0.273	0.157
DNA Repair	0.0321	-0.0436	-0.00678	0.173	0.0983
Endolysosome	-0.0373	-0.177	-0.0281	0.315	0.0611
Epigenetic	0.143	0.188	0.18	0.283	0.149
Immune Response	0.0248	-0.00626	0.0435	0.168	0.0811
Lipid Metabolism	0.12	0.0896	0.19	0.128	0.137
Metal Binding and Homeostasis	0.0366	-0.0292	0.0601	0.181	0.0907
Mitochondrial Metabolism	0.108	0.125	0.207	0.197	0.149
Myelination	0.331	0.259	0.318	0.604	0.367
Oxidative Stress	-0.00243	0.0393	0.105	0.254	0.123
Proteostasis	0.0434	0.0194	0.0888	0.222	0.104
RNA Spliceosome					
Structural Stabilization	0.113	-0.00722	0.127	0.241	0.152
Synapse	0.0498	-0.00545	0.0482	0.262	0.091
Tau Homeostasis					
Vasculature	0.0393	0.11	0.161	0.244	0.0927
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Apoptosis – multiple species					
Apoptosis	0.0167	0.0372	0.0516	0.12	0.0967
APP Metabolism					
Autophagy					
Cell Cycle	−0.0354	−0.115	−0.0763	0.153	0.124
DNA Repair	0.0851	0.0494	0.0777	0.263	0.281
Endolysosome					
Epigenetic					
Immune Response	−0.0389	−0.0453	0.0148	0.0771	0.0745
Lipid Metabolism	−0.111	−0.186	−0.0868	0.0125	0.201
Metal Binding and Homeostasis					
Mitochondrial Metabolism	0.042	0.0559	0.0968	0.223	0.215
Myelination					
Oxidative Stress	−0.0961	−0.0635	−0.0396	0.0563	0.141
Proteostasis	0.0306	0.0242	0.0362	0.148	0.139
RNA Spliceosome					
Structural Stabilization					
Synapse	0.0703	0.0796	0.076	0.366	0.314
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Ferroptosis					
Apoptosis	−0.236	−0.0559	−0.196	0.0535	−0.262
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.129	0.135	0.0589	0.119	−0.00405
Epigenetic					
Immune Response	−0.19	−0.0801	−0.129	0.0675	−0.255
Lipid Metabolism	−0.163	−0.0902	−0.139	0.0116	−0.264
Metal Binding and Homeostasis	−0.0542	0.0313	−0.0421	0.125	−0.135
Mitochondrial Metabolism	−0.189	−0.118	−0.146	0.0861	−0.216
Myelination					
Oxidative Stress	−0.0812	0.0521	−0.0467	0.275	−0.0637
Proteostasis	−0.177	−0.0928	−0.0809	0.00877	−0.216
RNA Spliceosome					
Structural Stabilization					
Synapse	−0.122	−0.227	−0.297	0.213	0.0452
Tau Homeostasis					
Vasculature	−0.04	−0.0579	0.0719	0.0911	−0.185
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Necroptosis					
Apoptosis	0.0497	0.00178	0.0102	0.162	0.0219
APP Metabolism					
Autophagy	−0.0939	−0.141	−0.102	0.298	0.0501
Cell Cycle	−0.0998	−0.0796	−0.118	0.261	0.0696
DNA Repair	0.193	0.192	0.164	0.472	0.471
Endolysosome	−0.0489	−0.0555	0.0302	0.202	−0.0165
Epigenetic	0.0181	0.0351	0.028	0.219	0.103
Immune Response	0.0702	0.0334	0.0751	0.124	0.0524
Lipid Metabolism	−0.0307	−0.156	−0.0159	0.136	−0.0102
Metal Binding and Homeostasis	0.0171	0.0275	0.0462	0.0653	−0.0252
Mitochondrial Metabolism	−0.0116	−0.106	−0.0581	0.215	0.0466
Myelination					
Oxidative Stress	0.118	0.0706	0.215	0.231	0.0131
Proteostasis	−0.0267	−0.0686	−0.00822	0.231	−0.00747
RNA Spliceosome					
Structural Stabilization	0.0483	0.0217	0.0767	0.218	0.0586
Synapse	0.0705	0.0339	0.085	0.22	−0.00873
Tau Homeostasis					
Vasculature	0.0431	0.0616	0.0681	0.0329	−0.0824
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

p53 signaling pathway					
Apoptosis	0.104	0.0753	0.0152	0.218	0.211
APP Metabolism					
Autophagy	0.171	0.214	0.173	0.302	0.246
Cell Cycle	0.0336	0.00481	-0.00165	0.153	0.181
DNA Repair	0.107	0.0267	0.0777	0.16	0.119
Endolysosome	0.37	0.44	0.145	0.43	0.345
Epigenetic	0.123	0.138	0.0921	0.162	0.156
Immune Response	0.222	0.0972	-0.0132	0.349	0.304
Lipid Metabolism	0.251	0.121	0.0119	0.324	0.41
Metal Binding and Homeostasis	0.139	-0.146	-0.0328	0.127	0.15
Mitochondrial Metabolism	0.205	0.121	0.177	0.384	0.282
Myelination					
Oxidative Stress	0.178	0.14	0.0956	0.178	0.176
Proteostasis	0.0525	-0.0831	-0.0418	0.173	0.146
RNA Spliceosome					
Structural Stabilization	0.134	0.162	0.0594	0.277	0.219
Synapse	0.293	0.118	0.135	0.446	0.423
Tau Homeostasis					
Vasculature	0.321	0.245	0.0315	0.557	0.528
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cellular senescence					
Apoptosis	0.068	0.111	0.0877	0.0297	−0.0489
APP Metabolism					
Autophagy	0.0361	0.0935	0.157	0.13	−0.0467
Cell Cycle	−0.0205	0.0376	0.00831	0.054	0.00363
DNA Repair	0.0787	0.0813	0.0376	−0.02	−0.0489
Endolysosome	0.061	0.0436	0.0468	0.322	0.0968
Epigenetic	0.0474	0.0876	0.0642	0.0477	0.019
Immune Response	0.136	0.142	0.134	0.13	0.0694
Lipid Metabolism	0.17	0.236	0.26	0.0918	0.0134
Metal Binding and Homeostasis	0.0268	−0.0816	−0.00566	0.0973	0.0053
Mitochondrial Metabolism	0.0488	−0.0583	0.0659	0.137	−0.00615
Myelination	−0.000735	0.0167	0.0214	0.302	0.0669
Oxidative Stress	0.0747	0.00211	0.00148	0.248	0.0738
Proteostasis	0.0683	0.0836	0.119	0.124	0.0167
RNA Spliceosome					
Structural Stabilization	0.0459	0.155	0.114	0.0607	−0.028
Synapse	0.0552	−0.0151	0.0569	0.133	0.00372
Tau Homeostasis					
Vasculature	0.145	0.257	0.219	0.08	0.0476
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Focal adhesion					
Apoptosis	0.0971	0.273	0.178	−0.00681	−0.0553
APP Metabolism					
Autophagy	0.126	0.294	0.22	0.145	−0.0054
Cell Cycle	0.0609	0.237	0.0925	0.0735	0.0417
DNA Repair	0.0133	0.244	0.122	0.0588	−0.0413
Endolysosome	0.0671	0.106	0.0218	0.157	0.0198
Epigenetic	0.0447	0.252	0.0997	7.59e−05	−0.00277
Immune Response	0.146	0.222	0.168	0.041	0.00984
Lipid Metabolism	0.161	0.309	0.267	−0.00875	−0.0255
Metal Binding and Homeostasis	0.112	0.133	0.207	−0.012	0.045
Mitochondrial Metabolism	0.0736	0.259	0.169	0.0369	−0.0405
Myelination	0.321	0.29	0.331	0.0735	0.0257
Oxidative Stress	0.0777	0.183	0.0954	0.176	0.0352
Proteostasis	0.143	0.179	0.15	0.135	0.0809
RNA Spliceosome					
Structural Stabilization	0.14	0.214	0.18	0.0271	0.0376
Synapse	0.136	0.272	0.205	−0.0244	−0.0492
Tau Homeostasis					
Vasculature	0.138	0.272	0.182	0.00402	−0.0117
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Adherens junction					
Apoptosis	0.112	0.291	0.163	−0.00489	−0.0758
APP Metabolism					
Autophagy	−0.0831	0.0532	−0.0232	0.236	0.00527
Cell Cycle	0.0124	0.278	0.129	−0.0994	−0.177
DNA Repair	0.134	0.284	0.167	0.0105	−0.0207
Endolysosome	−0.0728	0.0802	−0.114	0.0408	−0.134
Epigenetic	0.0468	0.364	0.136	−0.0936	−0.121
Immune Response	0.0604	0.213	0.0865	−0.0116	−0.0753
Lipid Metabolism	0.216	0.448	0.318	−0.067	−0.144
Metal Binding and Homeostasis	0.0938	0.239	0.186	−0.117	−0.059
Mitochondrial Metabolism	−0.0449	−0.0948	−0.0764	0.363	0.147
Myelination					
Oxidative Stress	−0.104	0.132	0.00559	0.0974	−0.128
Proteostasis	−0.0053	0.179	0.0928	0.0772	−0.0288
RNA Spliceosome					
Structural Stabilization	0.089	0.243	0.136	0.00404	−0.104
Synapse	0.0869	0.318	0.149	−0.0257	−0.111
Tau Homeostasis					
Vasculature	0.0828	0.257	0.107	0.0673	−0.104
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Tight junction					
Apoptosis	−0.073	0.0748	0.0179	0.0919	−0.042
APP Metabolism					
Autophagy	−0.0535	0.158	−0.0177	0.0112	−0.157
Cell Cycle	−0.14	−0.157	−0.193	0.145	−0.0305
DNA Repair					
Endolysosome	0.0266	0.0697	0.00929	0.0655	−0.0261
Epigenetic	−0.117	0.0651	−0.0176	−0.0769	−0.133
Immune Response	−0.0453	−0.0369	−0.0689	0.103	0.000475
Lipid Metabolism	0.0441	0.0901	0.0586	0.0298	−0.012
Metal Binding and Homeostasis	−0.0203	−0.0202	0.0114	0.0632	−0.00125
Mitochondrial Metabolism	−0.186	−0.066	−0.122	0.0148	−0.214
Myelination	0.218	0.237	0.206	0.0325	−0.0169
Oxidative Stress	−0.262	0.119	−0.0388	−0.0724	−0.299
Proteostasis	−0.141	0.0407	−0.0912	−0.0163	−0.137
RNA Spliceosome					
Structural Stabilization	0.0322	0.0176	−0.0123	0.0869	0.0237
Synapse	−0.0129	0.0207	−0.0068	0.0894	−0.0272
Tau Homeostasis					
Vasculature	0.0922	0.17	0.0325	0.0535	−0.00753
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Gap junction					
Apoptosis	0.0163	0.0608	0.0589	0.104	−0.0389
APP Metabolism					
Autophagy					
Cell Cycle	−0.0578	−0.11	−0.173	0.259	0.128
DNA Repair					
Endolysosome	0.0804	0.127	−0.0299	0.323	0.141
Epigenetic	−0.0543	−0.0345	−0.0418	0.0431	−0.00446
Immune Response	0.007	0.0766	−0.0153	0.0841	−0.0502
Lipid Metabolism	0.113	0.24	0.155	−0.0925	−0.107
Metal Binding and Homeostasis	0.0319	0.055	−0.0109	0.179	0.0301
Mitochondrial Metabolism	0.11	0.167	0.179	−0.0195	−0.0998
Myelination					
Oxidative Stress	0.139	0.123	0.108	0.218	0.144
Proteostasis	0.0466	0.115	0.0296	0.101	0.0188
RNA Spliceosome					
Structural Stabilization	0.0395	0.0346	−0.0518	0.257	0.101
Synapse	0.0608	0.192	0.0984	0.0129	−0.052
Tau Homeostasis					
Vasculature	0.0205	0.208	0.0684	−0.0545	−0.0389
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Signaling pathways regulating pluripotency of stem cells					
Apoptosis	0.21	0.328	0.188	0.0728	0.067
APP Metabolism					
Autophagy					
Cell Cycle	0.211	0.212	0.206	0.199	0.207
DNA Repair	0.071	0.189	0.201	-0.0577	-0.0934
Endolysosome	0.138	0.21	0.117	0.21	0.0679
Epigenetic	0.186	0.269	0.177	0.0955	0.129
Immune Response	0.149	0.239	0.151	0.0713	0.0558
Lipid Metabolism	0.246	0.364	0.31	0.122	0.061
Metal Binding and Homeostasis	0.233	0.393	0.335	0.0219	0.0604
Mitochondrial Metabolism	0.259	0.269	0.301	0.164	0.117
Myelination	0.276	0.294	0.31	0.466	0.311
Oxidative Stress	0.048	0.0777	0.0439	0.201	-0.00861
Proteostasis	0.192	0.27	0.185	0.143	0.0622
RNA Spliceosome					
Structural Stabilization	0.216	0.317	0.224	0.105	0.0725
Synapse	0.21	0.342	0.216	0.0878	0.0678
Tau Homeostasis					
Vasculature	0.199	0.343	0.251	0.0975	0.0387
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Motor proteins					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	−0.132	−0.0907	−0.113	0.159	−0.0329
DNA Repair					
Endolysosome	0.182	0.334	0.268	0.114	−0.0887
Epigenetic					
Immune Response	0.159	0.0365	−0.00066	0.363	0.149
Lipid Metabolism	0.106	0.0828	0.0336	0.0764	0.0882
Metal Binding and Homeostasis	−0.115	−0.261	−0.295	0.332	0.248
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.139	0.289	0.212	0.133	−0.00429
RNA Spliceosome					
Structural Stabilization	−0.0234	0.0341	−0.00583	0.0205	−0.0312
Synapse	0.0747	0.179	0.117	0.0146	0.0328
Tau Homeostasis					
Vasculature	−0.207	−0.242	−0.263	−0.108	−0.0123
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cytoskeleton in muscle cells					
Apoptosis	−0.00938	0.132	0.05	−0.149	−0.108
APP Metabolism					
Autophagy	0.253	0.204	0.249	0.166	0.0777
Cell Cycle	0.116	0.331	0.173	−0.165	−0.185
DNA Repair					
Endolysosome	0.234	0.331	0.239	−0.0848	0.0564
Epigenetic	0.0338	−0.0814	−0.0413	0.137	0.265
Immune Response	0.198	0.229	0.224	−0.0516	−0.0215
Lipid Metabolism	0.182	0.307	0.305	−0.0982	−0.012
Metal Binding and Homeostasis	0.114	0.135	0.0976	0.0671	0.0703
Mitochondrial Metabolism	0.194	0.242	0.197	0.068	0.09
Myelination					
Oxidative Stress					
Proteostasis	0.265	0.293	0.268	0.056	0.121
RNA Spliceosome					
Structural Stabilization	0.151	0.164	0.161	0.0116	0.0614
Synapse	0.209	0.324	0.28	−0.0692	−0.0024
Tau Homeostasis					
Vasculature	0.124	0.191	0.167	−0.0738	0.0327
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Regulation of actin cytoskeleton					
Apoptosis	0.108	0.235	0.202	0.0683	−0.081
APP Metabolism					
Autophagy	0.12	0.227	0.238	0.179	−0.0091
Cell Cycle	0.0671	0.111	0.107	0.135	0.0208
DNA Repair	0.0427	0.352	0.235	−0.0558	−0.233
Endolysosome	0.0328	0.142	0.0821	0.1	−0.0486
Epigenetic	0.0663	0.109	0.115	0.131	0.00185
Immune Response	0.0832	0.161	0.139	0.0509	−0.0352
Lipid Metabolism	0.138	0.206	0.234	0.0331	−0.0285
Metal Binding and Homeostasis	0.124	0.111	0.155	0.0783	0.0771
Mitochondrial Metabolism	0.101	0.117	0.183	0.21	0.0848
Myelination	0.0572	0.158	0.162	0.15	−0.0713
Oxidative Stress	0.0463	0.0974	0.14	0.102	0.0346
Proteostasis	0.0987	0.183	0.149	0.143	0.0261
RNA Spliceosome					
Structural Stabilization	0.0541	0.134	0.116	0.0536	0.00675
Synapse	0.119	0.243	0.179	0.0642	0.00843
Tau Homeostasis					
Vasculature	0.126	0.214	0.17	0.0739	−0.0313
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hematopoietic cell lineage					
Apoptosis	0.0466	0.158	0.107	−0.162	−0.122
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.104	−0.0077	−0.0281	−0.134	−0.055
Epigenetic					
Immune Response	0.00732	0.0543	0.0382	−0.0733	−0.0168
Lipid Metabolism	0.0176	0.0268	0.0239	−0.12	−0.0569
Metal Binding and Homeostasis	1.52e−05	0.136	0.0723	−0.362	−0.152
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.0164	0.0166	−0.072	−0.162	−0.0919
RNA Spliceosome					
Structural Stabilization	0.00361	0.11	0.0356	−0.128	−0.1
Synapse	0.133	0.166	0.207	−0.057	0.036
Tau Homeostasis					
Vasculature	−0.0868	0.00886	0.0739	−0.207	−0.0128
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Complement and coagulation cascades

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.018	−0.0296	−0.145	0.0328	−0.0529
Lipid Metabolism	0.069	0.0754	−0.052	−0.0443	−0.122
Metal Binding and Homeostasis	0.0294	0.0183	−0.078	−0.113	−0.11
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.112	−0.0213	−0.0582	0.0951	−0.0366
RNA Spliceosome					
Structural Stabilization	0.103	−0.0944	−0.00822	0.122	0.0356
Synapse	0.122	0.0377	−0.00997	0.298	0.116
Tau Homeostasis					
Vasculature	0.0867	−0.0479	−0.0307	0.1	−0.0318
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Platelet activation					
Apoptosis	0.0939	0.112	0.197	0.192	−0.0265
APP Metabolism					
Autophagy	0.0743	0.0875	0.0615	0.18	−0.0193
Cell Cycle	0.0335	0.0998	0.106	0.239	0.0143
DNA Repair					
Endolysosome	−0.021	0.0353	0.0576	0.0892	−0.131
Epigenetic	0.0884	0.21	0.221	0.197	0.0437
Immune Response	0.0219	0.0822	0.0898	0.0415	−0.00269
Lipid Metabolism	0.0689	0.19	0.183	−0.0239	−0.0896
Metal Binding and Homeostasis	0.0378	0.152	0.111	−0.0691	−0.0916
Mitochondrial Metabolism	0.115	0.118	0.228	0.0953	0.0262
Myelination					
Oxidative Stress	0.0881	0.0755	0.0516	0.424	0.178
Proteostasis	0.143	0.254	0.225	0.107	−0.00113
RNA Spliceosome					
Structural Stabilization	0.0727	0.211	0.136	0.0724	−0.00677
Synapse	0.0628	0.165	0.102	0.0626	−0.0684
Tau Homeostasis					
Vasculature	0.0172	0.168	0.13	−0.0408	−0.0881
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Neutrophil extracellular trap formation					
Apoptosis	−0.0498	−0.0239	−0.0804	0.112	−0.0654
APP Metabolism	0.0627	0.234	0.0307	0.146	0.0557
Autophagy	−0.058	0.0277	−0.0218	0.134	−0.0209
Cell Cycle	−0.0709	−0.0575	0.0147	0.247	0.107
DNA Repair	−0.00845	0.145	0.103	0.253	0.142
Endolysosome	−0.0531	0.16	0.0885	0.0896	−0.0638
Epigenetic	0.0116	0.0679	−0.0286	0.221	0.14
Immune Response	0.0144	0.109	0.0456	0.102	0.0457
Lipid Metabolism	0.0505	0.109	0.0754	0.116	0.00364
Metal Binding and Homeostasis	−0.00506	0.0299	0.0618	−0.0307	0.0197
Mitochondrial Metabolism	−0.0187	−0.0699	−0.0469	0.183	0.00405
Myelination	0.13	0.08	0.0265	0.506	0.211
Oxidative Stress	−0.0423	0.0129	−0.035	0.238	0.0601
Proteostasis	0.0429	0.0705	0.042	0.199	0.0499
RNA Spliceosome					
Structural Stabilization	−0.0117	0.0814	0.0481	0.0575	−0.0306
Synapse	−0.0187	0.0272	−0.0266	0.124	−0.0645
Tau Homeostasis					
Vasculature	0.0693	0.221	0.157	0.0704	−0.0173
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Toll-like receptor signaling pathway					
Apoptosis	0.127	0.223	0.191	0.163	0.0157
APP Metabolism					
Autophagy	0.0504	0.224	0.176	0.16	−0.0693
Cell Cycle	−0.0529	0.157	0.277	0.162	−0.0586
DNA Repair	0.108	0.186	0.195	0.0415	−0.0729
Endolysosome	0.0711	0.122	0.135	0.2	0.0101
Epigenetic	0.0863	0.262	0.2	0.131	0.00384
Immune Response	0.101	0.141	0.144	0.144	0.064
Lipid Metabolism	0.166	0.151	0.194	0.167	0.109
Metal Binding and Homeostasis	0.122	0.24	0.216	0.135	0.00776
Mitochondrial Metabolism	0.109	0.1	0.243	0.207	0.146
Myelination					
Oxidative Stress	0.033	0.301	0.222	0.25	−0.0275
Proteostasis	0.0999	0.218	0.159	0.207	0.0194
RNA Spliceosome					
Structural Stabilization	0.105	0.162	0.206	0.105	0.038
Synapse	0.0303	0.107	0.101	0.142	−0.0707
Tau Homeostasis					
Vasculature	0.0436	0.169	0.21	0.105	−0.0403
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

NOD-like receptor signaling pathway					
Apoptosis	0.0916	0.11	0.0617	0.193	0.0266
APP Metabolism					
Autophagy	0.0771	0.0341	0.044	0.252	−0.00183
Cell Cycle	0.0381	0.17	0.113	0.145	−0.0847
DNA Repair	0.125	0.101	0.188	0.154	0.0746
Endolysosome	0.128	0.0697	0.135	0.259	0.0408
Epigenetic	0.0221	0.173	0.0559	0.109	0.0343
Immune Response	0.0768	0.0653	0.0568	0.163	0.067
Lipid Metabolism	0.102	0.0571	0.107	0.138	0.0086
Metal Binding and Homeostasis	0.117	0.178	0.147	0.0065	−0.0211
Mitochondrial Metabolism	0.0718	−0.0295	0.0343	0.183	0.0573
Myelination					
Oxidative Stress	0.0393	0.119	0.0658	0.261	−0.0152
Proteostasis	0.0662	0.0582	0.0651	0.165	0.0103
RNA Spliceosome					
Structural Stabilization	0.0208	0.0435	0.0033	0.134	0.0208
Synapse	0.007	−0.0213	0.0191	0.217	0.00705
Tau Homeostasis					
Vasculature	−0.0523	0.054	0.0398	0.0142	−0.124
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

RIG-I-like receptor signaling pathway					
Apoptosis	0.121	0.258	0.2	0.0953	0.0553
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.112	0.293	0.231	-0.0244	-0.0777
Immune Response	0.0919	0.193	0.184	0.0751	0.0453
Lipid Metabolism	0.142	0.111	0.0988	0.165	0.146
Metal Binding and Homeostasis	0.118	0.321	0.312	0.00455	-0.0323
Mitochondrial Metabolism	0.181	0.168	0.255	0.11	0.153
Myelination					
Oxidative Stress					
Proteostasis	0.046	0.14	0.104	0.0807	-0.0281
RNA Spliceosome					
Structural Stabilization	0.11	0.127	0.122	-0.0938	-0.00288
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cytosolic DNA–sensing pathway					
Apoptosis	0.0665	0.000273	0.0169	0.162	0.159
APP Metabolism					
Autophagy					
Cell Cycle	−0.163	−0.298	−0.143	0.0523	0.0517
DNA Repair	0.0535	−0.222	−0.00998	0.18	0.188
Endolysosome					
Epigenetic	0.108	0.151	0.16	0.19	0.0926
Immune Response	0.0741	−0.0298	0.047	0.132	0.0995
Lipid Metabolism	0.116	−0.0614	−0.00652	0.151	0.268
Metal Binding and Homeostasis	−0.0647	−0.093	0.0422	−0.102	−0.0356
Mitochondrial Metabolism	0.165	−0.0161	0.155	0.219	0.267
Myelination					
Oxidative Stress					
Proteostasis	0.102	0.0248	0.0478	0.192	0.0932
RNA Spliceosome					
Structural Stabilization	0.199	0.0245	0.252	0.203	0.308
Synapse	0.155	0.0315	0.131	0.393	0.408
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

C-type lectin receptor signaling pathway					
Apoptosis	0.106	0.176	0.161	0.134	0.024
APP Metabolism					
Autophagy	0.0274	0.208	0.209	0.0769	−0.0826
Cell Cycle	−0.034	0.0493	0.049	0.16	0.0298
DNA Repair	0.153	0.161	0.179	0.0803	0.0267
Endolysosome	−0.0548	−0.0919	0.00249	0.183	0.0117
Epigenetic	0.111	0.222	0.154	0.115	0.0698
Immune Response	0.0653	0.116	0.0966	0.116	0.0318
Lipid Metabolism	0.152	0.193	0.213	0.152	0.0691
Metal Binding and Homeostasis	−0.0439	0.0305	−0.0242	−0.0221	−0.0648
Mitochondrial Metabolism	0.106	0.116	0.227	−0.0188	−0.0282
Myelination	−0.122	0.00504	0.00168	0.288	0.0591
Oxidative Stress	0.109	0.274	0.142	0.276	0.0353
Proteostasis	0.0802	0.186	0.117	0.151	0.063
RNA Spliceosome					
Structural Stabilization	0.0389	0.106	0.108	0.14	0.0206
Synapse	0.024	0.0933	0.108	0.117	−0.0201
Tau Homeostasis					
Vasculature	0.0787	0.199	0.193	0.173	0.00691
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Natural killer cell mediated cytotoxicity					
Apoptosis	−0.133	−0.0941	−0.0734	−0.0605	−0.128
APP Metabolism					
Autophagy	−0.146	−0.12	−0.00522	0.143	−0.0587
Cell Cycle	−0.271	−0.131	−0.219	−0.134	−0.0854
DNA Repair	−0.0962	−0.0356	−0.0342	0.0168	−0.043
Endolysosome	−0.154	−0.211	−0.163	0.203	0.00563
Epigenetic	−0.00211	0.11	0.092	−0.00144	−0.066
Immune Response	−0.0562	−0.0529	−0.0407	0.047	0.00791
Lipid Metabolism	−0.0498	−0.0416	0.000145	0.0134	−0.0473
Metal Binding and Homeostasis	−0.154	−0.0691	−0.0495	−0.0929	−0.113
Mitochondrial Metabolism	−0.114	−0.099	−0.142	0.0931	−0.0404
Myelination					
Oxidative Stress	−0.256	−0.311	−0.268	0.2	0.00653
Proteostasis	−0.198	−0.245	−0.243	0.163	0.0288
RNA Spliceosome					
Structural Stabilization	−0.0786	−0.0357	−0.0138	0.0718	−0.037
Synapse	−0.144	−0.0871	−0.0704	0.0134	−0.115
Tau Homeostasis					
Vasculature	0.0234	0.227	0.141	0.00868	−0.107
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Antigen processing and presentation					
Apoptosis	0.17	−0.107	−0.0296	0.404	0.145
APP Metabolism					
Autophagy					
Cell Cycle	0.0862	0.0223	−0.145	0.537	0.202
DNA Repair					
Endolysosome	−0.0142	−0.148	−0.128	0.2	0.0531
Epigenetic	0.128	0.00307	0.191	0.439	0.235
Immune Response	0.0524	−0.11	−0.0864	0.246	0.126
Lipid Metabolism	0.046	−0.0956	−0.14	0.22	0.116
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0617	−0.133	−0.108	0.296	0.0905
RNA Spliceosome					
Structural Stabilization	0.0643	−0.16	−0.101	0.378	0.184
Synapse	−0.000445	0.0553	−0.0975	0.283	0.0783
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

T cell receptor signaling pathway					
Apoptosis	−0.0335	0.115	0.06	0.123	−0.0608
APP Metabolism					
Autophagy	−0.0401	0.228	0.138	0.0573	−0.187
Cell Cycle	−0.122	−0.0786	−0.00907	0.279	0.000932
DNA Repair	0.12	0.18	0.24	0.127	−0.0999
Endolysosome	−0.252	−0.229	−0.229	0.19	−0.0708
Epigenetic	0.0367	0.194	0.155	0.103	−0.0164
Immune Response	−0.0298	0.0776	0.0245	0.106	−0.0311
Lipid Metabolism	0.0266	0.0867	0.0608	0.194	0.0483
Metal Binding and Homeostasis	−0.143	0.00851	−0.00952	0.00451	−0.165
Mitochondrial Metabolism	−0.0693	0.0338	0.0657	0.0595	−0.0812
Myelination					
Oxidative Stress	−0.116	0.0715	−0.0248	0.293	−0.0297
Proteostasis	−0.105	0.0192	−0.0275	0.19	−0.0533
RNA Spliceosome					
Structural Stabilization	−0.0809	0.0337	−0.00629	0.101	−0.0428
Synapse	−0.0922	0.0693	−0.0261	0.0885	−0.099
Tau Homeostasis					
Vasculature	0.0632	0.35	0.236	0.0977	−0.0922
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Th1 and Th2 cell differentiation					
Apoptosis	0.178	0.29	0.136	0.104	−0.0163
APP Metabolism					
Autophagy					
Cell Cycle	0.0275	0.201	0.232	0.192	−0.0661
DNA Repair					
Endolysosome	−0.0122	0.0387	−0.0405	0.0156	−0.0639
Epigenetic	0.129	0.373	0.242	0.0163	−0.0238
Immune Response	0.0702	0.17	0.0975	0.0528	0.0303
Lipid Metabolism	0.13	0.153	0.0908	0.0661	0.037
Metal Binding and Homeostasis	−0.0426	0.157	0.0638	−0.0739	−0.228
Mitochondrial Metabolism	−0.014	0.113	0.0932	−0.094	−0.14
Myelination					
Oxidative Stress	0.0835	0.436	0.271	0.244	−0.0387
Proteostasis	0.0249	0.19	0.0238	0.0885	−0.106
RNA Spliceosome					
Structural Stabilization	0.109	0.234	0.132	0.0392	0.0578
Synapse	0.0658	0.222	0.0811	0.0508	−0.127
Tau Homeostasis					
Vasculature	0.177	0.414	0.271	0.0227	−0.117
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Th17 cell differentiation					
Apoptosis	0.199	0.295	0.223	0.0662	0.00148
APP Metabolism					
Autophagy	0.192	0.146	0.134	0.0914	−0.0621
Cell Cycle	0.149	0.181	0.234	0.224	0.0322
DNA Repair					
Endolysosome	0.0224	0.113	−0.00281	0.00186	−0.0591
Epigenetic	0.151	0.282	0.185	0.0917	−0.00757
Immune Response	0.118	0.159	0.143	0.0541	0.018
Lipid Metabolism	0.205	0.205	0.176	0.101	0.0772
Metal Binding and Homeostasis	0.0869	0.24	0.126	−0.065	−0.142
Mitochondrial Metabolism	0.124	0.203	0.168	0.0606	−0.0354
Myelination					
Oxidative Stress	0.109	0.452	0.328	0.159	−0.0643
Proteostasis	0.0212	0.137	0.0108	0.0893	−0.101
RNA Spliceosome					
Structural Stabilization	0.172	0.254	0.172	0.0491	0.0618
Synapse	0.143	0.229	0.163	0.102	−0.0446
Tau Homeostasis					
Vasculature	0.203	0.385	0.295	−0.017	−0.0899
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

IL–17 signaling pathway					
Apoptosis	0.0836	0.176	0.157	0.101	0.0662
APP Metabolism					
Autophagy	–0.0121	0.0753	0.0499	–0.0212	–0.0876
Cell Cycle	–0.026	–0.0206	0.0872	0.238	0.114
DNA Repair	0.0188	–0.0218	0.0294	0.0224	0.000757
Endolysosome	0.00154	0.153	0.0994	0.0622	–0.116
Epigenetic	0.0102	0.182	0.0869	0.0857	0.0301
Immune Response	0.0569	0.137	0.0995	0.114	0.105
Lipid Metabolism	0.0885	0.113	0.0618	0.108	0.121
Metal Binding and Homeostasis	0.114	0.247	0.246	0.0871	0.118
Mitochondrial Metabolism	0.197	0.249	0.293	0.121	0.096
Myelination					
Oxidative Stress	0.0139	0.286	0.216	0.168	0.00498
Proteostasis	0.0402	0.194	0.0896	0.126	0.0278
RNA Spliceosome					
Structural Stabilization	0.131	0.126	0.122	0.212	0.214
Synapse	0.0488	0.155	0.115	0.0921	0.0139
Tau Homeostasis					
Vasculature	0.104	0.206	0.238	0.183	0.112
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

B cell receptor signaling pathway					
Apoptosis	0.0872	0.15	0.139	0.145	0.0238
APP Metabolism					
Autophagy	0.11	0.151	0.147	0.265	0.0434
Cell Cycle	-0.0677	0.0513	0.138	0.162	0.0506
DNA Repair					
Endolysosome	-0.0827	-0.196	-0.0404	0.285	0.0811
Epigenetic	0.104	0.23	0.141	0.185	0.0942
Immune Response	0.0909	0.0701	0.0993	0.178	0.0664
Lipid Metabolism	0.0799	0.092	0.117	0.182	0.0715
Metal Binding and Homeostasis	0.0278	0.102	0.0713	0.017	-0.088
Mitochondrial Metabolism	0.0844	0.0222	0.126	0.231	0.0932
Myelination					
Oxidative Stress	-0.023	0.0481	-0.0688	0.388	0.124
Proteostasis	0.0261	0.0415	0.0481	0.315	0.118
RNA Spliceosome					
Structural Stabilization	0.041	-0.00839	0.0991	0.201	0.111
Synapse	-0.00196	0.0372	0.046	0.168	-0.0117
Tau Homeostasis					
Vasculature	0.11	0.409	0.315	0.104	-0.0716
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Fc epsilon RI signaling pathway					
Apoptosis	0.0574	0.178	0.192	0.0664	-0.0641
APP Metabolism					
Autophagy	0.00121	0.0298	0.0165	0.261	0.0438
Cell Cycle	-0.0295	0.0734	0.149	0.252	0.0282
DNA Repair					
Endolysosome	-0.23	-0.289	-0.219	0.138	-0.0114
Epigenetic	0.0134	0.158	0.158	0.101	-0.023
Immune Response	0.025	0.0761	0.0625	0.123	0.0229
Lipid Metabolism	0.0243	0.0449	0.106	0.0489	-0.0105
Metal Binding and Homeostasis	0.0458	-0.0207	0.0943	0.0289	0.00271
Mitochondrial Metabolism	0.0761	0.118	0.218	0.151	-0.00105
Myelination					
Oxidative Stress	-0.083	-0.0192	-0.00265	0.235	-0.038
Proteostasis	0.0268	-0.0226	0.0586	0.318	0.129
RNA Spliceosome					
Structural Stabilization	0.0371	0.0948	0.114	0.216	0.0607
Synapse	0.0302	0.104	0.102	0.267	0.00859
Tau Homeostasis					
Vasculature	0.0665	0.32	0.265	0.0367	-0.119
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Fc gamma R-mediated phagocytosis					
Apoptosis	0.145	0.154	0.189	0.152	0.0604
APP Metabolism					
Autophagy	0.178	0.121	0.148	0.35	0.137
Cell Cycle	0.0315	0.0766	0.0779	0.217	0.0814
DNA Repair	0.0662	0.173	0.221	0.0245	-0.141
Endolysosome	0.0253	-0.0226	0.0559	0.148	0.0546
Epigenetic	0.03	0.0739	0.0878	0.0991	-0.0532
Immune Response	0.145	0.119	0.144	0.214	0.0762
Lipid Metabolism	0.157	0.148	0.204	0.149	0.0544
Metal Binding and Homeostasis	0.141	0.107	0.2	0.00178	-0.0415
Mitochondrial Metabolism	0.11	0.159	0.149	0.19	0.0542
Myelination					
Oxidative Stress	0.135	0.0461	0.114	0.453	0.204
Proteostasis	0.146	0.0995	0.153	0.304	0.162
RNA Spliceosome					
Structural Stabilization	0.00554	0.0384	0.0165	0.153	0.0206
Synapse	0.0559	0.055	0.0304	0.217	0.0658
Tau Homeostasis					
Vasculature	0.136	0.241	0.191	0.11	-0.0397
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Leukocyte transendothelial migration					
Apoptosis	0.0607	0.159	0.144	−0.0153	−0.107
APP Metabolism					
Autophagy	−0.0162	0.066	0.0866	0.1	−0.0882
Cell Cycle	−0.00205	0.145	0.0567	0.129	−0.0553
DNA Repair					
Endolysosome	−0.16	0.00707	−0.0493	0.0153	−0.2
Epigenetic	0.0475	0.253	0.157	0.0289	0.109
Immune Response	0.0358	0.0767	0.0581	0.0702	0.0156
Lipid Metabolism	0.142	0.227	0.19	0.0253	−0.0149
Metal Binding and Homeostasis	0.0433	0.0766	0.0837	−4.27e−06	−0.0435
Mitochondrial Metabolism	−0.0657	−0.106	−0.0748	0.126	−0.0134
Myelination					
Oxidative Stress	−0.0547	−0.0853	−0.07	0.226	0.0653
Proteostasis	−0.0892	0.0293	−0.0373	0.102	−0.0869
RNA Spliceosome					
Structural Stabilization	0.069	0.124	0.0665	0.0839	−0.0226
Synapse	0.0504	0.127	0.0528	0.116	−0.021
Tau Homeostasis					
Vasculature	0.0657	0.128	0.14	0.0711	−0.035
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Intestinal immune network for IgA production					
Apoptosis	0.0884	0.0787	0.0976	−0.0548	−0.0371
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0959	0.0773	−0.17	−0.0875	−0.0695
Epigenetic					
Immune Response	0.0784	0.0803	−0.0192	0.0357	−0.0246
Lipid Metabolism	0.147	0.127	0.0962	−0.0117	−0.0382
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.151	0.00443	−0.0739	0.00934	−0.0441
RNA Spliceosome					
Structural Stabilization	0.282	0.242	0.226	−0.108	−0.127
Synapse	0.259	0.293	0.203	0.0326	−0.0216
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Chemokine signaling pathway					
Apoptosis	0.162	0.192	0.227	0.126	0.048
APP Metabolism					
Autophagy	0.109	0.153	0.0918	0.211	0.016
Cell Cycle	0.0546	0.168	0.0846	0.209	-0.0395
DNA Repair	0.182	0.324	0.233	0.123	-0.0613
Endolysosome	0.00293	0.0693	0.0579	0.22	0.0252
Epigenetic	0.165	0.214	0.193	0.174	0.0981
Immune Response	0.0937	0.141	0.0884	0.069	-0.00699
Lipid Metabolism	0.19	0.274	0.225	0.105	0.0451
Metal Binding and Homeostasis	0.179	0.335	0.263	0.00932	-0.0803
Mitochondrial Metabolism	0.0995	0.105	0.139	0.116	0.0209
Myelination	0.293	0.361	0.457	0.405	0.156
Oxidative Stress	0.126	0.146	0.0517	0.374	0.155
Proteostasis	0.0932	0.124	0.0878	0.272	0.103
RNA Spliceosome					
Structural Stabilization	0.105	0.158	0.135	0.103	0.000153
Synapse	0.0783	0.179	0.104	0.123	0.0232
Tau Homeostasis					
Vasculature	0.0816	0.201	0.12	0.11	-0.0294
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Insulin secretion					
Apoptosis	−0.198	−0.0322	0.0558	−0.261	−0.161
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.0485	0.278	0.16	−0.105	0.00179
Epigenetic	0.101	0.0316	0.121	0.0848	0.126
Immune Response	−0.0361	0.178	0.134	−0.23	−0.155
Lipid Metabolism	0.106	0.252	0.289	−0.196	−0.13
Metal Binding and Homeostasis	0.0901	0.365	0.278	−0.248	−0.173
Mitochondrial Metabolism	−0.0118	0.0225	0.0218	−0.229	−0.165
Myelination					
Oxidative Stress					
Proteostasis	0.0557	0.0767	0.119	0.0521	0.0138
RNA Spliceosome					
Structural Stabilization	0.0772	0.191	0.167	−0.113	−0.0908
Synapse	0.0721	0.191	0.166	−0.0715	−0.0222
Tau Homeostasis					
Vasculature	0.0997	0.235	0.217	−0.102	−0.064
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Insulin signaling pathway					
Apoptosis	0.15	0.272	0.26	0.0919	−0.0195
APP Metabolism					
Autophagy	0.156	0.373	0.259	0.0453	−0.00725
Cell Cycle	−0.0249	−0.00718	0.0263	0.217	0.101
DNA Repair					
Endolysosome	0.196	0.287	0.302	0.311	0.116
Epigenetic	0.0565	0.315	0.224	−0.0861	−0.116
Immune Response	0.16	0.283	0.252	0.0954	0.0212
Lipid Metabolism	0.189	0.361	0.353	0.0342	−0.0245
Metal Binding and Homeostasis	0.0734	0.0605	0.141	0.132	0.00517
Mitochondrial Metabolism	0.0618	0.239	0.155	−0.0335	−0.0855
Myelination	0.0386	0.143	0.186	0.188	0.0455
Oxidative Stress	0.071	0.304	0.185	0.0291	−0.13
Proteostasis	0.114	0.179	0.135	0.16	0.0682
RNA Spliceosome					
Structural Stabilization	0.145	0.324	0.28	0.133	0.0338
Synapse	0.105	0.29	0.226	0.102	−0.0436
Tau Homeostasis					
Vasculature	0.129	0.34	0.237	0.00933	−0.0816
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Glucagon signaling pathway					
Apoptosis	0.0768	0.154	0.24	−0.019	0.00898
APP Metabolism					
Autophagy					
Cell Cycle	−0.119	0.115	0.0289	−0.0653	−0.0799
DNA Repair					
Endolysosome					
Epigenetic	0.0771	0.159	0.124	0.0223	0.0326
Immune Response	−0.0498	0.198	0.0676	−0.082	−0.0677
Lipid Metabolism	0.106	0.201	0.232	−0.00886	−0.0479
Metal Binding and Homeostasis	−0.00449	0.195	0.123	−0.0802	−0.137
Mitochondrial Metabolism	−0.0337	0.0203	0.0304	−0.0557	−0.0757
Myelination					
Oxidative Stress	−0.0615	0.189	0.106	0.00838	−0.0393
Proteostasis	0.18	0.164	0.193	0.121	0.12
RNA Spliceosome					
Structural Stabilization	0.0658	0.0997	0.147	0.138	0.075
Synapse	−0.0122	0.0604	0.0755	0.0277	−0.0539
Tau Homeostasis					
Vasculature	−0.0252	0.0335	0.0859	0.0694	0.0207
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Regulation of lipolysis in adipocytes					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.345	0.371	0.347	0.0868	0.113
Lipid Metabolism	0.275	0.348	0.308	0.146	0.0616
Metal Binding and Homeostasis	0.18	0.382	0.231	0.101	-0.00146
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.119	0.132	0.101	0.301	0.147
RNA Spliceosome					
Structural Stabilization	0.211	0.356	0.314	0.234	0.0655
Synapse	0.0945	0.242	0.0895	0.0748	0.0633
Tau Homeostasis					
Vasculature	0.0937	0.248	0.214	0.0435	0.0494
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Adipocytokine signaling pathway				
Apoptosis	0.218	0.34	0.23	0.252	0.0768
APP Metabolism					
Autophagy	0.153	0.398	0.323	-0.135	-0.141
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.182	0.407	0.214	0.166	-3.14e-05
Immune Response	0.237	0.341	0.24	0.245	0.0915
Lipid Metabolism	0.221	0.277	0.272	0.241	0.108
Metal Binding and Homeostasis	0.218	0.33	0.267	0.374	0.13
Mitochondrial Metabolism	0.121	0.267	0.266	-0.0114	-0.0796
Myelination					
Oxidative Stress	0.16	0.533	0.343	0.00199	-0.0945
Proteostasis	0.0676	0.194	0.153	0.22	0.0199
RNA Spliceosome					
Structural Stabilization	0.275	0.38	0.327	0.248	0.122
Synapse	0.207	0.34	0.19	0.219	0.051
Tau Homeostasis					
Vasculature	0.265	0.332	0.25	0.435	0.216
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

PPAR signaling pathway					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	-0.124	-0.175	0.0212	0.0732	0.163
Lipid Metabolism	0.0231	-0.0449	-0.0115	0.165	0.0184
Metal Binding and Homeostasis	0.0867	0.0617	0.0449	0.301	0.144
Mitochondrial Metabolism	0.0699	0.0388	0.0765	0.18	0.0503
Myelination					
Oxidative Stress					
Proteostasis	-0.00298	0.0189	0.0221	0.183	0.0357
RNA Spliceosome					
Structural Stabilization					
Synapse	-0.103	-0.151	-0.0946	0.107	0.0849
Tau Homeostasis					
Vasculature	-0.000354	0.107	0.0428	0.189	0.101
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

GnRH secretion					
Apoptosis	0.0782	0.222	0.312	0.0165	−0.078
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.0604	0.144	0.103	0.349	0.0918
Epigenetic	0.0961	0.223	0.173	0.0963	0.00563
Immune Response	0.114	0.169	0.204	0.131	0.0796
Lipid Metabolism	0.17	0.28	0.36	−0.00742	−0.0341
Metal Binding and Homeostasis	0.0939	0.137	0.162	0.0172	0.0535
Mitochondrial Metabolism	0.151	0.259	0.365	0.00355	−0.0558
Myelination					
Oxidative Stress					
Proteostasis	0.11	0.194	0.212	0.123	0.0276
RNA Spliceosome					
Structural Stabilization	0.161	0.254	0.267	0.146	0.0677
Synapse	0.171	0.316	0.29	0.0529	0.0368
Tau Homeostasis					
Vasculature	0.175	0.426	0.327	0.0216	−0.0176
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

GnRH signaling pathway					
Apoptosis	−0.0307	0.246	0.172	−0.00192	−0.0669
APP Metabolism					
Autophagy					
Cell Cycle	−0.219	0.0494	−0.0441	−0.0641	−0.16
DNA Repair					
Endolysosome	−0.0122	0.0137	−0.1	0.0975	0.022
Epigenetic	−0.00604	0.223	0.204	0.068	−0.048
Immune Response	0.0181	0.184	0.0898	0.0324	−0.0486
Lipid Metabolism	0.109	0.263	0.248	−0.0749	−0.13
Metal Binding and Homeostasis	0.0734	0.188	0.11	−0.0655	−0.0777
Mitochondrial Metabolism	0.031	0.169	0.18	−0.0864	−0.141
Myelination					
Oxidative Stress	−0.0114	0.229	0.127	0.157	−0.033
Proteostasis	0.0726	0.187	0.0454	0.184	−0.0094
RNA Spliceosome					
Structural Stabilization	0.00259	0.0863	−0.00475	0.127	0.0299
Synapse	0.0311	0.183	0.116	0.000117	−0.059
Tau Homeostasis					
Vasculature	−0.0612	0.103	−0.00875	0.0284	−0.00626
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Ovarian steroidogenesis					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.285	0.365	0.262	-0.0322	-0.0295
Lipid Metabolism	0.061	0.265	0.091	-0.0952	-0.163
Metal Binding and Homeostasis	0.121	0.264	0.136	-0.0893	-0.0899
Mitochondrial Metabolism	0.109	0.204	0.0312	0.0571	-0.101
Myelination					
Oxidative Stress					
Proteostasis	0.164	0.308	0.12	0.199	-0.0665
RNA Spliceosome					
Structural Stabilization					
Synapse	0.0942	0.399	0.122	-0.147	-0.157
Tau Homeostasis					
Vasculature	0.186	0.36	0.104	-0.046	0.0146
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Estrogen signaling pathway					
Apoptosis	0.173	0.213	0.194	0.246	0.131
APP Metabolism					
Autophagy	0.192	0.218	0.176	0.342	0.138
Cell Cycle	0.0608	0.168	0.0689	0.319	0.121
DNA Repair					
Endolysosome	0.161	0.221	0.154	0.366	0.107
Epigenetic	0.206	0.328	0.238	0.22	0.139
Immune Response	0.128	0.233	0.105	0.221	0.0811
Lipid Metabolism	0.199	0.365	0.314	0.0557	-0.011
Metal Binding and Homeostasis	0.177	0.316	0.224	0.123	0.0248
Mitochondrial Metabolism	0.227	0.27	0.251	0.203	0.115
Myelination	0.149	-0.0435	0.0653	0.457	0.367
Oxidative Stress	0.247	0.422	0.226	0.467	0.235
Proteostasis	0.184	0.214	0.175	0.311	0.178
RNA Spliceosome					
Structural Stabilization	0.0966	0.0918	0.0734	0.266	0.126
Synapse	0.166	0.287	0.244	0.106	0.0356
Tau Homeostasis					
Vasculature	0.123	0.247	0.158	0.221	0.0366
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Progesterone-mediated oocyte maturation					
Apoptosis	0.197	0.238	0.32	0.165	0.0175
APP Metabolism					
Autophagy					
Cell Cycle	−0.0191	−0.0705	−0.0201	0.196	0.00283
DNA Repair	0.00333	0.0375	0.0687	0.0457	−0.12
Endolysosome	0.171	0.373	0.23	0.322	0.0666
Epigenetic	0.174	0.204	0.216	0.0989	0.0239
Immune Response	0.162	0.223	0.239	0.11	0.0126
Lipid Metabolism	0.221	0.421	0.375	0.0466	−0.0132
Metal Binding and Homeostasis	0.192	0.295	0.229	0.0646	−0.00487
Mitochondrial Metabolism	0.118	0.144	0.175	0.123	−0.0636
Myelination					
Oxidative Stress	0.0965	0.201	0.245	0.291	−0.0575
Proteostasis	0.00573	0.0204	0.034	0.164	−0.0186
RNA Spliceosome					
Structural Stabilization	0.065	0.0801	0.0621	0.177	0.0164
Synapse	0.168	0.338	0.257	0.0652	−0.025
Tau Homeostasis					
Vasculature	0.183	0.339	0.25	0.205	0.0627
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Prolactin signaling pathway					
Apoptosis	0.0972	0.309	0.212	0.0298	-0.0283
APP Metabolism					
Autophagy	0.252	0.466	0.435	0.191	0.0489
Cell Cycle	0.0104	0.105	0.0889	0.227	0.148
DNA Repair					
Endolysosome	-0.00745	0.161	0.0232	0.314	0.0428
Epigenetic	0.0629	0.282	0.157	0.0442	-0.0512
Immune Response	0.108	0.249	0.191	0.13	0.0319
Lipid Metabolism	0.191	0.363	0.266	0.15	0.046
Metal Binding and Homeostasis	0.106	0.0669	0.0631	0.178	0.182
Mitochondrial Metabolism	0.176	0.259	0.231	0.106	0.0413
Myelination					
Oxidative Stress	0.141	0.36	0.237	0.341	0.0293
Proteostasis	0.111	0.212	0.134	0.228	0.103
RNA Spliceosome					
Structural Stabilization	0.141	0.322	0.189	0.225	0.0631
Synapse	0.182	0.334	0.192	0.233	0.0315
Tau Homeostasis					
Vasculature	0.212	0.39	0.303	0.241	-0.00328
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Oxytocin signaling pathway					
Apoptosis	−0.0475	0.0894	0.0716	0.0405	−0.051
APP Metabolism					
Autophagy	−0.106	0.17	0.121	−0.078	−0.23
Cell Cycle	−0.147	0.0805	−0.056	0.0353	−0.0679
DNA Repair	−0.0153	0.0763	−0.0301	0.106	0.0399
Endolysosome	0.0296	0.115	0.0717	0.0917	0.061
Epigenetic	−0.104	0.147	0.0452	−0.061	−0.113
Immune Response	0.0232	0.182	0.107	0.0468	−0.0311
Lipid Metabolism	−0.00145	0.156	0.149	−0.121	−0.182
Metal Binding and Homeostasis	0.00483	0.153	0.113	−0.0851	−0.12
Mitochondrial Metabolism	0.0314	0.0934	0.126	−0.0823	−0.101
Myelination					
Oxidative Stress	0.106	0.331	0.182	0.281	0.0786
Proteostasis	0.0673	0.238	0.115	0.129	−0.00126
RNA Spliceosome					
Structural Stabilization	−0.0135	0.0809	0.0374	0.0998	0.0322
Synapse	0.011	0.108	0.0809	−0.0406	−0.0318
Tau Homeostasis					
Vasculature	−0.0284	0.165	0.0487	−0.0253	−0.0506
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Relaxin signaling pathway					
Apoptosis	0.151	0.21	0.228	0.206	0.125
APP Metabolism					
Autophagy	0.224	0.39	0.281	0.401	0.0786
Cell Cycle	0.0288	0.194	0.137	0.18	-0.00622
DNA Repair					
Endolysosome	0.0785	0.201	0.159	0.255	0.032
Epigenetic	0.155	0.279	0.266	0.157	0.06
Immune Response	0.127	0.239	0.178	0.132	0.0258
Lipid Metabolism	0.2	0.402	0.327	0.071	-0.0448
Metal Binding and Homeostasis	0.198	0.307	0.269	0.0642	-0.00682
Mitochondrial Metabolism	0.158	0.202	0.254	0.0792	-0.0104
Myelination					
Oxidative Stress	0.128	0.329	0.212	0.322	0.0811
Proteostasis	0.214	0.215	0.19	0.326	0.22
RNA Spliceosome					
Structural Stabilization	0.269	0.271	0.271	0.243	0.189
Synapse	0.133	0.196	0.169	0.133	0.0648
Tau Homeostasis					
Vasculature	0.222	0.325	0.248	0.173	0.124
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Growth hormone synthesis, secretion and action					
Apoptosis	0.146	0.301	0.259	0.0296	−0.059
APP Metabolism					
Autophagy	0.149	0.396	0.319	0.0834	−0.0927
Cell Cycle	0.0259	0.278	0.137	0.16	−0.000444
DNA Repair	0.111	0.341	0.323	−0.145	−0.135
Endolysosome	0.137	0.337	0.116	0.374	0.0832
Epigenetic	0.136	0.275	0.211	0.114	0.0361
Immune Response	0.126	0.326	0.194	0.0697	−0.0306
Lipid Metabolism	0.17	0.391	0.298	0.0227	−0.0434
Metal Binding and Homeostasis	0.157	0.31	0.22	0.0122	−0.0527
Mitochondrial Metabolism	0.157	0.264	0.262	−0.0538	−0.0782
Myelination					
Oxidative Stress	0.0734	0.277	0.164	0.368	0.011
Proteostasis	0.106	0.158	0.148	0.149	0.0239
RNA Spliceosome					
Structural Stabilization	0.162	0.309	0.229	0.133	0.00358
Synapse	0.104	0.271	0.176	0.0323	−0.0378
Tau Homeostasis					
Vasculature	0.17	0.329	0.23	0.0845	0.00486
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

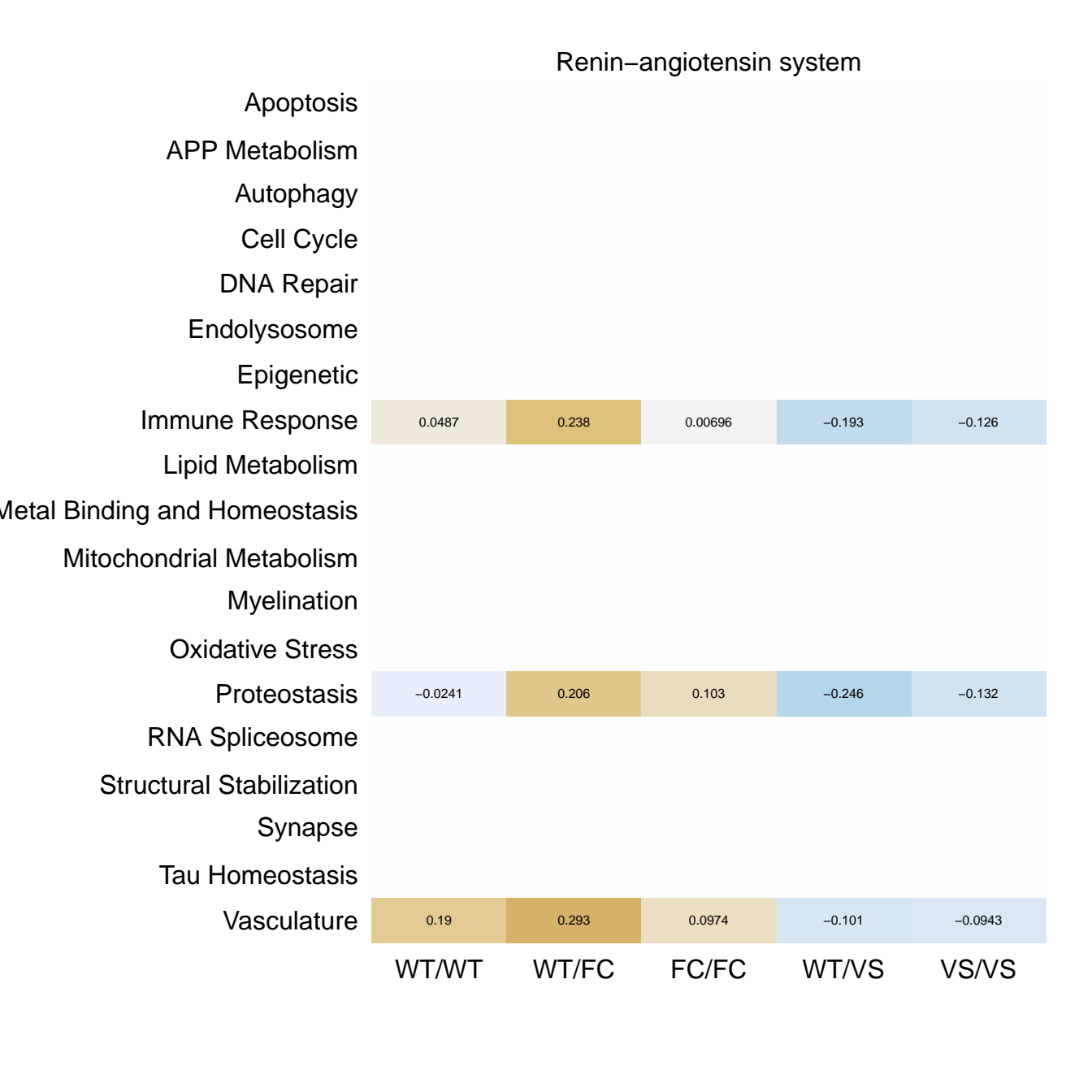
Thyroid hormone synthesis					
Apoptosis	0.0268	−0.027	0.15	0.0533	−0.0243
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.101	0.0959	0.12	0.143	0.0411
Immune Response	0.122	0.169	0.168	−0.064	−0.093
Lipid Metabolism	0.131	0.19	0.22	−0.129	−0.118
Metal Binding and Homeostasis	0.119	0.302	0.251	−0.184	−0.185
Mitochondrial Metabolism	0.182	0.174	0.256	−0.0337	−0.0543
Myelination					
Oxidative Stress	0.0262	−0.0787	−0.0426	0.232	0.256
Proteostasis	0.172	0.105	0.18	0.11	0.0654
RNA Spliceosome					
Structural Stabilization	0.0862	0.0893	0.178	−0.0112	−0.0525
Synapse	0.125	0.232	0.237	−0.166	−0.101
Tau Homeostasis					
Vasculature	0.109	0.165	0.192	−0.0233	0.0318
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Thyroid hormone signaling pathway					
Apoptosis	0.0388	0.266	0.15	−0.0606	−0.0778
APP Metabolism					
Autophagy	0.101	0.329	0.219	0.121	−0.0594
Cell Cycle	−0.0414	0.0726	−0.0435	0.0998	−0.0167
DNA Repair	0.0396	0.218	0.106	−0.0083	−0.0159
Endolysosome	0.0234	0.167	0.0875	0.291	0.158
Epigenetic	0.0643	0.209	0.103	0.0173	−0.0552
Immune Response	0.0455	0.23	0.0974	0.0389	−0.0275
Lipid Metabolism	0.141	0.301	0.24	0.0324	−0.0245
Metal Binding and Homeostasis	0.0863	0.201	0.143	−0.00439	−0.0298
Mitochondrial Metabolism	0.161	0.316	0.267	0.0469	−0.0162
Myelination	−0.00722	0.0353	−0.0195	0.284	0.0522
Oxidative Stress	0.0172	0.146	0.028	0.1	−0.065
Proteostasis	0.115	0.251	0.172	0.0721	−0.00929
RNA Spliceosome					
Structural Stabilization	0.0702	0.226	0.139	0.103	−0.029
Synapse	0.142	0.265	0.204	0.0629	−0.0192
Tau Homeostasis					
Vasculature	0.105	0.307	0.194	−0.0743	−0.0878
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Parathyroid hormone synthesis, secretion and action					
Apoptosis	0.129	0.167	0.148	0.0898	0.0603
APP Metabolism					
Autophagy					
Cell Cycle	0.108	0.254	0.0836	0.148	0.0299
DNA Repair					
Endolysosome	0.176	0.243	0.131	0.161	0.0147
Epigenetic	0.153	0.273	0.159	0.107	0.107
Immune Response	0.0747	0.243	0.0822	0.00662	−0.0527
Lipid Metabolism	0.15	0.312	0.171	−0.00541	−0.0432
Metal Binding and Homeostasis	0.164	0.34	0.2	0.0868	−0.00372
Mitochondrial Metabolism	0.14	0.151	0.132	0.0265	−0.0175
Myelination					
Oxidative Stress	0.124	0.202	0.0335	0.26	0.0781
Proteostasis	0.154	0.159	0.126	0.193	0.113
RNA Spliceosome					
Structural Stabilization	0.172	0.328	0.245	0.046	−0.022
Synapse	0.152	0.249	0.178	0.0644	0.0306
Tau Homeostasis					
Vasculature	0.164	0.225	0.128	0.107	0.00468
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Melanogenesis					
Apoptosis	0.0734	0.232	0.13	−0.0358	−0.0604
APP Metabolism					
Autophagy					
Cell Cycle	−0.142	0.115	−0.0789	0.000809	−0.145
DNA Repair					
Endolysosome	0.0921	0.236	0.0619	0.185	0.0288
Epigenetic	0.094	0.194	0.0662	0.0219	0.0111
Immune Response	0.032	0.173	0.0384	−0.0439	−0.0864
Lipid Metabolism	0.0883	0.29	0.221	−0.0762	−0.118
Metal Binding and Homeostasis	0.0859	0.279	0.179	−0.04	−0.0788
Mitochondrial Metabolism	0.0141	0.118	0.0833	−0.0633	−0.122
Myelination					
Oxidative Stress					
Proteostasis	0.0641	0.167	0.0383	0.0713	−0.0237
RNA Spliceosome					
Structural Stabilization	0.0739	0.148	0.0971	0.075	−0.0114
Synapse	0.0544	0.178	0.0789	0.000279	−0.0281
Tau Homeostasis					
Vasculature	−0.00751	0.168	0.0123	0.0111	−0.0565
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

		Renin secretion				
APP Metabolism	Apoptosis	0.29	0.142	0.312	0.169	0.0545
	Autophagy					
	Cell Cycle	-0.0191	0.0422	-0.0308	0.11	-0.06
	DNA Repair					
	Endolysosome					
Lipid Metabolism	Epigenetic					
	Immune Response	0.0426	0.0945	0.0508	0.00351	-0.00968
	Mitochondrial Metabolism	0.202	0.163	0.316	0.00321	-0.0354
Metal Binding and Homeostasis	Mitochondrial Metabolism	-0.00823	0.13	0.101	-0.0663	-0.109
	Myelination	0.00671	0.0331	0.1	-0.249	-0.265
Oxidative Stress	Oxidative Stress					
	Proteostasis	0.12	0.153	0.192	0.0751	-0.0344
Structural Stabilization	RNA Spliceosome					
	Synapse	0.099	0.13	0.0508	0.179	0.0518
Tau Homeostasis	Synapse	0.0519	0.129	0.0765	-0.0276	-0.0389
	Vasculature					
		0.0549	0.137	0.102	0.0124	0.0157
		WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Aldosterone synthesis and secretion					
Apoptosis	−0.116	0.125	0.0577	−0.155	−0.116
APP Metabolism					
Autophagy					
Cell Cycle	−0.219	0.0987	−0.115	−0.246	−0.191
DNA Repair					
Endolysosome	0.146	0.273	0.181	0.033	0.0388
Epigenetic	0.0409	0.163	0.072	0.0409	0.042
Immune Response	−0.014	0.212	0.112	−0.153	−0.146
Lipid Metabolism	0.131	0.317	0.274	−0.15	−0.113
Metal Binding and Homeostasis	0.0478	0.315	0.207	−0.158	−0.119
Mitochondrial Metabolism	−0.0341	0.118	0.127	−0.279	−0.213
Myelination					
Oxidative Stress					
Proteostasis	0.131	0.189	0.171	0.0741	0.0443
RNA Spliceosome					
Structural Stabilization	0.0253	0.135	0.0757	0.00159	−0.00747
Synapse	0.12	0.29	0.218	−0.0796	−0.0233
Tau Homeostasis					
Vasculature	0.101	0.272	0.158	−0.0382	−0.0181
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cortisol synthesis and secretion					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.0914	0.165	0.0965	0.159	0.109
Immune Response	0.0727	0.212	0.0017	-0.0258	-0.0453
Lipid Metabolism	0.133	0.314	0.229	-0.139	-0.125
Metal Binding and Homeostasis	0.128	0.35	0.183	-0.0378	-0.0691
Mitochondrial Metabolism	0.0882	0.109	0.203	-0.223	-0.152
Myelination					
Oxidative Stress					
Proteostasis	0.124	0.0846	0.109	0.0823	0.045
RNA Spliceosome					
Structural Stabilization	0.287	0.239	0.194	0.144	0.156
Synapse	0.16	0.305	0.189	-0.02	0.0483
Tau Homeostasis					
Vasculature	0.228	0.301	0.173	0.137	0.158
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cardiac muscle contraction					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.0811	0.163	0.253	-0.0122	-0.0237
Metal Binding and Homeostasis	-0.0967	-0.0994	-0.0615	-0.1	-0.0855
Mitochondrial Metabolism	-0.431	-0.642	-0.632	0.0258	-0.0775
Myelination					
Oxidative Stress					
Proteostasis	0.181	0.29	0.329	-0.13	-0.0724
RNA Spliceosome					
Structural Stabilization	-0.158	-0.0641	-0.174	-0.0789	-0.0914
Synapse	0.143	0.224	0.254	-0.115	0.0134
Tau Homeostasis					
Vasculature	-0.0107	0.136	0.0856	-0.224	-0.084
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Adrenergic signaling in cardiomyocytes					
Apoptosis	0.0449	0.0686	0.0751	0.299	0.0762
APP Metabolism					
Autophagy					
Cell Cycle	-0.0707	0.0142	0.0138	0.202	0.02
DNA Repair					
Endolysosome	0.0763	0.217	0.165	0.0915	0.0498
Epigenetic	0.178	0.169	0.233	0.28	0.175
Immune Response	-0.0115	0.15	0.0497	0.0418	-0.0754
Lipid Metabolism	0.0518	0.215	0.171	0.0199	-0.0938
Metal Binding and Homeostasis	0.0326	0.216	0.186	-0.105	-0.13
Mitochondrial Metabolism	-0.01	0.0725	0.102	-0.0102	-0.0666
Myelination					
Oxidative Stress	0.00102	0.0993	0.102	0.266	0.0643
Proteostasis	0.115	0.151	0.156	0.148	0.0427
RNA Spliceosome					
Structural Stabilization	-0.0694	0.00528	-0.0547	0.141	-0.00243
Synapse	0.0547	0.174	0.152	-0.00578	-0.00379
Tau Homeostasis					
Vasculature	0.0296	0.205	0.109	-0.072	-0.0524
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Vascular smooth muscle contraction					
Apoptosis	−0.0246	0.0604	0.0238	−0.0515	−0.103
APP Metabolism					
Autophagy	0.0308	0.143	0.087	0.000483	0.0113
Cell Cycle	−0.127	0.0151	−0.0284	−0.106	−0.176
DNA Repair					
Endolysosome	0.0281	0.0171	−0.107	0.126	0.137
Epigenetic					
Immune Response	0.0803	0.118	0.103	0.0325	−0.0319
Lipid Metabolism	0.0774	0.095	0.152	−0.0397	−0.0791
Metal Binding and Homeostasis	0.00974	0.1	0.0753	−0.0682	−0.0851
Mitochondrial Metabolism	0.0557	0.0703	0.0815	0.0261	−0.0658
Myelination					
Oxidative Stress					
Proteostasis	0.0597	0.1	0.0925	0.169	−0.013
RNA Spliceosome					
Structural Stabilization	0.0828	0.162	0.116	0.0232	0.0164
Synapse	0.0418	0.102	0.0574	0.00592	−0.0446
Tau Homeostasis					
Vasculature	0.061	0.138	0.041	0.0023	−0.00557
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Salivary secretion

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.0413	0.206	0.0954	-0.116	-0.161
Lipid Metabolism	0.161	0.338	0.329	-0.152	-0.144
Metal Binding and Homeostasis	0.0301	0.317	0.21	-0.239	-0.19
Mitochondrial Metabolism	0.115	0.276	0.302	-0.2	-0.134
Myelination					
Oxidative Stress					
Proteostasis	0.115	0.275	0.26	-0.0944	0.00935
RNA Spliceosome					
Structural Stabilization	0.0254	0.147	0.104	-0.104	-0.0765
Synapse	0.0404	0.274	0.253	-0.239	-0.119
Tau Homeostasis					
Vasculature	0.0555	0.363	0.273	-0.2	-0.126
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Gastric acid secretion					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	−0.244	−0.0651	−0.195	−0.0606	−0.154
DNA Repair					
Endolysosome	0.0685	0.246	0.16	−0.0215	0.00954
Epigenetic					
Immune Response	−0.0669	0.0864	0.0198	−0.156	−0.153
Lipid Metabolism	0.0969	0.244	0.238	−0.127	−0.143
Metal Binding and Homeostasis	0.0286	0.226	0.142	−0.0423	−0.105
Mitochondrial Metabolism	0.0647	0.206	0.29	−0.252	−0.22
Myelination					
Oxidative Stress					
Proteostasis	0.0485	0.204	0.214	−0.0697	−0.105
RNA Spliceosome					
Structural Stabilization	−0.0281	0.064	0.0505	0.0384	−0.035
Synapse	0.0171	0.121	0.131	−0.0554	−0.0691
Tau Homeostasis					
Vasculature	−0.0657	0.0736	0.0749	−0.0865	−0.0603
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Pancreatic secretion					
Apoptosis	0.061	0.227	0.292	−0.155	−0.14
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.14	−0.0205	−0.13	0.0434	−0.101
Epigenetic					
Immune Response	0.0654	0.18	0.143	0.0108	−0.0666
Lipid Metabolism	0.0732	0.184	0.234	−0.115	−0.125
Metal Binding and Homeostasis	0.0894	0.287	0.241	−0.177	−0.146
Mitochondrial Metabolism	0.13	0.245	0.397	−0.143	−0.177
Myelination					
Oxidative Stress					
Proteostasis	0.0449	0.294	0.252	−0.076	−0.106
RNA Spliceosome					
Structural Stabilization	0.0243	0.163	0.111	−0.00318	−0.104
Synapse	0.0396	0.227	0.214	−0.151	−0.141
Tau Homeostasis					
Vasculature	0.0765	0.354	0.326	−0.219	−0.222
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Bile secretion					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.24	0.249	0.193	0.0643	-0.0498
Lipid Metabolism	0.109	0.205	0.169	0.0185	-0.0267
Metal Binding and Homeostasis	0.273	0.403	0.258	0.0742	0.0169
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0508	0.22	0.184	0.00586	-0.0675
RNA Spliceosome					
Structural Stabilization	0.277	0.192	0.196	0.329	0.162
Synapse	0.151	0.251	0.158	0.108	0.0631
Tau Homeostasis					
Vasculature	0.142	0.245	0.213	-0.0125	0.0514
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Carbohydrate digestion and absorption

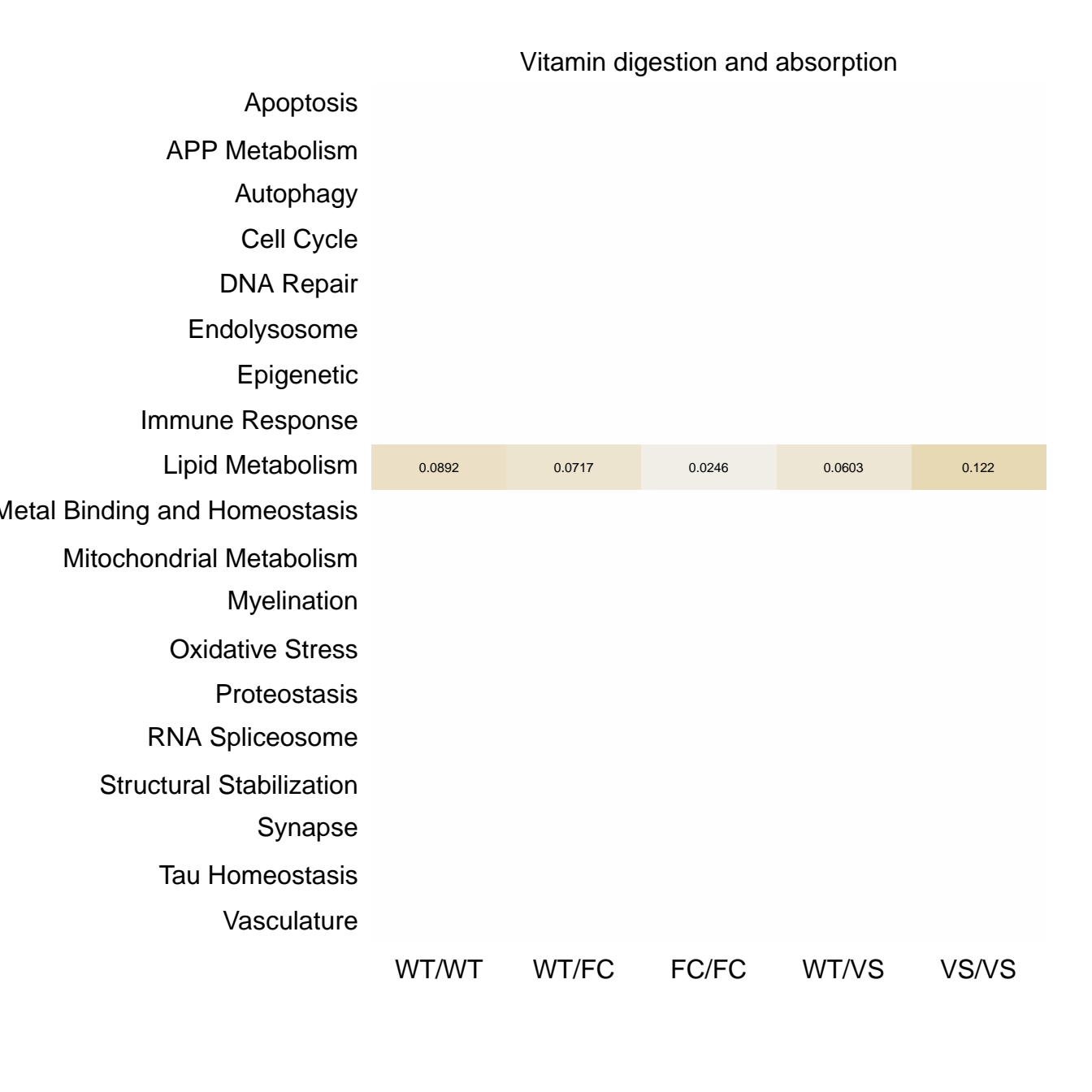
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.0618	0.235	0.263	-0.0621	-0.069
Lipid Metabolism	0.116	0.214	0.342	-0.0339	-0.0784
Metal Binding and Homeostasis	0.0898	0.304	0.447	-0.3	-0.126
Mitochondrial Metabolism	0.00272	0.0932	0.208	-0.14	-0.168
Myelination					
Oxidative Stress					
Proteostasis	0.209	0.273	0.363	0.17	0.177
RNA Spliceosome					
Structural Stabilization	0.235	0.311	0.454	0.071	-0.0377
Synapse	0.182	0.195	0.39	-0.129	-0.0762
Tau Homeostasis					
Vasculature	0.169	0.347	0.433	-0.122	-0.0804
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Protein digestion and absorption

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.156	0.157	0.101	−0.0658	−0.0304
Epigenetic					
Immune Response	0.179	0.225	0.0894	−0.061	0.026
Lipid Metabolism	0.0618	0.0946	0.179	−0.0968	0.00281
Metal Binding and Homeostasis	0.294	0.324	0.273	0.0913	0.134
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.34	0.248	0.248	0.153	0.241
RNA Spliceosome					
Structural Stabilization	0.276	0.172	0.22	0.0989	0.23
Synapse	0.264	0.225	0.241	0.0101	0.118
Tau Homeostasis					
Vasculature	0.229	0.265	0.266	−0.0466	0.155
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Fat digestion and absorption					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.131	0.117	0.141	0.232	0.367
Lipid Metabolism	-0.00682	-0.0901	-0.093	0.159	0.0919
Metal Binding and Homeostasis	-0.114	-0.342	-0.185	0.0634	0.0312
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	-0.0501	-0.0178	-0.0498	0.191	0.169
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cholesterol metabolism					
Apoptosis	−0.0493	−0.127	−0.13	0.0871	0.0186
APP Metabolism	0.0264	0.216	0.0768	−0.089	0.08
Autophagy	0.0128	0.116	0.147	−0.073	−0.0335
Cell Cycle					
DNA Repair					
Endolysosome	−0.0491	−0.0453	−0.0127	−0.0317	−0.0162
Epigenetic					
Immune Response	0.0981	0.111	0.085	0.01	0.0582
Lipid Metabolism	−0.0415	−0.08	−0.0478	−0.0222	−0.0323
Metal Binding and Homeostasis	0.162	0.214	0.19	0.0509	0.113
Mitochondrial Metabolism	−0.173	−0.438	−0.329	0.151	−0.0606
Myelination					
Oxidative Stress					
Proteostasis	0.0103	0.0896	0.0809	−0.0497	0.00261
RNA Spliceosome					
Structural Stabilization	0.00351	0.0404	0.0637	−0.0219	0.101
Synapse	−0.176	−0.144	−0.135	−0.105	−0.068
Tau Homeostasis					
Vasculature	0.0666	0.00846	0.0678	−0.00323	0.128
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Mineral absorption					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.103	0.0575	0.156	0.149	0.101
Epigenetic					
Immune Response	0.0114	0.185	0.044	-0.019	-0.223
Lipid Metabolism	-0.00461	0.157	0.172	-0.108	-0.166
Metal Binding and Homeostasis	0.0331	0.166	0.113	-0.0902	-0.117
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.13	0.293	0.258	-0.0088	-0.145
RNA Spliceosome					
Structural Stabilization	0.0509	0.263	0.243	-0.0957	-0.156
Synapse	0.119	0.334	0.268	-0.286	-0.217
Tau Homeostasis					
Vasculature	0.103	0.353	0.352	-0.208	-0.205
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Vasopressin-regulated water reabsorption

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	-0.159	0.156	-0.149	0.0483	-0.265
DNA Repair					
Endolysosome	0.0333	0.285	0.0715	0.151	-0.102
Epigenetic					
Immune Response	-0.0811	0.029	-0.177	0.305	-0.0124
Lipid Metabolism					
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	-0.0509	0.0254	-0.121	0.0868	-0.0609
RNA Spliceosome					
Structural Stabilization	-0.162	-0.108	-0.234	0.129	-0.127
Synapse	-0.0154	0.196	-0.0234	0.0827	-0.0584
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Aldosterone–regulated sodium reabsorption					
Apoptosis	0.101	0.467	0.35	−0.0451	−0.144
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.19	0.418	0.296	0.115	0.0442
Immune Response	0.116	0.318	0.321	−0.00376	−0.0327
Lipid Metabolism	0.168	0.371	0.312	−0.0269	−0.0486
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.122	0.393	0.283	−0.0749	−0.0691
RNA Spliceosome					
Structural Stabilization	0.145	0.371	0.366	0.0763	−0.0326
Synapse	0.113	0.248	0.284	−0.0678	0.00952
Tau Homeostasis					
Vasculature	0.141	0.441	0.374	−0.132	−0.0922
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Endocrine and other factor-regulated calcium reabsorption					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.0999	0.253	0.174	0.271	0.0416
Epigenetic					
Immune Response	−0.0138	0.223	0.01	−0.165	−0.179
Lipid Metabolism	0.0199	0.18	0.217	−0.157	−0.199
Metal Binding and Homeostasis	0.0208	0.331	0.262	−0.315	−0.243
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0954	0.263	0.132	0.0608	−0.0791
RNA Spliceosome					
Structural Stabilization	0.0696	0.28	0.191	−0.0413	−0.103
Synapse	0.108	0.227	0.256	−0.0269	−0.0426
Tau Homeostasis					
Vasculature	0.0917	0.341	0.28	−0.305	−0.194
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Proximal tubule bicarbonate reclamation					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.198	0.0346	0.206	0.107	0.108
Metal Binding and Homeostasis	0.231	0.136	0.246	0.123	0.0775
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Glutamatergic synapse					
Apoptosis	−0.00958	0.114	0.245	−0.113	−0.118
APP Metabolism					
Autophagy					
Cell Cycle	−0.0883	0.187	0.0126	0.011	−0.153
DNA Repair					
Endolysosome	−0.0221	0.208	0.165	−0.108	−0.0888
Epigenetic					
Immune Response	0.0489	0.308	0.197	−0.139	−0.137
Lipid Metabolism	0.0783	0.25	0.205	−0.189	−0.155
Metal Binding and Homeostasis	0.016	0.215	0.167	−0.217	−0.193
Mitochondrial Metabolism	0.0292	0.112	0.148	−0.142	−0.198
Myelination					
Oxidative Stress					
Proteostasis	0.0862	0.282	0.19	−0.0191	−0.0829
RNA Spliceosome					
Structural Stabilization	0.164	0.369	0.297	0.0566	0.0668
Synapse	0.106	0.325	0.269	−0.134	−0.0568
Tau Homeostasis					
Vasculature	0.0867	0.377	0.168	−0.161	−0.0399
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

GABAergic synapse

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.014	0.297	0.0931	0.143	-0.124
Epigenetic					
Immune Response					
Lipid Metabolism	0.106	0.388	0.162	-0.192	-0.19
Metal Binding and Homeostasis	0.122	0.432	0.238	-0.0965	-0.167
Mitochondrial Metabolism	-0.0391	0.115	-0.157	0.0408	-0.0752
Myelination					
Oxidative Stress					
Proteostasis	-0.0537	0.183	-0.0758	0.0719	-0.134
RNA Spliceosome					
Structural Stabilization	-0.0493	0.141	-0.0939	0.0927	-0.0602
Synapse	0.0698	0.337	0.171	-0.121	-0.0981
Tau Homeostasis					
Vasculature	0.25	0.496	0.201	-0.00301	0.0785
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cholinergic synapse					
Apoptosis	0.0174	0.144	0.204	0.116	0.0102
APP Metabolism					
Autophagy	0.127	0.202	0.216	0.345	0.0908
Cell Cycle	-0.026	0.157	0.0361	0.159	0.0285
DNA Repair					
Endolysosome	0.0171	0.26	0.113	0.172	-0.123
Epigenetic	0.0753	0.171	0.141	0.16	0.0821
Immune Response	0.0578	0.316	0.163	0.0395	-0.0815
Lipid Metabolism	0.0827	0.383	0.266	-0.0552	-0.145
Metal Binding and Homeostasis	0.144	0.383	0.28	-0.013	-0.0616
Mitochondrial Metabolism	0.123	0.196	0.281	-0.0145	-0.0259
Myelination					
Oxidative Stress	0.176	0.269	0.0976	0.663	0.246
Proteostasis	0.107	0.183	0.159	0.186	0.0508
RNA Spliceosome					
Structural Stabilization	0.101	0.24	0.17	0.182	0.0289
Synapse	0.107	0.334	0.177	0.0166	-0.0219
Tau Homeostasis					
Vasculature	0.05	0.292	0.184	0.00985	-0.0851
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Dopaminergic synapse					
Apoptosis	−0.0188	0.0793	0.165	0.11	−0.0169
APP Metabolism	0.0724	0.454	0.451	−0.428	−0.197
Autophagy	0.0578	0.234	0.182	0.112	−0.0891
Cell Cycle	−0.107	−0.0109	0.0172	0.118	−0.0461
DNA Repair					
Endolysosome	−0.00741	0.169	0.198	−0.0035	−0.0755
Epigenetic	0.102	0.234	0.27	0.044	0.0314
Immune Response	−0.126	0.101	0.0492	−0.0719	−0.144
Lipid Metabolism	0.107	0.207	0.199	0.0692	0.0269
Metal Binding and Homeostasis	−0.0598	0.087	0.0925	−0.0553	−0.103
Mitochondrial Metabolism	−0.0336	0.0406	0.0982	−0.0291	−0.115
Myelination					
Oxidative Stress	−0.0571	0.166	0.0967	0.189	−0.127
Proteostasis	0.0925	0.161	0.189	0.108	0.0384
RNA Spliceosome					
Structural Stabilization	−0.0456	0.0572	0.0818	0.101	−0.00843
Synapse	0.00118	0.118	0.102	−0.00189	−0.0459
Tau Homeostasis					
Vasculature	0.0143	0.16	0.0922	0.0292	−0.0392
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Serotonergic synapse					
Apoptosis	−0.0203	0.054	0.0684	−0.0376	−0.0534
APP Metabolism					
Autophagy					
Cell Cycle	−0.102	0.145	−0.0415	−0.0012	−0.141
DNA Repair					
Endolysosome	−0.102	0.0878	0.0151	−0.0574	−0.17
Epigenetic					
Immune Response	−0.012	0.191	0.0715	−0.0821	−0.121
Lipid Metabolism	0.027	0.199	0.185	−0.157	−0.194
Metal Binding and Homeostasis	−0.00123	0.111	0.114	−0.117	−0.172
Mitochondrial Metabolism	0.0871	0.204	0.206	−0.0565	−0.191
Myelination					
Oxidative Stress	−0.0206	0.159	−0.0133	0.074	−0.102
Proteostasis	0.0488	0.21	0.124	0.0705	−0.0513
RNA Spliceosome					
Structural Stabilization	0.049	0.219	0.144	0.137	−0.0433
Synapse	0.0304	0.236	0.154	−0.09	−0.149
Tau Homeostasis					
Vasculature	0.0354	0.358	0.109	−0.0692	−0.154
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

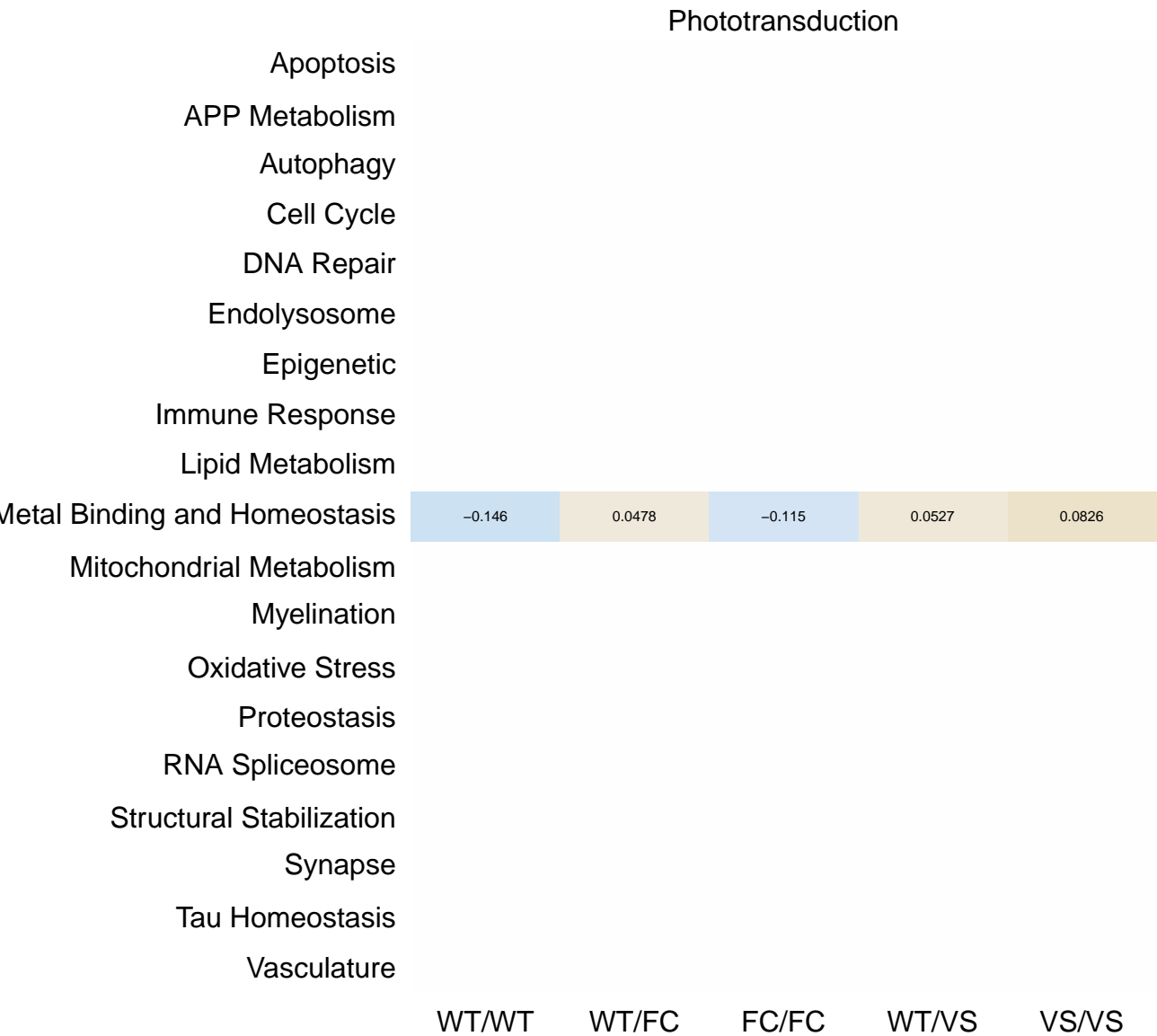
Long-term potentiation					
Apoptosis	0.0055	0.151	0.216	-0.099	-0.0658
APP Metabolism					
Autophagy					
Cell Cycle	-0.157	0.0293	-0.0184	-0.105	-0.119
DNA Repair					
Endolysosome	-0.12	0.13	-0.0608	0.0703	-0.0554
Epigenetic	0.00364	0.163	0.197	-0.124	-0.0469
Immune Response	-0.0382	0.228	0.163	-0.181	-0.12
Lipid Metabolism	0.0992	0.307	0.325	-0.238	-0.217
Metal Binding and Homeostasis	0.00191	0.159	0.155	-0.155	-0.158
Mitochondrial Metabolism	0.0347	0.0752	0.115	-0.0633	-0.119
Myelination					
Oxidative Stress					
Proteostasis	0.077	0.214	0.188	-0.0295	-0.0302
RNA Spliceosome					
Structural Stabilization	-0.0696	0.0325	-0.00735	0.0867	0.0017
Synapse	0.0286	0.162	0.172	-0.0605	-0.0693
Tau Homeostasis					
Vasculature	-0.178	0.0709	-0.0332	-0.0213	-0.156
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Long-term depression					
Apoptosis	−0.0267	0.0378	0.0857	0.0971	−0.0159
APP Metabolism					
Autophagy					
Cell Cycle	−0.0911	0.17	−0.00647	0.145	−0.0685
DNA Repair					
Endolysosome	−0.0346	0.0742	0.00316	0.0823	0.0455
Epigenetic					
Immune Response	−0.06	0.0319	0.0182	0.102	−0.0269
Lipid Metabolism	0.11	0.182	0.27	0.00101	−0.0774
Metal Binding and Homeostasis	−0.000299	0.0685	0.137	−0.0465	−0.104
Mitochondrial Metabolism	0.103	0.117	0.203	0.0608	−0.0169
Myelination					
Oxidative Stress					
Proteostasis	0.0498	0.132	0.145	0.117	0.0119
RNA Spliceosome					
Structural Stabilization	0.105	0.203	0.211	0.151	0.0263
Synapse	0.031	0.122	0.222	−0.0229	−0.0349
Tau Homeostasis					
Vasculature	0.131	0.369	0.213	0.00513	−0.0448
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Retrograde endocannabinoid signaling					
Apoptosis	−0.149	−0.0785	0.0752	−0.0964	−0.237
APP Metabolism					
Autophagy					
Cell Cycle	−0.0194	0.164	0.103	0.0764	−0.0954
DNA Repair					
Endolysosome	−0.0454	0.191	0.161	−0.0467	−0.179
Epigenetic					
Immune Response	0.0191	0.264	0.222	−0.162	−0.141
Lipid Metabolism	0.00107	0.195	0.193	−0.181	−0.164
Metal Binding and Homeostasis	0.0555	0.169	0.126	−0.0366	−0.0972
Mitochondrial Metabolism	−0.418	−0.613	−0.561	0.015	−0.107
Myelination					
Oxidative Stress	−0.331	−0.418	−0.368	0.144	−0.116
Proteostasis	−0.0485	0.051	−0.00658	−0.00251	−0.0914
RNA Spliceosome					
Structural Stabilization	−0.000893	0.134	0.0666	0.0191	−0.0623
Synapse	0.0263	0.272	0.212	−0.19	−0.14
Tau Homeostasis					
Vasculature	0.0599	0.289	0.116	−0.198	−0.0944
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Synaptic vesicle cycle					
Apoptosis					
APP Metabolism					
Autophagy	−0.125	−0.202	−0.212	0.275	−0.00533
Cell Cycle					
DNA Repair					
Endolysosome	−0.0753	−0.0561	−0.0793	0.182	−0.0349
Epigenetic					
Immune Response	0.122	0.0888	0.0336	0.283	0.235
Lipid Metabolism	0.00795	0.101	0.0286	−0.204	−0.123
Metal Binding and Homeostasis	0.0949	0.315	0.262	−0.213	−0.153
Mitochondrial Metabolism	−0.203	−0.324	−0.32	0.28	−0.0264
Myelination					
Oxidative Stress					
Proteostasis	0.05	0.191	0.162	0.229	0.041
RNA Spliceosome					
Structural Stabilization	0.0585	0.00761	0.0955	0.126	0.157
Synapse	−0.00403	0.0919	0.024	0.0535	−0.0575
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Neurotrophin signaling pathway					
Apoptosis	0.12	0.184	0.164	0.166	0.0432
APP Metabolism					
Autophagy	0.146	0.315	0.192	0.212	0.0344
Cell Cycle	0.0139	−0.00456	0.0774	0.279	0.167
DNA Repair	0.283	0.175	0.206	0.345	0.233
Endolysosome	0.0323	0.115	0.00858	0.215	−0.0115
Epigenetic	0.103	0.138	0.175	0.182	0.0325
Immune Response	0.098	0.135	0.121	0.205	0.0638
Lipid Metabolism	0.194	0.247	0.203	0.24	0.0926
Metal Binding and Homeostasis	0.0842	0.0333	0.1	0.0444	0.00074
Mitochondrial Metabolism	0.114	0.212	0.194	0.0977	0.00757
Myelination	0.103	0.12	0.128	0.363	0.27
Oxidative Stress	0.1	0.227	0.193	0.361	0.101
Proteostasis	0.0593	0.113	0.0449	0.247	0.108
RNA Spliceosome					
Structural Stabilization	0.0872	0.146	0.103	0.266	0.0994
Synapse	0.0351	0.164	0.0957	0.102	−0.0197
Tau Homeostasis					
Vasculature	0.0306	0.19	0.129	0.168	−0.0332
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Olfactory transduction					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.0789	0.241	0.222	0.0364	0.0227
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	-0.156	0.0845	-0.0189	-0.201	-0.2
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.118	0.144	-0.00695	-0.0599	-0.0163
RNA Spliceosome					
Structural Stabilization	-0.00525	0.146	-0.0113	-0.0824	-0.0608
Synapse	-0.0954	-0.0159	-0.119	-0.0599	-0.0631
Tau Homeostasis					
Vasculature	-0.129	0.0356	-0.106	-0.0644	-0.0837
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Taste transduction				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.0199	0.278	0.0838	-0.069	-0.076
Lipid Metabolism	0.123	0.257	0.284	-0.0982	-0.128
Metal Binding and Homeostasis	0.0954	0.236	0.204	-0.203	-0.184
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse	0.0553	0.23	0.214	-0.119	-0.0875
Tau Homeostasis					
Vasculature	0.17	0.369	0.241	0.0936	0.0697
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

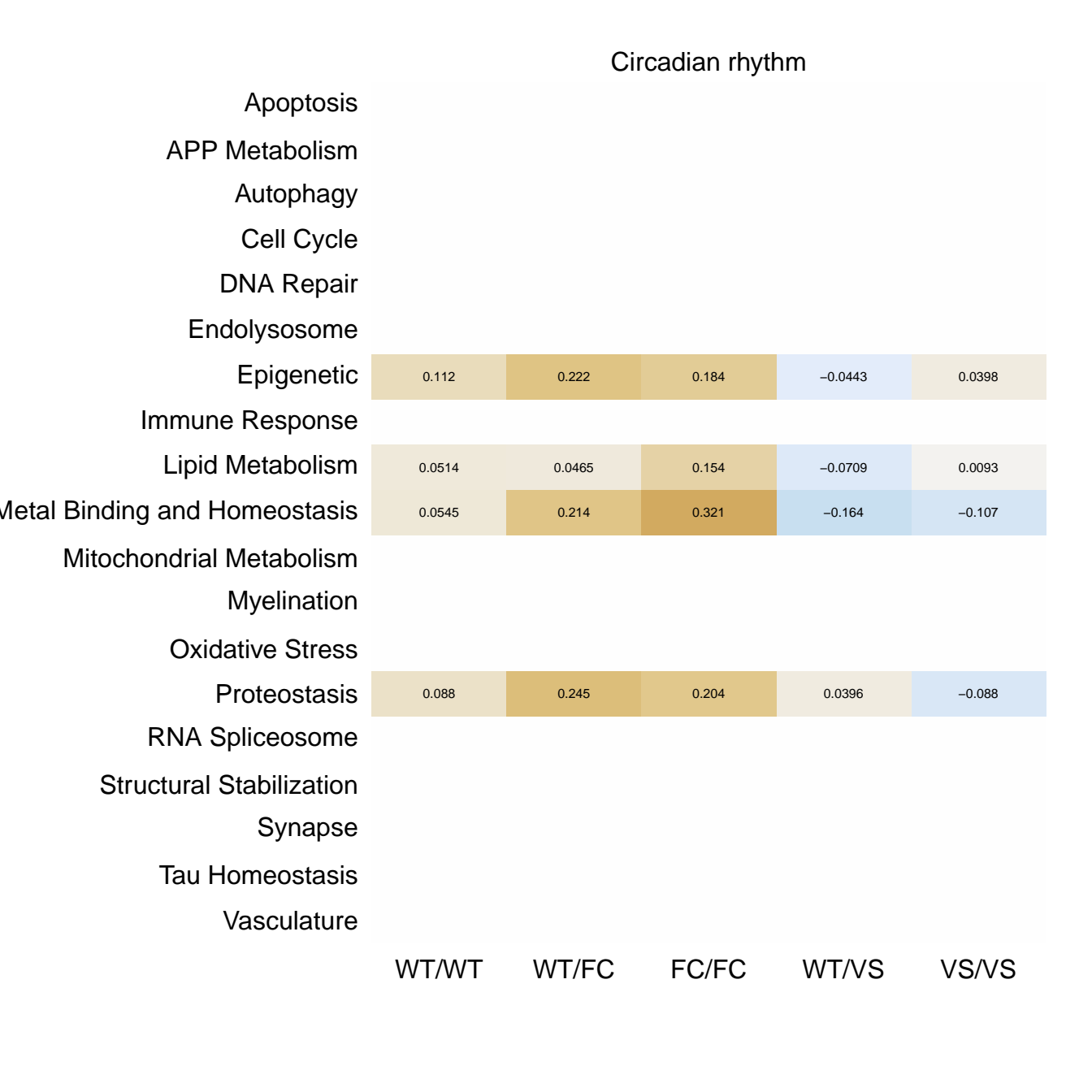
Inflammatory mediator regulation of TRP channels					
Apoptosis	0.044	0.285	0.175	−0.11	−0.154
APP Metabolism					
Autophagy	0.00222	0.253	0.198	0.0388	−0.14
Cell Cycle	−0.0584	0.125	0.0476	−0.00243	−0.0384
DNA Repair					
Endolysosome	0.062	0.221	0.0728	−0.0674	−0.128
Epigenetic	0.0794	0.43	0.339	−0.0639	−0.0837
Immune Response	0.0962	0.227	0.175	−0.00887	−0.0611
Lipid Metabolism	0.15	0.28	0.263	−0.0592	−0.103
Metal Binding and Homeostasis	−0.048	0.0859	0.0422	−0.138	−0.136
Mitochondrial Metabolism	0.0963	0.242	0.209	−0.0954	−0.11
Myelination					
Oxidative Stress	0.0864	0.3	0.262	0.154	−0.119
Proteostasis	0.113	0.223	0.19	0.0622	−0.0796
RNA Spliceosome					
Structural Stabilization	0.0586	0.246	0.154	0.0607	−0.0495
Synapse	0.042	0.143	0.116	−0.0439	−0.0614
Tau Homeostasis					
Vasculature	0.0944	0.205	0.119	0.02	−0.00295
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Axon guidance					
Apoptosis	0.0977	0.335	0.199	−0.0366	−0.0998
APP Metabolism					
Autophagy	0.0898	0.179	0.169	0.171	−0.038
Cell Cycle	0.0748	0.229	0.0972	0.18	−0.0092
DNA Repair	0.328	0.354	0.285	0.0979	0.0086
Endolysosome	0.0578	0.228	0.0952	0.133	−0.0576
Epigenetic	0.168	0.288	0.209	0.0832	0.0352
Immune Response	0.133	0.22	0.145	0.0995	0.025
Lipid Metabolism	0.19	0.365	0.276	0.0635	0.0309
Metal Binding and Homeostasis	0.0982	0.198	0.153	0.036	−0.0655
Mitochondrial Metabolism	0.0345	0.14	0.0867	−0.014	−0.0771
Myelination	0.0687	0.252	0.115	0.107	−0.096
Oxidative Stress	−0.0264	0.0272	−0.0786	0.343	0.0492
Proteostasis	0.149	0.257	0.191	0.159	0.0723
RNA Spliceosome					
Structural Stabilization	0.145	0.294	0.206	0.0115	−0.0305
Synapse	0.165	0.333	0.235	−0.0188	−0.0205
Tau Homeostasis					
Vasculature	0.155	0.407	0.231	0.0292	−0.0488
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Osteoclast differentiation					
Apoptosis	0.0753	0.186	0.162	0.104	−0.0218
APP Metabolism					
Autophagy	−0.0167	−0.0142	0.0262	0.145	−0.0423
Cell Cycle	−0.0195	0.226	0.172	0.116	−0.0081
DNA Repair	0.221	0.256	0.232	0.126	−0.000325
Endolysosome	−0.061	−0.069	−0.0316	0.125	−0.019
Epigenetic	0.103	0.288	0.175	0.199	0.0908
Immune Response	0.0635	0.107	0.0936	0.13	0.0543
Lipid Metabolism	0.136	0.198	0.169	0.127	0.0526
Metal Binding and Homeostasis	−0.093	0.045	−0.0102	−0.0611	−0.109
Mitochondrial Metabolism	0.0391	0.0524	0.102	0.0704	−0.0067
Myelination					
Oxidative Stress	−0.018	0.066	−0.0509	0.219	0.0291
Proteostasis	0.0557	0.137	0.144	0.203	−0.0185
RNA Spliceosome					
Structural Stabilization	0.0447	0.154	0.122	0.0863	0.0112
Synapse	0.0459	0.115	0.103	0.0891	−0.0329
Tau Homeostasis					
Vasculature	0.0507	0.273	0.201	0.0434	−0.111
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Longevity regulating pathway					
Apoptosis	0.164	0.322	0.26	0.117	0.0556
APP Metabolism					
Autophagy	0.195	0.362	0.325	0.101	0.0451
Cell Cycle	0.129	0.285	0.152	0.153	0.122
DNA Repair	0.257	0.362	0.338	0.0176	0.0708
Endolysosome	0.313	0.627	0.523	0.147	0.0238
Epigenetic	0.141	0.253	0.157	0.0632	0.0748
Immune Response	0.245	0.389	0.308	0.133	0.0989
Lipid Metabolism	0.23	0.399	0.363	0.062	0.0235
Metal Binding and Homeostasis	0.195	0.358	0.271	0.0591	0.00402
Mitochondrial Metabolism	0.164	0.291	0.283	0.0185	0.0221
Myelination					
Oxidative Stress	0.0826	0.264	0.259	−0.00492	−0.0741
Proteostasis	0.143	0.205	0.179	0.2	0.13
RNA Spliceosome					
Structural Stabilization	0.12	0.291	0.217	0.0634	−0.0256
Synapse	0.191	0.408	0.257	0.109	0.104
Tau Homeostasis					
Vasculature	0.204	0.317	0.262	0.149	0.13
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Longevity regulating pathway – multiple species					
Apoptosis	0.163	0.303	0.256	0.0935	0.0162
APP Metabolism					
Autophagy	0.0711	0.238	0.162	−0.00673	−0.142
Cell Cycle	0.301	0.405	0.315	0.291	0.184
DNA Repair					
Endolysosome	0.277	0.476	0.354	0.288	0.0778
Epigenetic	0.13	0.217	0.185	0.0713	0.00261
Immune Response	0.251	0.378	0.284	0.106	0.0237
Lipid Metabolism	0.157	0.316	0.274	−0.00528	−0.0902
Metal Binding and Homeostasis	0.125	0.299	0.2	−0.0308	−0.0955
Mitochondrial Metabolism	0.159	0.309	0.26	0.085	−0.0284
Myelination					
Oxidative Stress	0.028	0.0854	0.0825	0.0718	−0.0638
Proteostasis	0.142	0.231	0.162	0.178	0.0889
RNA Spliceosome					
Structural Stabilization	0.102	0.193	0.105	0.182	−0.0275
Synapse	0.175	0.345	0.204	0.0808	0.0278
Tau Homeostasis					
Vasculature	0.23	0.383	0.257	0.127	0.043
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Circadian entrainment					
Apoptosis	−0.0702	0.184	0.226	−0.24	−0.213
APP Metabolism					
Autophagy					
Cell Cycle	−0.103	0.121	−0.0471	0.02	−0.0565
DNA Repair					
Endolysosome	−0.00154	0.318	0.197	−0.0969	−0.197
Epigenetic	0.13	0.39	0.263	−0.0571	0.0017
Immune Response	−0.0592	0.308	0.143	−0.245	−0.223
Lipid Metabolism	0.081	0.354	0.248	−0.194	−0.14
Metal Binding and Homeostasis	0.0169	0.308	0.188	−0.165	−0.143
Mitochondrial Metabolism	−0.036	0.151	0.201	−0.385	−0.243
Myelination					
Oxidative Stress					
Proteostasis	0.0915	0.314	0.233	−0.11	−0.0372
RNA Spliceosome					
Structural Stabilization	0.0483	0.195	0.138	−0.0495	−0.0343
Synapse	0.0623	0.284	0.193	−0.185	−0.068
Tau Homeostasis					
Vasculature	0.052	0.343	0.134	−0.198	−0.0483
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Thermogenesis					
Apoptosis	−0.0732	−0.109	−0.00302	−0.0151	−0.0675
APP Metabolism					
Autophagy	0.0601	0.219	0.145	−0.0312	−0.21
Cell Cycle	0.041	0.0329	0.0688	0.11	0.052
DNA Repair	0.07	−0.00141	0.0994	0.13	0.0345
Endolysosome	−0.0754	−0.189	−0.225	0.285	−0.00607
Epigenetic	0.0744	0.0421	0.0938	0.0242	0.0161
Immune Response	0.01	0.0313	0.0256	0.0661	−0.0206
Lipid Metabolism	0.0231	0.0407	0.0678	0.0037	−0.0509
Metal Binding and Homeostasis	−0.056	−0.106	−0.126	0.104	−0.0187
Mitochondrial Metabolism	−0.401	−0.598	−0.587	0.0948	−0.0513
Myelination					
Oxidative Stress	−0.384	−0.446	−0.381	−0.0386	−0.153
Proteostasis	−0.0205	−0.0381	−0.0443	0.123	−0.00765
RNA Spliceosome					
Structural Stabilization	−0.0359	−0.0512	−0.000376	0.0383	−0.0571
Synapse	0.0841	0.165	0.135	0.0583	0.054
Tau Homeostasis					
Vasculature	0.0614	0.0874	0.13	0.0745	0.021
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

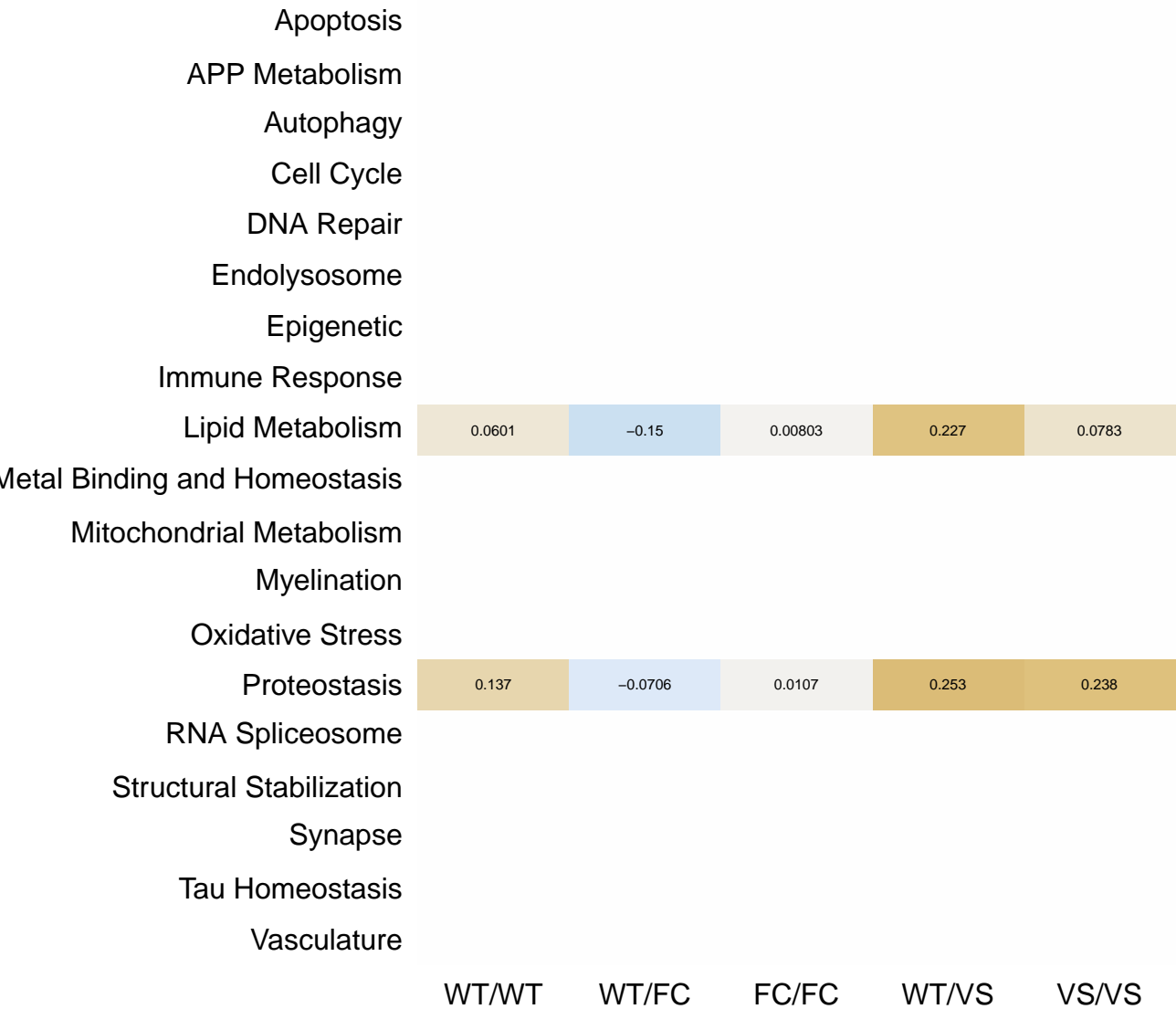
Pathways in cancer					
<div> <div>Apoptosis</div> <div>APP Metabolism</div> <div>Autophagy</div> <div>Cell Cycle</div> <div>DNA Repair</div> <div>Endolysosome</div> <div>Epigenetic</div> <div>Immune Response</div> <div>Lipid Metabolism</div> <div>Metal Binding and Homeostasis</div> <div>Mitochondrial Metabolism</div> <div>Myelination</div> <div>Oxidative Stress</div> <div>Proteostasis</div> <div>RNA Spliceosome</div> <div>Structural Stabilization</div> <div>Synapse</div> <div>Tau Homeostasis</div> <div>Vasculature</div> </div>	0.133	0.23	0.147	0.0674	-0.0127
	0.0975	0.225	0.074	-0.028	-0.0132
	0.0574	0.139	0.0113	0.118	-0.0225
	0.0372	0.108	0.0519	0.0721	0.00662
	0.016	0.0522	0.0852	-0.0272	-0.0135
	0.138	0.156	0.0725	0.122	0.00517
	0.142	0.236	0.136	0.0683	0.0371
	0.101	0.172	0.107	0.037	0.0062
	0.184	0.247	0.179	0.0669	-0.00201
	0.144	0.244	0.195	0.0547	-0.0112
	0.122	0.148	0.121	0.164	0.0236
	0.143	0.161	0.0834	0.192	0.0748
	0.0972	0.208	0.118	0.169	0.0255
	0.104	0.13	0.0727	0.117	0.0283
	0.19	0.253	0.182	0.0987	0.0363
	0.169	0.235	0.143	0.0571	0.0234
	0.163	0.242	0.166	0.0881	0.0249
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Transcriptional misregulation in cancer					
Apoptosis	0.0865	0.11	0.105	0.0934	0.0325
APP Metabolism	0.161	0.443	0.205	-0.0905	-0.00528
Autophagy	0.0769	0.0594	0.00682	0.0877	-0.0239
Cell Cycle	0.139	0.0987	0.0913	0.27	0.223
DNA Repair	0.0327	-0.0711	0.0382	0.159	0.172
Endolysosome	0.211	0.255	0.203	0.0939	0.0822
Epigenetic	0.165	0.199	0.126	0.0932	0.118
Immune Response	0.147	0.185	0.135	0.116	0.0814
Lipid Metabolism	0.12	0.183	0.0852	0.0766	0.035
Metal Binding and Homeostasis	0.117	0.142	0.138	-0.0107	0.0528
Mitochondrial Metabolism	0.215	0.246	-0.0191	0.464	0.305
Myelination					
Oxidative Stress	0.0988	0.161	0.0979	0.00974	-0.0331
Proteostasis	0.124	0.0384	0.0885	0.241	0.178
RNA Spliceosome					
Structural Stabilization	0.119	0.11	0.0838	0.096	0.0639
Synapse	0.17	0.205	0.161	-0.00167	0.0494
Tau Homeostasis					
Vasculature	0.147	0.184	0.206	0.151	0.119
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

MicroRNAs in cancer					
Apoptosis	0.0832	0.257	0.131	−0.0335	−0.0184
APP Metabolism	0.0576	−0.0342	−0.0449	0.0845	0.149
Autophagy	0.166	0.278	0.254	0.0687	−0.00441
Cell Cycle	−0.00104	0.154	0.0938	−0.0272	−0.0113
DNA Repair	0.0802	0.227	0.124	−0.0156	−0.0259
Endolysosome	0.0672	0.147	0.133	0.0281	−0.0352
Epigenetic	0.118	0.272	0.163	−0.0353	0.00583
Immune Response	0.14	0.242	0.156	0.0354	0.0459
Lipid Metabolism	0.121	0.261	0.186	−0.0552	−0.0452
Metal Binding and Homeostasis	0.184	0.276	0.209	0.00807	0.0546
Mitochondrial Metabolism	0.12	0.229	0.0886	0.106	0.0492
Myelination	0.121	0.269	0.0628	0.019	−0.133
Oxidative Stress	0.0454	0.0706	−0.0107	0.129	0.0595
Proteostasis	0.128	0.259	0.14	0.0778	0.0274
RNA Spliceosome					
Structural Stabilization	0.0783	0.226	0.142	0.022	−0.00814
Synapse	0.163	0.285	0.205	0.0576	0.0368
Tau Homeostasis					
Vasculature	0.148	0.299	0.191	0.0287	0.0416
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Proteoglycans in cancer					
Apoptosis	0.0784	0.204	0.0918	−0.00285	−0.0586
APP Metabolism	0.271	0.352	0.187	−0.0237	0.0865
Autophagy	0.0243	0.213	0.0992	0.0425	−0.123
Cell Cycle	0.0302	0.105	0.0131	0.0249	−0.00554
DNA Repair	−0.0517	0.059	−0.00212	−0.0344	−0.13
Endolysosome	0.0961	0.15	0.0401	0.0595	−0.0171
Epigenetic	0.0838	0.191	0.0842	−0.0034	−0.0128
Immune Response	0.0892	0.17	0.067	0.0346	0.00162
Lipid Metabolism	0.206	0.336	0.274	−0.019	−0.0276
Metal Binding and Homeostasis	0.141	0.211	0.149	0.0289	0.0276
Mitochondrial Metabolism	0.147	0.243	0.195	0.0754	0.00213
Myelination	0.212	0.285	0.214	0.0923	0.0127
Oxidative Stress	0.0203	0.091	0.0208	0.103	0.0105
Proteostasis	0.092	0.171	0.0559	0.0687	−0.0193
RNA Spliceosome					
Structural Stabilization	0.123	0.195	0.133	0.0644	−0.00823
Synapse	0.129	0.215	0.139	0.0176	−0.016
Tau Homeostasis					
Vasculature	0.138	0.232	0.14	0.0492	0.00704
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Chemical carcinogenesis – DNA adducts



Chemical carcinogenesis – receptor activation					
Apoptosis	0.167	0.308	0.217	0.119	0.0366
APP Metabolism					
Autophagy	0.224	0.282	0.177	0.372	0.2
Cell Cycle	0.118	0.238	0.148	0.13	0.0295
DNA Repair	0.105	0.335	0.14	−0.0105	−0.0991
Endolysosome	0.0803	0.218	0.11	0.159	−0.0032
Epigenetic	0.146	0.28	0.174	0.111	0.0658
Immune Response	0.197	0.34	0.208	0.121	0.0482
Lipid Metabolism	0.178	0.354	0.212	0.092	−0.000856
Metal Binding and Homeostasis	0.171	0.378	0.209	0.0483	−0.0246
Mitochondrial Metabolism	0.236	0.272	0.161	0.23	0.147
Myelination	0.41	0.44	0.276	0.713	0.435
Oxidative Stress	0.139	0.349	0.127	0.315	0.119
Proteostasis	0.0906	0.113	0.0696	0.201	0.1
RNA Spliceosome					
Structural Stabilization	0.144	0.233	0.2	0.166	0.0544
Synapse	0.184	0.389	0.197	0.126	0.0776
Tau Homeostasis					
Vasculature	0.0972	0.32	0.203	0.0658	0.00347
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Chemical carcinogenesis – reactive oxygen species					
Apoptosis	0.0239	0.085	0.0714	0.132	−0.0461
APP Metabolism					
Autophagy	0.00242	0.146	0.0225	0.16	−0.0467
Cell Cycle	0.118	0.245	0.217	0.137	0.0371
DNA Repair	0.195	0.296	0.258	0.0364	−0.0111
Endolysosome	−0.028	−0.0931	−0.157	0.221	0.0375
Epigenetic	0.124	0.322	0.26	0.0841	0.00432
Immune Response	0.0795	0.176	0.116	0.139	0.016
Lipid Metabolism	0.0274	0.0472	0.0347	0.193	0.0172
Metal Binding and Homeostasis	−0.0961	−0.202	−0.229	0.238	0.00278
Mitochondrial Metabolism	−0.365	−0.569	−0.559	0.13	−0.0528
Myelination					
Oxidative Stress	−0.151	−0.121	−0.188	0.124	−0.105
Proteostasis	−0.032	−0.0503	−0.0778	0.261	0.065
RNA Spliceosome					
Structural Stabilization	0.12	0.182	0.131	0.193	0.0944
Synapse	0.0207	0.0776	0.00632	0.161	−0.0195
Tau Homeostasis					
Vasculature	0.0505	0.203	0.19	0.089	−0.0488
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Viral carcinogenesis					
Apoptosis	0.0192	0.0639	0.0178	0.1	0.0377
APP Metabolism	0.00831	−0.0348	−0.122	0.123	0.065
Autophagy	0.000557	0.0519	−0.0264	0.2	0.0053
Cell Cycle	−0.111	−0.0151	−0.0732	0.0843	−0.0393
DNA Repair	−0.0647	−0.0234	−0.0197	0.000417	−0.0454
Endolysosome	0.0071	0.0176	0.0256	0.216	0.0796
Epigenetic	−0.00623	0.108	0.00956	0.0874	0.0197
Immune Response	0.0438	0.0668	0.0104	0.175	0.119
Lipid Metabolism	0.153	0.189	0.165	0.204	0.121
Metal Binding and Homeostasis	0.0445	0.124	0.0167	0.016	0.0219
Mitochondrial Metabolism	0.0127	−0.0791	−0.0958	0.224	0.106
Myelination	0.0212	−0.0261	−0.126	0.327	0.0684
Oxidative Stress	−0.0887	−0.0847	−0.1	0.242	0.0568
Proteostasis	0.00795	0.039	0.0105	0.178	0.0463
RNA Spliceosome					
Structural Stabilization	−0.0895	−0.0644	−0.0903	0.0671	−0.0205
Synapse	−0.0537	−0.00972	−0.0835	0.138	0.0352
Tau Homeostasis					
Vasculature	0.0532	0.134	0.0757	0.161	0.0563
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Central carbon metabolism in cancer					
Apoptosis	0.129	0.207	0.211	0.0585	-0.0875
APP Metabolism					
Autophagy	0.116	0.296	0.228	0.184	-0.0712
Cell Cycle	0.02	0.0674	0.0681	0.291	0.0362
DNA Repair					
Endolysosome	0.0844	0.195	0.188	0.0905	0.00895
Epigenetic	0.0143	0.0288	0.0189	0.172	-0.0738
Immune Response	0.118	0.208	0.14	0.0907	-0.0386
Lipid Metabolism	0.153	0.267	0.248	0.14	0.0189
Metal Binding and Homeostasis	0.0309	-0.0864	-0.0877	0.352	0.116
Mitochondrial Metabolism	-0.0832	-0.0166	-0.073	0.159	-0.0218
Myelination					
Oxidative Stress	-0.125	0.0544	-0.0547	0.0682	-0.115
Proteostasis	0.147	0.207	0.151	0.244	0.0768
RNA Spliceosome					
Structural Stabilization	0.128	0.25	0.138	0.169	-0.00426
Synapse	0.193	0.281	0.245	0.124	0.0233
Tau Homeostasis					
Vasculature	0.175	0.298	0.265	0.0869	-0.0436
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Choline metabolism in cancer					
Apoptosis	0.0577	0.262	0.292	−0.0931	−0.168
APP Metabolism					
Autophagy	0.0823	0.158	0.191	0.21	0.0877
Cell Cycle	0.025	0.0864	0.14	0.109	0.142
DNA Repair					
Endolysosome	0.000732	−0.0167	0.0292	0.0304	0.0142
Epigenetic	0.0436	0.278	0.18	−0.096	−0.136
Immune Response	0.0835	0.193	0.159	0.0402	−0.00187
Lipid Metabolism	0.13	0.213	0.238	−0.0223	−0.00484
Metal Binding and Homeostasis	0.0448	0.121	0.212	−0.179	−0.137
Mitochondrial Metabolism	0.0566	0.181	0.202	0.0466	−0.125
Myelination					
Oxidative Stress	0.0828	0.3	0.203	0.097	−0.0912
Proteostasis	0.0878	0.161	0.139	0.214	0.0815
RNA Spliceosome					
Structural Stabilization	0.0887	0.185	0.16	0.0377	0.0462
Synapse	0.089	0.203	0.181	−0.0248	−0.0457
Tau Homeostasis					
Vasculature	0.0709	0.337	0.195	−0.0973	−0.165
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

PD–L1 expression and PD–1 checkpoint pathway in cancer					
Apoptosis	0.125	0.282	0.163	0.116	0.0181
APP Metabolism					
Autophagy	0.149	0.32	0.244	0.237	0.00838
Cell Cycle	0.0144	0.0814	0.106	0.0423	0.00342
DNA Repair	0.197	0.37	0.267	–0.0939	–0.133
Endolysosome	0.0399	0.22	0.13	0.132	–0.0429
Epigenetic	0.136	0.285	0.164	0.146	0.0118
Immune Response	0.0856	0.161	0.0875	0.151	0.0748
Lipid Metabolism	0.173	0.305	0.211	0.155	0.079
Metal Binding and Homeostasis	–0.0277	0.0795	0.0299	–0.0316	–0.1
Mitochondrial Metabolism	0.103	0.138	0.168	0.118	0.0646
Myelination					
Oxidative Stress	0.112	0.404	0.271	0.273	0.000899
Proteostasis	0.00372	0.148	0.0455	0.0848	–0.021
RNA Spliceosome					
Structural Stabilization	0.0905	0.211	0.159	0.0697	0.0109
Synapse	0.0413	0.181	0.032	0.132	–0.0416
Tau Homeostasis					
Vasculature	0.13	0.366	0.242	0.0517	–0.075
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Colorectal cancer					
Apoptosis	0.0686	0.211	0.127	0.0745	-0.0139
APP Metabolism					
Autophagy	0.117	0.185	0.117	0.266	0.0897
Cell Cycle	-0.0569	0.0252	-0.0171	0.0909	0.0153
DNA Repair	-0.0722	0.023	0.0465	-0.0179	-0.0151
Endolysosome	-0.037	0.0145	-0.0814	0.201	-0.0364
Epigenetic	0.0744	0.337	0.144	0.0829	-0.0668
Immune Response	0.054	0.193	0.129	0.0524	-0.00902
Lipid Metabolism	0.119	0.288	0.231	0.0511	-0.0277
Metal Binding and Homeostasis	0.144	0.156	0.118	0.0723	0.0628
Mitochondrial Metabolism	0.0793	0.139	0.186	0.154	0.0338
Myelination	0.275	0.356	0.296	0.433	0.255
Oxidative Stress	0.0222	0.118	0.0483	0.319	0.116
Proteostasis	0.0238	0.0648	0.0109	0.16	0.0684
RNA Spliceosome					
Structural Stabilization	0.101	0.216	0.158	0.0848	0.00755
Synapse	0.063	0.227	0.113	0.0336	0.00367
Tau Homeostasis					
Vasculature	0.122	0.301	0.202	0.173	-0.00216
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Pancreatic cancer					
Apoptosis	0.148	0.243	0.195	0.126	0.0765
APP Metabolism					
Autophagy	0.112	0.121	0.0708	0.443	0.0678
Cell Cycle	0.0393	0.024	0.0108	0.225	0.131
DNA Repair	−0.0114	0.0404	0.0758	0.114	−0.00112
Endolysosome	0.00241	0.079	−0.0107	0.157	−0.0793
Epigenetic	0.148	0.292	0.229	0.0345	0.0184
Immune Response	0.148	0.244	0.199	0.121	0.0703
Lipid Metabolism	0.219	0.33	0.286	0.125	0.0854
Metal Binding and Homeostasis	0.135	0.175	0.2	7.73e−05	−0.0559
Mitochondrial Metabolism	0.115	0.109	0.172	0.239	0.084
Myelination					
Oxidative Stress	0.0861	0.157	0.108	0.329	0.112
Proteostasis	0.0474	0.0319	0.0462	0.207	0.0556
RNA Spliceosome					
Structural Stabilization	0.0969	0.145	0.152	0.116	0.0419
Synapse	0.151	0.212	0.163	0.17	0.0589
Tau Homeostasis					
Vasculature	0.119	0.227	0.171	0.136	0.0492
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hepatocellular carcinoma					
Apoptosis	0.0765	0.21	0.107	0.0663	−0.00587
APP Metabolism					
Autophagy	0.0414	0.277	0.131	0.311	0.0155
Cell Cycle	0.0452	0.164	0.0832	0.0743	0.0446
DNA Repair	−0.00625	0.0429	0.0283	0.115	0.0158
Endolysosome	0.109	0.186	0.0704	0.134	0.00957
Epigenetic	0.064	0.211	0.0799	0.0372	−0.00419
Immune Response	0.0805	0.181	0.0893	0.106	0.0282
Lipid Metabolism	0.172	0.274	0.223	0.12	0.0507
Metal Binding and Homeostasis	0.0667	0.138	0.163	0.0223	−0.0399
Mitochondrial Metabolism	0.0823	0.133	0.114	0.257	0.0559
Myelination	0.244	0.356	0.335	0.312	0.142
Oxidative Stress	0.0171	0.0964	0.00221	0.271	0.0189
Proteostasis	0.0538	0.143	0.0454	0.139	0.0155
RNA Spliceosome					
Structural Stabilization	0.101	0.216	0.143	0.0735	0.00149
Synapse	0.105	0.218	0.131	0.0554	0.0165
Tau Homeostasis					
Vasculature	0.0938	0.275	0.114	0.0919	−0.000639
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Gastric cancer					
Apoptosis	0.117	0.266	0.108	0.0376	−0.02
APP Metabolism					
Autophagy	0.226	0.493	0.33	0.185	0.0251
Cell Cycle	0.0142	0.15	0.0455	0.0311	−0.0132
DNA Repair	−0.0298	0.058	−0.00603	0.0576	−0.0185
Endolysosome	0.0985	0.187	0.0656	0.0207	−0.025
Epigenetic	0.134	0.268	0.0887	0.109	0.0245
Immune Response	0.109	0.225	0.0667	0.0343	−0.00804
Lipid Metabolism	0.195	0.311	0.206	0.0288	−0.0514
Metal Binding and Homeostasis	0.169	0.168	0.0699	0.154	0.109
Mitochondrial Metabolism	0.212	0.277	0.186	0.209	0.124
Myelination	0.214	0.266	0.175	0.293	0.148
Oxidative Stress	0.12	0.22	0.0359	0.228	0.104
Proteostasis	0.0801	0.178	0.0554	0.0376	−0.0228
RNA Spliceosome					
Structural Stabilization	0.181	0.301	0.195	0.0433	−0.0429
Synapse	0.169	0.309	0.134	−0.008	−0.00975
Tau Homeostasis					
Vasculature	0.169	0.331	0.178	0.112	−0.0258
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Glioma					
Apoptosis	0.044	0.189	0.128	0.0634	0.0463
APP Metabolism					
Autophagy	−0.0216	0.205	0.152	0.232	−0.0412
Cell Cycle	−0.0532	0.0319	−0.015	0.101	0.122
DNA Repair	−0.0949	−0.0536	−0.0481	0.0812	−0.00163
Endolysosome	0.0722	0.19	0.0931	0.129	0.0752
Epigenetic	0.0112	0.156	0.0133	0.0554	0.0483
Immune Response	0.0845	0.245	0.134	0.0606	0.0498
Lipid Metabolism	0.208	0.303	0.231	0.156	0.146
Metal Binding and Homeostasis	−0.0615	−0.0751	0.0228	0.0124	0.0561
Mitochondrial Metabolism	0.0551	0.188	0.103	0.175	0.0727
Myelination	0.00214	0.137	0.153	0.221	0.0648
Oxidative Stress	0.102	0.0786	−0.0353	0.38	0.266
Proteostasis	0.0292	0.0529	0.00647	0.207	0.143
RNA Spliceosome					
Structural Stabilization	−0.0107	0.128	0.0417	0.0726	0.0234
Synapse	0.0325	0.153	0.124	0.0416	0.0244
Tau Homeostasis					
Vasculature	0.0466	0.195	0.0803	0.0547	0.0409
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Thyroid cancer					
Apoptosis	−0.00313	0.14	−0.0241	0.266	0.0433
APP Metabolism					
Autophagy					
Cell Cycle	−0.135	−0.0111	−0.122	0.226	0.0472
DNA Repair	−0.184	−0.176	−0.176	0.275	0.0481
Endolysosome					
Epigenetic	−0.0426	0.18	−0.136	0.215	−0.0736
Immune Response	−0.0283	0.0885	−0.0796	0.283	0.0796
Lipid Metabolism	0.235	0.266	0.131	0.318	0.0272
Metal Binding and Homeostasis	0.178	0.155	0.0548	0.27	0.0941
Mitochondrial Metabolism	0.0568	0.179	0.0745	0.358	0.171
Myelination					
Oxidative Stress					
Proteostasis	−0.109	0.0554	−0.135	0.174	−0.0227
RNA Spliceosome					
Structural Stabilization	−0.0527	0.216	−0.0115	0.00978	−0.211
Synapse	0.0664	0.151	0.0759	0.212	0.0587
Tau Homeostasis					
Vasculature	0.00063	0.159	−0.0598	0.332	0.112
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Acute myeloid leukemia					
Apoptosis	0.187	0.306	0.252	0.153	0.0618
APP Metabolism					
Autophagy	0.215	0.228	0.193	0.267	0.0949
Cell Cycle	0.0947	0.162	0.13	0.311	0.146
DNA Repair	-0.0312	0.261	0.125	0.00745	-0.153
Endolysosome	0.0141	0.104	0.148	0.191	0.03
Epigenetic	0.214	0.285	0.194	0.197	0.129
Immune Response	0.212	0.275	0.22	0.18	0.0947
Lipid Metabolism	0.332	0.371	0.365	0.249	0.197
Metal Binding and Homeostasis	0.225	0.168	0.269	0.139	0.136
Mitochondrial Metabolism	0.245	0.226	0.238	0.315	0.16
Myelination					
Oxidative Stress					
Proteostasis	0.128	0.135	0.108	0.293	0.185
RNA Spliceosome					
Structural Stabilization	0.195	0.302	0.268	0.16	0.0713
Synapse	0.265	0.324	0.211	0.229	0.132
Tau Homeostasis					
Vasculature	0.248	0.419	0.361	0.141	-0.0169
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Chronic myeloid leukemia					
Apoptosis	0.136	0.208	0.161	0.181	0.102
APP Metabolism					
Autophagy	0.287	0.324	0.346	0.432	0.166
Cell Cycle	0.0839	0.15	0.102	0.232	0.149
DNA Repair	0.0462	0.0623	0.0523	0.201	0.0641
Endolysosome	0.144	0.177	0.132	0.311	0.144
Epigenetic	0.124	0.179	0.0806	0.147	0.102
Immune Response	0.226	0.299	0.187	0.216	0.133
Lipid Metabolism	0.303	0.373	0.291	0.247	0.16
Metal Binding and Homeostasis	0.149	0.152	0.134	0.0573	0.0564
Mitochondrial Metabolism	0.2	0.156	0.187	0.387	0.228
Myelination	0.0477	0.0215	0.0402	0.473	0.158
Oxidative Stress	0.137	0.124	0.0122	0.377	0.255
Proteostasis	0.115	0.126	0.0774	0.32	0.15
RNA Spliceosome					
Structural Stabilization	0.178	0.294	0.228	0.138	0.0701
Synapse	0.233	0.307	0.239	0.2	0.14
Tau Homeostasis					
Vasculature	0.199	0.301	0.232	0.136	0.0714
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Basal cell carcinoma					
Apoptosis	0.132	0.265	0.055	0.112	0.0825
APP Metabolism					
Autophagy					
Cell Cycle	0.0905	0.103	0.0572	0.252	0.206
DNA Repair	-0.0921	-0.186	-0.0716	0.212	0.115
Endolysosome	0.18	0.256	0.104	0.0954	0.0399
Epigenetic	0.191	0.32	0.0621	0.118	0.127
Immune Response	0.101	0.176	-0.0184	0.0846	0.0644
Lipid Metabolism	0.239	0.34	0.151	0.172	0.14
Metal Binding and Homeostasis	0.133	0.239	0.13	0.105	0.117
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.138	0.249	0.0645	0.0578	0.0569
RNA Spliceosome					
Structural Stabilization	0.169	0.266	0.129	0.0455	-0.0317
Synapse	0.173	0.296	0.116	0.0253	0.0767
Tau Homeostasis					
Vasculature	0.162	0.309	0.0232	0.181	0.193
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Melanoma					
Apoptosis	0.0853	0.196	0.123	0.167	0.0762
APP Metabolism					
Autophagy					
Cell Cycle	0.0257	0.0734	0.049	0.136	0.157
DNA Repair	−0.0836	−0.0617	−0.0506	0.142	0.011
Endolysosome	0.0552	0.103	0.0683	0.0967	0.0612
Epigenetic	0.0523	0.166	0.059	0.069	−0.0025
Immune Response	0.126	0.205	0.117	0.173	0.106
Lipid Metabolism	0.227	0.206	0.248	0.178	0.121
Metal Binding and Homeostasis	0.158	−0.0557	0.11	0.183	0.206
Mitochondrial Metabolism	0.12	0.153	0.158	0.262	0.16
Myelination					
Oxidative Stress	0.0691	0.146	0.0317	0.204	0.119
Proteostasis	0.00777	−0.0135	−0.0189	0.141	0.0857
RNA Spliceosome					
Structural Stabilization	0.0553	0.177	0.114	0.0879	−0.0114
Synapse	0.157	0.235	0.18	0.0722	0.0704
Tau Homeostasis					
Vasculature	0.129	0.153	0.135	0.209	0.0938
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Renal cell carcinoma					
Apoptosis	0.11	0.268	0.2	0.114	0.0218
APP Metabolism					
Autophagy	0.0642	0.221	0.163	0.176	−0.0602
Cell Cycle	0.123	0.238	0.144	0.309	0.177
DNA Repair	0.113	0.055	0.043	0.232	0.0903
Endolysosome	−0.0808	0.0265	−0.0807	0.365	0.0749
Epigenetic	0.149	0.221	0.188	0.083	0.0888
Immune Response	0.179	0.274	0.192	0.145	0.0868
Lipid Metabolism	0.242	0.288	0.314	0.369	0.194
Metal Binding and Homeostasis	0.271	0.161	0.212	0.273	0.253
Mitochondrial Metabolism	0.089	0.147	0.174	0.133	0.0304
Myelination					
Oxidative Stress	0.0832	0.288	0.15	0.249	0.112
Proteostasis	0.0501	0.0847	0.0299	0.348	0.178
RNA Spliceosome					
Structural Stabilization	0.116	0.205	0.132	0.245	0.105
Synapse	0.0878	0.284	0.142	0.169	0.0318
Tau Homeostasis					
Vasculature	0.181	0.328	0.223	0.213	0.0823
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Bladder cancer					
Apoptosis	0.0635	0.172	0.00818	0.0643	0.0243
APP Metabolism					
Autophagy					
Cell Cycle	-0.00411	0.000534	-0.109	0.135	0.131
DNA Repair	-0.0325	0.0754	-0.0971	0.0892	0.0196
Endolysosome	-0.00835	-0.0132	-0.121	0.0215	0.00426
Epigenetic	-0.033	0.118	-0.00749	-0.0228	-0.0234
Immune Response	0.0941	0.16	0.00705	0.22	0.135
Lipid Metabolism	0.154	0.206	0.0754	0.0218	0.0282
Metal Binding and Homeostasis	0.13	-0.0677	-0.0462	0.198	0.0966
Mitochondrial Metabolism	0.106	0.103	0.0704	0.354	0.135
Myelination					
Oxidative Stress	0.112	0.29	0.0249	0.221	0.0949
Proteostasis	0.0502	0.0996	-0.0865	0.134	0.0405
RNA Spliceosome					
Structural Stabilization	0.0834	0.164	0.00994	0.143	0.0972
Synapse	0.186	0.249	0.182	0.091	0.0911
Tau Homeostasis					
Vasculature	0.105	0.0877	-0.0235	0.127	0.159
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Prostate cancer					
Apoptosis	0.176	0.303	0.229	0.0886	0.0438
APP Metabolism					
Autophagy	0.275	0.414	0.337	0.199	0.101
Cell Cycle	0.0995	0.245	0.141	0.111	0.0623
DNA Repair	0.112	0.277	0.159	-0.0469	0.0127
Endolysosome	0.102	0.115	0.0852	0.14	0.127
Epigenetic	0.135	0.219	0.0688	0.0854	0.0741
Immune Response	0.199	0.316	0.193	0.166	0.0927
Lipid Metabolism	0.224	0.316	0.271	0.127	0.113
Metal Binding and Homeostasis	0.266	0.323	0.296	0.121	0.0769
Mitochondrial Metabolism	0.236	0.294	0.292	0.208	0.158
Myelination	0.278	0.4	0.266	0.346	0.242
Oxidative Stress	0.211	0.188	0.131	0.32	0.248
Proteostasis	0.142	0.133	0.1	0.183	0.134
RNA Spliceosome					
Structural Stabilization	0.161	0.256	0.191	0.178	0.113
Synapse	0.252	0.397	0.288	0.147	0.069
Tau Homeostasis					
Vasculature	0.178	0.305	0.188	0.106	0.0345
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Endometrial cancer					
Apoptosis	0.0357	0.135	0.079	0.109	0.00181
APP Metabolism					
Autophagy					
Cell Cycle	−0.0942	−0.0193	−0.0467	0.187	0.103
DNA Repair	−0.104	−0.0295	−0.039	0.0746	0.0189
Endolysosome	−0.0236	−0.0187	−0.0296	0.0854	−0.00276
Epigenetic	0.00277	0.189	0.0343	0.118	−0.0303
Immune Response	0.0803	0.142	0.0921	0.183	0.103
Lipid Metabolism	0.18	0.218	0.286	0.0798	0.0686
Metal Binding and Homeostasis	0.136	−0.039	0.0577	0.255	0.161
Mitochondrial Metabolism	0.106	0.171	0.267	0.173	0.098
Myelination	0.114	0.0441	0.0641	0.419	0.136
Oxidative Stress	0.0591	0.0859	0.07	0.445	0.2
Proteostasis	0.0321	0.0727	0.0457	0.112	0.0775
RNA Spliceosome					
Structural Stabilization	0.0948	0.225	0.167	0.0568	−0.0793
Synapse	0.0475	0.21	0.12	0.00194	−0.0487
Tau Homeostasis					
Vasculature	0.142	0.346	0.221	0.14	−0.0219
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Breast cancer					
Apoptosis	0.152	0.324	0.157	0.05	0.00209
APP Metabolism					
Autophagy					
Cell Cycle	0.0452	0.204	0.0916	0.102	0.0695
DNA Repair	−0.0753	0.047	0.00346	0.042	−0.077
Endolysosome	0.123	0.213	0.0642	0.0939	0.0131
Epigenetic	0.113	0.317	0.11	0.0393	−0.00165
Immune Response	0.127	0.26	0.0881	0.0743	0.0463
Lipid Metabolism	0.212	0.357	0.24	0.0673	0.0213
Metal Binding and Homeostasis	0.172	0.29	0.249	0.13	0.0438
Mitochondrial Metabolism	0.188	0.301	0.192	0.179	0.0996
Myelination	0.192	0.282	0.208	0.195	0.145
Oxidative Stress	0.0791	0.25	0.0658	0.317	0.0353
Proteostasis	0.089	0.209	0.0732	0.087	0.0147
RNA Spliceosome					
Structural Stabilization	0.15	0.291	0.168	0.05	0.00317
Synapse	0.224	0.326	0.208	0.0323	0.051
Tau Homeostasis					
Vasculature	0.162	0.331	0.18	0.129	0.0156
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Small cell lung cancer					
Apoptosis	0.117	0.224	0.199	0.183	0.11
APP Metabolism					
Autophagy	0.207	0.274	0.292	0.199	0.0501
Cell Cycle	-0.00734	-0.00297	0.0405	0.196	0.0923
DNA Repair	0.0474	0.0931	0.0777	0.127	0.085
Endolysosome					
Epigenetic	0.121	0.211	0.102	0.203	0.151
Immune Response	0.206	0.235	0.233	0.18	0.154
Lipid Metabolism	0.263	0.302	0.287	0.194	0.149
Metal Binding and Homeostasis	0.148	0.141	0.136	0.194	0.136
Mitochondrial Metabolism	0.28	0.349	0.339	0.445	0.338
Myelination					
Oxidative Stress	0.179	0.137	0.0162	0.517	0.376
Proteostasis	0.2	0.214	0.238	0.222	0.169
RNA Spliceosome					
Structural Stabilization	0.24	0.293	0.319	0.0455	0.0977
Synapse	0.345	0.347	0.328	0.166	0.176
Tau Homeostasis					
Vasculature	0.222	0.356	0.318	0.104	0.0726
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Non-small cell lung cancer					
Apoptosis	0.0568	0.2	0.151	0.0377	0.00325
APP Metabolism					
Autophagy	0.0872	0.266	0.161	0.254	−0.0173
Cell Cycle	−0.0417	0.0541	−0.00074	0.099	0.102
DNA Repair	−0.0877	−0.105	−0.031	0.136	0.0654
Endolysosome	0.124	0.138	0.104	0.196	0.0736
Epigenetic	0.0314	0.204	0.0877	0.0543	−0.0142
Immune Response	0.136	0.217	0.177	0.103	0.0507
Lipid Metabolism	0.266	0.309	0.327	0.175	0.157
Metal Binding and Homeostasis	0.11	−0.0181	0.0536	0.196	0.14
Mitochondrial Metabolism	0.127	0.25	0.209	0.179	0.0632
Myelination					
Oxidative Stress	0.0118	0.125	0.0151	0.34	0.114
Proteostasis	−0.0198	0.0309	0.0267	0.144	0.0801
RNA Spliceosome					
Structural Stabilization	0.072	0.215	0.166	0.0204	−0.0333
Synapse	0.132	0.34	0.194	0.0645	−0.0296
Tau Homeostasis					
Vasculature	0.0668	0.239	0.172	−0.017	−0.0478
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Human T-cell leukemia virus 1 infection					
Apoptosis	0.0869	0.114	0.0777	0.0934	0.0336
APP Metabolism					
Autophagy	0.0327	−0.0472	−0.0187	0.259	−0.0208
Cell Cycle	−0.082	−0.0332	−0.0647	0.0945	−0.0357
DNA Repair	0.0791	0.114	0.0646	0.0337	−0.0145
Endolysosome	0.0225	0.0415	−0.0331	0.133	−0.00648
Epigenetic	0.113	0.185	0.181	0.0993	0.0724
Immune Response	0.116	0.111	0.0979	0.125	0.0654
Lipid Metabolism	0.153	0.131	0.151	0.162	0.0505
Metal Binding and Homeostasis	0.0578	0.205	0.0846	−0.0103	−0.0674
Mitochondrial Metabolism	0.0558	−0.00318	0.00917	0.212	0.0338
Myelination	0.0933	0.0517	0.0903	0.492	0.159
Oxidative Stress	0.0411	0.222	0.164	0.266	−0.0224
Proteostasis	0.0309	0.0201	0.00143	0.194	0.0298
RNA Spliceosome					
Structural Stabilization	0.0617	0.0977	0.0598	0.154	0.0648
Synapse	0.0799	0.139	0.0938	0.157	0.0138
Tau Homeostasis					
Vasculature	0.12	0.215	0.198	0.104	0.0159
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Human immunodeficiency virus 1 infection					
Apoptosis	0.0662	0.151	0.125	0.0938	−0.00666
APP Metabolism					
Autophagy	0.0495	0.0639	0.109	0.172	−0.0322
Cell Cycle	−0.044	0.0715	0.0755	0.0812	−0.0722
DNA Repair	0.0707	0.0897	0.138	0.0147	−0.035
Endolysosome	−0.0276	−0.0392	0.00826	0.255	−0.0306
Epigenetic	0.0891	0.21	0.18	0.11	−0.00467
Immune Response	0.0693	0.0624	0.0592	0.132	0.0539
Lipid Metabolism	0.15	0.164	0.177	0.17	0.113
Metal Binding and Homeostasis	0.0351	−0.011	0.0352	0.103	0.0283
Mitochondrial Metabolism	0.0971	0.054	0.139	0.134	0.0431
Myelination	0.0877	0.113	0.108	0.29	0.166
Oxidative Stress	0.0538	0.168	0.157	0.273	0.0848
Proteostasis	0.0341	0.0618	0.0604	0.173	0.0317
RNA Spliceosome					
Structural Stabilization	0.0609	0.132	0.109	0.172	0.0474
Synapse	0.0175	0.126	0.07	0.124	−0.0131
Tau Homeostasis					
Vasculature	0.0582	0.172	0.139	0.141	0.0608
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hepatitis B					
Apoptosis	0.121	0.209	0.153	0.101	0.0249
APP Metabolism					
Autophagy	0.123	0.273	0.194	0.225	0.0259
Cell Cycle	-0.0363	0.147	0.0483	0.0162	-0.0654
DNA Repair	0.0463	0.0678	0.03	0.0197	0.0268
Endolysosome	0.131	0.177	0.104	0.257	0.0953
Epigenetic	0.113	0.226	0.166	0.0863	0.0386
Immune Response	0.138	0.213	0.169	0.111	0.0747
Lipid Metabolism	0.218	0.268	0.241	0.164	0.142
Metal Binding and Homeostasis	0.192	0.292	0.229	0.0608	0.02
Mitochondrial Metabolism	0.149	0.134	0.178	0.157	0.136
Myelination	0.297	0.348	0.201	0.534	0.327
Oxidative Stress	0.0782	0.263	0.142	0.289	0.118
Proteostasis	0.0723	0.12	0.0786	0.171	0.0777
RNA Spliceosome					
Structural Stabilization	0.0988	0.194	0.179	0.0656	0.0236
Synapse	0.0532	0.181	0.118	0.0938	-0.0166
Tau Homeostasis					
Vasculature	0.147	0.266	0.214	0.101	0.0367
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hepatitis C					
Apoptosis	0.066	0.149	0.0625	0.138	0.0254
APP Metabolism					
Autophagy	0.0142	0.129	0.0871	0.159	-0.0372
Cell Cycle	-0.159	-0.0967	-0.207	0.0871	-0.0233
DNA Repair	-0.00793	0.0233	-0.083	0.125	0.0733
Endolysosome	0.0598	0.0639	0.0704	0.155	0.064
Epigenetic	0.0392	0.165	0.041	0.0852	0.0149
Immune Response	0.0714	0.077	0.0473	0.148	0.0736
Lipid Metabolism	0.189	0.13	0.153	0.267	0.193
Metal Binding and Homeostasis	0.0901	0.101	0.0699	0.156	0.0619
Mitochondrial Metabolism	0.0986	0.105	0.114	0.275	0.168
Myelination	0.24	0.313	0.215	0.545	0.242
Oxidative Stress	-0.0347	0.0524	-0.0314	0.258	0.11
Proteostasis	0.00396	0.0609	-0.00502	0.114	-0.0316
RNA Spliceosome					
Structural Stabilization	0.0235	0.0828	-0.0109	0.132	0.0216
Synapse	-0.0345	-0.0183	-0.0608	0.132	-0.00956
Tau Homeostasis					
Vasculature	0.0811	0.222	0.14	0.0926	-0.0104
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Coronavirus disease – COVID–19					
Apoptosis	0.0601	0.146	0.056	0.0709	−0.058
APP Metabolism					
Autophagy	0.0652	0.159	0.119	0.127	−0.103
Cell Cycle	−0.195	−0.112	−0.125	0.000404	−0.208
DNA Repair	0.0499	0.00725	0.0776	0.0548	−0.0657
Endolysosome	0.0611	0.142	0.04	0.0823	−0.093
Epigenetic	0.0745	0.237	0.146	0.0522	−0.0402
Immune Response	0.0134	−0.0116	−0.0559	0.0773	0.00964
Lipid Metabolism	0.157	0.145	0.153	0.0995	0.0335
Metal Binding and Homeostasis	0.102	0.133	0.0615	−0.0813	−0.0912
Mitochondrial Metabolism	0.129	0.143	0.134	0.044	0.055
Myelination					
Oxidative Stress	0.0545	0.324	0.219	0.115	−0.073
Proteostasis	−0.284	−0.429	−0.547	0.189	0.00737
RNA Spliceosome					
Structural Stabilization	−0.302	−0.469	−0.535	0.161	0.0136
Synapse	−0.247	−0.395	−0.44	0.179	0.0244
Tau Homeostasis					
Vasculature	0.0756	0.146	0.115	−0.0127	−0.0662
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Influenza A					
Apoptosis	0.0763	0.118	0.0567	0.112	0.00321
APP Metabolism					
Autophagy	−0.029	0.0562	0.0362	0.227	−0.0265
Cell Cycle	−0.102	−0.0283	−0.0369	0.0478	0.032
DNA Repair	0.0239	0.0351	0.118	0.0662	0.121
Endolysosome	0.102	0.228	0.192	0.223	0.0579
Epigenetic	0.0936	0.237	0.137	0.0637	0.00138
Immune Response	0.0861	0.0979	0.0749	0.116	0.0559
Lipid Metabolism	0.095	0.0159	0.0761	0.183	0.104
Metal Binding and Homeostasis	0.0981	0.2	0.194	−0.0606	−0.0562
Mitochondrial Metabolism	0.0633	0.0743	0.0898	0.183	0.121
Myelination					
Oxidative Stress	−0.0728	0.0322	−0.0535	0.198	0.0754
Proteostasis	0.0644	0.137	0.0877	0.146	0.0316
RNA Spliceosome					
Structural Stabilization	0.066	0.096	0.0607	0.1	0.0132
Synapse	0.0204	0.0635	0.00822	0.237	0.0323
Tau Homeostasis					
Vasculature	−0.0248	0.0614	0.111	0.0916	−0.0479
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Measles					
Apoptosis	0.15	0.205	0.115	0.154	0.0652
APP Metabolism					
Autophagy	0.0458	0.096	0.0496	0.147	−0.0472
Cell Cycle	−0.0293	−0.00427	−0.0453	0.189	0.134
DNA Repair	0.0863	0.0713	0.0435	0.201	0.209
Endolysosome	0.15	0.1	0.146	0.179	−0.022
Epigenetic	0.107	0.249	0.14	0.111	0.0457
Immune Response	0.116	0.0585	0.0539	0.126	0.0581
Lipid Metabolism	0.183	0.0944	0.136	0.188	0.111
Metal Binding and Homeostasis	0.0563	0.0638	0.0167	0.00581	−0.0468
Mitochondrial Metabolism	0.204	0.235	0.242	0.277	0.277
Myelination					
Oxidative Stress	0.0137	0.221	0.0492	0.251	0.115
Proteostasis	0.0538	0.0984	0.0485	0.153	0.0226
RNA Spliceosome					
Structural Stabilization	0.148	0.148	0.16	0.128	0.0872
Synapse	0.0506	0.0363	−0.0218	0.229	0.0717
Tau Homeostasis					
Vasculature	0.0888	0.153	0.192	0.195	6e−04
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Herpes simplex virus 1 infection					
Apoptosis	0.137	0.11	0.0842	0.225	0.0912
APP Metabolism					
Autophagy	0.102	0.055	0.0596	0.239	0.0391
Cell Cycle	0.0589	0.0421	0.129	0.239	0.16
DNA Repair	0.128	0.102	0.12	0.222	0.21
Endolysosome	0.0884	0.0709	0.0992	0.25	0.0363
Epigenetic	0.088	0.14	0.165	0.0571	0.0411
Immune Response	0.0949	0.0245	0.0317	0.171	0.11
Lipid Metabolism	0.19	0.0892	0.146	0.205	0.122
Metal Binding and Homeostasis	0.00238	0.00332	0.0726	-0.0153	-0.00776
Mitochondrial Metabolism	0.226	0.194	0.207	0.324	0.274
Myelination	0.175	0.0451	0.0811	0.423	0.256
Oxidative Stress	0.117	0.147	0.142	0.4	0.276
Proteostasis	0.07	-0.00461	0.0338	0.183	0.076
RNA Spliceosome	0.0153	-0.212	-0.106	0.17	0.177
Structural Stabilization	0.189	0.168	0.215	0.169	0.104
Synapse	0.0988	0.0702	0.0325	0.254	0.107
Tau Homeostasis					
Vasculature	0.108	0.17	0.243	0.198	0.044
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Human cytomegalovirus infection					
Apoptosis	0.08	0.127	0.128	0.0612	0.0394
APP Metabolism	0.0596	0.144	0.0866	−0.0499	−0.0604
Autophagy	0.0257	0.0273	0.0898	0.0996	−0.053
Cell Cycle	−0.0529	0.059	0.00263	0.0611	0.0156
DNA Repair	0.0489	0.0834	0.0526	0.0124	0.00783
Endolysosome	−0.0297	−0.0392	0.0406	0.252	−0.00808
Epigenetic	0.102	0.168	0.152	0.0949	0.0717
Immune Response	0.0927	0.0962	0.122	0.0888	0.0594
Lipid Metabolism	0.176	0.236	0.276	0.0553	0.035
Metal Binding and Homeostasis	0.0492	0.111	0.108	0.021	−0.038
Mitochondrial Metabolism	0.075	0.0431	0.121	0.0846	0.0157
Myelination	−0.0107	0.0946	0.072	0.283	0.0993
Oxidative Stress	0.0355	0.0806	0.0513	0.274	0.123
Proteostasis	0.0687	0.0508	0.0749	0.195	0.0803
RNA Spliceosome					
Structural Stabilization	0.0927	0.164	0.164	0.105	0.036
Synapse	0.0512	0.121	0.109	0.0702	0.0162
Tau Homeostasis					
Vasculature	0.118	0.226	0.197	0.0877	0.0377
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Kaposi sarcoma–associated herpesvirus infection					
Apoptosis	0.123	0.239	0.147	0.12	0.0271
APP Metabolism					
Autophagy	0.00408	0.157	0.138	0.102	−0.09
Cell Cycle	−0.05	0.102	0.0104	0.111	0.0525
DNA Repair	0.115	0.136	0.123	0.091	0.0769
Endolysosome	−0.0303	0.0321	0.0434	0.248	0.0348
Epigenetic	0.129	0.29	0.173	0.102	0.0362
Immune Response	0.103	0.158	0.135	0.145	0.0973
Lipid Metabolism	0.19	0.232	0.243	0.208	0.16
Metal Binding and Homeostasis	0.0589	0.127	0.097	0.128	0.0427
Mitochondrial Metabolism	0.0907	0.0688	0.133	0.127	0.0647
Myelination	0.0428	0.153	0.121	0.364	0.112
Oxidative Stress	0.0281	0.214	0.0643	0.312	0.0893
Proteostasis	0.0688	0.162	0.0886	0.197	0.0721
RNA Spliceosome					
Structural Stabilization	0.116	0.181	0.132	0.136	0.103
Synapse	0.0409	0.12	0.0714	0.0998	0.0133
Tau Homeostasis					
Vasculature	0.119	0.311	0.193	0.107	0.00862
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Epstein–Barr virus infection					
Apoptosis	0.0807	0.119	0.0618	0.139	0.0494
APP Metabolism	0.0307	−0.23	−0.204	0.146	0.119
Autophagy	0.0749	0.00831	0.0808	0.169	0.0166
Cell Cycle	−0.029	0.0708	0.0331	0.131	0.081
DNA Repair	−0.0649	−0.0959	−0.0634	0.0242	−0.0208
Endolysosome	0.0392	−0.0269	0.0622	0.142	0.00694
Epigenetic	0.0407	0.0922	0.0459	0.149	0.0554
Immune Response	0.104	0.0554	0.0665	0.151	0.101
Lipid Metabolism	0.139	0.051	0.116	0.18	0.106
Metal Binding and Homeostasis	0.0453	−0.0655	−0.0166	0.0742	0.0596
Mitochondrial Metabolism	0.134	0.133	0.229	0.167	0.196
Myelination	0.117	−0.0472	−0.00146	0.519	0.335
Oxidative Stress	0.0213	0.0833	0.0258	0.236	0.071
Proteostasis	−0.0647	−0.121	−0.12	0.181	0.00789
RNA Spliceosome					
Structural Stabilization	0.0591	0.0554	0.0722	0.125	0.0146
Synapse	0.0477	0.00261	0.0143	0.233	0.0533
Tau Homeostasis					
Vasculature	0.0767	0.122	0.178	0.185	0.0536
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Human papillomavirus infection					
Apoptosis	0.125	0.18	0.0873	0.0872	0.021
APP Metabolism	0.0767	0.127	0.0563	−0.148	−0.137
Autophagy	0.000409	0.0524	−0.00118	0.136	−0.076
Cell Cycle	0.0158	0.0535	0.0245	0.167	0.0791
DNA Repair	0.111	0.182	0.0994	0.00923	−0.00326
Endolysosome	0.0191	−0.0235	−0.0236	0.2	0.0313
Epigenetic	0.116	0.17	0.0923	0.0353	0.0514
Immune Response	0.111	0.117	0.0641	0.0938	0.0563
Lipid Metabolism	0.176	0.227	0.2	0.0344	0.0328
Metal Binding and Homeostasis	0.0904	0.0958	0.121	0.0714	0.0393
Mitochondrial Metabolism	−0.00574	−0.0658	−0.0842	0.257	0.0733
Myelination	0.176	0.196	0.174	0.17	0.0163
Oxidative Stress	0.0411	0.0641	−0.0244	0.0552	0.0103
Proteostasis	0.15	0.175	0.128	0.121	0.0631
RNA Spliceosome					
Structural Stabilization	0.151	0.168	0.183	0.047	0.0368
Synapse	0.103	0.144	0.0872	0.0595	−0.0139
Tau Homeostasis					
Vasculature	0.167	0.251	0.19	0.0207	0.0218
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Salmonella infection					
Apoptosis	0.0752	0.117	0.0709	0.152	0.0213
APP Metabolism					
Autophagy	0.0287	0.104	0.132	0.0663	−0.143
Cell Cycle	−0.0595	−0.00131	−0.0484	0.228	2.86e−06
DNA Repair	0.00516	0.0684	0.0707	0.0478	−0.0192
Endolysosome	0.0479	0.0518	0.0493	0.188	−0.0539
Epigenetic	0.0372	0.144	0.0499	0.16	0.0297
Immune Response	0.0192	0.0175	−0.00993	0.2	0.0245
Lipid Metabolism	0.0863	0.0599	0.0599	0.21	0.0654
Metal Binding and Homeostasis	0.019	0.0121	−0.0453	0.172	0.0592
Mitochondrial Metabolism	0.0965	0.0465	0.134	0.258	0.128
Myelination	0.207	0.0978	0.096	0.318	0.202
Oxidative Stress	0.00199	0.149	0.0589	0.303	0.0792
Proteostasis	0.04	0.0469	0.0251	0.229	0.0364
RNA Spliceosome					
Structural Stabilization	−0.0821	−0.105	−0.0989	0.184	0.00724
Synapse	−0.0714	−0.0168	−0.0797	0.155	−0.0395
Tau Homeostasis					
Vasculature	−0.00946	0.0425	0.00126	0.208	0.025
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Yersinia infection					
Apoptosis	0.0956	0.254	0.206	0.086	−0.0303
APP Metabolism					
Autophagy	0.0556	0.214	0.201	0.189	−0.0669
Cell Cycle	−0.0344	0.139	0.15	0.0527	−0.142
DNA Repair	0.12	0.287	0.18	0.0654	−0.0327
Endolysosome	0.0158	0.0841	0.0545	0.2	0.0394
Epigenetic	0.105	0.296	0.216	0.117	0.0355
Immune Response	0.0753	0.151	0.114	0.154	0.0408
Lipid Metabolism	0.117	0.195	0.196	0.18	0.112
Metal Binding and Homeostasis	0.155	0.272	0.25	0.0786	−0.0194
Mitochondrial Metabolism	0.0378	0.151	0.166	0.167	0.0494
Myelination					
Oxidative Stress	−0.0273	0.181	0.124	0.246	0.00294
Proteostasis	0.0453	0.193	0.129	0.202	0.0373
RNA Spliceosome					
Structural Stabilization	−0.0127	0.0504	0.0373	0.0904	0.00101
Synapse	0.0327	0.129	0.107	0.165	0.00274
Tau Homeostasis					
Vasculature	0.0619	0.179	0.142	0.102	0.00363
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Pertussis					
Apoptosis	0.0257	0.048	−0.00493	0.171	0.0364
APP Metabolism					
Autophagy	0.0362	0.141	0.129	0.127	0.0206
Cell Cycle	−0.182	−0.113	−0.124	0.151	−0.0442
DNA Repair					
Endolysosome	0.0682	0.154	0.0974	0.204	−0.058
Epigenetic	0.016	0.284	0.146	0.109	−0.00569
Immune Response	−0.0235	0.00729	−0.0575	0.0978	0.0252
Lipid Metabolism	−0.0202	0.0489	−0.0533	0.115	0.0308
Metal Binding and Homeostasis	−0.0722	0.0732	−0.0802	0.0397	−0.0909
Mitochondrial Metabolism	−0.0572	0.106	0.109	0.0314	−0.0839
Myelination					
Oxidative Stress	−0.0969	0.178	0.0184	0.159	−0.0936
Proteostasis	0.0266	0.103	0.0211	0.136	0.0461
RNA Spliceosome					
Structural Stabilization	−0.103	−0.0607	−0.107	0.165	−0.0398
Synapse	−0.101	−0.0155	−0.0462	0.207	0.0193
Tau Homeostasis					
Vasculature	−0.0868	−0.0301	−0.119	0.206	−0.0061
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Legionellosis					
Apoptosis	0.0513	0.115	0.0731	0.208	0.155
APP Metabolism					
Autophagy	-0.116	-0.016	-0.0142	0.205	0.0258
Cell Cycle					
DNA Repair					
Endolysosome	-0.0486	0.0565	0.113	0.246	0.0109
Epigenetic	0.192	0.319	0.125	0.454	0.334
Immune Response	-0.0658	-0.0058	-0.0581	0.162	0.0976
Lipid Metabolism	0.025	0.0752	0.0574	0.223	0.146
Metal Binding and Homeostasis					
Mitochondrial Metabolism	0.253	0.351	0.431	0.335	0.217
Myelination					
Oxidative Stress					
Proteostasis	-0.0944	-0.0926	-0.118	0.245	0.132
RNA Spliceosome					
Structural Stabilization	-0.0536	-0.0438	-0.0949	0.175	0.095
Synapse	0.00813	0.109	0.0899	0.374	0.122
Tau Homeostasis					
Vasculature	0.0873	0.0952	0.146	0.443	0.23
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Staphylococcus aureus infection

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0741	0.0904	−0.129	0.0204	0.0384
Epigenetic					
Immune Response	−0.00346	−0.00337	−0.117	0.154	0.111
Lipid Metabolism	0.0999	0.0769	0.0197	0.0222	0.0271
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0883	−0.0196	−0.149	0.0954	0.0505
RNA Spliceosome					
Structural Stabilization	−0.0596	−0.0749	−0.143	0.0587	0.0319
Synapse	0.0239	−0.0313	−0.0862	0.278	0.151
Tau Homeostasis					
Vasculature	0.063	0.0489	−0.0556	0.249	0.102
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Tuberculosis					
Apoptosis	0.1	0.0889	0.0175	0.193	0.09
APP Metabolism	−0.0377	−0.0125	−0.0144	0.0185	0.0582
Autophagy	0.061	0.0274	0.0553	0.236	0.066
Cell Cycle	−0.0578	−0.0538	0.00511	0.134	0.0741
DNA Repair	0.145	0.0803	0.0612	0.115	0.194
Endolysosome	0.0365	0.00821	0.0389	0.241	0.023
Epigenetic	0.12	0.205	0.135	0.158	0.054
Immune Response	0.0234	0.0231	0.0042	0.138	0.0179
Lipid Metabolism	0.067	0.0252	0.0198	0.171	0.0387
Metal Binding and Homeostasis	0.00571	0.0597	−0.0198	−0.0218	−0.0348
Mitochondrial Metabolism	0.044	−0.0174	0.0374	0.18	0.0764
Myelination	0.121	0.112	0.101	0.377	0.213
Oxidative Stress	0.106	0.175	0.116	0.202	0.0724
Proteostasis	0.0453	0.0188	0.0283	0.164	0.0571
RNA Spliceosome					
Structural Stabilization	0.0172	−0.0328	−0.0672	0.158	0.0295
Synapse	0.0258	0.039	0.0248	0.177	−0.01
Tau Homeostasis					
Vasculature	0.00279	0.0269	0.0437	0.205	0.0272
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Bacterial invasion of epithelial cells					
Apoptosis	0.083	0.179	0.0978	0.0685	−0.115
APP Metabolism					
Autophagy	−0.054	0.134	0.0565	0.0736	−0.194
Cell Cycle	−0.129	0.0295	−0.0309	−0.000115	−0.176
DNA Repair					
Endolysosome	0.0113	0.155	0.0348	0.0689	−0.121
Epigenetic	−0.00954	0.191	0.0243	0.0243	−0.0902
Immune Response	0.0706	0.133	0.092	0.142	−0.0198
Lipid Metabolism	0.203	0.461	0.277	0.0486	−0.0752
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0568	0.198	0.0576	0.205	0.0301
RNA Spliceosome					
Structural Stabilization	−0.0446	0.0175	−0.00641	0.0556	−0.0994
Synapse	−0.0345	0.0547	0.0188	0.0377	−0.0837
Tau Homeostasis					
Vasculature	0.113	0.23	0.116	0.139	−0.0342
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Amoebiasis					
Apoptosis	0.0318	0.0592	0.121	0.0304	0.0363
APP Metabolism					
Autophagy	0.017	−0.0564	0.104	0.109	0.00779
Cell Cycle					
DNA Repair					
Endolysosome	0.0228	−0.119	0.137	0.27	−0.00947
Epigenetic	0.276	0.378	0.337	0.13	0.167
Immune Response	0.108	0.0634	0.146	0.0543	0.052
Lipid Metabolism	0.111	0.149	0.25	−0.00663	−0.0676
Metal Binding and Homeostasis	0.0334	0.031	0.0481	−0.0776	−0.0144
Mitochondrial Metabolism	0.0261	0.0636	0.0863	−0.0709	−0.236
Myelination					
Oxidative Stress	−0.0727	0.0528	−0.124	0.135	0.0438
Proteostasis	0.225	0.176	0.223	0.092	0.146
RNA Spliceosome					
Structural Stabilization	0.199	0.199	0.263	−0.0109	0.0419
Synapse	0.16	0.129	0.196	0.058	0.0413
Tau Homeostasis					
Vasculature	0.221	0.263	0.298	0.064	0.0589
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

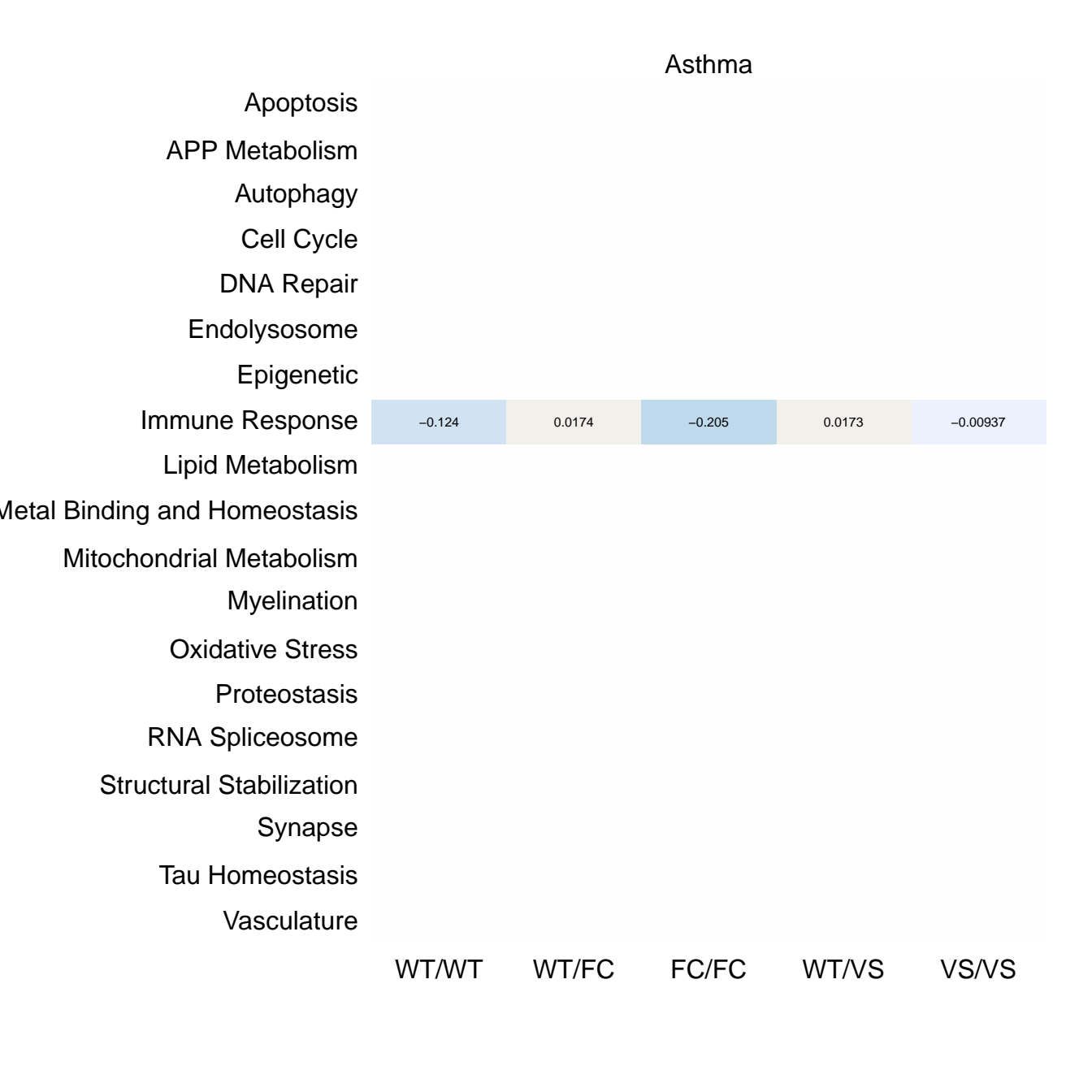
Malaria					
Apoptosis	0.0337	−0.000565	0.0495	0.0549	−0.0539
APP Metabolism					
Autophagy	0.124	0.221	0.23	−0.0084	−0.0769
Cell Cycle					
DNA Repair					
Endolysosome	0.0464	0.0677	0.178	−0.0451	−0.0657
Epigenetic	0.0127	0.0552	−0.0095	0.11	0.0152
Immune Response	0.0741	0.0299	0.098	0.00803	−0.0303
Lipid Metabolism	0.0919	0.00679	0.117	0.012	−0.0286
Metal Binding and Homeostasis	0.0227	0.219	0.238	−0.231	−0.0938
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0966	0.14	0.158	−0.126	−0.0727
RNA Spliceosome					
Structural Stabilization	0.0963	0.0289	0.103	0.0161	−0.0171
Synapse	0.1	0.202	0.184	0.00782	−0.0585
Tau Homeostasis					
Vasculature	0.0454	0.0393	0.152	−0.0213	−0.055
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Toxoplasmosis					
Apoptosis	0.223	0.188	0.166	0.265	0.0681
APP Metabolism					
Autophagy	0.128	0.141	0.136	0.281	0.0312
Cell Cycle	0.13	0.149	0.198	0.293	0.0299
DNA Repair	0.202	0.232	0.24	0.16	0.0913
Endolysosome	0.0512	0.125	0.0984	0.198	−0.0752
Epigenetic	0.267	0.37	0.283	0.239	0.0751
Immune Response	0.111	0.118	0.11	0.158	0.0192
Lipid Metabolism	0.148	0.141	0.142	0.184	0.0295
Metal Binding and Homeostasis	0.133	0.226	0.156	0.0862	−0.135
Mitochondrial Metabolism	0.289	0.271	0.335	0.317	0.181
Myelination	0.504	0.442	0.419	0.421	0.282
Oxidative Stress	0.176	0.283	0.188	0.354	0.129
Proteostasis	0.144	0.111	0.145	0.207	0.0243
RNA Spliceosome					
Structural Stabilization	0.211	0.278	0.268	0.115	0.0182
Synapse	0.156	0.237	0.216	0.157	−0.0265
Tau Homeostasis					
Vasculature	0.12	0.238	0.195	0.115	−0.0527
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Leishmaniasis					
Apoptosis	0.0727	0.155	0.0462	0.132	−0.0474
APP Metabolism	−0.0821	0.119	0.0501	−0.0527	−0.0333
Autophagy	0.0337	0.037	0.0273	0.19	−0.0158
Cell Cycle	−0.103	0.0609	0.0769	−0.026	−0.144
DNA Repair					
Endolysosome	−0.0269	0.064	0.0108	0.11	−0.0876
Epigenetic	0.0477	0.258	0.0871	0.163	0.00638
Immune Response	0.00734	0.0888	0.00271	0.118	−0.0366
Lipid Metabolism	0.066	0.168	0.0615	0.124	−0.0392
Metal Binding and Homeostasis	6.52e−05	0.204	0.0522	−0.116	−0.243
Mitochondrial Metabolism	0.0596	−0.032	0.0335	0.19	0.0808
Myelination					
Oxidative Stress	−0.00608	0.236	0.0596	0.184	−0.0366
Proteostasis	0.00976	0.208	0.0422	0.182	−0.0939
RNA Spliceosome					
Structural Stabilization	−0.00107	0.177	0.0629	−0.0666	−0.203
Synapse	0.0612	0.217	0.169	0.0945	−0.0718
Tau Homeostasis					
Vasculature	0.013	0.165	0.124	0.0307	−0.106
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Chagas disease					
Apoptosis	0.134	0.14	0.104	0.224	0.0404
APP Metabolism					
Autophagy	0.184	0.245	0.268	0.325	0.0714
Cell Cycle	-0.0214	0.0292	0.0997	0.316	-0.00376
DNA Repair					
Endolysosome	0.122	0.163	0.101	0.284	-0.0117
Epigenetic	0.181	0.327	0.249	0.211	0.0268
Immune Response	0.0899	0.114	0.0926	0.172	0.0408
Lipid Metabolism	0.189	0.184	0.197	0.196	0.0836
Metal Binding and Homeostasis	0.0784	0.143	0.117	0.0684	-0.0805
Mitochondrial Metabolism	0.0658	0.0944	0.23	0.138	-0.036
Myelination					
Oxidative Stress	0.0278	0.285	0.181	0.205	-0.0331
Proteostasis	0.0546	0.153	0.0619	0.178	-0.0257
RNA Spliceosome					
Structural Stabilization	0.161	0.116	0.156	0.294	0.128
Synapse	0.0823	0.0751	0.074	0.233	0.0221
Tau Homeostasis					
Vasculature	0.178	0.166	0.161	0.269	0.0776
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

African trypanosomiasis					
Apoptosis	−0.134	−0.164	−0.0508	0.0175	−0.112
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.228	−0.0147	−0.0111	−0.0394	−0.248
Epigenetic					
Immune Response	−0.193	−0.102	−0.0821	−0.0773	−0.175
Lipid Metabolism	−0.0993	−0.152	0.00633	−0.0977	−0.135
Metal Binding and Homeostasis	−0.212	0.00329	0.0802	−0.325	−0.315
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.159	−0.0206	0.0392	−0.0439	−0.105
RNA Spliceosome					
Structural Stabilization	−0.225	−0.0919	0.00138	−0.219	−0.178
Synapse	−0.13	0.0272	0.149	−0.148	−0.225
Tau Homeostasis					
Vasculature	−0.279	−0.0562	−0.0298	−0.28	−0.259
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

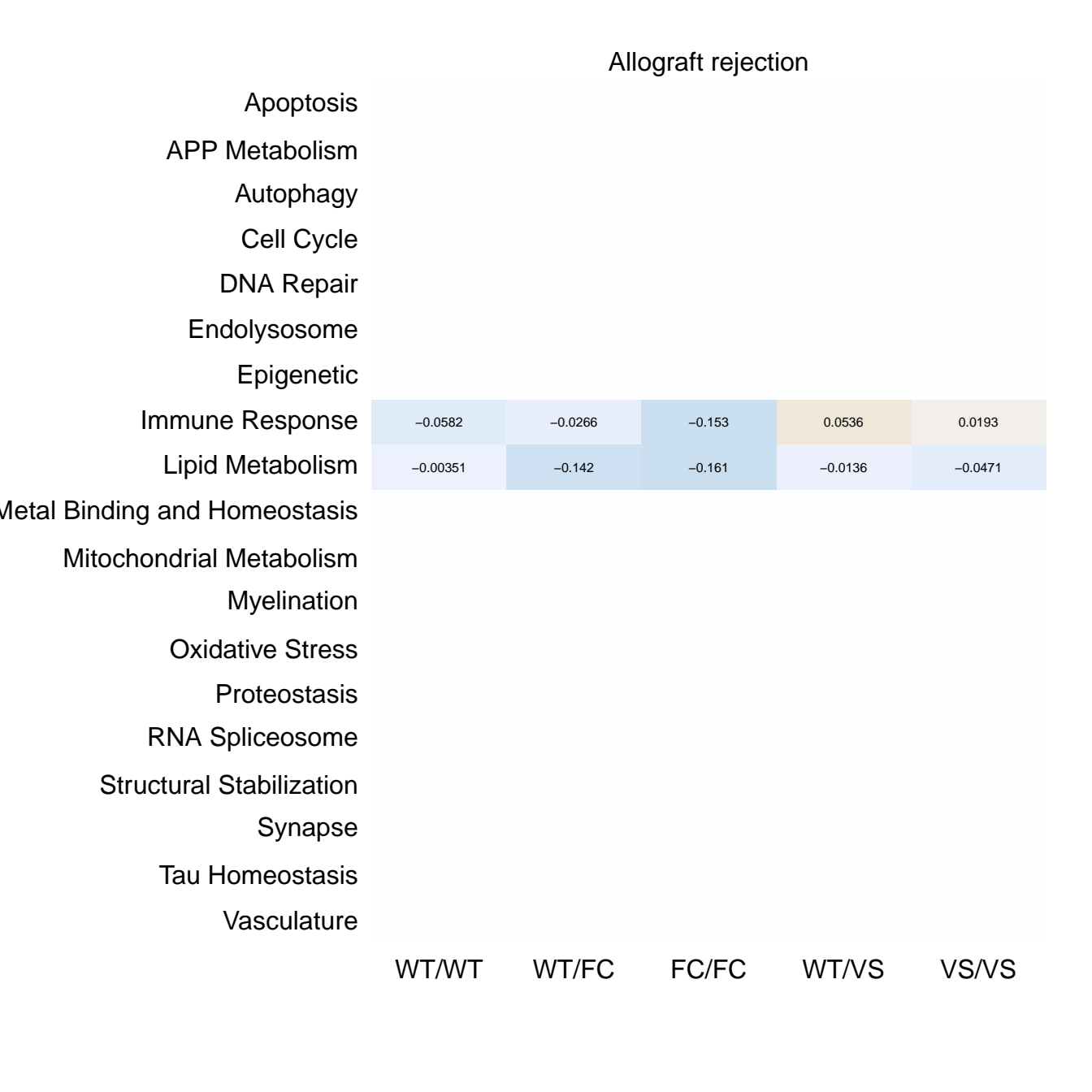


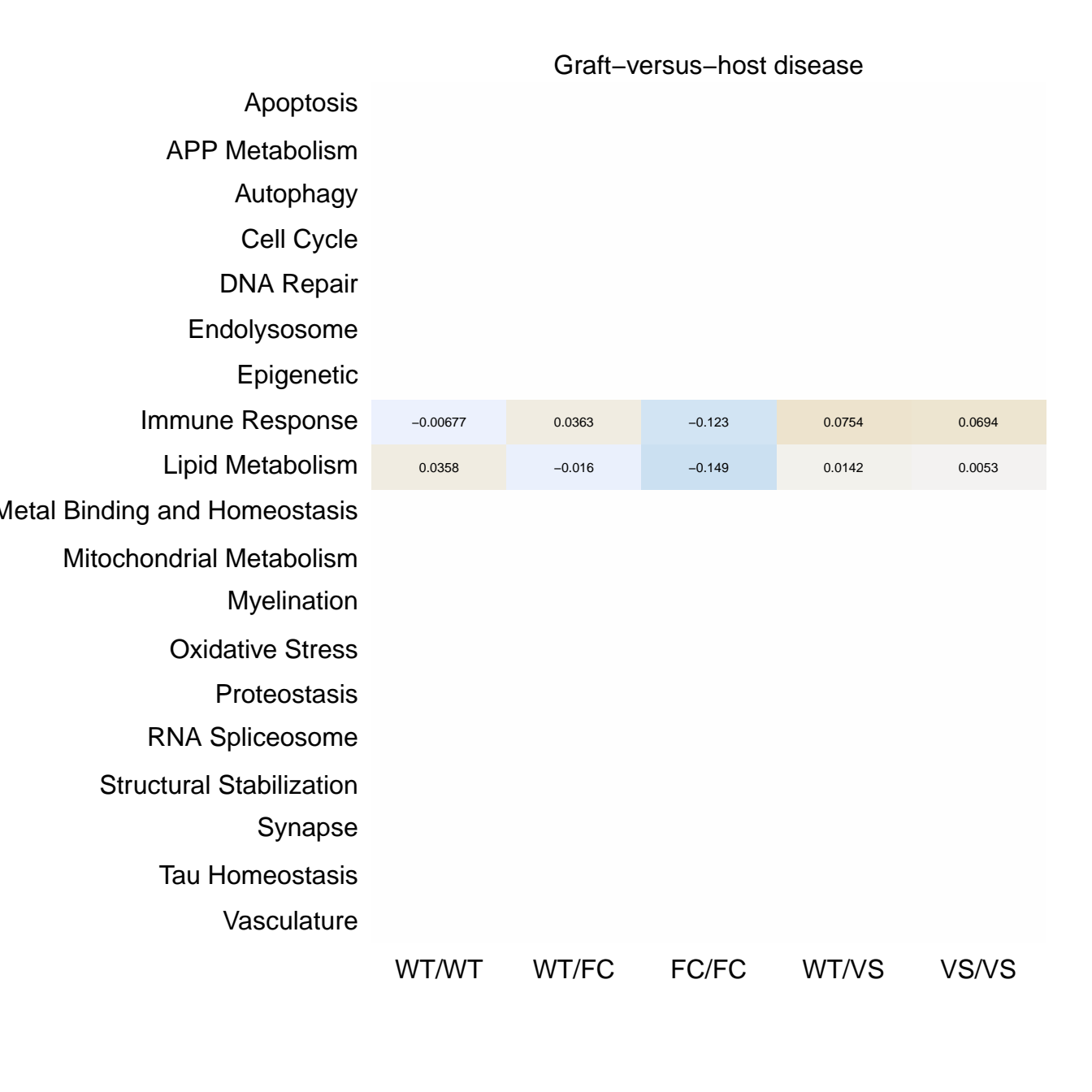
Systemic lupus erythematosus					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	−0.0287	−0.108	−0.0782	0.29	0.255
Immune Response	−0.0272	0.0243	−0.04	0.126	0.0957
Lipid Metabolism	0.0136	−0.0195	−0.0448	0.0572	−0.00157
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0579	0.0721	−0.0189	−0.0659	−0.0934
RNA Spliceosome					
Structural Stabilization					
Synapse	−0.0298	0.00727	0.011	0.199	0.18
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Rheumatoid arthritis					
Apoptosis	0.0736	0.0436	0.0108	0.0239	0.0576
APP Metabolism					
Autophagy	-0.106	-0.26	-0.162	0.219	0.0271
Cell Cycle					
DNA Repair					
Endolysosome	-0.151	-0.209	-0.219	0.189	0.0129
Epigenetic	0.00557	0.0735	0.0285	0.102	0.154
Immune Response	0.0503	0.0389	-0.0272	0.0867	0.087
Lipid Metabolism	0.0469	0.0434	-0.062	-0.103	-0.0441
Metal Binding and Homeostasis	-0.193	-0.123	-0.157	-0.0245	0.0201
Mitochondrial Metabolism	-0.195	-0.348	-0.323	0.268	0.0113
Myelination					
Oxidative Stress					
Proteostasis	0.0834	0.145	0.12	0.153	0.0169
RNA Spliceosome					
Structural Stabilization	0.138	0.0246	0.0149	0.0344	0.0724
Synapse	-0.0813	-0.113	-0.133	0.104	-0.0574
Tau Homeostasis					
Vasculature	0.108	0.143	0.0865	0.0519	0.0421
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Autoimmune thyroid disease					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	-0.011	0.0414	-0.126	0.032	0.0514
Lipid Metabolism	0.0436	-0.0506	-0.158	-0.0299	-0.0441
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Inflammatory bowel disease					
Apoptosis	0.0569	0.146	0.0319	0.0143	−0.0209
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0913	−0.0302	−0.0819	0.0163	−0.0294
Epigenetic	0.106	0.218	0.0816	0.0642	0.0574
Immune Response	0.0202	0.0753	0.0479	0.024	0.025
Lipid Metabolism	0.0515	0.0655	−0.00386	−0.0654	−0.00255
Metal Binding and Homeostasis	0.121	0.249	0.0683	−0.175	−0.162
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.12	0.123	0.0643	0.124	−0.00513
RNA Spliceosome					
Structural Stabilization	0.046	−0.0858	−0.0706	0.0428	0.0392
Synapse	0.185	0.14	0.13	0.127	0.00408
Tau Homeostasis					
Vasculature	0.11	0.234	0.0819	0.131	−0.00143
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS





Primary immunodeficiency					
Apoptosis	-0.0473	0.0333	0.0194	-0.0946	-0.0087
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.0581	-0.0471	0.00936	0.0155	0.00206
Lipid Metabolism	0.000193	-0.104	-0.101	0.0796	0.0926
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.118	-0.000201	0.0858	-0.159	-0.12
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Alzheimer disease					
Apoptosis	0.0016	0.0823	0.00788	0.0376	-0.0366
APP Metabolism	0.104	0.299	0.115	-0.00331	-0.0454
Autophagy	0.0987	0.232	0.257	0.114	-0.0102
Cell Cycle	-0.0995	-0.0416	-0.0883	0.102	0.0327
DNA Repair	0.00358	0.0426	-0.0144	0.0887	0.00568
Endolysosome	0.0711	0.143	0.0767	0.134	-0.0255
Epigenetic	0.0809	0.159	0.0883	0.136	0.0546
Immune Response	0.0546	0.123	0.0522	0.0941	0.0154
Lipid Metabolism	0.114	0.171	0.155	0.0931	0.0117
Metal Binding and Homeostasis	-0.0979	-0.129	-0.146	0.0803	-0.0303
Mitochondrial Metabolism	-0.274	-0.436	-0.424	0.103	-0.0374
Myelination	0.0276	0.117	0.104	0.237	0.0504
Oxidative Stress	-0.156	-0.201	-0.224	0.099	-0.0241
Proteostasis	-0.0271	-0.059	-0.0832	0.156	0.0021
RNA Spliceosome					
Structural Stabilization	0.0739	0.127	0.0659	0.109	0.00292
Synapse	0.0342	0.122	0.0502	0.038	-0.037
Tau Homeostasis					
Vasculature	0.0785	0.265	0.14	0.025	-0.0834
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Parkinson disease					
Apoptosis	−0.131	−0.183	−0.201	0.203	−0.0116
APP Metabolism					
Autophagy	−0.108	−0.103	−0.215	0.209	0.0279
Cell Cycle	−0.171	−0.261	−0.302	0.382	0.176
DNA Repair	−0.215	−0.43	−0.425	0.206	0.08
Endolysosome	−0.0912	−0.131	−0.224	0.296	0.00708
Epigenetic	−0.118	−0.182	−0.225	0.282	−0.0121
Immune Response	−0.0931	−0.164	−0.185	0.236	0.055
Lipid Metabolism	−0.111	−0.223	−0.245	0.132	0.005
Metal Binding and Homeostasis	−0.148	−0.252	−0.316	0.224	0.0312
Mitochondrial Metabolism	−0.382	−0.586	−0.607	0.149	−0.0363
Myelination					
Oxidative Stress	−0.293	−0.394	−0.423	0.166	−0.0278
Proteostasis	−0.166	−0.331	−0.343	0.302	0.0256
RNA Spliceosome					
Structural Stabilization	−0.122	−0.157	−0.269	0.273	0.0533
Synapse	−0.0882	−0.151	−0.207	0.227	0.0578
Tau Homeostasis					
Vasculature	−0.00657	−0.0829	−0.125	0.227	−0.00455
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Amyotrophic lateral sclerosis					
Apoptosis	−0.0224	−0.0185	−0.00985	0.193	−0.0113
APP Metabolism	−0.203	−0.0774	−0.156	−0.411	−0.157
Autophagy	0.0531	0.15	0.133	0.275	−0.00197
Cell Cycle	−0.106	−0.169	−0.133	0.209	0.0598
DNA Repair	−0.0971	−0.178	−0.157	0.0477	0.0789
Endolysosome	−0.0477	−0.0145	−0.0268	0.232	−0.0796
Epigenetic	−0.0142	−0.0194	−0.0507	0.183	0.0239
Immune Response	−0.0242	−0.0984	−0.0687	0.317	0.0571
Lipid Metabolism	−0.0319	−0.0812	−0.0406	0.208	0.0296
Metal Binding and Homeostasis	−0.175	−0.272	−0.308	0.189	0.0373
Mitochondrial Metabolism	−0.318	−0.54	−0.525	0.191	0.00382
Myelination	0.0935	0.148	0.116	0.185	−0.0168
Oxidative Stress	−0.248	−0.354	−0.346	0.175	0.0514
Proteostasis	−0.122	−0.248	−0.213	0.254	0.0347
RNA Spliceosome	−0.0377	0.0272	−0.0156	−0.314	−0.0853
Structural Stabilization	−0.046	−0.0787	−0.0967	0.16	−0.0132
Synapse	−0.0235	−0.013	−0.0164	0.117	−0.00758
Tau Homeostasis					
Vasculature	−0.0956	−0.081	−0.102	0.184	−0.0021
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Huntington disease					
Apoptosis	−0.0839	−0.0848	−0.0747	0.0586	−0.0377
APP Metabolism	−0.112	0.224	0.0912	−0.378	−0.224
Autophagy	0.0961	0.242	0.248	0.0611	−0.056
Cell Cycle	−0.206	−0.189	−0.239	0.152	0.0228
DNA Repair	−0.0303	−0.00143	−0.065	−0.0249	−0.0274
Endolysosome	0.00935	0.107	0.097	0.175	−0.0449
Epigenetic	0.0664	0.127	0.141	0.0285	−0.049
Immune Response	−0.0447	0.0281	0.00389	0.0354	−0.0676
Lipid Metabolism	−0.00286	0.00974	0.0793	0.13	0.0162
Metal Binding and Homeostasis	−0.216	−0.268	−0.279	0.105	−0.000419
Mitochondrial Metabolism	−0.345	−0.557	−0.524	0.118	−0.0372
Myelination					
Oxidative Stress	−0.317	−0.374	−0.393	−0.00163	−0.0634
Proteostasis	−0.143	−0.27	−0.233	0.219	0.0402
RNA Spliceosome					
Structural Stabilization	−0.054	−0.158	−0.121	0.172	0.0599
Synapse	−0.0276	0.0249	0.03	−0.0164	−0.0525
Tau Homeostasis					
Vasculature	0.00585	−0.0178	0.0873	0.0582	−0.014
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Spinocerebellar ataxia					
Apoptosis	−0.038	0.0735	0.123	−1.67e−05	−0.142
APP Metabolism					
Autophagy	0.144	0.279	0.373	0.175	−0.00323
Cell Cycle	0.0131	0.16	0.333	−0.00379	−0.0567
DNA Repair					
Endolysosome	0.0294	0.357	0.373	−0.16	−0.253
Epigenetic	0.176	0.339	0.326	0.0205	−0.0605
Immune Response	0.0266	0.151	0.241	0.00191	−0.0645
Lipid Metabolism	0.137	0.226	0.374	0.0385	−0.0557
Metal Binding and Homeostasis	−0.0328	0.15	0.283	−0.234	−0.208
Mitochondrial Metabolism	0.0998	0.166	0.233	0.0131	−0.0958
Myelination					
Oxidative Stress	0.0977	0.206	0.206	0.147	−0.0113
Proteostasis	−0.0837	−0.153	−0.0927	0.144	−0.0276
RNA Spliceosome					
Structural Stabilization	0.0701	0.184	0.28	−0.102	−0.106
Synapse	0.0538	0.188	0.287	−0.162	−0.198
Tau Homeostasis					
Vasculature	0.206	0.449	0.473	−0.119	−0.147
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Prion disease					
Apoptosis	−0.13	−0.118	−0.135	0.0946	−0.0815
APP Metabolism					
Autophagy	−0.0945	−0.119	−0.146	0.187	0.0111
Cell Cycle	−0.133	−0.182	−0.212	0.254	0.117
DNA Repair	−0.112	−0.144	−0.0977	0.0264	0.0165
Endolysosome	−0.115	−0.173	−0.193	0.346	−0.00796
Epigenetic	0.0381	0.146	0.128	0.0792	0.0273
Immune Response	−0.102	−0.098	−0.132	0.184	0.0324
Lipid Metabolism	−0.0678	−0.0387	−0.0849	0.115	−0.0165
Metal Binding and Homeostasis	−0.226	−0.31	−0.362	0.125	−0.0126
Mitochondrial Metabolism	−0.366	−0.598	−0.578	0.127	−0.0308
Myelination					
Oxidative Stress	−0.312	−0.399	−0.384	0.106	−0.0771
Proteostasis	−0.151	−0.298	−0.292	0.229	0.0264
RNA Spliceosome					
Structural Stabilization	−0.012	−0.024	−0.0704	0.226	0.0669
Synapse	−0.071	−0.0384	−0.0897	0.0829	−0.0121
Tau Homeostasis					
Vasculature	−0.0411	0.0276	−0.0011	0.115	0.000917
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

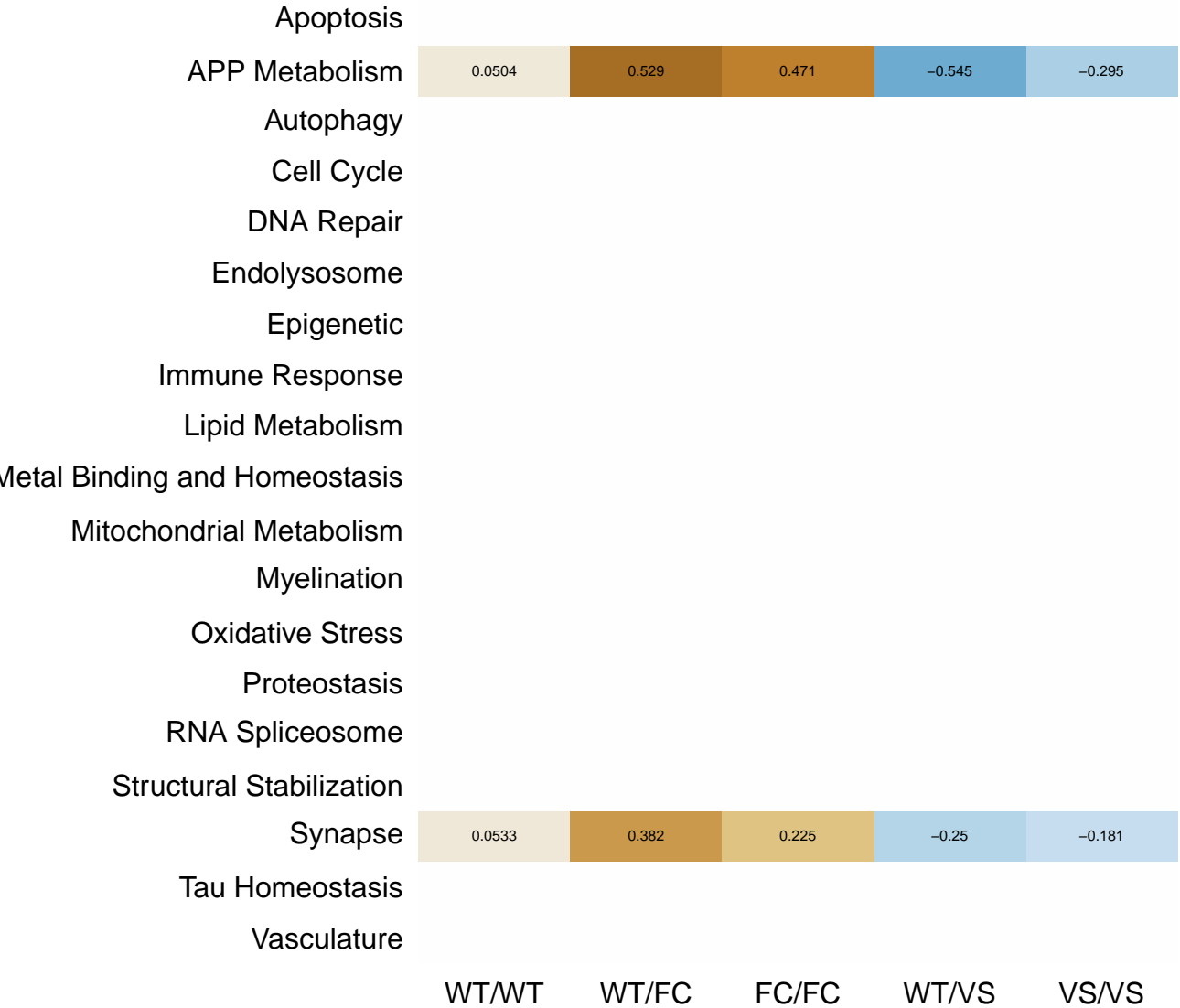
Pathways of neurodegeneration – multiple diseases					
Apoptosis	−0.0219	0.00736	−0.0359	0.102	−0.00857
APP Metabolism	−0.0222	0.195	0.0357	−0.157	−0.118
Autophagy	0.0337	0.135	0.109	0.199	−0.0209
Cell Cycle	−0.146	−0.0608	−0.105	0.0935	0.0263
DNA Repair	−0.0418	−0.0641	−0.0589	0.119	0.0671
Endolysosome	0.00553	0.0601	0.0201	0.187	−0.0419
Epigenetic	0.0425	0.12	0.0222	0.116	0.00746
Immune Response	−0.0182	0.00289	−0.0393	0.148	0.00256
Lipid Metabolism	0.0327	0.0486	0.0435	0.142	0.0167
Metal Binding and Homeostasis	−0.142	−0.21	−0.204	0.102	0.00456
Mitochondrial Metabolism	−0.235	−0.381	−0.371	0.143	−0.0128
Myelination	0.0185	0.126	0.0417	0.188	0.00231
Oxidative Stress	−0.162	−0.228	−0.236	0.142	0.00348
Proteostasis	−0.0475	−0.0899	−0.102	0.191	0.0275
RNA Spliceosome					
Structural Stabilization	0.0153	0.0307	−0.00409	0.111	0.0043
Synapse	0.0221	0.0866	0.0527	0.0387	−0.0237
Tau Homeostasis					
Vasculature	−0.0159	0.128	0.0253	0.0438	−0.0459
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cocaine addiction					
Apoptosis	−0.0227	0.156	−0.0706	0.227	0.104
APP Metabolism					
Autophagy					
Cell Cycle	−0.00903	0.184	−0.0919	0.243	0.00263
DNA Repair					
Endolysosome					
Epigenetic	0.163	0.246	0.169	0.26	0.194
Immune Response	0.0135	0.197	−0.0852	0.0581	−0.00328
Lipid Metabolism	0.177	0.419	0.0913	0.126	0.0624
Metal Binding and Homeostasis	0.13	0.328	0.131	0.0667	−0.0652
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.128	0.202	0.0766	0.204	0.114
RNA Spliceosome					
Structural Stabilization	0.0695	0.144	0.0164	0.208	0.106
Synapse	0.0766	0.185	−0.0126	0.11	0.0388
Tau Homeostasis					
Vasculature	0.0652	0.0754	−0.0538	0.384	0.176
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Amphetamine addiction					
Apoptosis	−0.216	−0.0539	0.0169	−0.152	−0.183
APP Metabolism					
Autophagy					
Cell Cycle	−0.224	0.0348	−0.0774	−0.137	−0.165
DNA Repair					
Endolysosome	−0.117	0.274	0.136	−0.264	−0.135
Epigenetic	−0.0351	0.152	0.127	−0.00155	−0.0223
Immune Response	−0.208	0.0857	−0.0163	−0.301	−0.244
Lipid Metabolism	0.00654	0.348	0.0335	−0.0884	−0.119
Metal Binding and Homeostasis	−0.0871	0.123	0.0215	−0.134	−0.146
Mitochondrial Metabolism	−0.105	−0.0854	−0.186	−0.151	−0.162
Myelination					
Oxidative Stress					
Proteostasis	0.0565	0.166	0.089	0.0769	0.00828
RNA Spliceosome					
Structural Stabilization	−0.212	−0.106	−0.107	−0.0821	−0.0645
Synapse	−0.0555	0.0839	−0.0103	−0.057	−0.0759
Tau Homeostasis					
Vasculature	−0.113	0.116	0.0341	−0.101	−0.0863
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Morphine addiction					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.155	0.332	0.316	0.133	0.0435
Epigenetic					
Immune Response	0.056	0.185	0.13	-0.159	-0.137
Lipid Metabolism	0.0996	0.328	0.226	-0.156	-0.149
Metal Binding and Homeostasis	0.0683	0.301	0.201	-0.123	-0.124
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.04	0.265	0.134	-0.00969	-0.111
RNA Spliceosome					
Structural Stabilization	0.024	0.331	0.138	-0.0704	-0.122
Synapse	-0.00574	0.257	0.13	-0.181	-0.102
Tau Homeostasis					
Vasculature	0.128	0.298	0.16	-0.055	-0.00547
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Nicotine addiction



Alcoholism					
Apoptosis	−0.0775	−0.13	−0.134	0.125	0.0442
APP Metabolism					
Autophagy					
Cell Cycle	−0.105	−0.0864	−0.144	0.223	0.0599
DNA Repair					
Endolysosome	−0.106	0.155	0.0258	0.0908	−0.105
Epigenetic	0.0138	0.0196	−0.0484	0.248	0.184
Immune Response	−0.0545	0.0747	−0.0817	0.0562	−0.0174
Lipid Metabolism	0.0423	0.125	−0.0937	0.217	0.097
Metal Binding and Homeostasis	0.0335	0.137	0.00138	0.114	0.0263
Mitochondrial Metabolism	−0.0222	0.02	−0.0744	0.0802	−0.00295
Myelination					
Oxidative Stress	−0.0299	0.0412	−0.0619	0.205	0.0557
Proteostasis	0.0542	0.0338	−0.0396	0.245	0.133
RNA Spliceosome					
Structural Stabilization	−0.0814	−0.0374	−0.103	0.179	0.0485
Synapse	−0.00801	0.0607	−0.0397	0.122	0.0234
Tau Homeostasis					
Vasculature	0.0236	0.0722	−0.0788	0.15	0.112
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Lipid and atherosclerosis					
Apoptosis	0.13	0.171	0.158	0.175	0.074
APP Metabolism	0.128	0.217	0.139	−0.0325	0.0161
Autophagy	0.054	0.16	0.135	0.159	0.0401
Cell Cycle	−0.0826	0.00693	−0.0286	0.219	0.045
DNA Repair	0.139	0.132	0.145	0.217	0.156
Endolysosome	0.0465	0.0815	0.054	0.236	0.0692
Epigenetic	0.14	0.227	0.155	0.224	0.122
Immune Response	0.0798	0.0862	0.0694	0.171	0.101
Lipid Metabolism	0.14	0.122	0.146	0.17	0.113
Metal Binding and Homeostasis	0.0986	0.19	0.153	0.0693	0.00165
Mitochondrial Metabolism	0.171	0.2	0.213	0.162	0.0958
Myelination	0.108	0.0994	0.12	0.395	0.203
Oxidative Stress	0.1	0.219	0.136	0.276	0.134
Proteostasis	0.0961	0.17	0.146	0.191	0.0999
RNA Spliceosome					
Structural Stabilization	0.075	0.127	0.121	0.185	0.0853
Synapse	0.0243	0.0943	0.0735	0.111	−0.00536
Tau Homeostasis					
Vasculature	0.0775	0.164	0.143	0.16	0.0457
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Fluid shear stress and atherosclerosis					
Apoptosis	0.11	0.196	0.204	0.177	0.0289
APP Metabolism					
Autophagy	0.00223	0.112	0.0788	0.167	−0.055
Cell Cycle	−0.0188	0.0331	0.0633	0.186	0.08
DNA Repair	0.0996	0.106	0.0708	0.165	0.0966
Endolysosome	0.104	0.0496	0.0896	0.276	0.0918
Epigenetic	0.102	0.262	0.182	0.175	0.0883
Immune Response	0.0622	0.082	0.084	0.201	0.0888
Lipid Metabolism	0.135	0.153	0.189	0.171	0.0874
Metal Binding and Homeostasis	0.00323	0.124	0.0991	0.135	0.00325
Mitochondrial Metabolism	0.0719	0.0784	0.126	0.255	0.0529
Myelination	0.0848	0.0679	0.0711	0.522	0.265
Oxidative Stress	−0.0094	0.067	−0.0135	0.268	0.0548
Proteostasis	0.0481	0.0335	0.0417	0.308	0.132
RNA Spliceosome					
Structural Stabilization	0.0599	0.094	0.0652	0.201	0.0928
Synapse	0.0515	0.108	0.106	0.216	0.0301
Tau Homeostasis					
Vasculature	0.00323	0.0871	0.0694	0.121	0.000999
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hypertrophic cardiomyopathy					
Apoptosis	0.174	0.314	0.232	0.0136	−0.0675
APP Metabolism					
Autophagy	0.186	0.351	0.325	−0.0453	−0.246
Cell Cycle					
DNA Repair					
Endolysosome	0.208	0.241	0.154	0.137	0.203
Epigenetic	0.23	0.31	0.25	0.168	0.0435
Immune Response	0.203	0.28	0.259	−0.0215	−0.00637
Lipid Metabolism	0.078	0.169	0.196	−0.106	−0.103
Metal Binding and Homeostasis	0.0917	0.238	0.235	−0.22	−0.109
Mitochondrial Metabolism	0.219	0.439	0.329	−0.0826	−0.122
Myelination					
Oxidative Stress					
Proteostasis	0.102	0.216	0.201	−0.115	−0.119
RNA Spliceosome					
Structural Stabilization	0.0565	0.118	0.0844	−0.0402	−0.0723
Synapse	0.123	0.229	0.226	−0.117	−0.0728
Tau Homeostasis					
Vasculature	0.0457	0.183	0.106	−0.146	−0.121
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Arrhythmogenic right ventricular cardiomyopathy					
Apoptosis	0.0574	0.321	0.0706	−0.0454	−0.167
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.146	0.385	0.0805	0.162	0.0605
Immune Response	0.134	0.305	0.216	−0.122	−0.0832
Lipid Metabolism	0.108	0.283	0.284	−0.162	−0.0937
Metal Binding and Homeostasis	0.125	0.327	0.276	−0.206	−0.11
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.112	0.257	0.168	−0.0736	−0.0951
RNA Spliceosome					
Structural Stabilization	0.131	0.224	0.208	−0.0271	−0.0895
Synapse	0.104	0.236	0.191	−0.101	−0.0862
Tau Homeostasis					
Vasculature	0.123	0.346	0.254	−0.149	−0.162
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

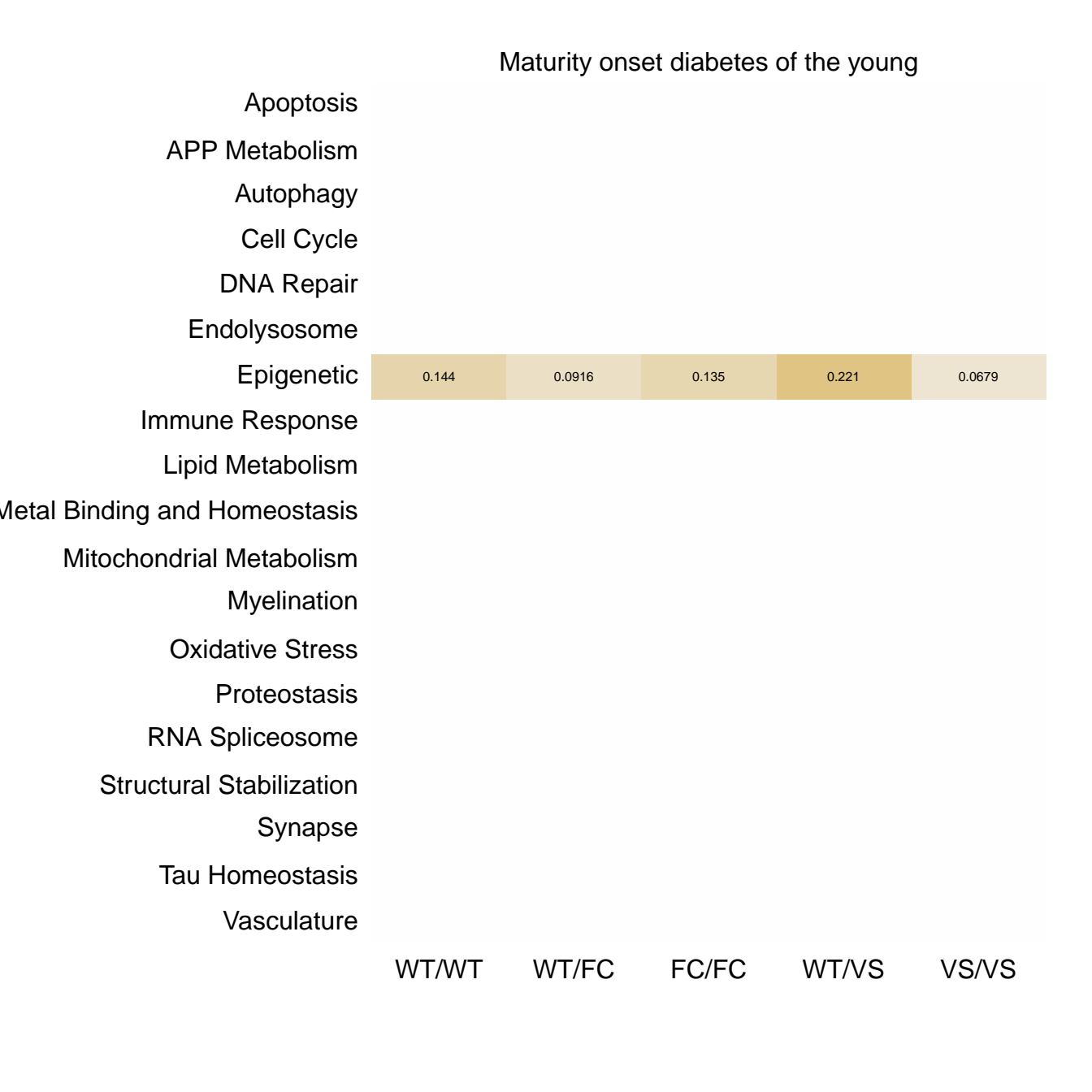
Dilated cardiomyopathy					
Apoptosis	0.209	0.318	0.189	0.0863	0.0109
APP Metabolism					
Autophagy	0.185	0.237	0.171	0.0602	-0.182
Cell Cycle					
DNA Repair					
Endolysosome	0.186	0.31	0.164	0.0967	0.133
Epigenetic					
Immune Response	0.224	0.308	0.24	-0.0242	-0.0194
Lipid Metabolism	0.133	0.303	0.225	-0.117	-0.102
Metal Binding and Homeostasis	0.118	0.268	0.211	-0.16	-0.0801
Mitochondrial Metabolism	0.317	0.518	0.22	-0.0594	-0.0374
Myelination					
Oxidative Stress					
Proteostasis	0.0954	0.185	0.0745	-0.0465	-0.0811
RNA Spliceosome					
Structural Stabilization	0.0579	0.104	0.0578	-0.0238	-0.062
Synapse	0.116	0.24	0.184	-0.117	-0.0602
Tau Homeostasis					
Vasculature	0.037	0.193	0.0716	-0.161	-0.119
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Diabetic cardiomyopathy					
Apoptosis	0.0736	0.0958	0.1	0.183	0.000249
APP Metabolism	0.188	0.473	0.322	0.0706	−0.01
Autophagy	0.0188	0.0612	0.0688	0.132	−0.0109
Cell Cycle	0.0994	0.171	0.238	0.0949	0.0382
DNA Repair					
Endolysosome	−0.0132	−0.0182	−0.0148	0.156	−0.0215
Epigenetic	0.216	0.454	0.416	0.019	−0.0317
Immune Response	0.0879	0.184	0.18	0.0679	−0.000406
Lipid Metabolism	0.137	0.166	0.175	0.174	0.00563
Metal Binding and Homeostasis	−0.0738	−0.147	−0.0908	0.109	−0.0109
Mitochondrial Metabolism	−0.35	−0.538	−0.517	0.107	−0.0577
Myelination					
Oxidative Stress	−0.0836	−0.127	−0.113	0.189	−0.015
Proteostasis	0.0524	0.0478	0.0649	0.132	0.0362
RNA Spliceosome					
Structural Stabilization	0.174	0.157	0.221	0.147	0.0861
Synapse	0.0769	0.105	0.136	0.0514	−0.0218
Tau Homeostasis					
Vasculature	0.209	0.289	0.285	0.0453	0.000292
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Viral myocarditis					
Apoptosis	−0.0344	−0.0934	−0.132	−0.0504	0.00749
APP Metabolism					
Autophagy	−0.0546	−0.0985	0.0283	0.0641	−0.0549
Cell Cycle					
DNA Repair					
Endolysosome	−0.016	0.0481	−0.0857	0.15	0.0368
Epigenetic					
Immune Response	−0.0248	−0.0143	−0.026	0.0347	0.0239
Lipid Metabolism	0.0913	0.11	0.159	−0.0483	−0.015
Metal Binding and Homeostasis					
Mitochondrial Metabolism	0.0616	0.0707	0.155	−0.0128	0.0169
Myelination					
Oxidative Stress					
Proteostasis	−0.00108	−0.00251	0.00132	−0.0458	−0.0774
RNA Spliceosome					
Structural Stabilization	0.0454	0.0944	0.0376	−0.0223	−0.118
Synapse	0.06	0.1	0.112	−0.0147	−0.075
Tau Homeostasis					
Vasculature	−0.0146	0.0459	0.0383	0.00168	−0.129
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Type II diabetes mellitus					
Apoptosis	0.123	0.341	0.339	0.0139	−0.121
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.101	0.368	0.331	0.0354	−0.0871
Immune Response	0.167	0.31	0.346	−0.0158	−0.055
Lipid Metabolism	0.222	0.414	0.409	−0.013	−0.0479
Metal Binding and Homeostasis	0.188	0.379	0.402	−0.178	−0.0209
Mitochondrial Metabolism	−0.0363	0.219	0.0781	−0.176	−0.246
Myelination					
Oxidative Stress					
Proteostasis	0.108	0.191	0.145	0.136	0.013
RNA Spliceosome					
Structural Stabilization	0.216	0.431	0.394	0.105	−0.00933
Synapse	0.238	0.467	0.512	−0.146	−0.0612
Tau Homeostasis					
Vasculature	0.241	0.411	0.416	−0.0772	−0.0807
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Type I diabetes mellitus					
Apoptosis	−0.0469	−0.197	−0.21	0.0157	−0.0471
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0693	−0.0428	−0.117	0.125	0.0211
Epigenetic					
Immune Response	−0.0516	−0.0418	−0.152	0.0533	−0.00744
Lipid Metabolism	−0.0556	−0.105	−0.15	−0.0445	−0.108
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.0896	−0.105	−0.162	−0.066	−0.141
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Alcoholic liver disease					
Apoptosis	0.138	0.248	0.181	0.113	−0.0114
APP Metabolism					
Autophagy	0.0541	0.296	0.235	−0.0834	−0.148
Cell Cycle	−0.0263	0.14	0.178	0.0204	−0.12
DNA Repair	0.0599	0.0763	0.0364	−0.128	−0.0833
Endolysosome	0.131	0.106	0.119	0.247	0.045
Epigenetic	0.129	0.346	0.215	0.0654	−0.0586
Immune Response	0.13	0.164	0.112	0.22	0.107
Lipid Metabolism	0.15	0.0975	0.142	0.174	0.0947
Metal Binding and Homeostasis	0.145	0.237	0.245	0.0405	−0.0269
Mitochondrial Metabolism	0.134	0.138	0.236	0.0697	0.0664
Myelination					
Oxidative Stress	0.0351	0.279	0.266	−0.0955	−0.134
Proteostasis	0.133	0.307	0.223	0.0525	−0.0189
RNA Spliceosome					
Structural Stabilization	0.173	0.349	0.261	0.124	0.0252
Synapse	−2.3e−05	0.0982	0.0548	0.153	0.0317
Tau Homeostasis					
Vasculature	0.101	0.153	0.0612	0.173	0.0804
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Non-alcoholic fatty liver disease					
Apoptosis	0.0997	0.135	0.179	0.199	0.0878
APP Metabolism					
Autophagy	0.118	0.189	0.231	0.178	0.0937
Cell Cycle	0.0122	-0.0378	0.0439	0.272	0.166
DNA Repair					
Endolysosome	-0.0787	-0.109	0.0751	0.194	-0.0157
Epigenetic	0.183	0.308	0.233	0.286	0.152
Immune Response	0.12	0.124	0.183	0.237	0.171
Lipid Metabolism	0.144	0.146	0.209	0.222	0.159
Metal Binding and Homeostasis	-0.201	-0.32	-0.294	0.225	0.0751
Mitochondrial Metabolism	-0.348	-0.572	-0.538	0.131	-0.0118
Myelination					
Oxidative Stress	-0.267	-0.218	-0.242	0.144	-0.0865
Proteostasis	-0.0251	-0.00731	0.00663	0.276	0.126
RNA Spliceosome					
Structural Stabilization	0.127	0.219	0.289	0.186	0.0558
Synapse	0.0731	0.0378	0.127	0.233	0.114
Tau Homeostasis					
Vasculature	0.151	0.214	0.256	0.291	0.148
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Insulin resistance					
Apoptosis	0.211	0.333	0.298	0.106	0.0151
APP Metabolism					
Autophagy	0.127	0.372	0.295	-0.103	-0.0722
Cell Cycle	0.209	0.245	0.261	0.13	0.107
DNA Repair					
Endolysosome	0.367	0.354	0.464	0.305	0.18
Epigenetic	0.159	0.229	0.231	0.0164	0.0799
Immune Response	0.215	0.352	0.341	0.0774	0.0581
Lipid Metabolism	0.227	0.3	0.299	0.121	0.0917
Metal Binding and Homeostasis	0.207	0.272	0.366	0.152	0.0721
Mitochondrial Metabolism	0.213	0.322	0.295	-0.0198	0.0458
Myelination					
Oxidative Stress	0.252	0.526	0.299	0.0922	0.0168
Proteostasis	0.178	0.208	0.225	0.171	0.114
RNA Spliceosome					
Structural Stabilization	0.279	0.406	0.388	0.153	0.0957
Synapse	0.208	0.388	0.334	0.0793	-0.0109
Tau Homeostasis					
Vasculature	0.305	0.448	0.378	0.222	0.15
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

AGE–RAGE signaling pathway in diabetic complications					
Apoptosis	0.162	0.232	0.17	0.162	0.111
APP Metabolism					
Autophagy	0.136	0.13	0.183	0.214	0.128
Cell Cycle	0.00138	0.0721	0.0734	0.138	0.0716
DNA Repair	0.0286	0.0952	0.0967	−0.0238	0.0645
Endolysosome	0.0655	0.115	0.0945	0.251	0.0218
Epigenetic	0.137	0.341	0.207	0.0983	0.0279
Immune Response	0.121	0.15	0.108	0.115	0.0786
Lipid Metabolism	0.172	0.201	0.179	0.112	0.0723
Metal Binding and Homeostasis	0.166	0.182	0.167	−0.0306	0.0921
Mitochondrial Metabolism	0.161	0.186	0.247	0.0548	0.0417
Myelination					
Oxidative Stress	0.132	0.237	0.136	0.214	0.0912
Proteostasis	0.191	0.221	0.218	0.177	0.18
RNA Spliceosome					
Structural Stabilization	0.246	0.254	0.22	0.171	0.153
Synapse	0.15	0.155	0.167	0.0997	0.0691
Tau Homeostasis					
Vasculature	0.2	0.191	0.181	0.123	0.113
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cushing syndrome					
Apoptosis	0.0861	0.313	0.128	−0.0409	−0.0596
APP Metabolism					
Autophagy					
Cell Cycle	−0.0412	0.173	0.00643	−0.0189	−0.0504
DNA Repair	−0.0403	0.157	0.0231	−0.103	−0.104
Endolysosome	0.0869	0.179	0.0564	0.153	0.0141
Epigenetic	0.0709	0.24	0.0769	−0.0226	0.0211
Immune Response	0.0675	0.187	0.0176	0.019	0.0108
Lipid Metabolism	0.133	0.292	0.158	0.0187	−0.0282
Metal Binding and Homeostasis	0.156	0.378	0.189	0.00991	−0.00939
Mitochondrial Metabolism	0.0283	0.12	0.0758	−0.0946	−0.0934
Myelination					
Oxidative Stress	0.148	0.234	0.143	0.103	−0.00661
Proteostasis	0.122	0.231	0.107	0.0826	0.017
RNA Spliceosome					
Structural Stabilization	0.158	0.277	0.141	0.114	0.0393
Synapse	0.131	0.273	0.126	0.0332	0.0274
Tau Homeostasis					
Vasculature	0.131	0.303	0.103	0.109	0.0799
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

EGFR tyrosine kinase inhibitor resistance					
Apoptosis	0.205	0.351	0.241	0.0993	0.0361
APP Metabolism					
Autophagy	0.238	0.442	0.301	0.242	0.0945
Cell Cycle	0.161	0.25	0.144	0.185	0.166
DNA Repair	0.151	0.286	0.218	0.245	0.149
Endolysosome	0.145	0.325	0.194	0.206	0.0654
Epigenetic	0.164	0.326	0.123	0.0797	0.0516
Immune Response	0.196	0.333	0.207	0.104	0.056
Lipid Metabolism	0.23	0.37	0.276	0.0705	0.0435
Metal Binding and Homeostasis	0.2	0.24	0.271	0.0791	0.0513
Mitochondrial Metabolism	0.224	0.345	0.251	0.166	0.118
Myelination	0.359	0.474	0.352	0.259	0.152
Oxidative Stress	0.226	0.387	0.21	0.213	0.124
Proteostasis	0.0938	0.158	0.0736	0.141	0.0697
RNA Spliceosome					
Structural Stabilization	0.207	0.356	0.213	0.148	0.0526
Synapse	0.187	0.349	0.204	0.083	0.0332
Tau Homeostasis					
Vasculature	0.21	0.384	0.22	0.0379	-0.00606
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Platinum drug resistance					
Apoptosis	0.0483	0.116	0.114	0.0798	0.0317
APP Metabolism					
Autophagy	0.185	0.242	0.223	0.377	0.159
Cell Cycle	-0.028	-0.0363	-0.00718	0.147	0.0699
DNA Repair	-0.0318	0.039	0.0297	0.0659	0.0448
Endolysosome	0.0556	0.0461	0.1	0.158	-0.0393
Epigenetic	0.0825	0.208	0.152	0.0901	-0.0103
Immune Response	0.0325	0.0645	0.113	0.113	0.0731
Lipid Metabolism	0.0994	0.0569	0.164	0.188	0.0777
Metal Binding and Homeostasis	0.0252	0.107	0.129	0.00726	-0.0472
Mitochondrial Metabolism	0.106	0.132	0.252	0.288	0.138
Myelination					
Oxidative Stress	0.0397	0.0695	0.131	0.152	0.0509
Proteostasis	0.0556	0.0604	0.0441	0.166	0.137
RNA Spliceosome					
Structural Stabilization	0.25	0.334	0.34	0.239	0.056
Synapse	-0.0298	-0.0361	-0.0234	0.172	0.117
Tau Homeostasis					
Vasculature	0.0685	0.147	0.158	0.0873	-0.0216
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Antifolate resistance					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.283	0.307	0.269	0.208	0.29
Lipid Metabolism	0.329	0.321	0.317	0.182	0.283
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.117	0.308	0.323	0.099	-0.00142
RNA Spliceosome					
Structural Stabilization	0.307	0.24	0.267	0.256	0.236
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Endocrine resistance					
Apoptosis	0.181	0.361	0.246	0.0767	0.0175
APP Metabolism					
Autophagy	0.204	0.36	0.262	0.302	0.107
Cell Cycle	0.112	0.197	0.131	0.207	0.118
DNA Repair	0.11	0.178	0.109	0.143	0.123
Endolysosome	0.146	0.232	0.119	0.202	0.0536
Epigenetic	0.144	0.433	0.238	0.0115	-0.0405
Immune Response	0.195	0.357	0.211	0.127	0.063
Lipid Metabolism	0.191	0.432	0.266	0.0523	-0.00518
Metal Binding and Homeostasis	0.211	0.314	0.178	0.123	0.083
Mitochondrial Metabolism	0.17	0.253	0.162	0.213	0.0834
Myelination	0.272	0.337	0.266	0.243	0.159
Oxidative Stress	0.154	0.333	0.177	0.332	0.118
Proteostasis	0.141	0.243	0.112	0.229	0.107
RNA Spliceosome					
Structural Stabilization	0.183	0.337	0.176	0.171	0.0753
Synapse	0.233	0.363	0.259	0.0858	0.0415
Tau Homeostasis					
Vasculature	0.188	0.402	0.245	0.0712	-0.00925
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS