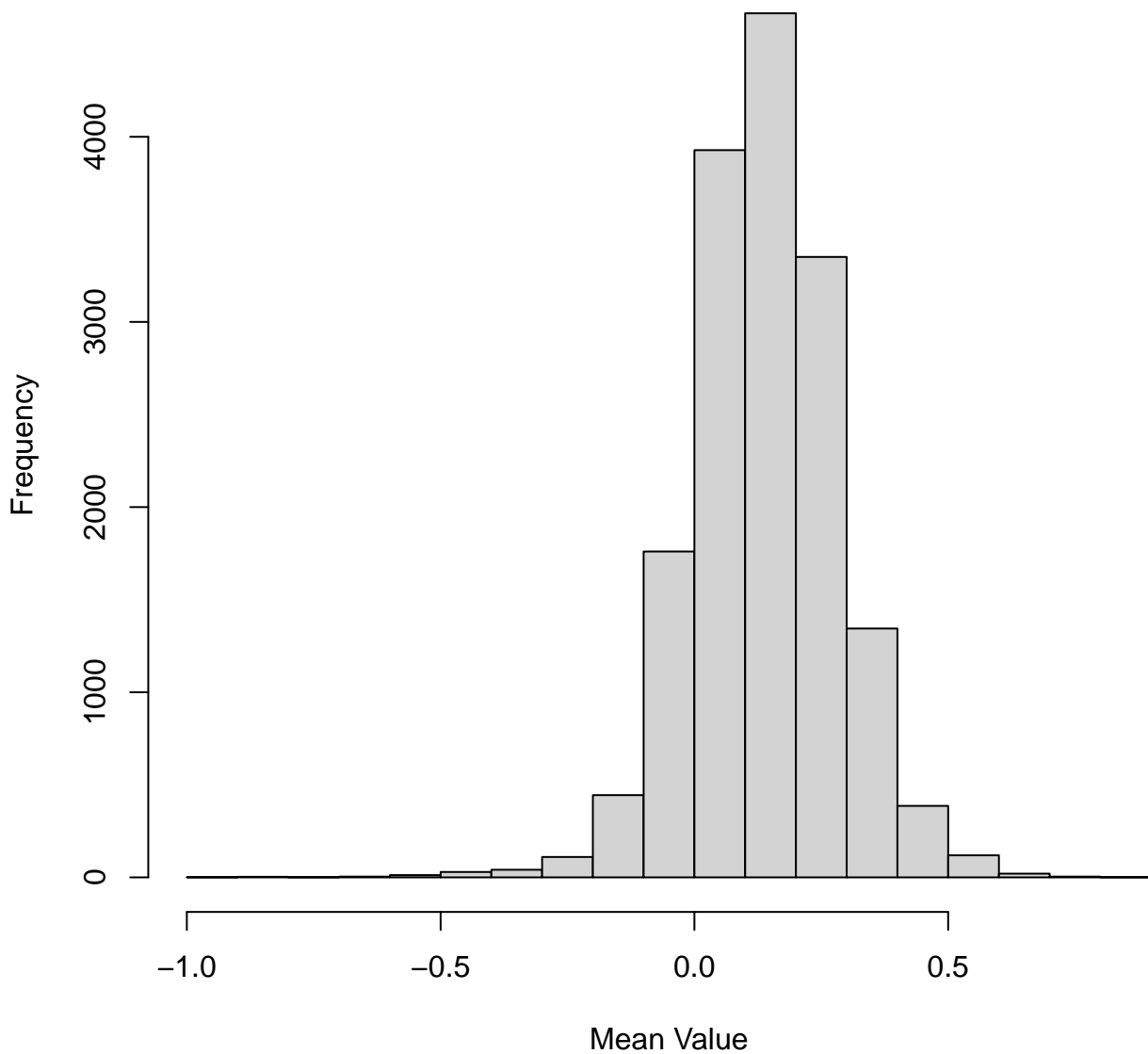


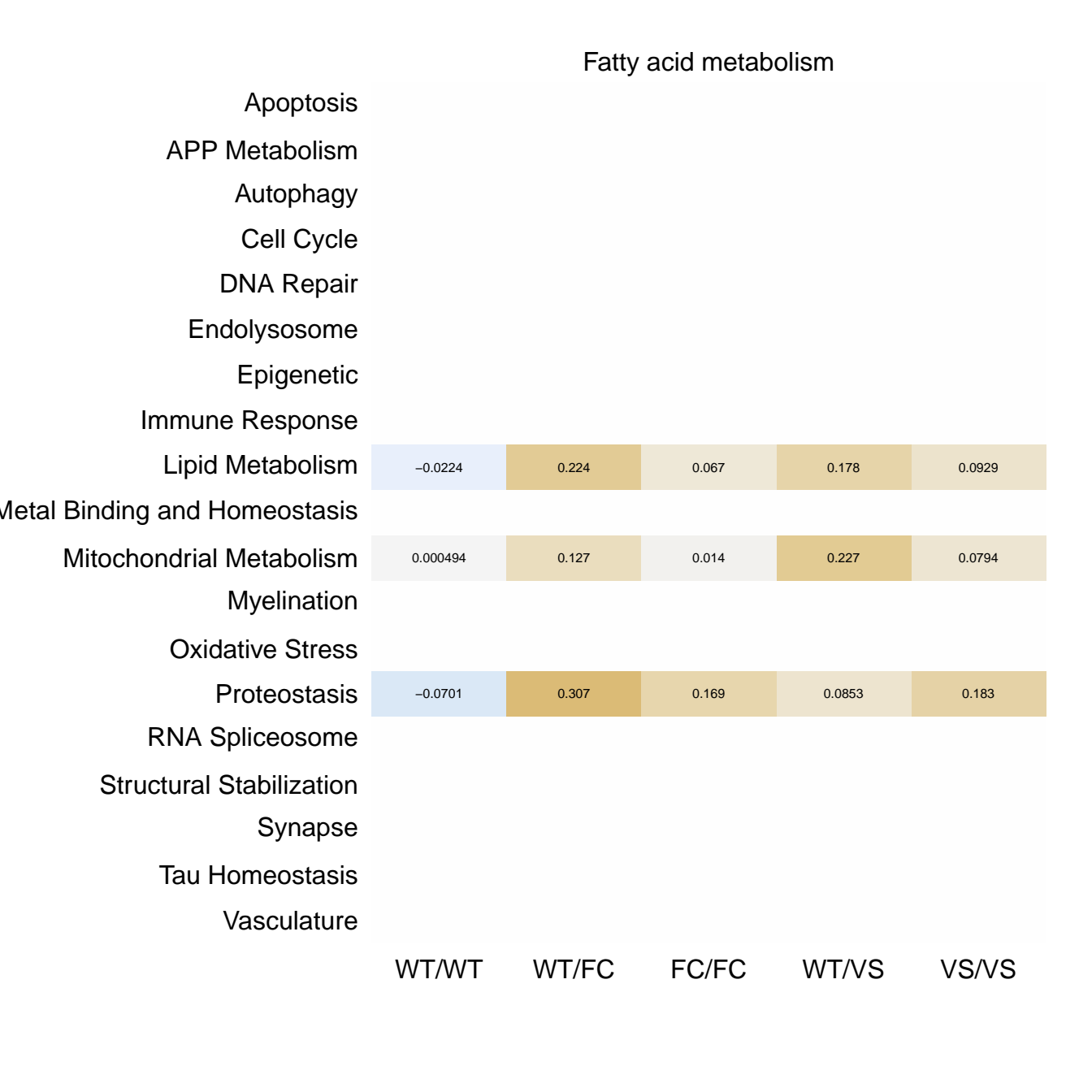
Mean Biodomain–Kegg Intersection Expression



Metabolic pathways					
Apoptosis	−0.00753	−0.0177	−0.0599	0.0924	−0.0568
APP Metabolism					
Autophagy	0.0834	0.206	0.255	0.0989	0.108
Cell Cycle	0.0642	0.119	0.0586	0.144	−0.00226
DNA Repair	0.0389	0.0249	0.0285	0.113	−0.00835
Endolysosome	0.019	0.102	0.0955	0.088	−0.00116
Epigenetic	0.018	0.0206	0.053	−0.0409	−0.0479
Immune Response	0.0586	0.0889	0.108	0.104	0.0639
Lipid Metabolism	0.0533	0.124	0.0927	0.107	0.0439
Metal Binding and Homeostasis	0.0366	0.0663	0.0414	0.058	0.00777
Mitochondrial Metabolism	0.00463	−0.0254	−0.14	0.126	−0.119
Myelination	−0.0558	0.284	−0.00492	0.0565	0.151
Oxidative Stress	0.0112	0.00346	−0.111	0.147	−0.0148
Proteostasis	0.0662	0.142	0.122	0.123	0.0761
RNA Spliceosome					
Structural Stabilization	0.0513	0.0651	0.112	0.0786	0.0672
Synapse	0.0617	0.173	0.174	0.102	0.0686
Tau Homeostasis					
Vasculature	−0.000841	−0.00125	0.0562	0.11	0.0352
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

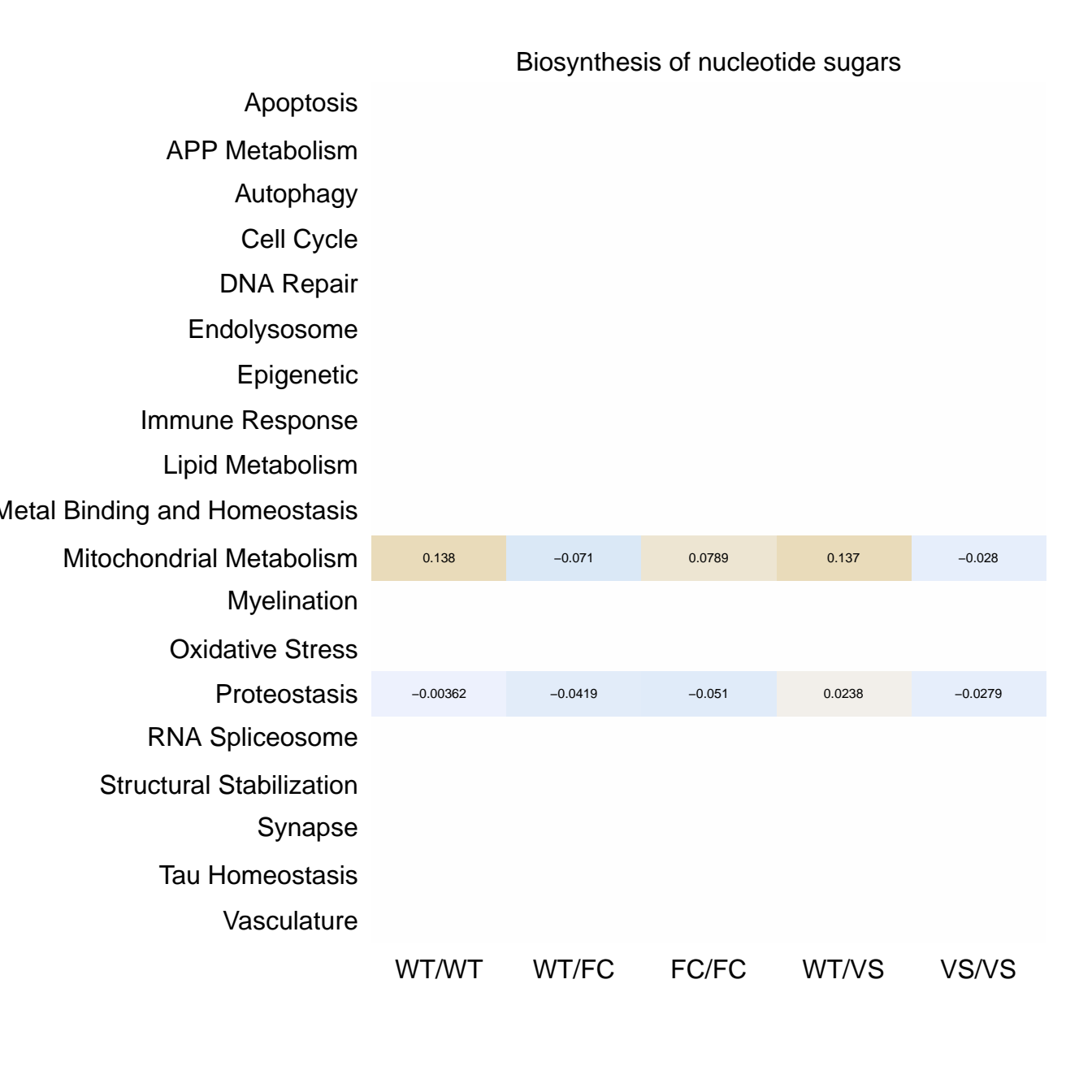
	Carbon metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.0617	-0.0307	0.155	0.0605	-0.054
Lipid Metabolism	0.163	0.14	0.177	0.167	-0.115
Metal Binding and Homeostasis	0.14	0.123	0.0596	0.201	-0.028
Mitochondrial Metabolism	0.118	0.146	0.0501	0.206	-0.0431
Myelination					
Oxidative Stress					
Proteostasis	0.102	-0.0767	-0.113	0.252	-0.0563
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	0.133	0.14	0.0297	0.34	-0.0236
Mitochondrial Metabolism	0.0625	0.245	0.0613	0.227	0.0151
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



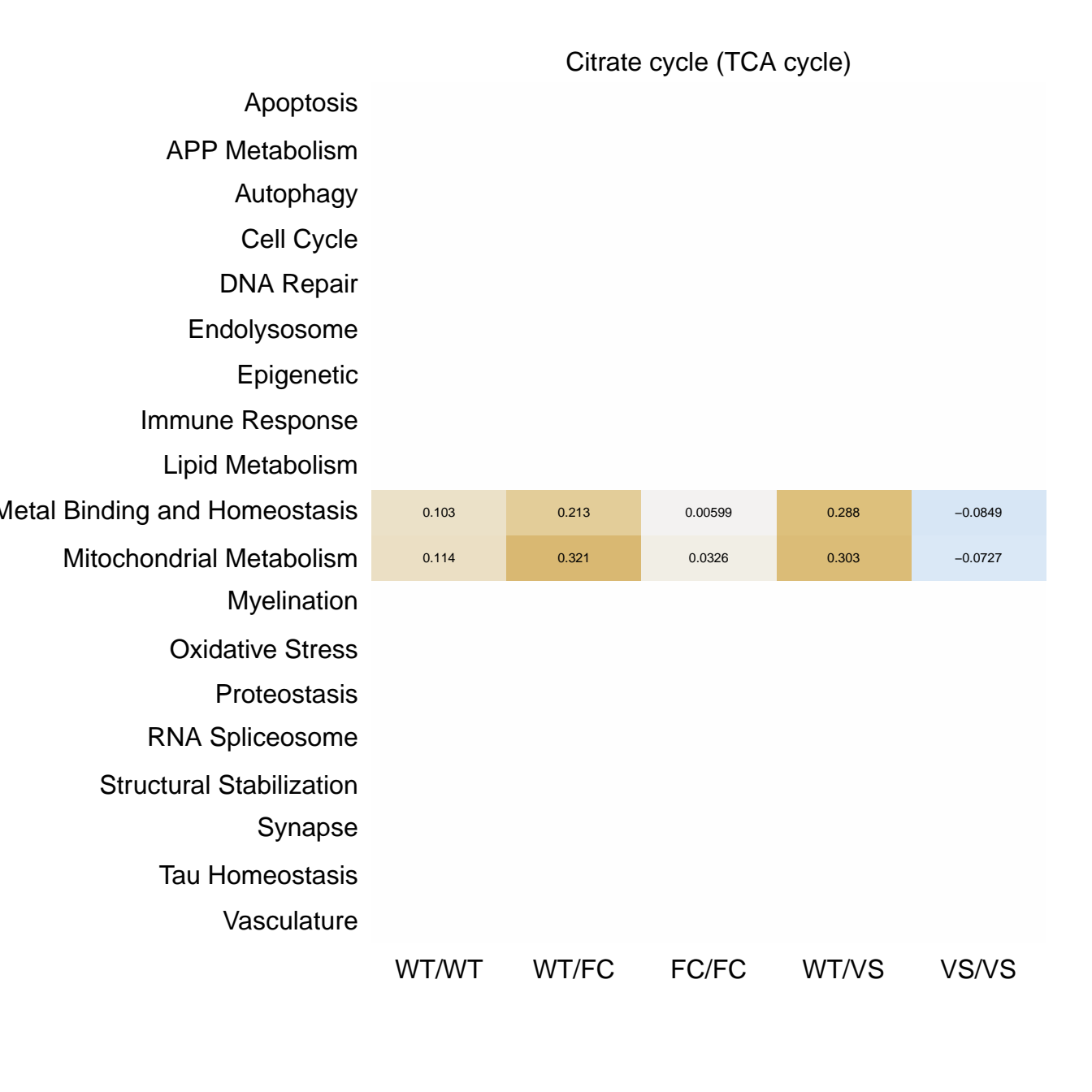
Biosynthesis of amino acids					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	−0.0515	−0.0698	−0.115	0.134	−0.0869
Lipid Metabolism	0.169	0.188	0.231	0.302	−0.0461
Metal Binding and Homeostasis	0.0911	0.0528	0.016	0.201	−0.0186
Mitochondrial Metabolism	0.224	0.145	0.146	0.329	0.0207
Myelination					
Oxidative Stress					
Proteostasis	0.123	−0.0548	−0.0511	0.383	0.0162
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

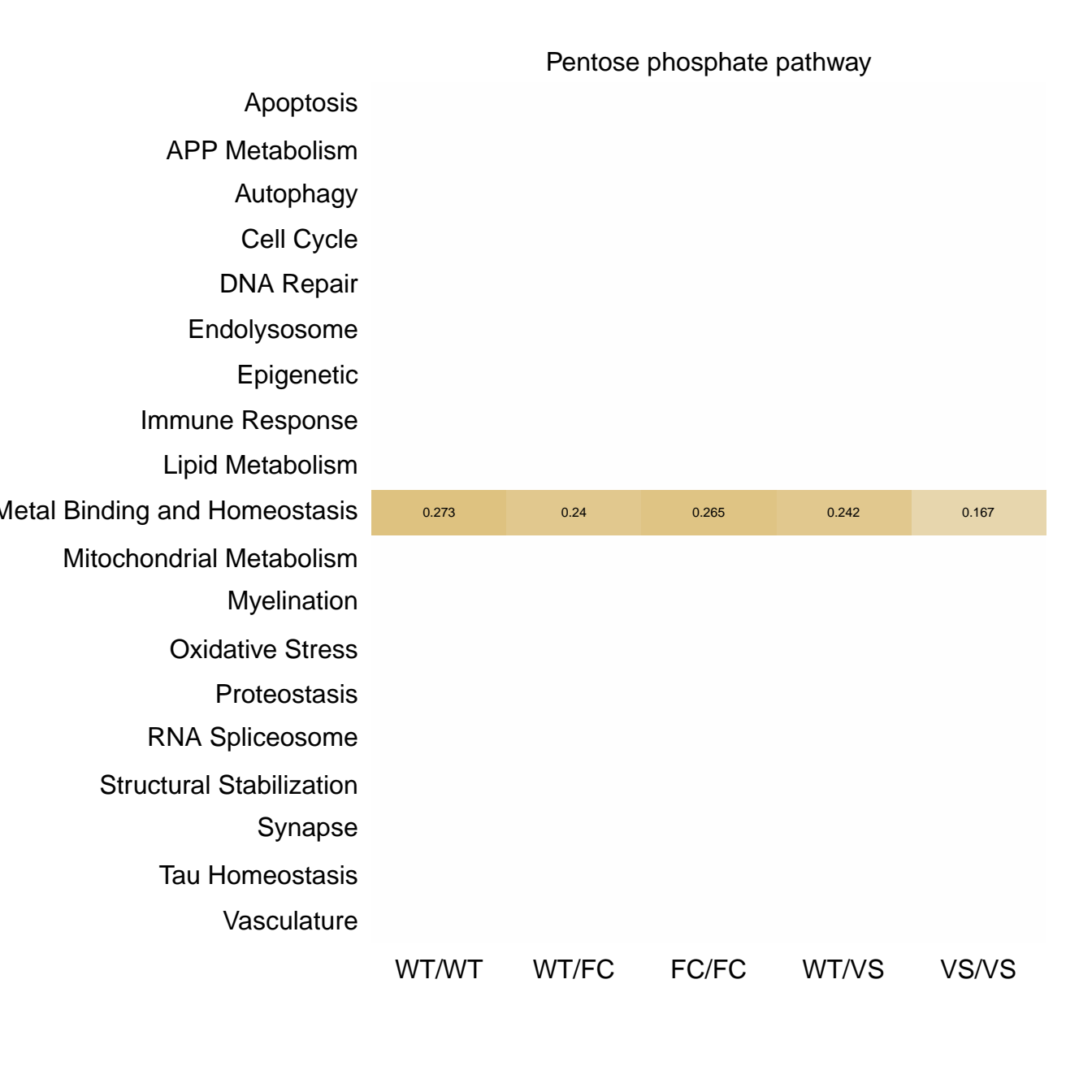
	Nucleotide metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	0.0755	0.0803	−0.0537	0.107	−0.0163
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.0651	0.204	0.0922	0.202	−0.0646
Lipid Metabolism					
Metal Binding and Homeostasis	0.0459	−0.0314	−0.0675	0.0979	−0.0878
Mitochondrial Metabolism	0.0581	0.133	−0.139	0.0302	−0.131
Myelination					
Oxidative Stress					
Proteostasis	0.132	0.117	−0.019	0.147	0.14
RNA Spliceosome					
Structural Stabilization	0.222	0.0733	0.0895	0.172	0.265
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



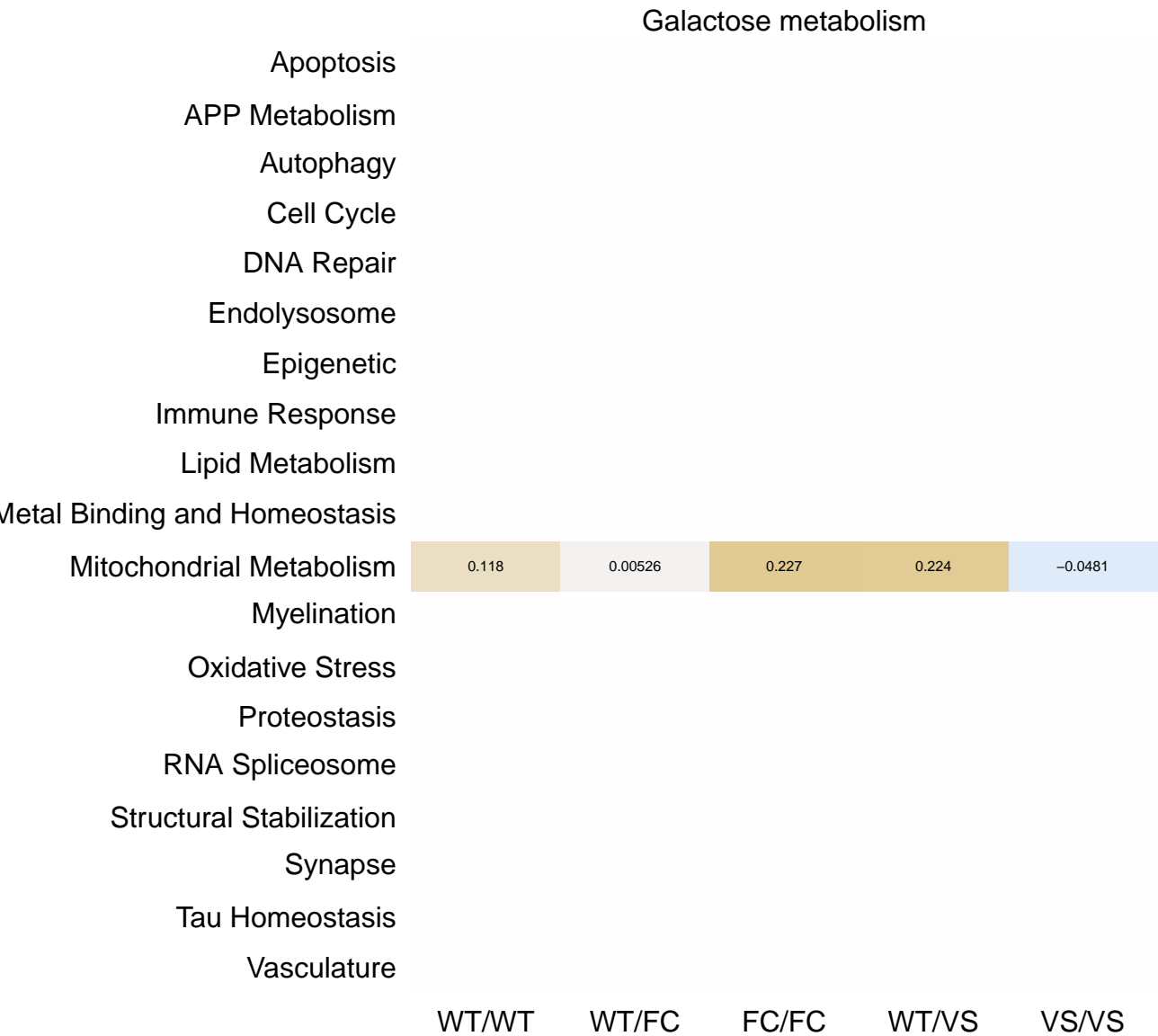
Biosynthesis of cofactors					
Apoptosis	0.193	0.134	−0.00111	0.228	0.0564
APP Metabolism					
Autophagy					
Cell Cycle	0.165	0.14	0.107	0.328	0.0336
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.102	0.189	0.0538	0.0526	0.0215
Lipid Metabolism	0.0979	−0.00116	−0.102	0.0908	−0.0364
Metal Binding and Homeostasis	0.0551	−0.0334	−0.0686	0.0866	−0.0472
Mitochondrial Metabolism	0.0915	0.133	0.0312	0.204	0.0246
Myelination					
Oxidative Stress	0.1	0.183	0.0158	0.0187	0.0766
Proteostasis	−0.00564	−0.0597	−0.0182	−0.046	−0.156
RNA Spliceosome					
Structural Stabilization	0.278	0.186	0.114	0.347	0.212
Synapse	0.0764	0.0625	0.0508	0.0636	0.115
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

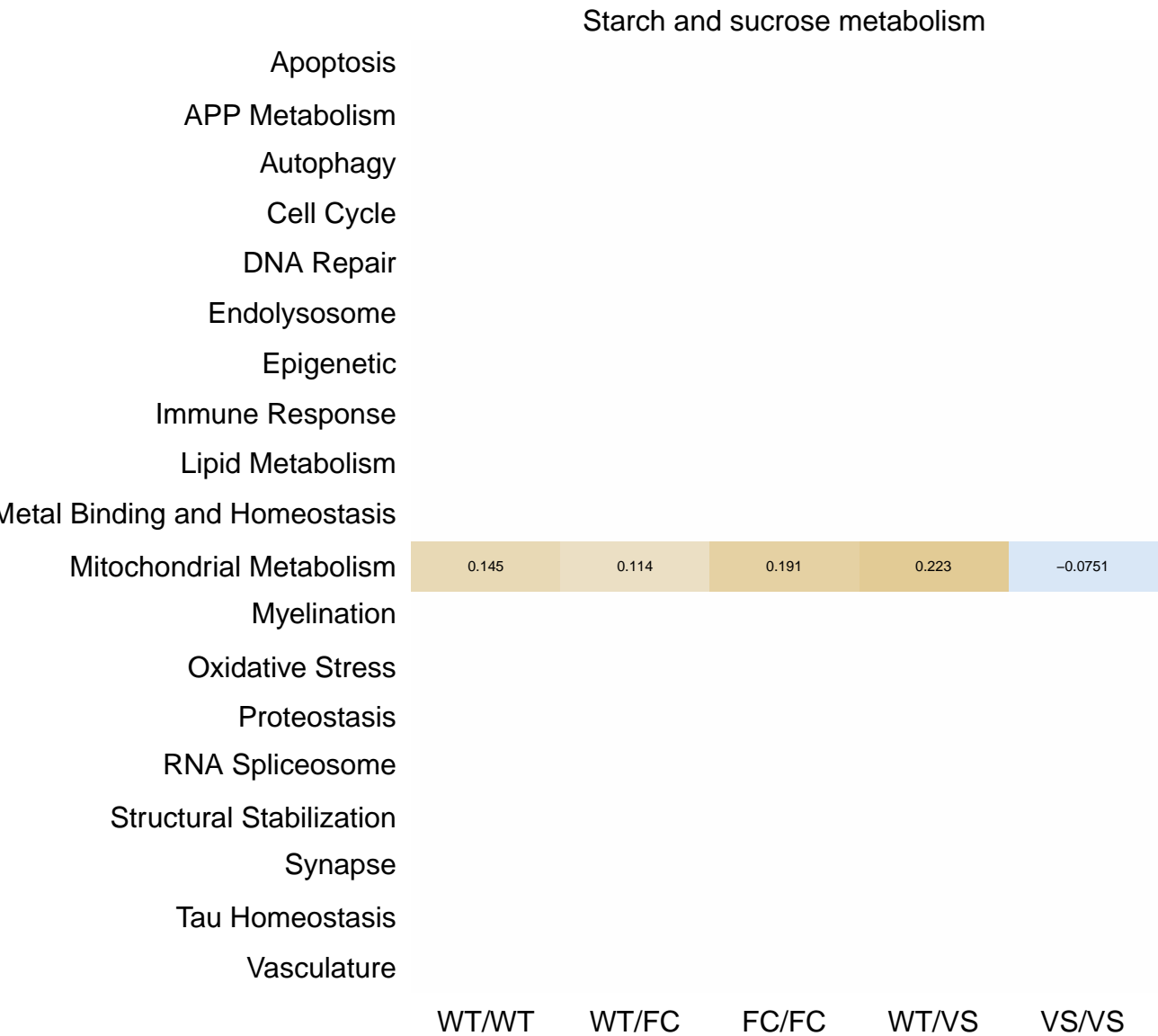
Glycolysis / Gluconeogenesis					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.113	0.032	0.0736	0.101	-0.201
Metal Binding and Homeostasis	0.298	0.144	0.137	0.353	-0.0452
Mitochondrial Metabolism	0.206	0.167	0.142	0.317	0.00828
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS





Fructose and mannose metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	0.347	-0.0287	0.208	0.0151	-0.0696
Mitochondrial Metabolism	0.154	0.00535	0.108	0.126	-0.055
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

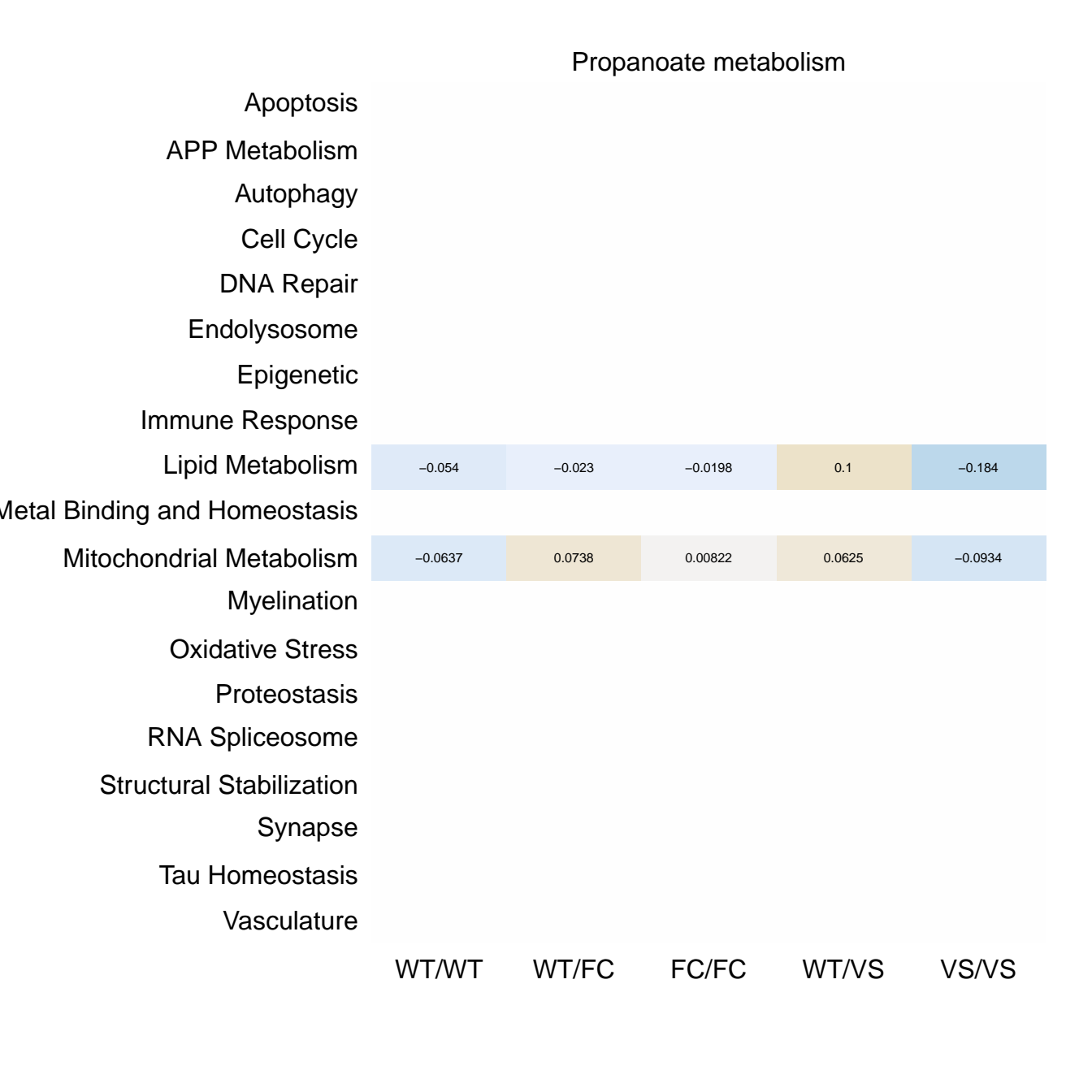


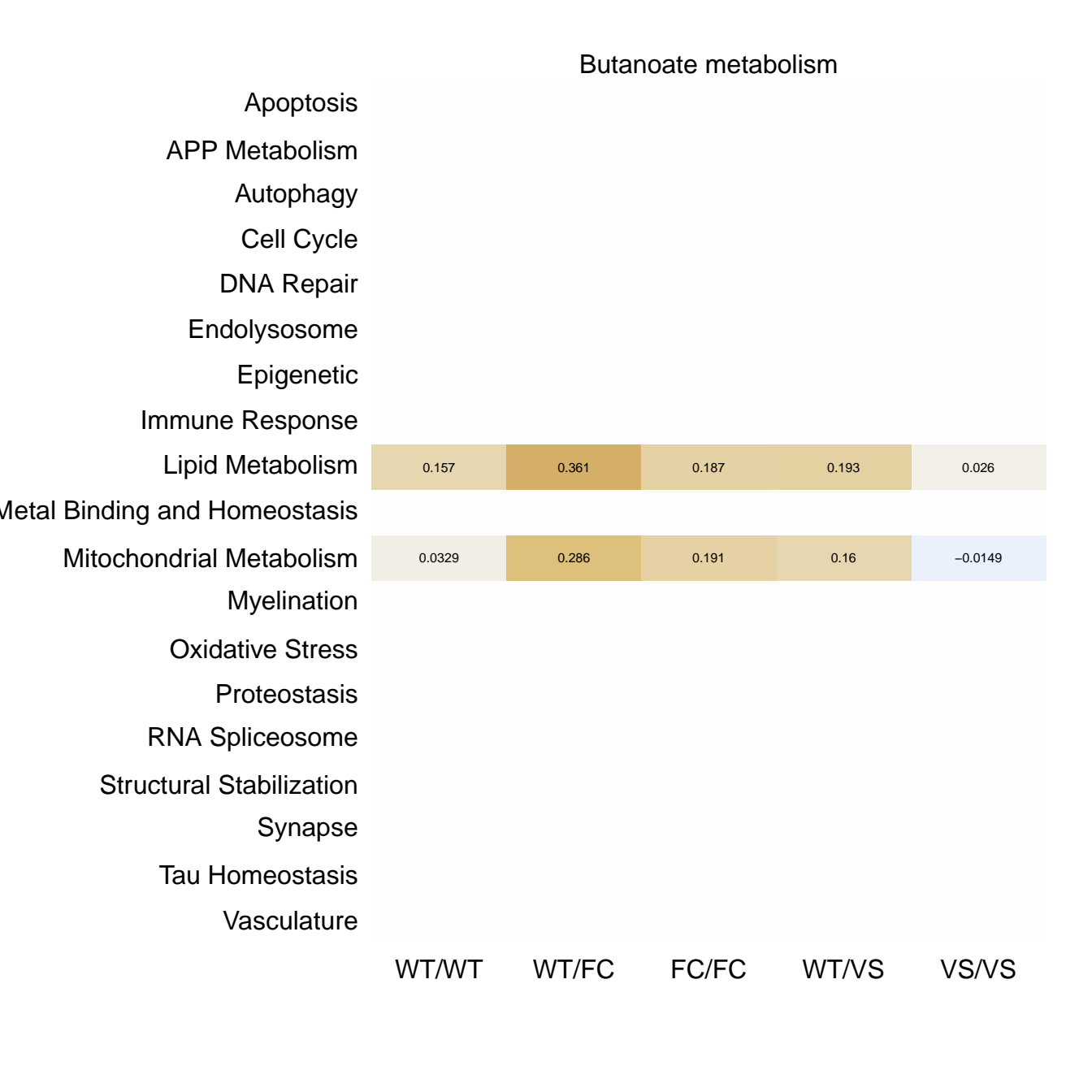


Amino sugar and nucleotide sugar metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	0.0299	0.0967	−0.107	−0.0165	−0.0207
Mitochondrial Metabolism	0.109	0.0153	0.143	0.199	0.0229
Myelination					
Oxidative Stress					
Proteostasis	0.0824	0.0641	0.0701	0.087	0.0202
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Pyruvate metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.151	0.157	0.0586	0.114	-0.146
Metal Binding and Homeostasis	0.126	0.0461	-0.0562	0.136	-0.101
Mitochondrial Metabolism	0.197	0.248	0.185	0.264	0.000314
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

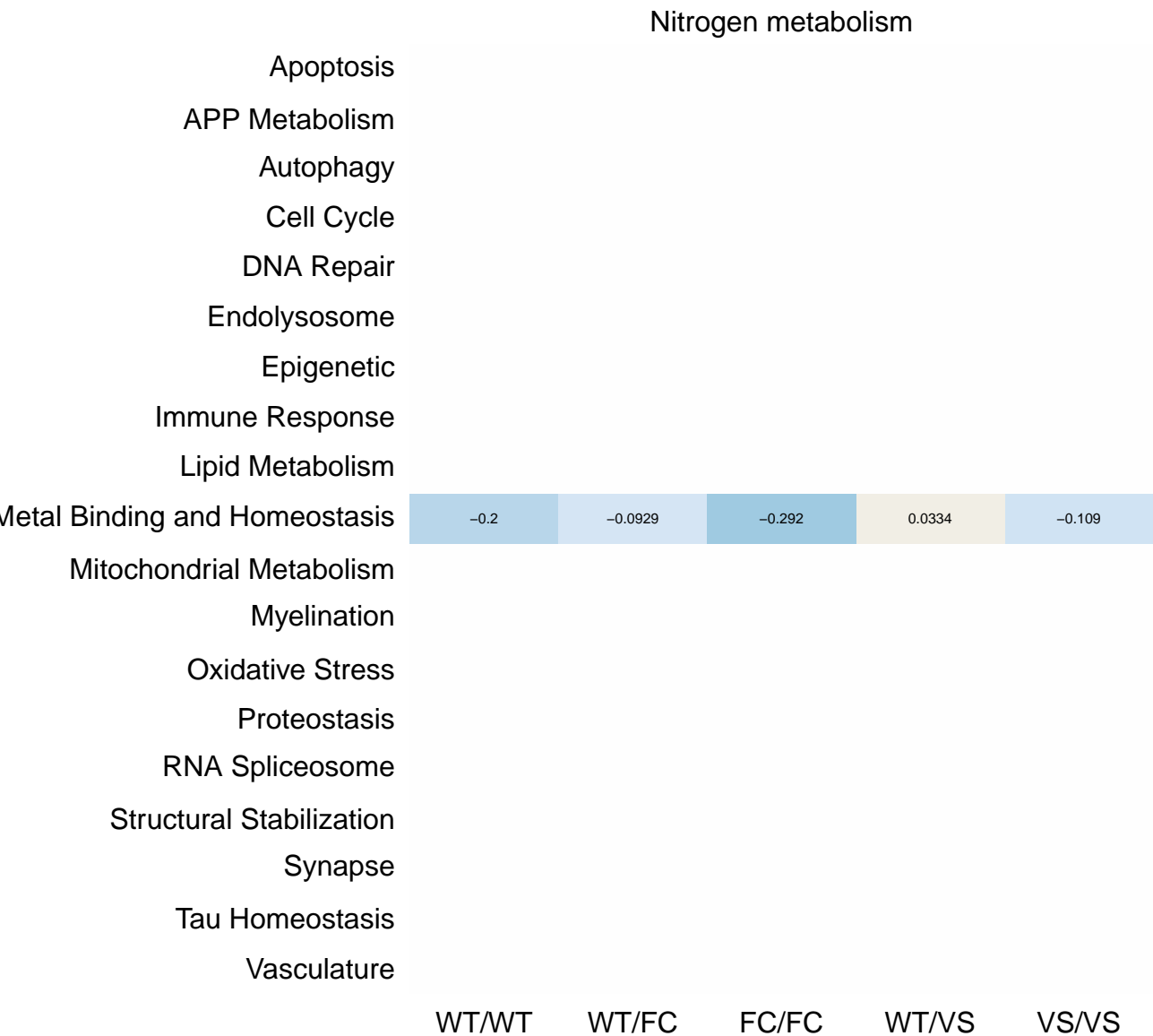
Glyoxylate and dicarboxylate metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.0468	-0.0166	-0.0298	0.0304	-0.276
Metal Binding and Homeostasis	-0.0894	-0.0392	-0.174	0.0183	-0.147
Mitochondrial Metabolism	-0.0444	0.0745	-0.0354	0.0412	-0.165
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

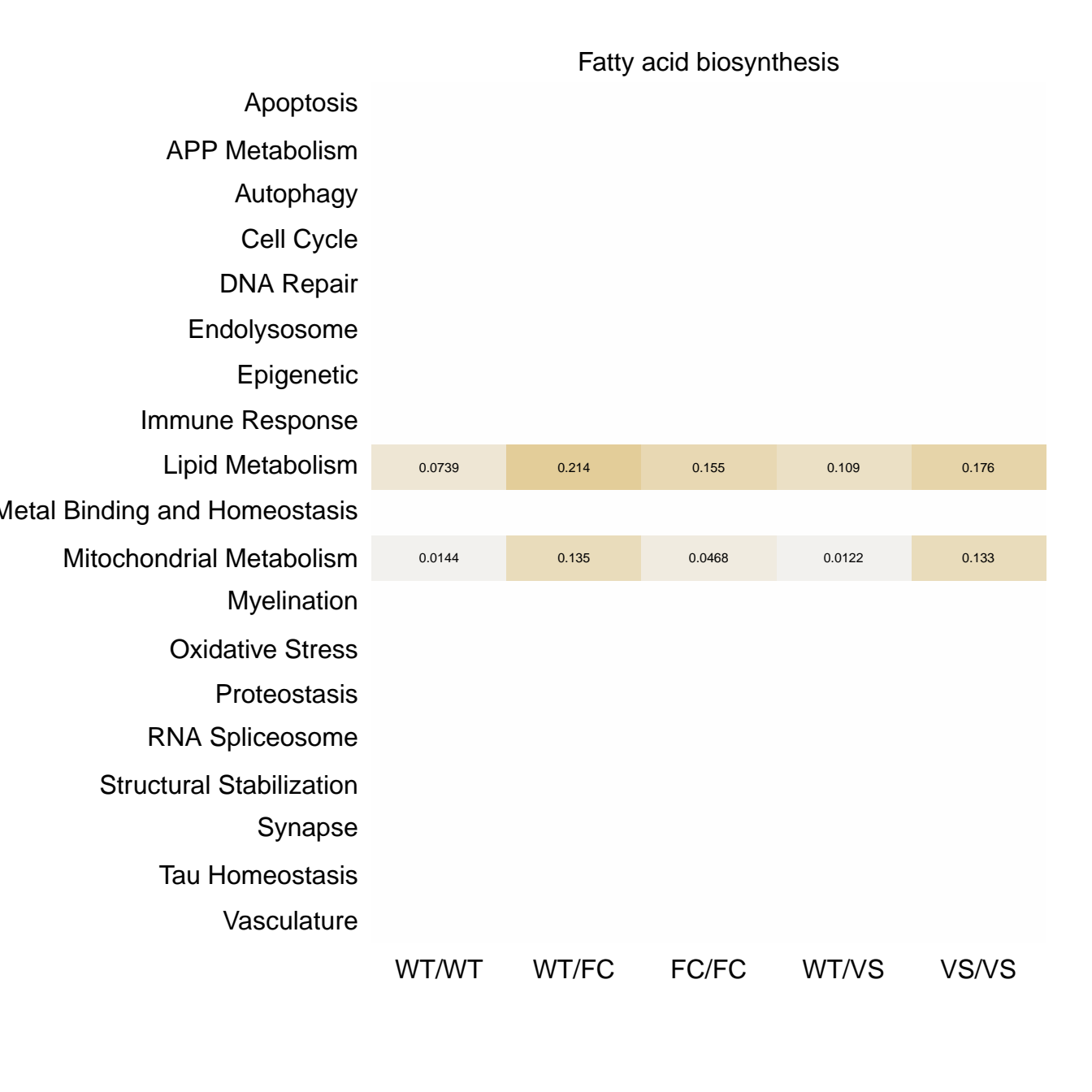


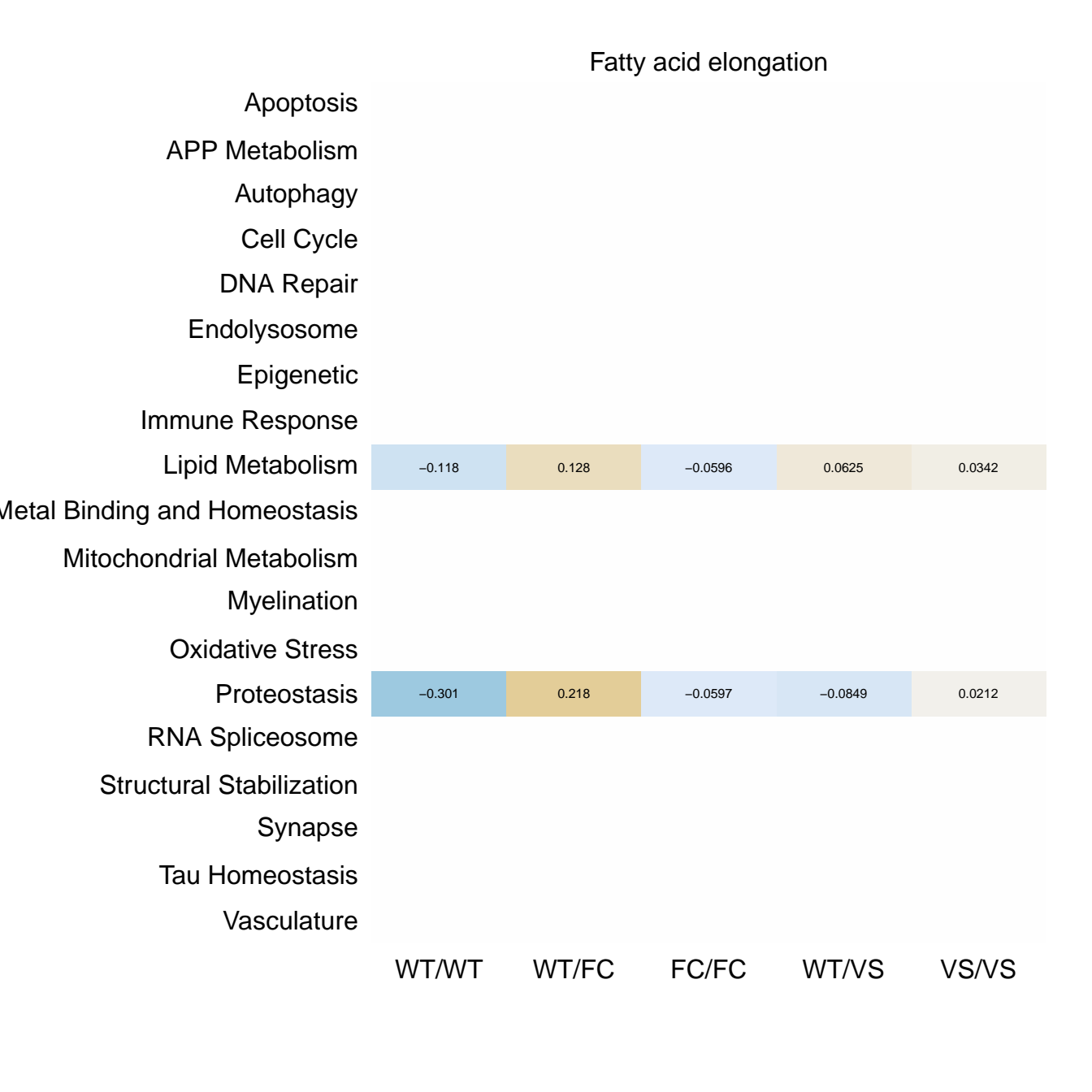


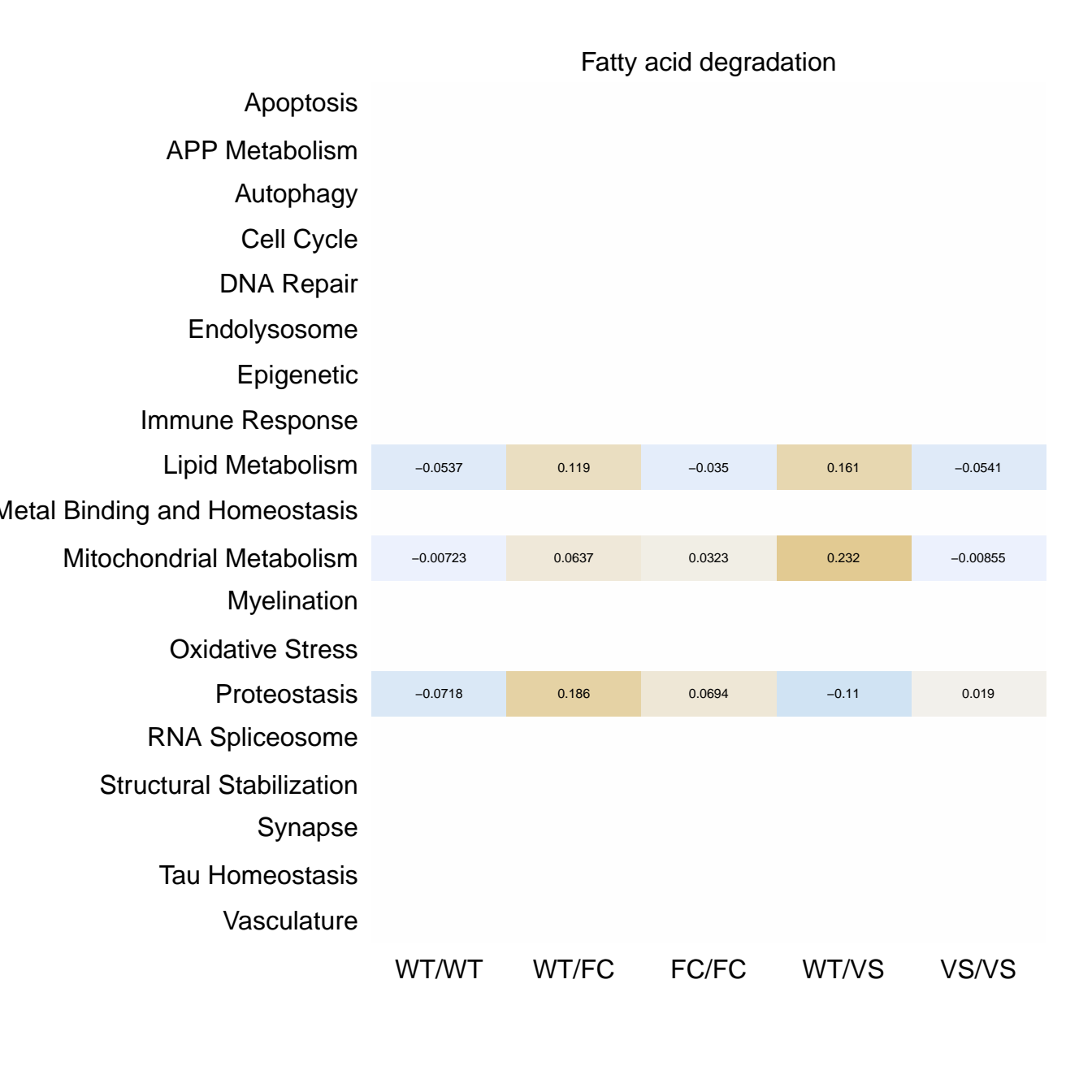
Inositol phosphate metabolism					
Apoptosis	-0.101	0.152	0.21	-0.142	0.0759
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	-0.113	0.223	0.264	-0.189	0.142
Epigenetic	-0.0289	0.0694	0.106	-0.0785	0.112
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination	-0.0768	0.0964	0.181	-0.0284	-0.0744
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse	-0.0276	0.204	0.202	-0.0553	-0.0173
Tau Homeostasis	-0.09	-0.0344	0.0452	-0.138	-0.0309
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

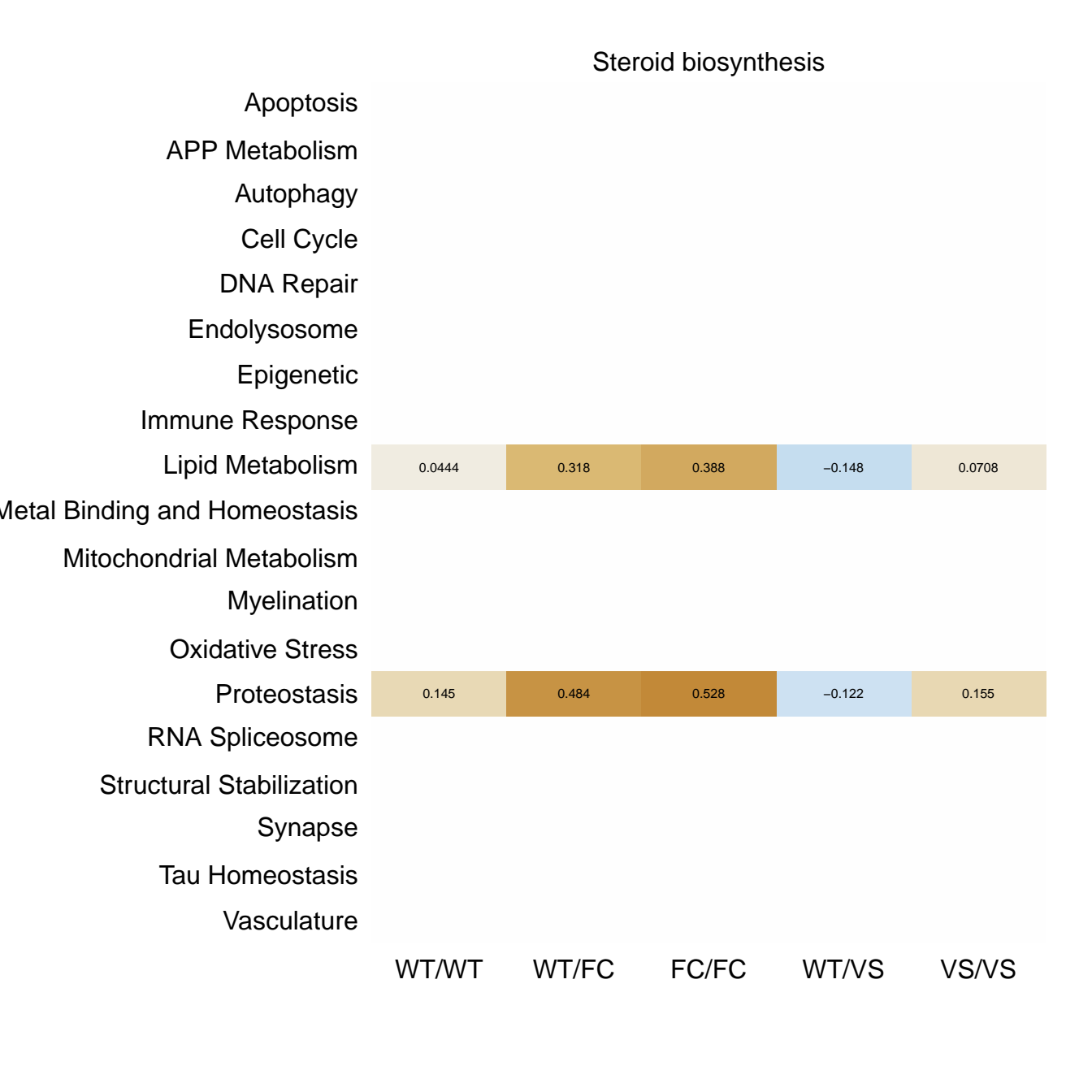
	Oxidative phosphorylation				
Apoptosis					
APP Metabolism					
Autophagy	0.152	0.242	0.231	0.183	0.0494
Cell Cycle					
DNA Repair					
Endolysosome	0.107	0.172	0.098	0.161	-0.155
Epigenetic					
Immune Response	0.328	0.308	0.319	0.459	0.0977
Lipid Metabolism	-0.0282	-0.0318	-0.319	0.147	-0.341
Metal Binding and Homeostasis	0.0258	-0.057	-0.315	0.103	-0.314
Mitochondrial Metabolism	-0.221	-0.42	-0.631	-0.0792	-0.523
Myelination					
Oxidative Stress	-0.355	-0.407	-0.757	-0.245	-0.428
Proteostasis	0.247	0.1	-0.0257	0.231	-0.238
RNA Spliceosome					
Structural Stabilization					
Synapse	0.156	0.281	0.153	0.0472	-0.0741
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

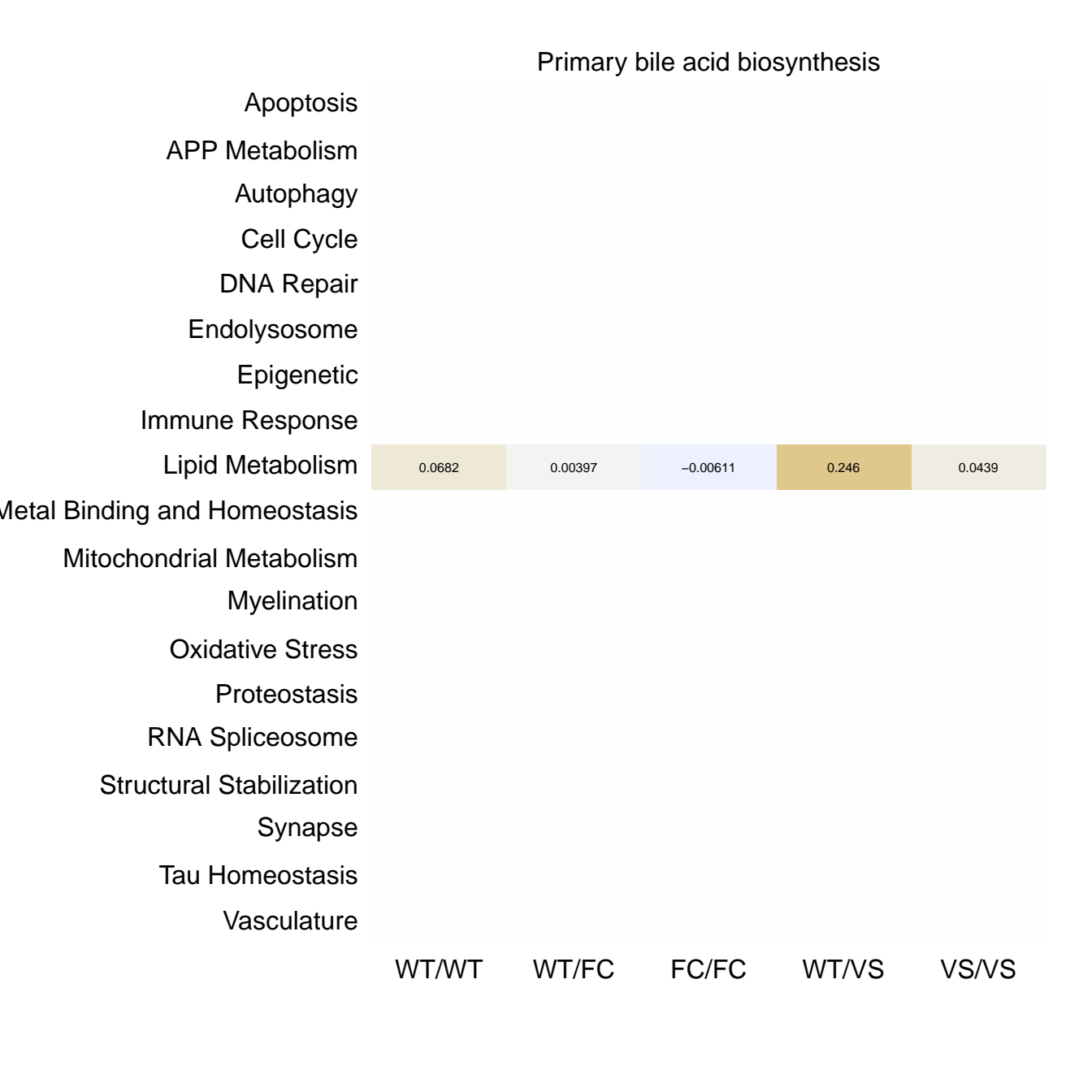


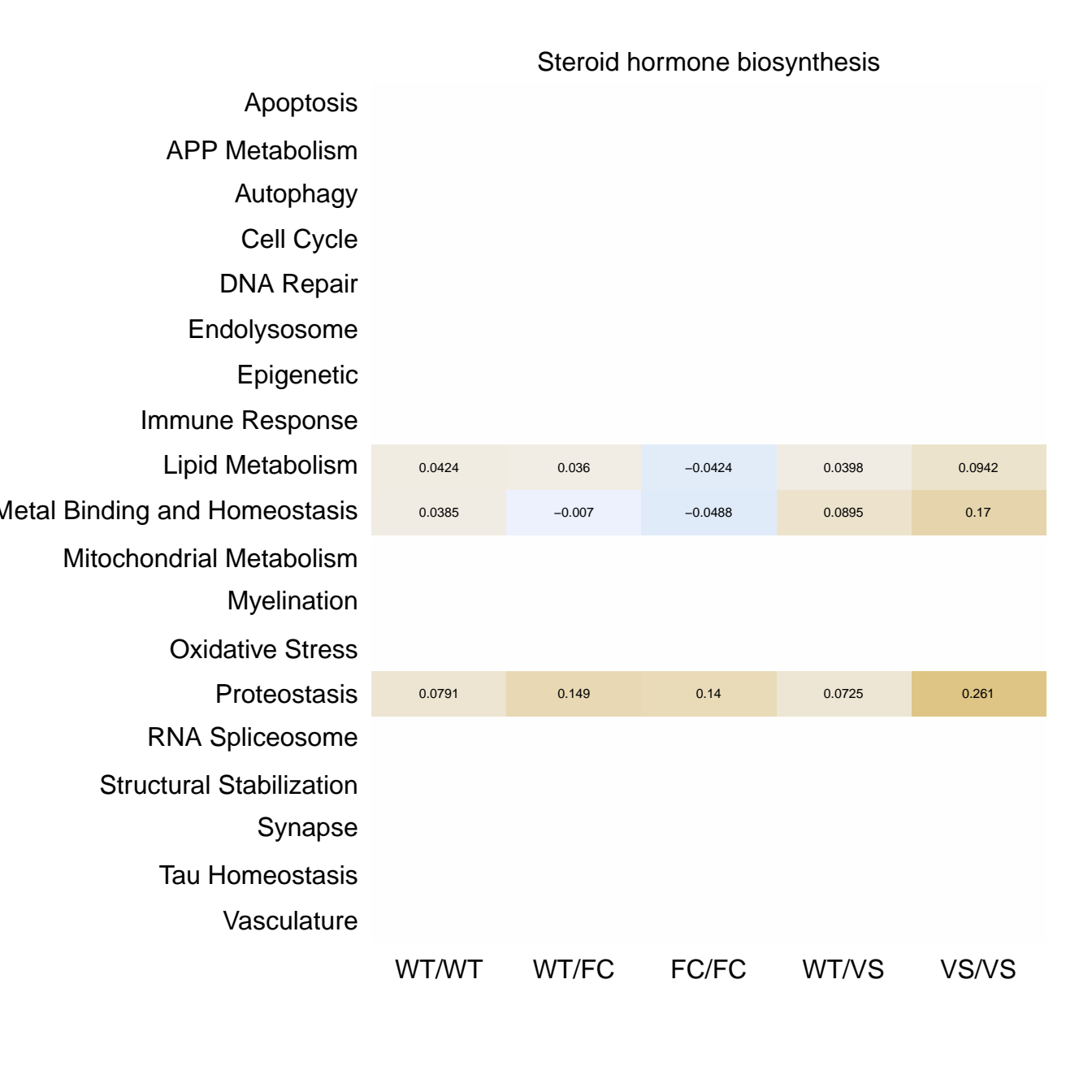












Glycerolipid metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.274	0.195	0.222	0.299	0.369
Lipid Metabolism	0.0595	0.0658	0.0991	0.0694	0.057
Metal Binding and Homeostasis	-0.00852	-0.0143	0.137	-0.0237	0.00464
Mitochondrial Metabolism	0.138	0.117	0.288	0.204	0.175
Myelination					
Oxidative Stress					
Proteostasis	0.114	0.135	0.162	0.111	0.158
RNA Spliceosome					
Structural Stabilization					
Synapse	0.117	0.119	0.242	0.2	0.0785
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Glycerophospholipid metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0395	−0.0903	−0.0774	−0.0183	−0.118
Epigenetic					
Immune Response	0.0483	0.0239	−0.0144	0.115	0.148
Lipid Metabolism	0.0509	0.123	0.134	0.0862	0.111
Metal Binding and Homeostasis	0.0148	0.113	0.113	0.00423	0.0509
Mitochondrial Metabolism	−0.053	0.0315	0.0591	0.051	0.0321
Myelination					
Oxidative Stress					
Proteostasis	0.113	0.238	0.237	0.173	0.224
RNA Spliceosome					
Structural Stabilization	0.202	0.195	0.305	0.237	0.213
Synapse	0.0754	0.126	0.215	0.0641	0.136
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

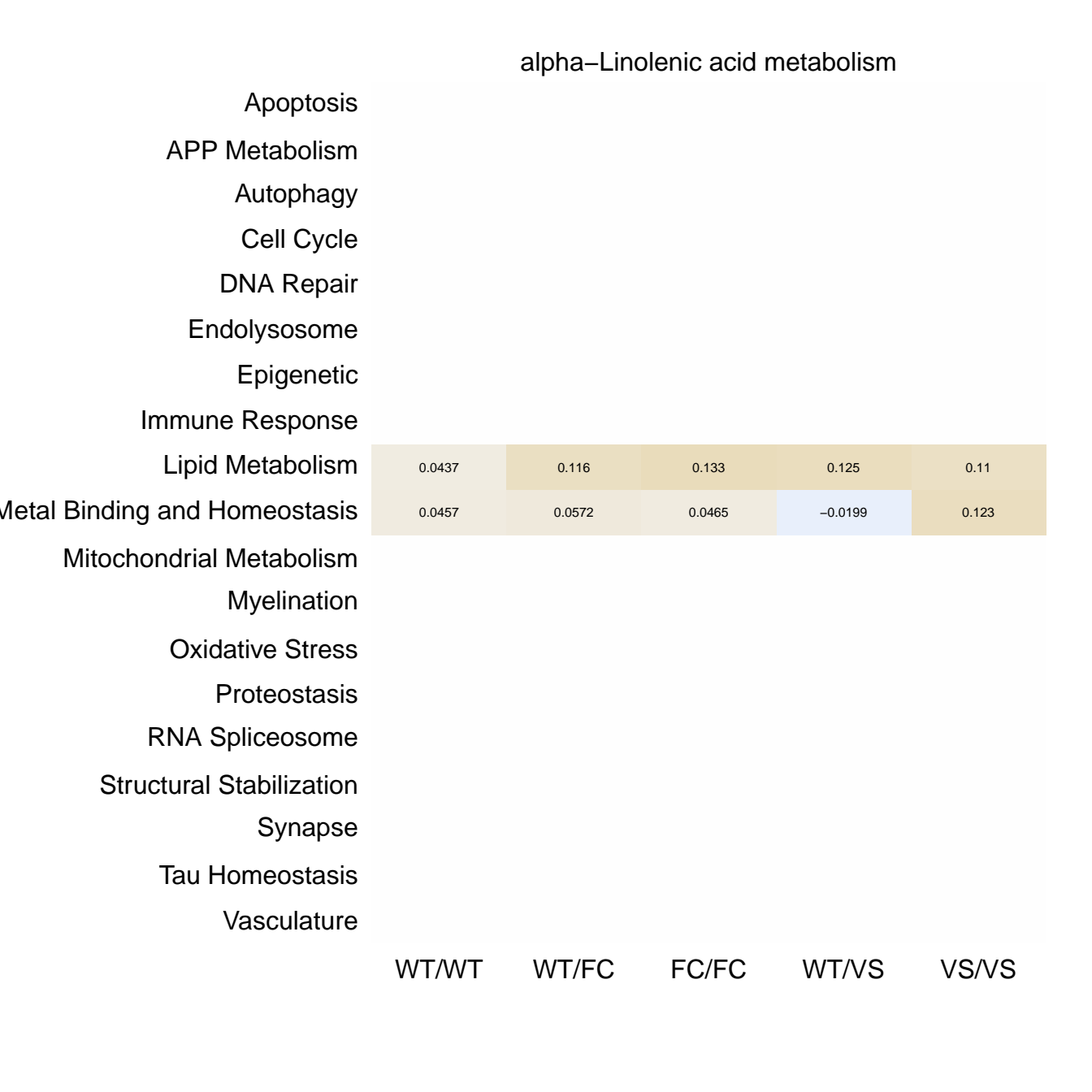
	Ether lipid metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.16	−0.141	−0.135	−0.172	−0.123
Epigenetic					
Immune Response	−0.0996	0.0234	0.0342	−0.035	0.106
Lipid Metabolism	0.00956	0.137	0.0791	0.0618	0.115
Metal Binding and Homeostasis	−0.0378	0.154	−0.0171	−0.0811	0.11
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.0267	0.0961	0.0133	0.117	0.123
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

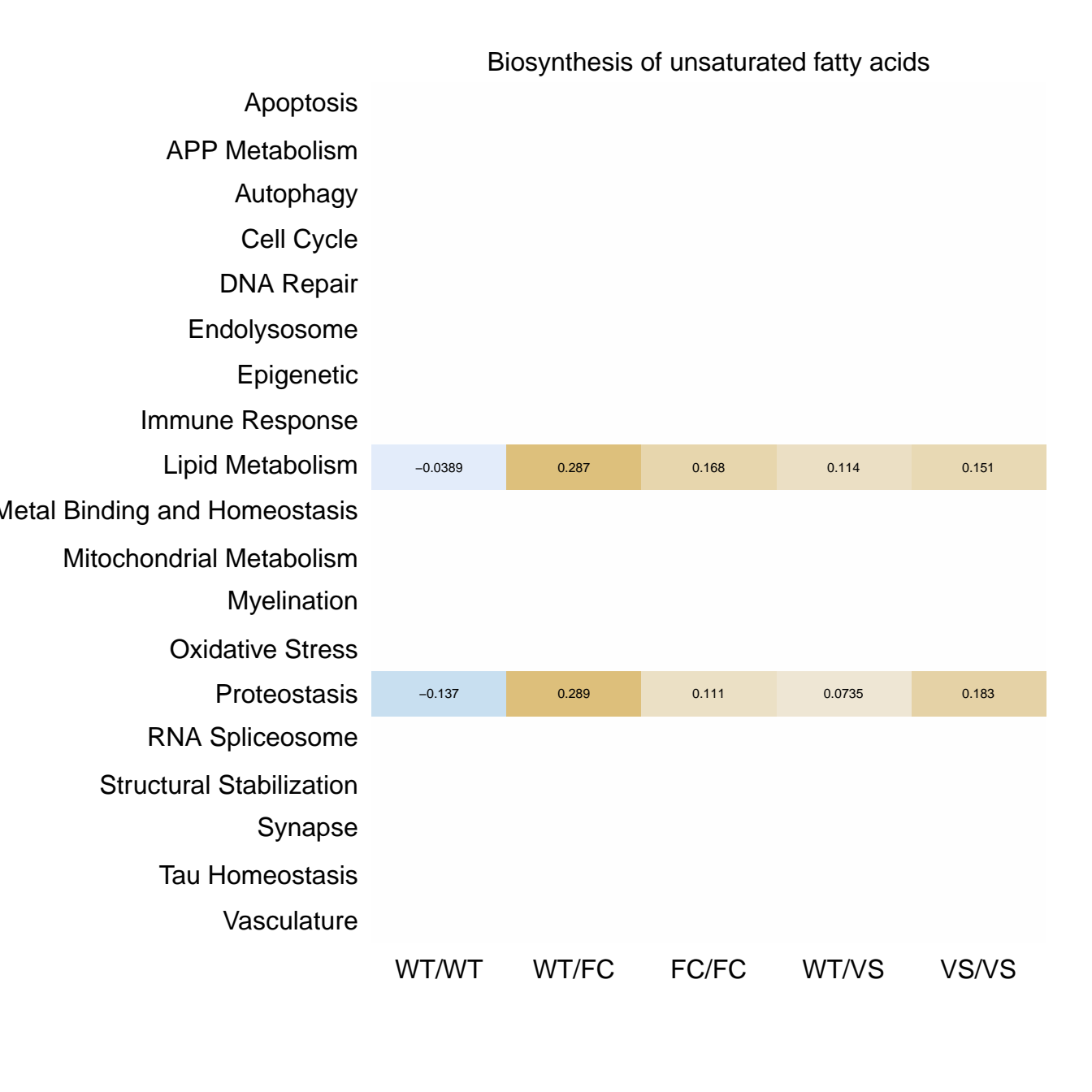
Spingolipid metabolism					
Apoptosis	0.0524	0.354	0.0823	0.0493	0.239
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.107	0.139	0.0727	0.285	0.144
Epigenetic					
Immune Response	0.178	0.27	0.233	0.0936	0.308
Lipid Metabolism	0.0303	0.18	0.0435	0.146	0.117
Metal Binding and Homeostasis	0.076	0.28	0.0996	0.191	0.112
Mitochondrial Metabolism					
Myelination	-0.0884	0.326	-0.0245	-0.00543	0.226
Oxidative Stress					
Proteostasis	0.041	0.22	0.0476	0.135	0.144
RNA Spliceosome					
Structural Stabilization					
Synapse	-0.0484	0.266	-0.0254	0.222	0.0253
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Arachidonic acid metabolism

	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	-0.0409	-0.134	-0.000479	0.118	0.0889
Lipid Metabolism	0.0218	-0.103	0.0156	0.13	0.0787
Metal Binding and Homeostasis	0.0261	-0.106	0.0509	0.0213	0.0663
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	-0.0479	-0.237	-0.0945	0.127	-0.0341
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					

Linoleic acid metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.0243	-0.0152	0.00283	0.0941	0.0652
Metal Binding and Homeostasis	0.0473	0.0374	-0.00278	0.0502	0.0865
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

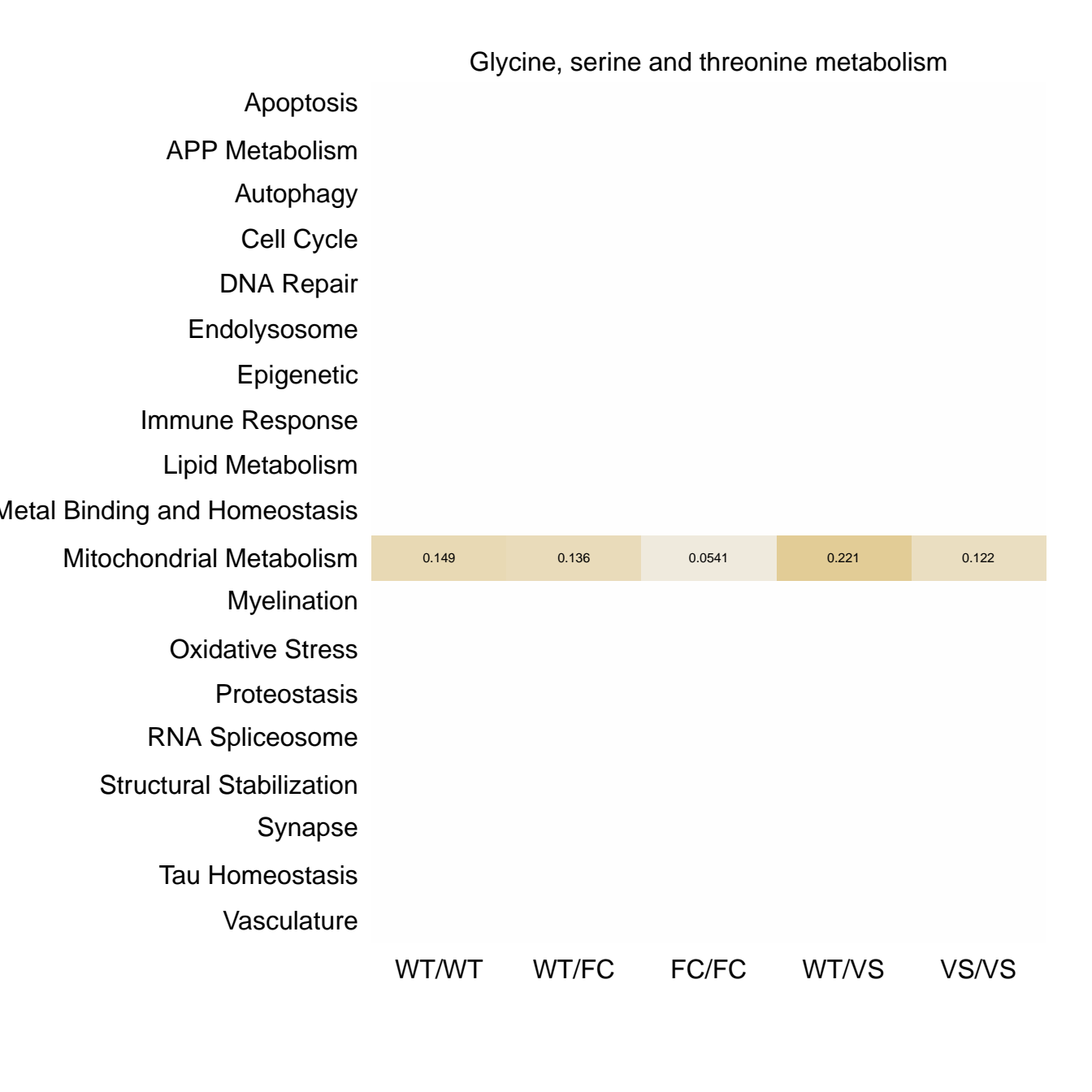


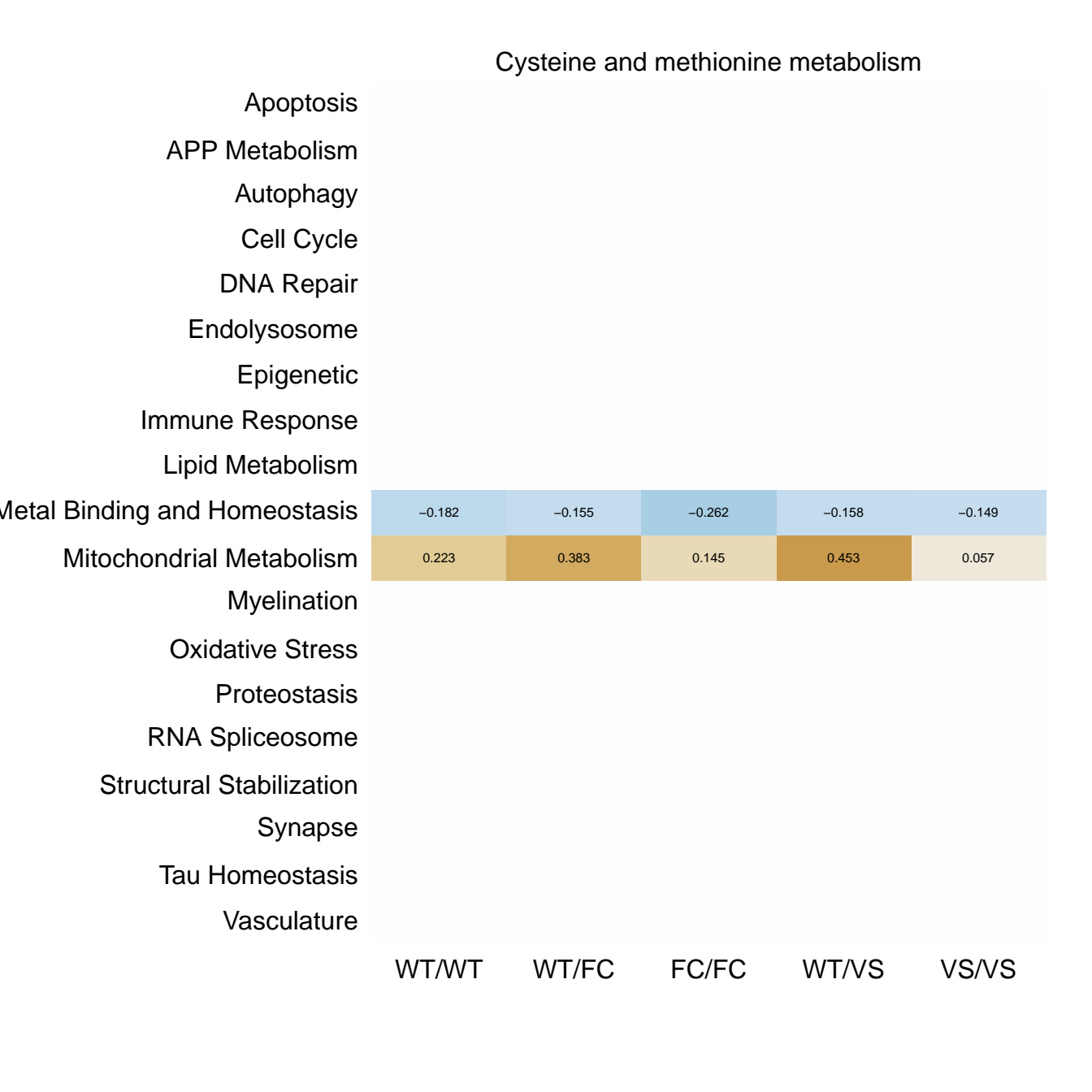


Purine metabolism					
Apoptosis	0.128	−0.103	−0.108	0.186	−0.124
APP Metabolism					
Autophagy					
Cell Cycle	0.0395	0.121	0.0733	0.0578	−0.0554
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	−0.0281	0.163	0.164	0.0577	−0.0659
Lipid Metabolism	0.00119	0.0443	0.0494	−0.086	−0.0957
Metal Binding and Homeostasis	−0.0462	0.0288	0.0391	−0.0422	−0.0643
Mitochondrial Metabolism	0.116	0.147	−0.0481	0.105	−0.112
Myelination					
Oxidative Stress					
Proteostasis	0.188	0.187	0.0185	0.143	0.00283
RNA Spliceosome					
Structural Stabilization	0.16	0.153	0.186	0.269	0.135
Synapse	−0.0859	0.0129	0.188	−0.131	−0.0554
Tau Homeostasis					
Vasculature	−0.165	0.0431	0.134	−0.143	0.0583
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Pyrimidine metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	0.0766	0.0571	-0.0556	0.125	0.0397
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	0.0383	-0.0998	-0.0874	0.0614	-0.0786
Mitochondrial Metabolism	0.158	0.161	-0.127	0.111	-0.0969
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	−0.0478	0.109	0.0957	0.00346	0.0306
Mitochondrial Metabolism	−0.0876	0.0267	0.0393	−0.0142	0.00806
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

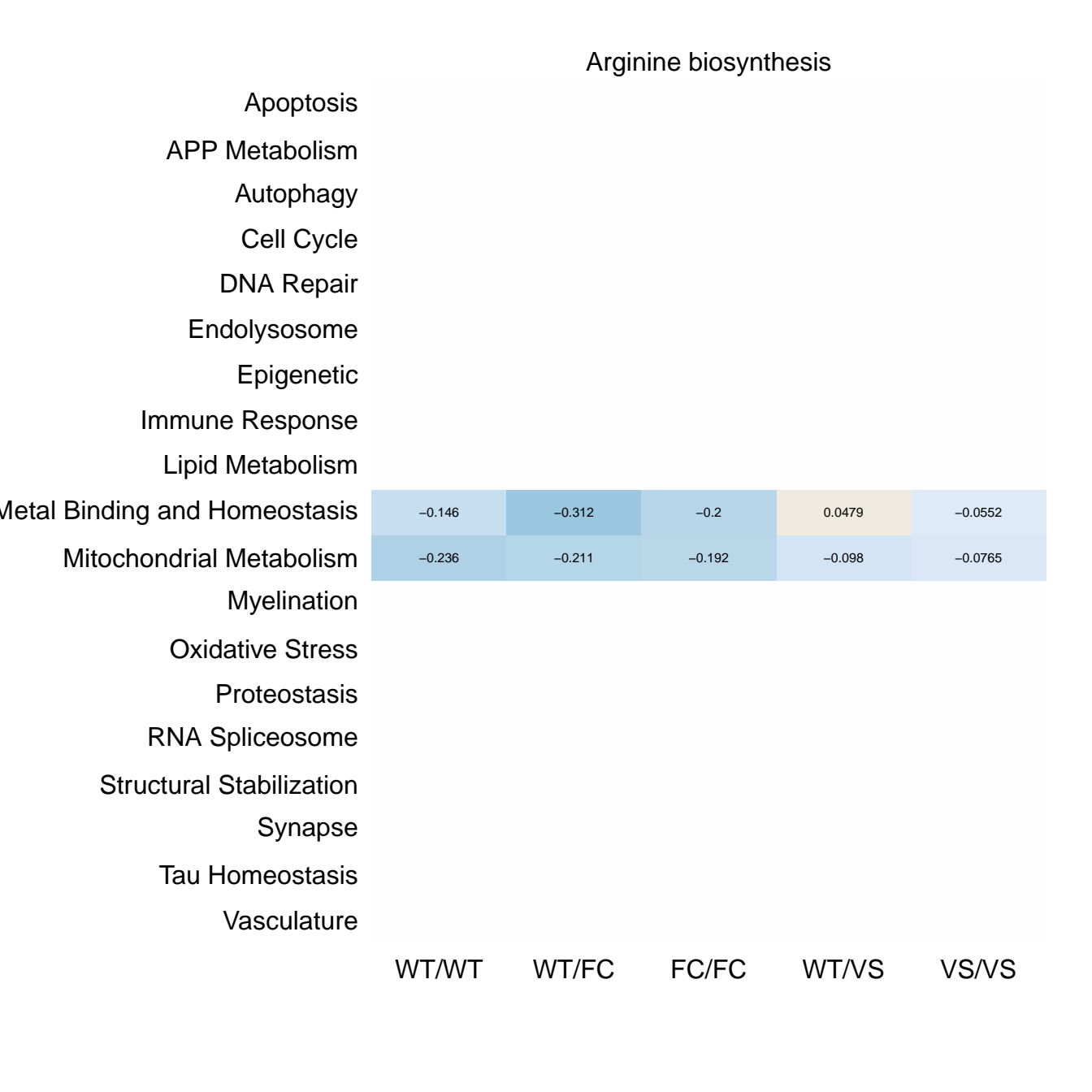




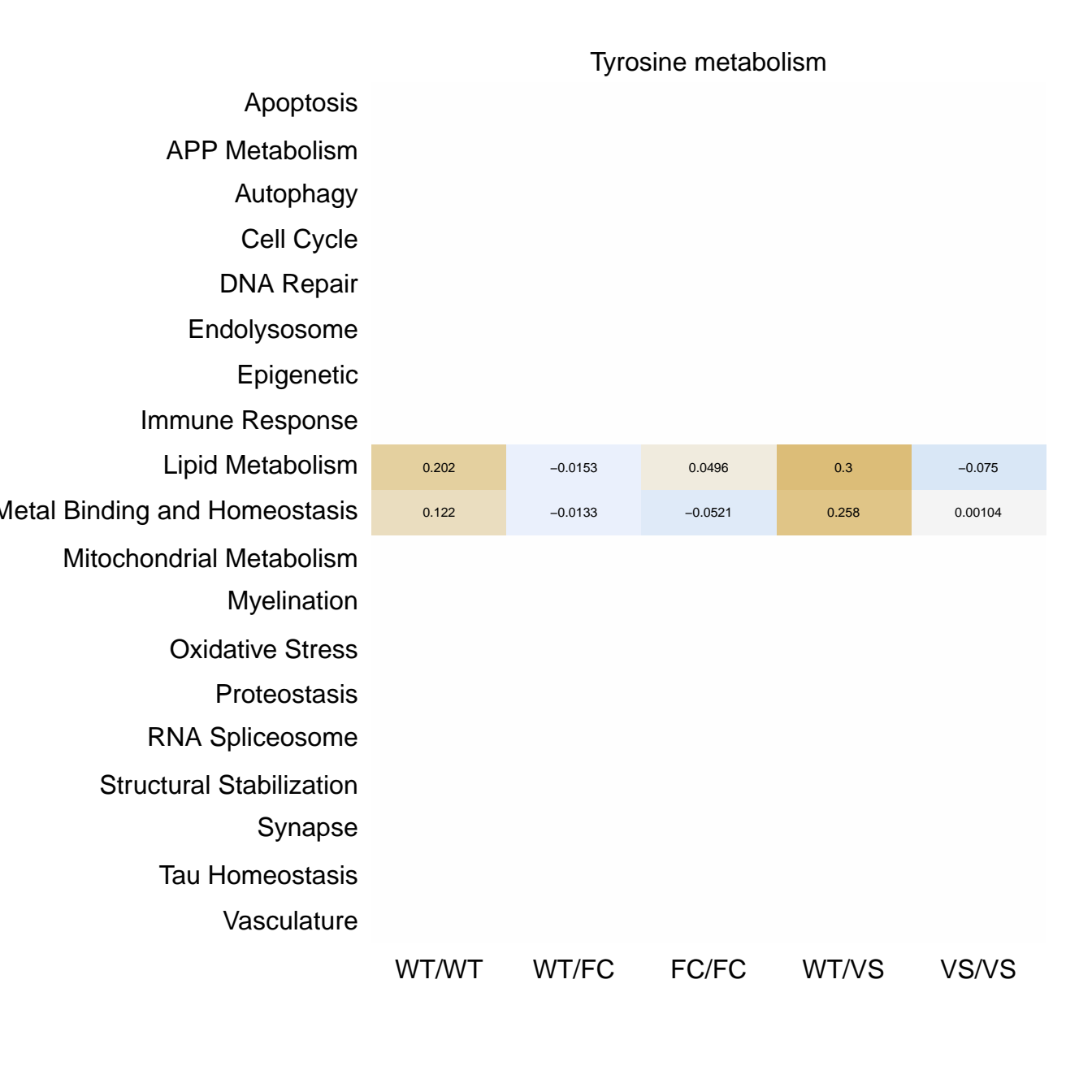
Valine, leucine and isoleucine degradation

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.0139	0.0668	-0.0622	0.134	-0.0833
Metal Binding and Homeostasis	-0.00782	-0.034	-0.0778	0.00946	-0.153
Mitochondrial Metabolism	0.0134	0.0688	-0.00483	0.21	-0.0381
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

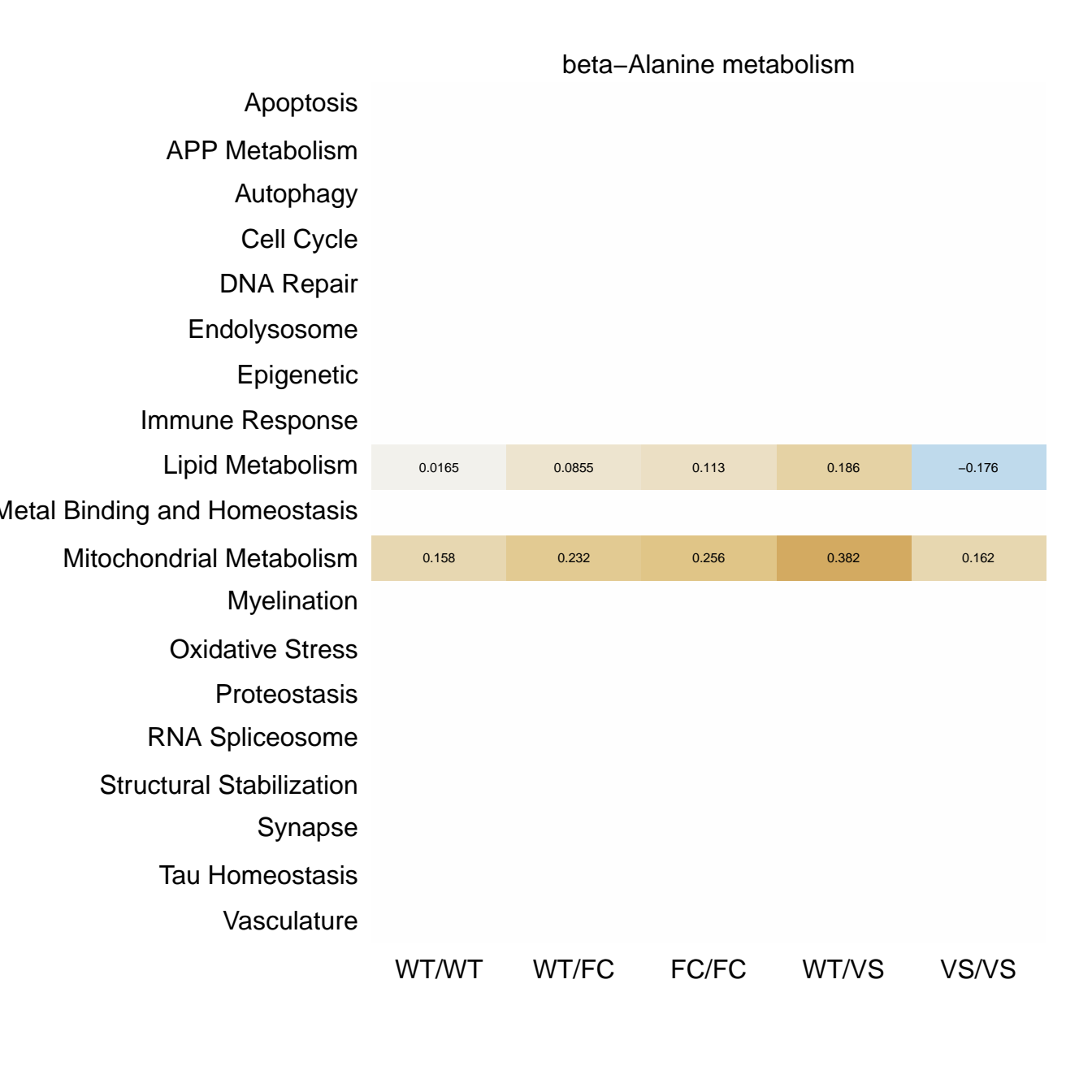
Lysine degradation					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	-0.0467	0.0457	0.0343	-0.0927	-0.0931
DNA Repair					
Endolysosome					
Epigenetic	-0.117	-0.0469	0.0676	-0.212	-0.125
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	-0.094	-0.0785	-0.0183	-0.213	-0.0994
Mitochondrial Metabolism	0.0219	0.0945	-0.00285	0.0749	-0.0405
Myelination					
Oxidative Stress					
Proteostasis	0.0258	-0.0421	-0.0495	-0.125	0.0418
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



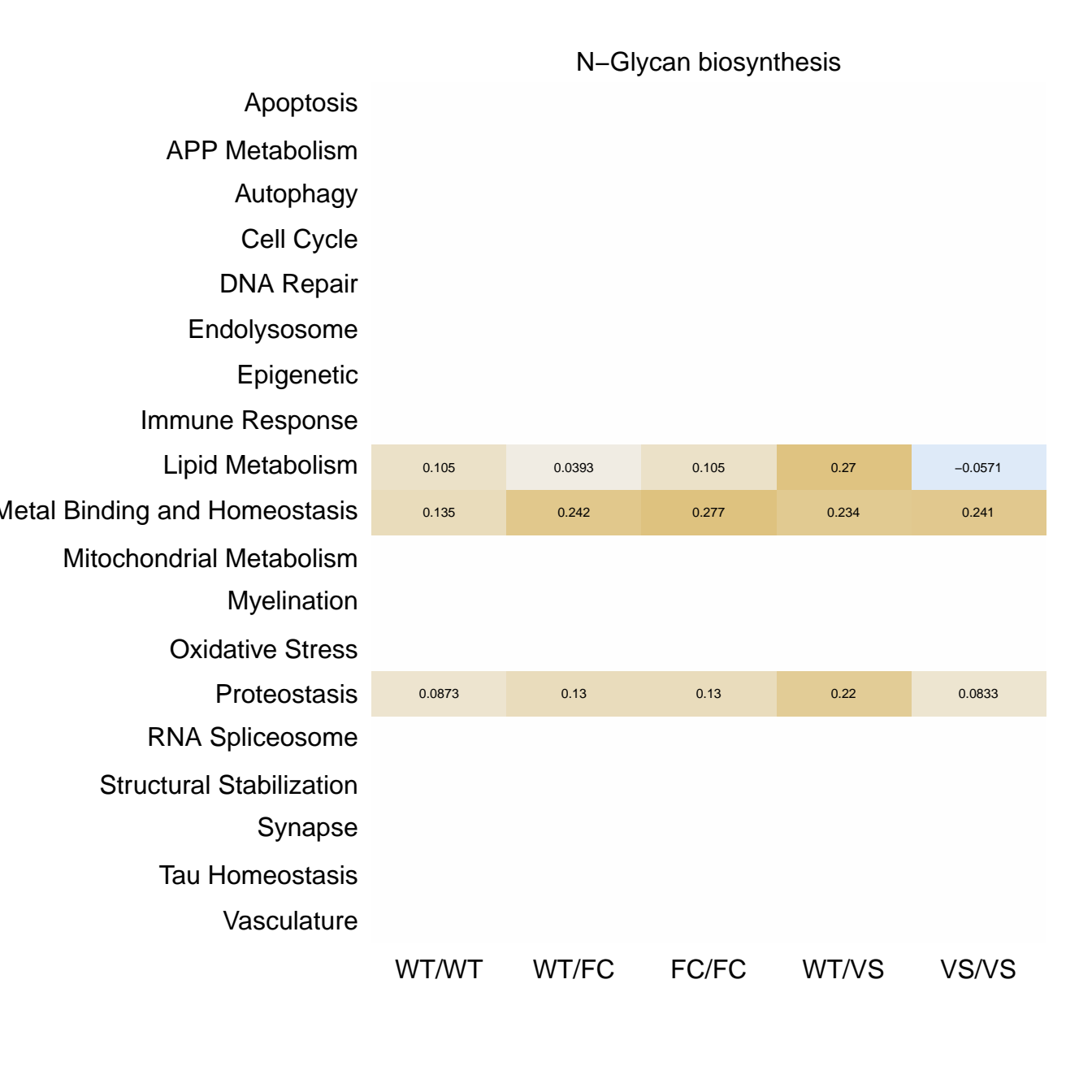
Arginine and proline metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	0.00411	-0.0996	-0.0892	0.0443	0.0738
Mitochondrial Metabolism	0.185	0.154	0.168	0.432	0.102
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



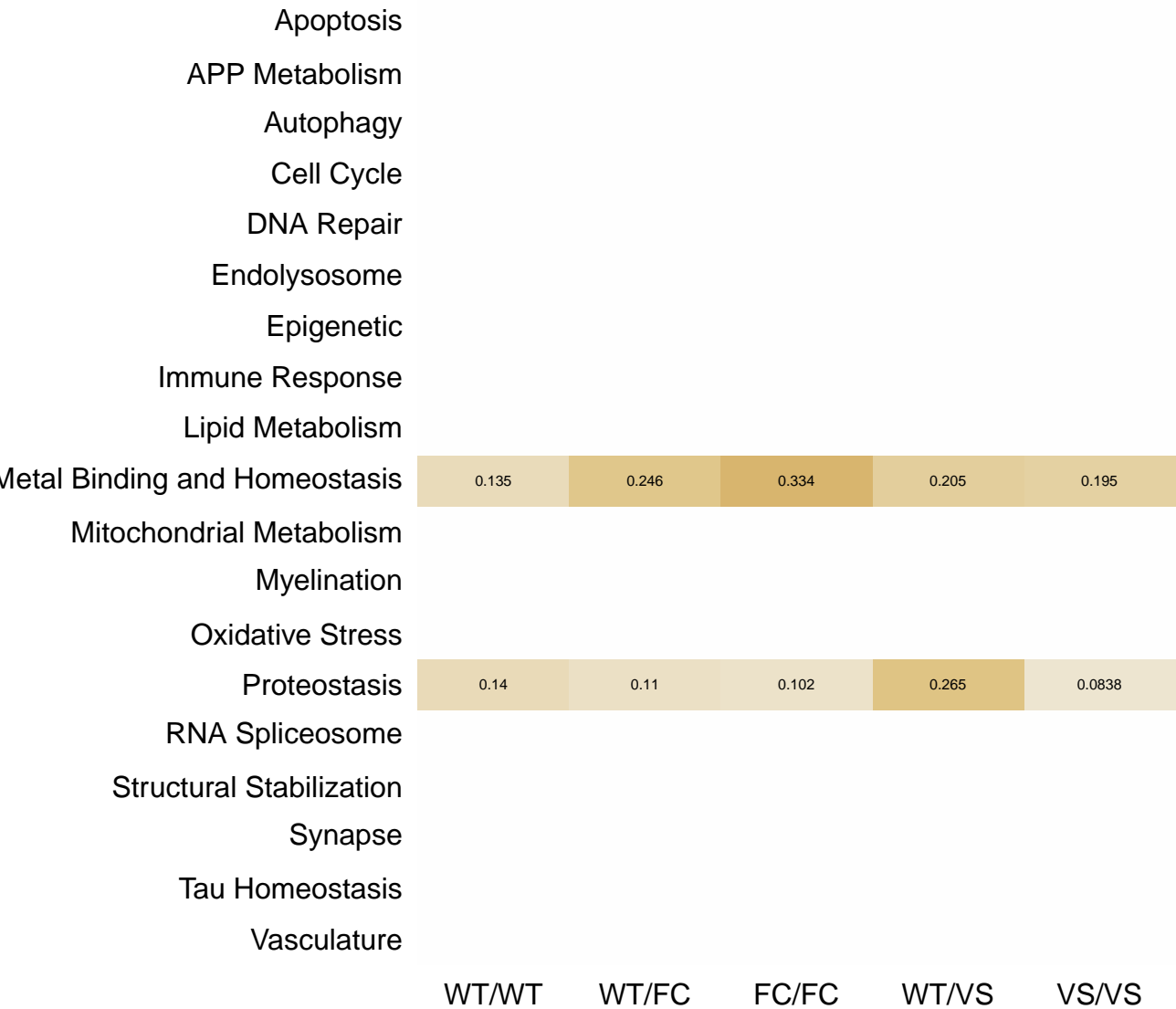
	Tryptophan metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.0144	0.0326	-0.109	-0.00151	0.00667
Metal Binding and Homeostasis	0.174	0.148	-0.0852	0.0146	0.202
Mitochondrial Metabolism	0.0925	0.165	0.0361	0.186	0.0674
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

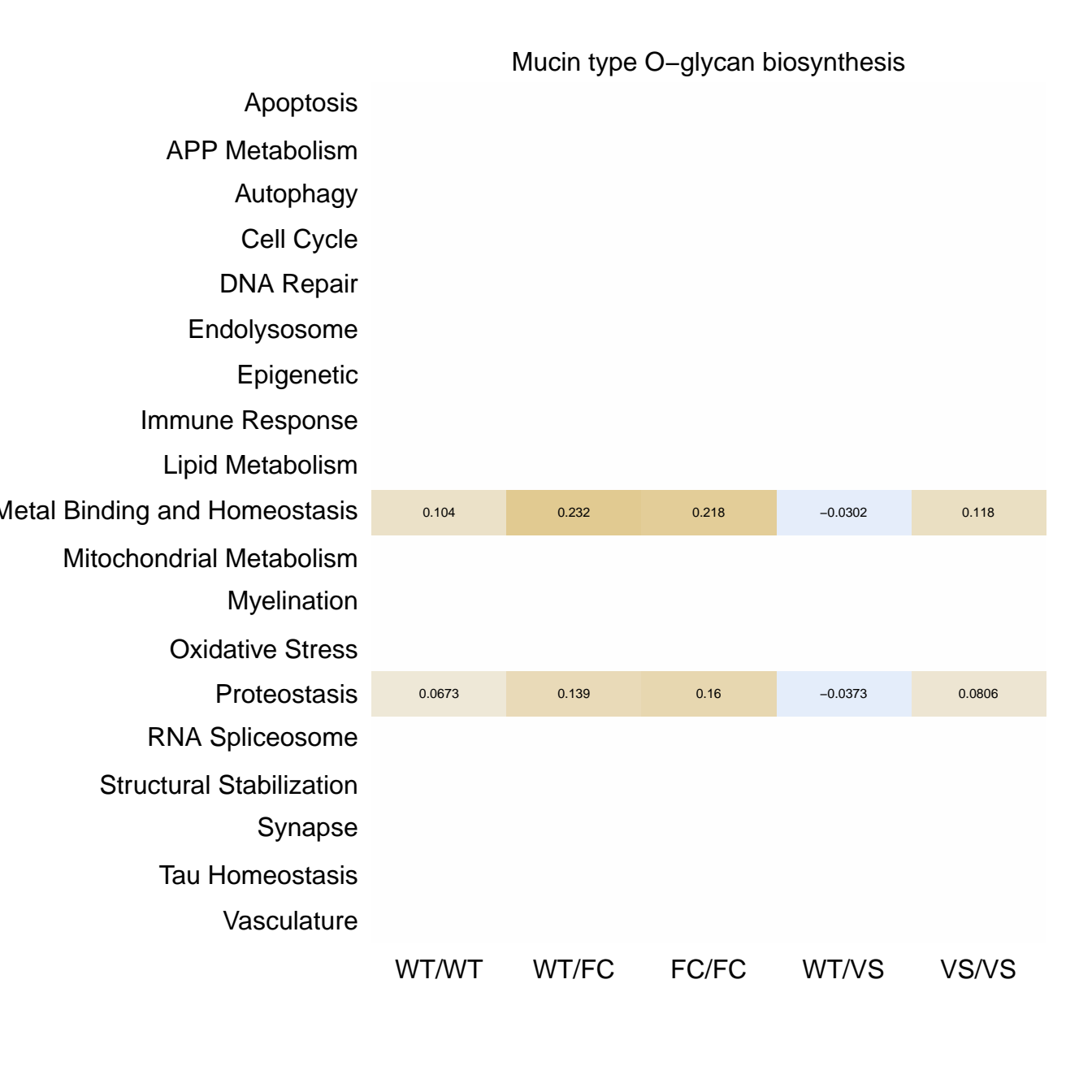


	Glutathione metabolism				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.26	0.452	0.316	0.438	0.239
Lipid Metabolism	0.274	0.205	0.123	0.448	0.213
Metal Binding and Homeostasis	0.193	0.257	0.122	0.145	0.312
Mitochondrial Metabolism	0.233	0.347	0.0507	0.317	0.26
Myelination					
Oxidative Stress	0.204	0.262	−0.0468	0.307	0.117
Proteostasis	0.0991	0.111	−0.076	0.382	−0.0164
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

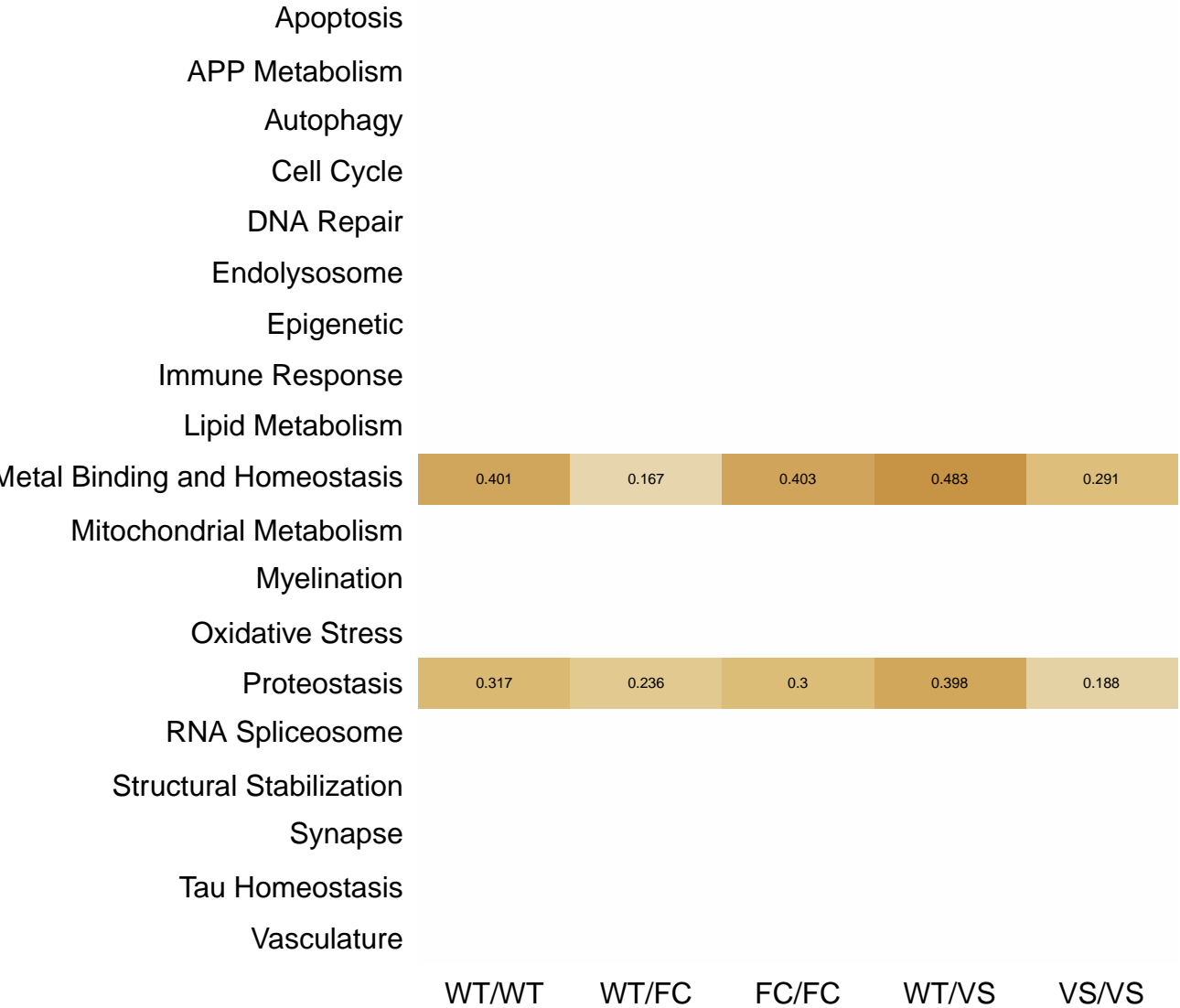


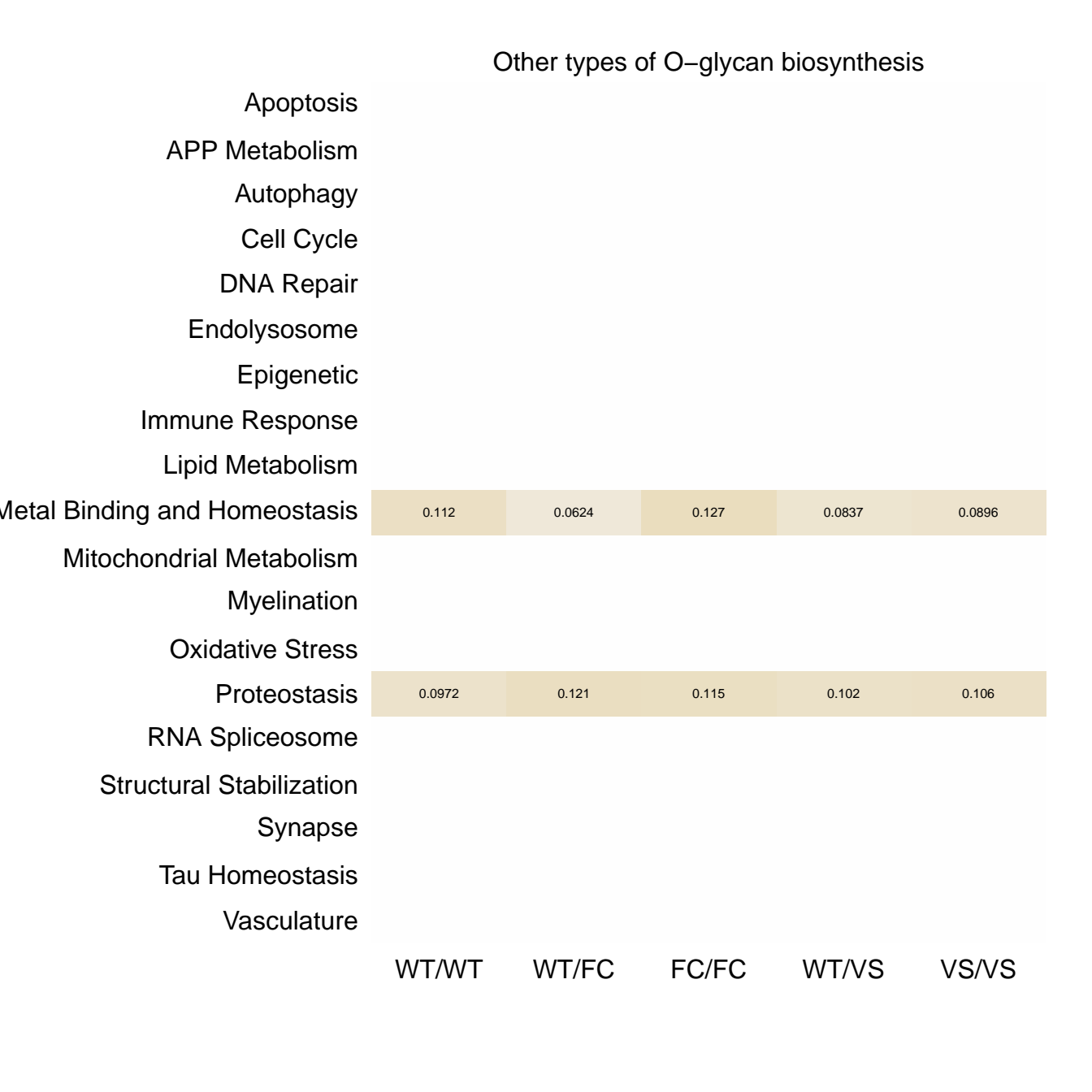
Various types of N-glycan biosynthesis

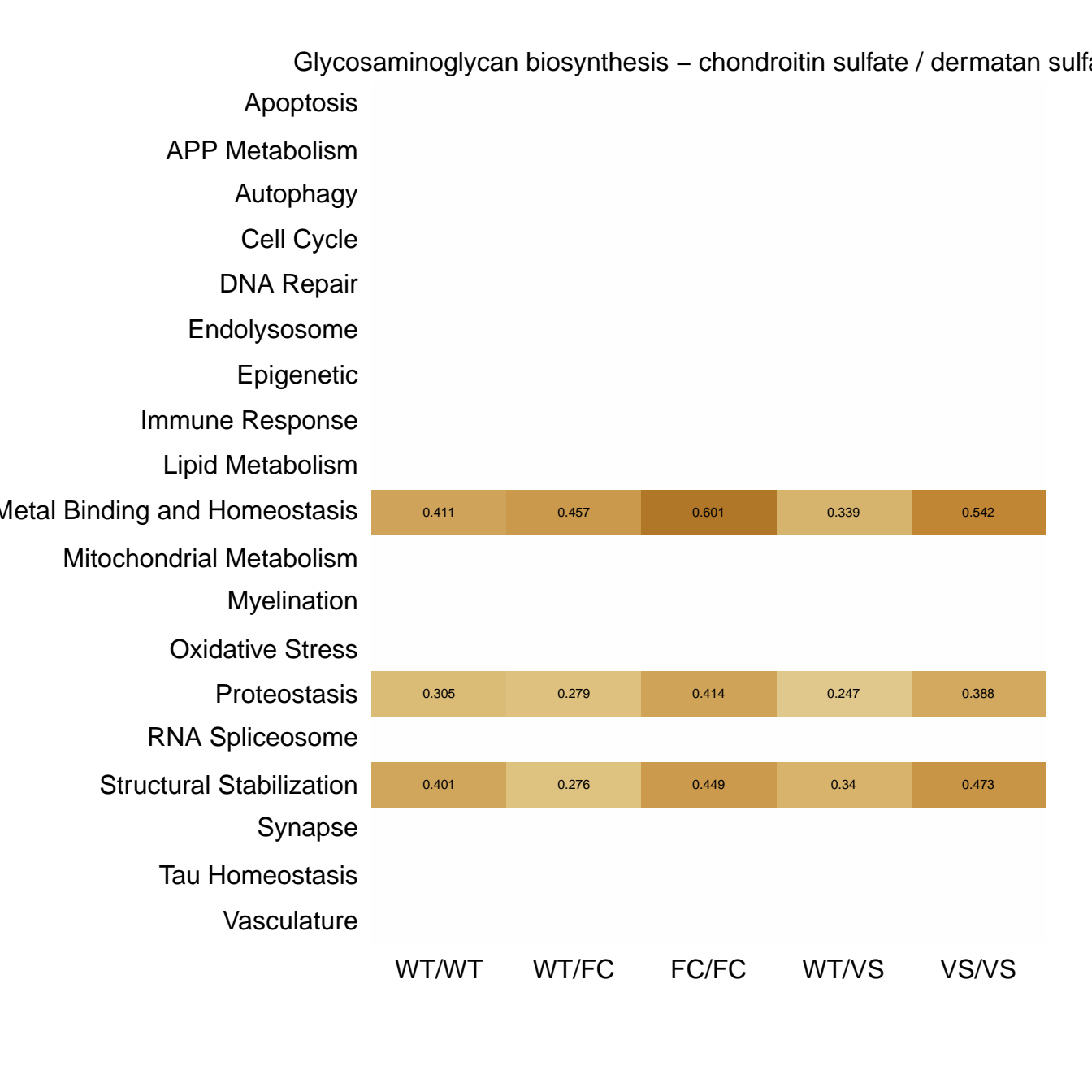


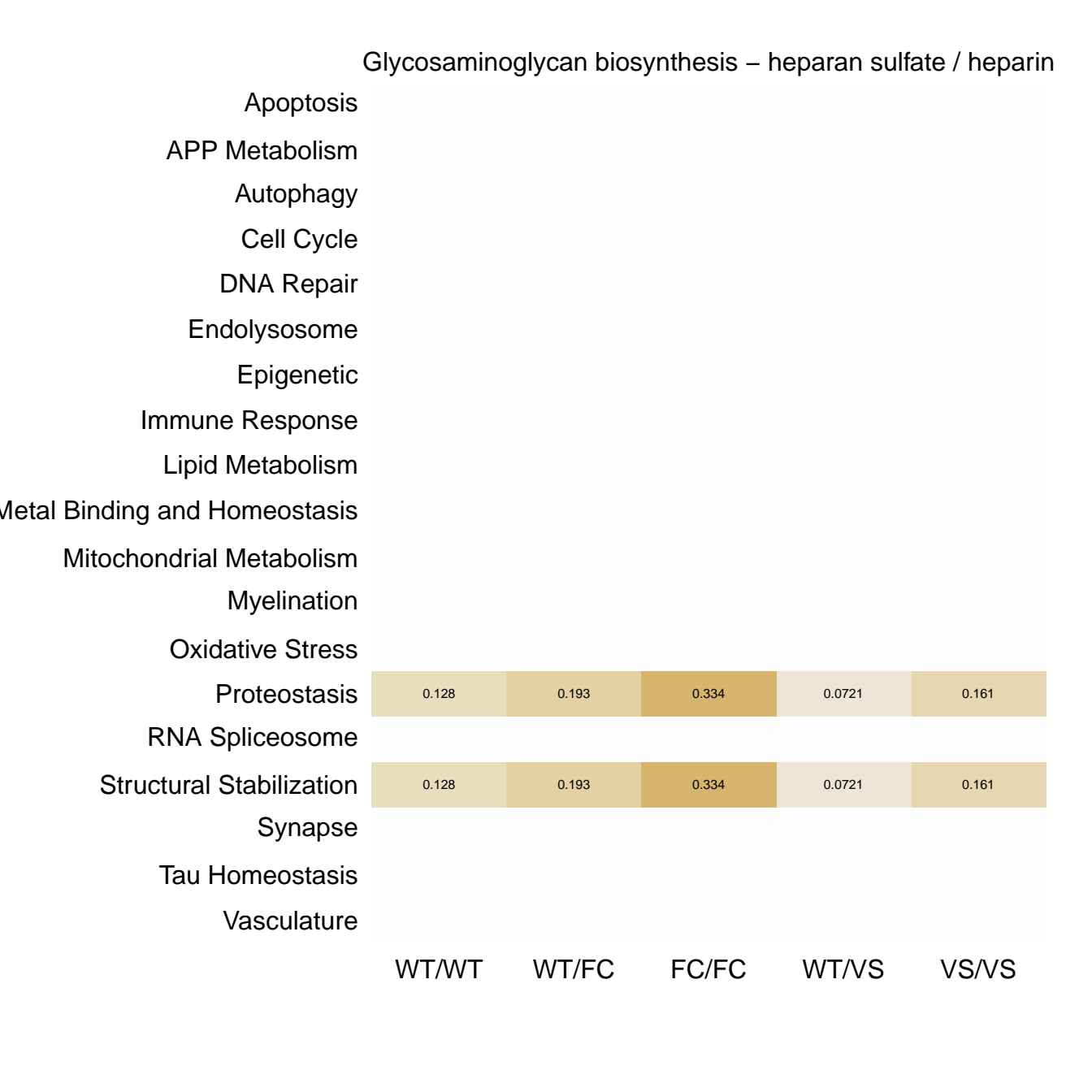


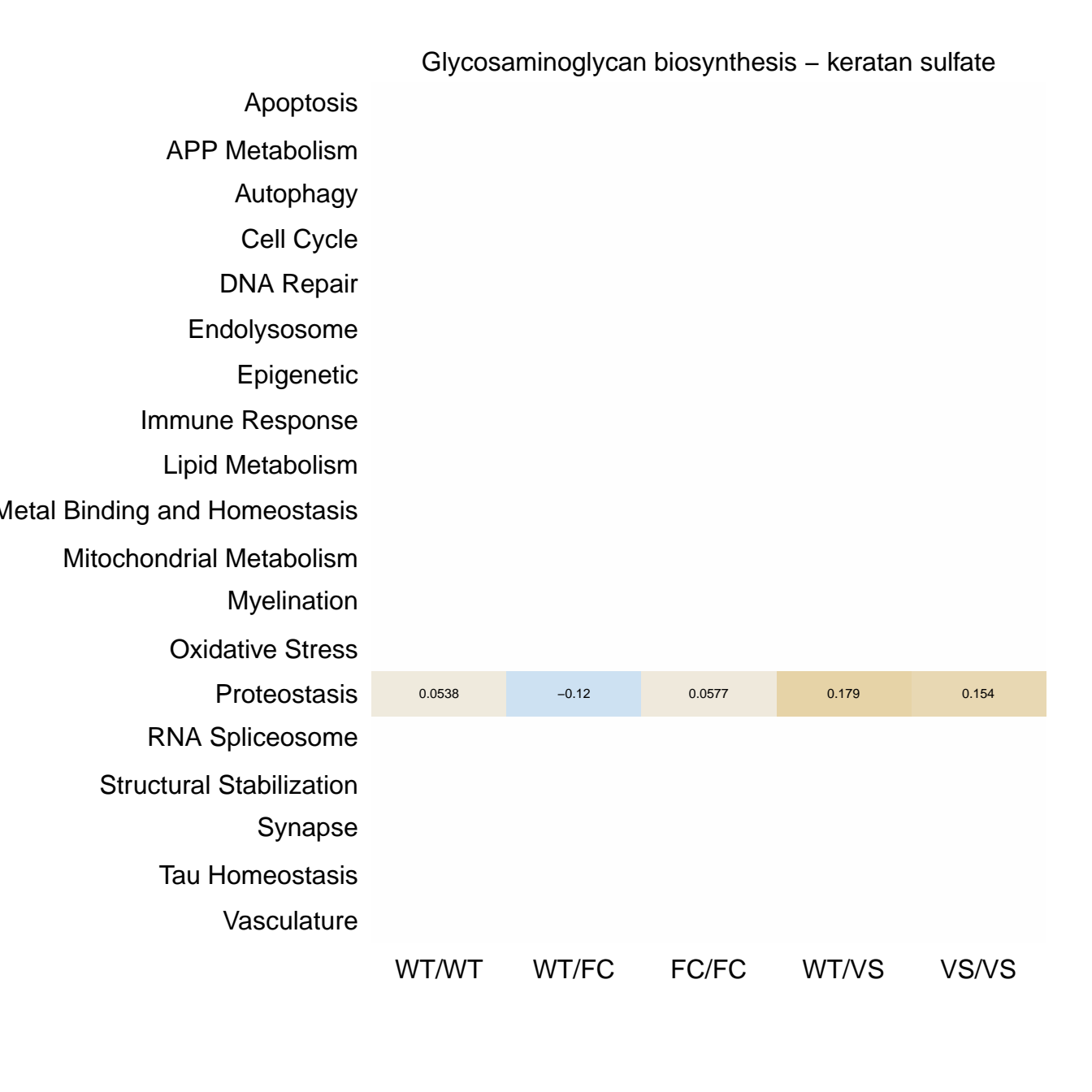
Mannose type O-glycan biosynthesis

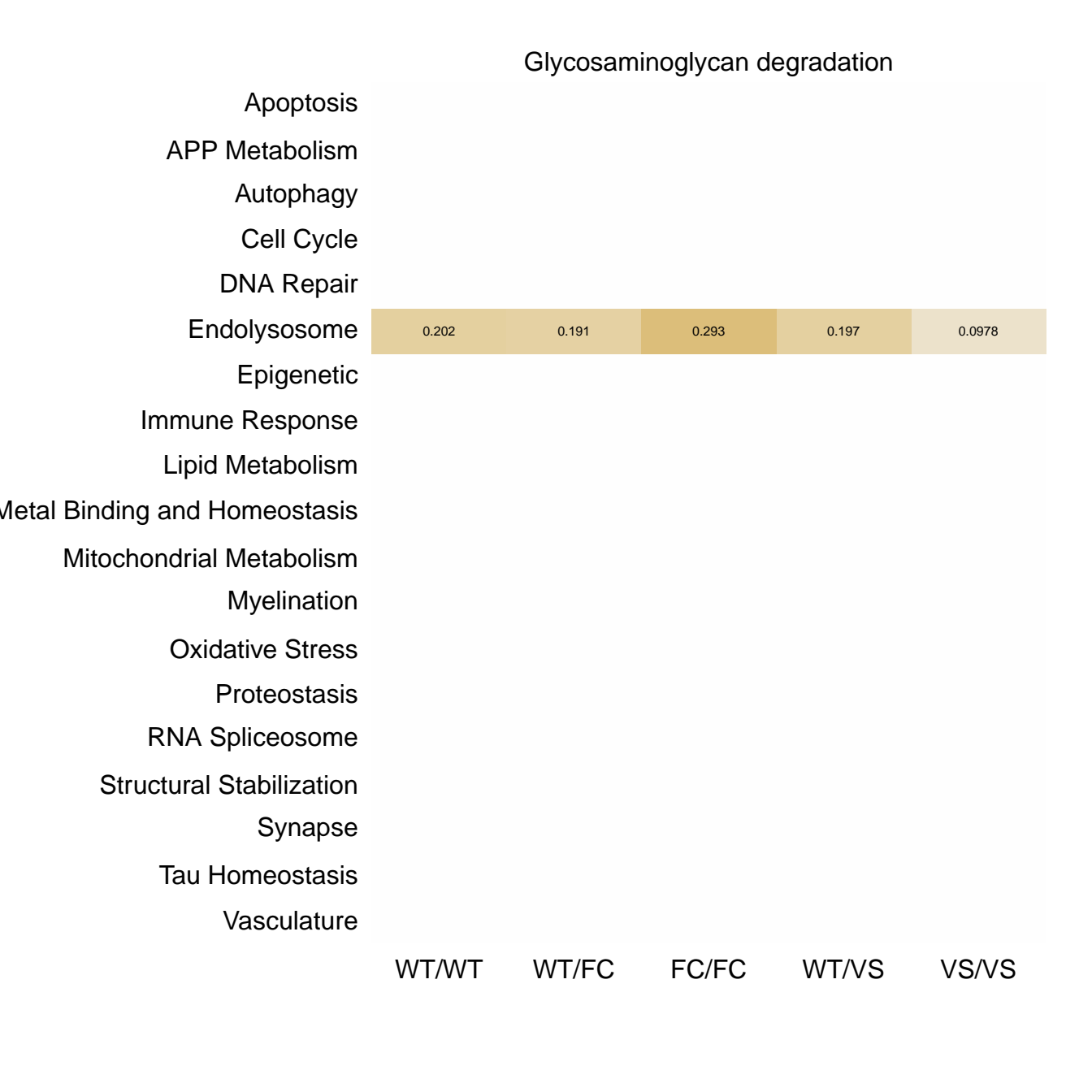


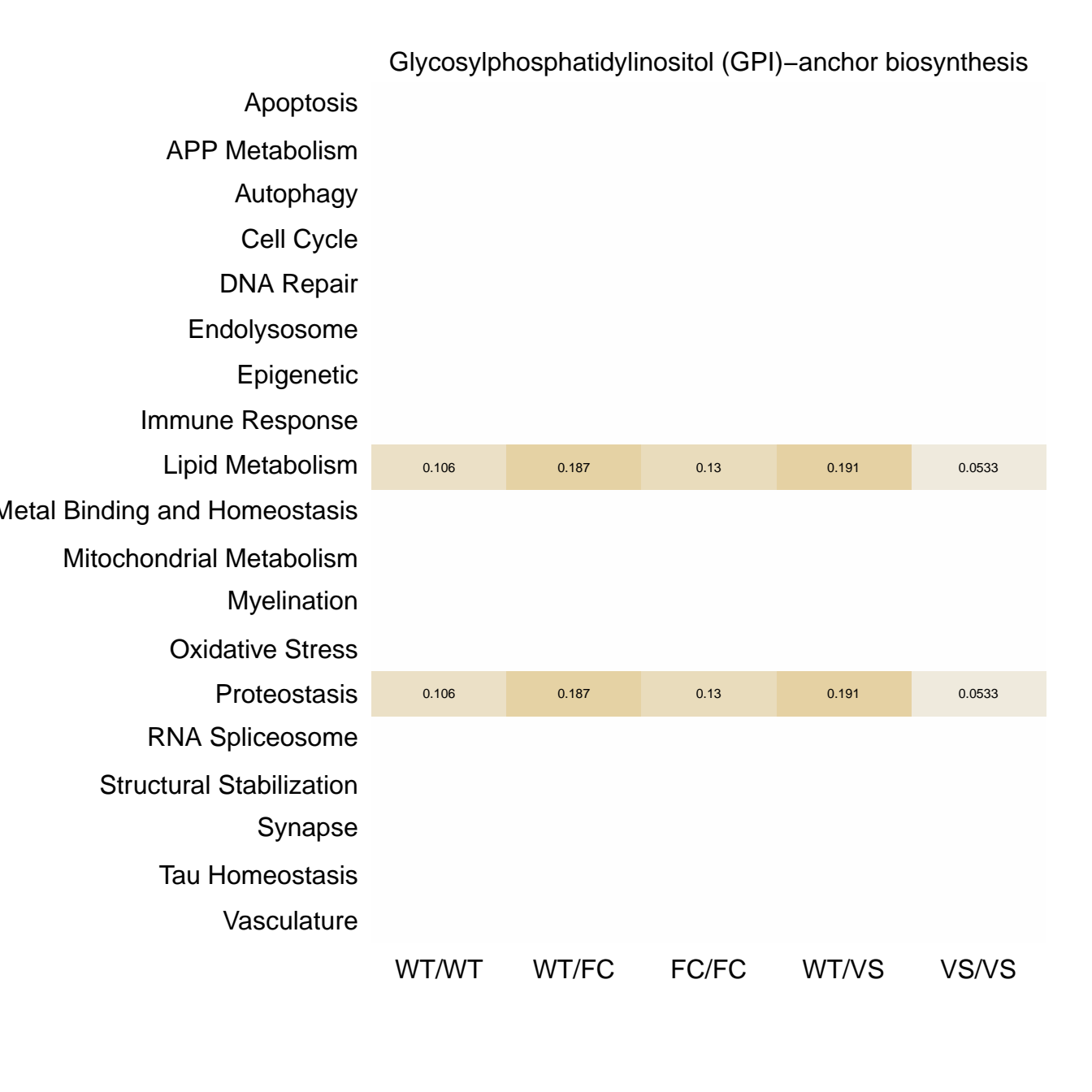


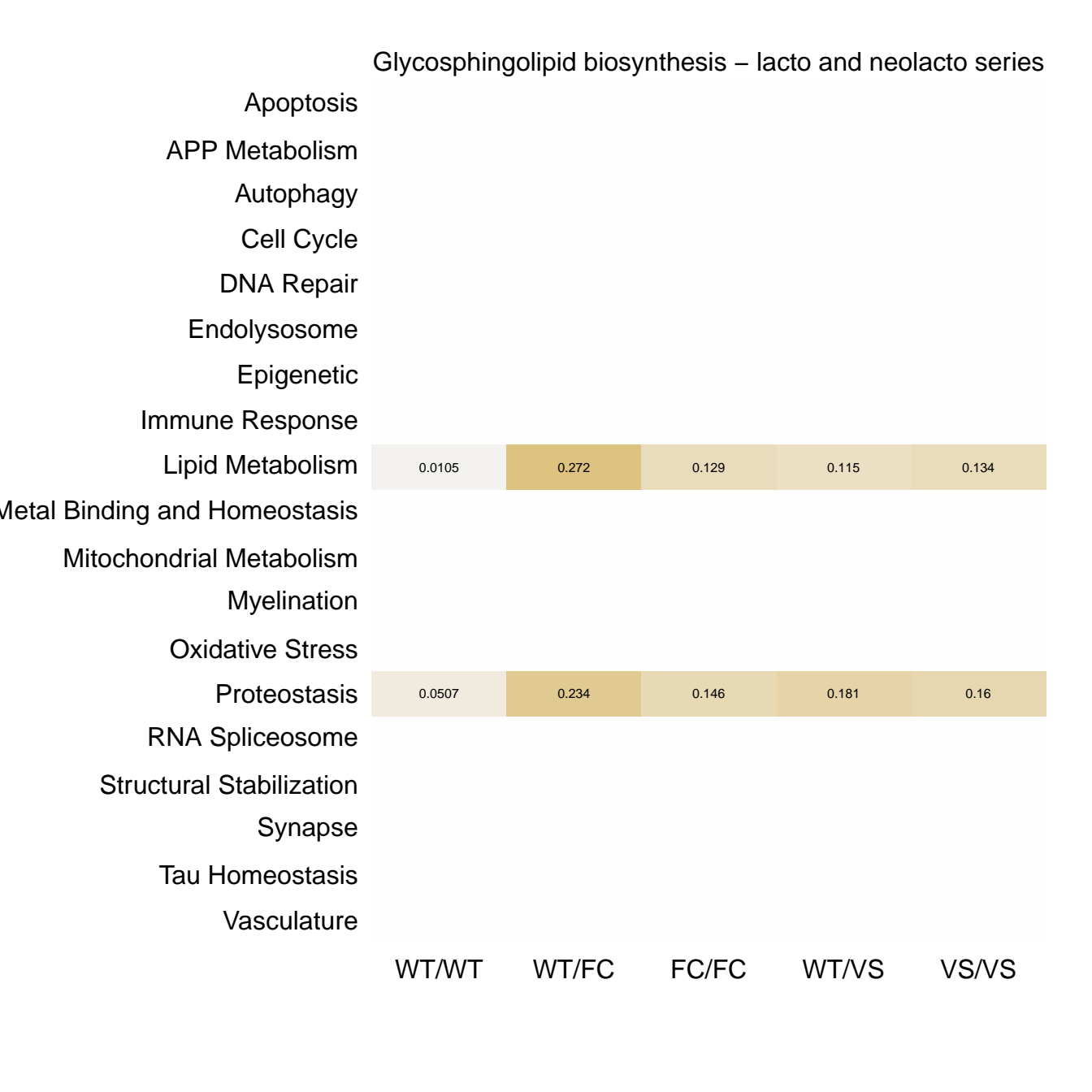




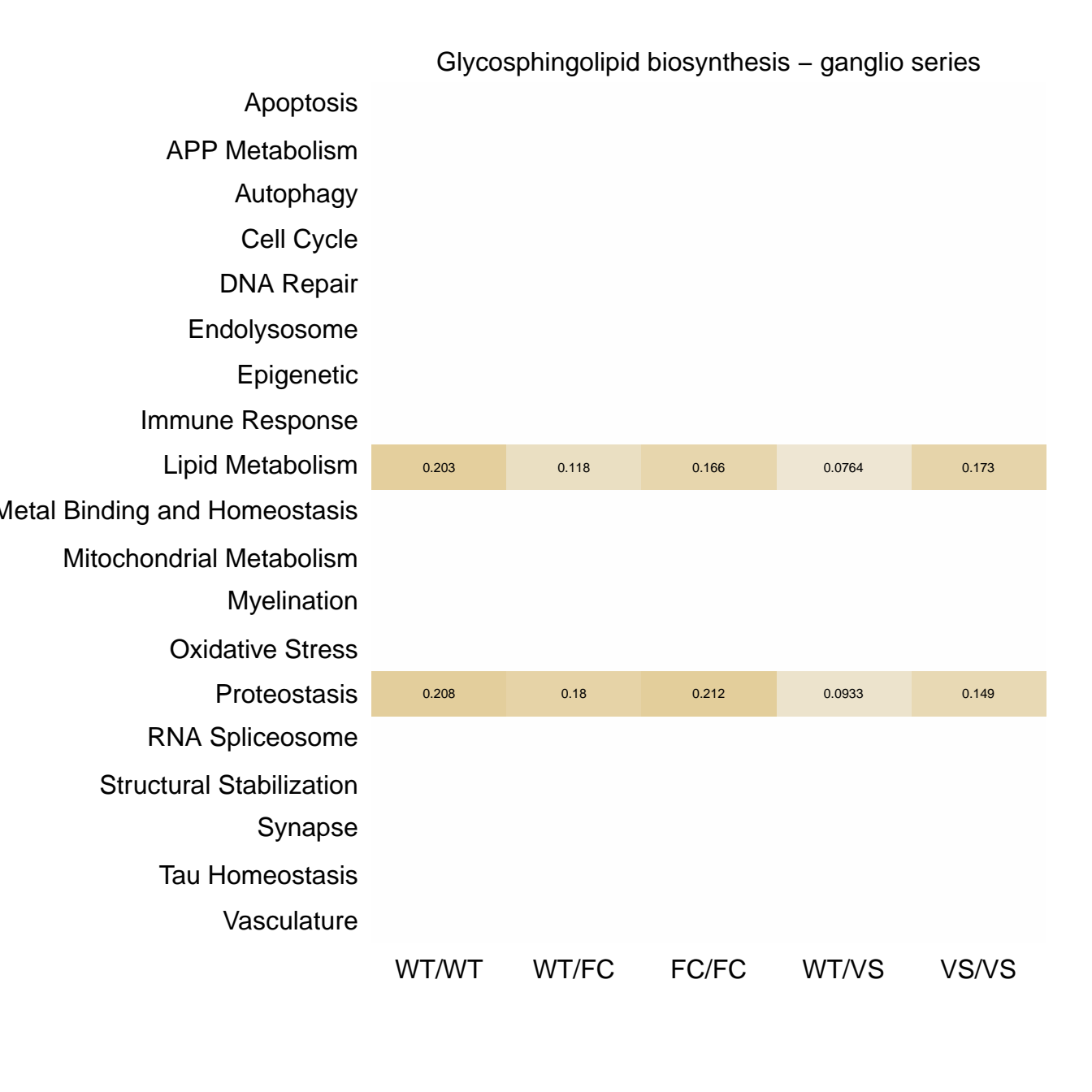


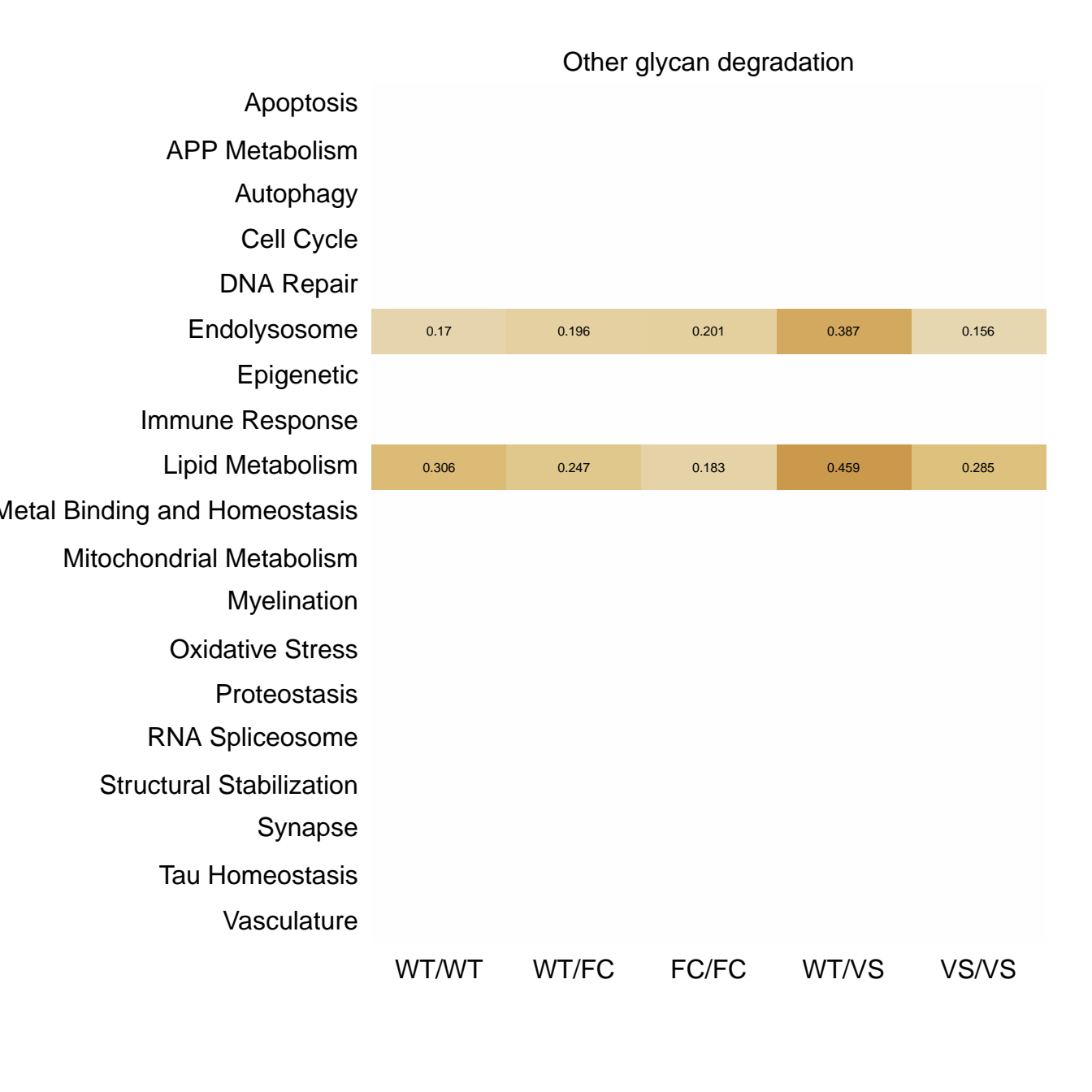






Glycosphingolipid biosynthesis – globo and isoglobo series					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.0525	0.229	0.158	0.14	0.259
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.00943	0.237	0.195	0.0794	0.197
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

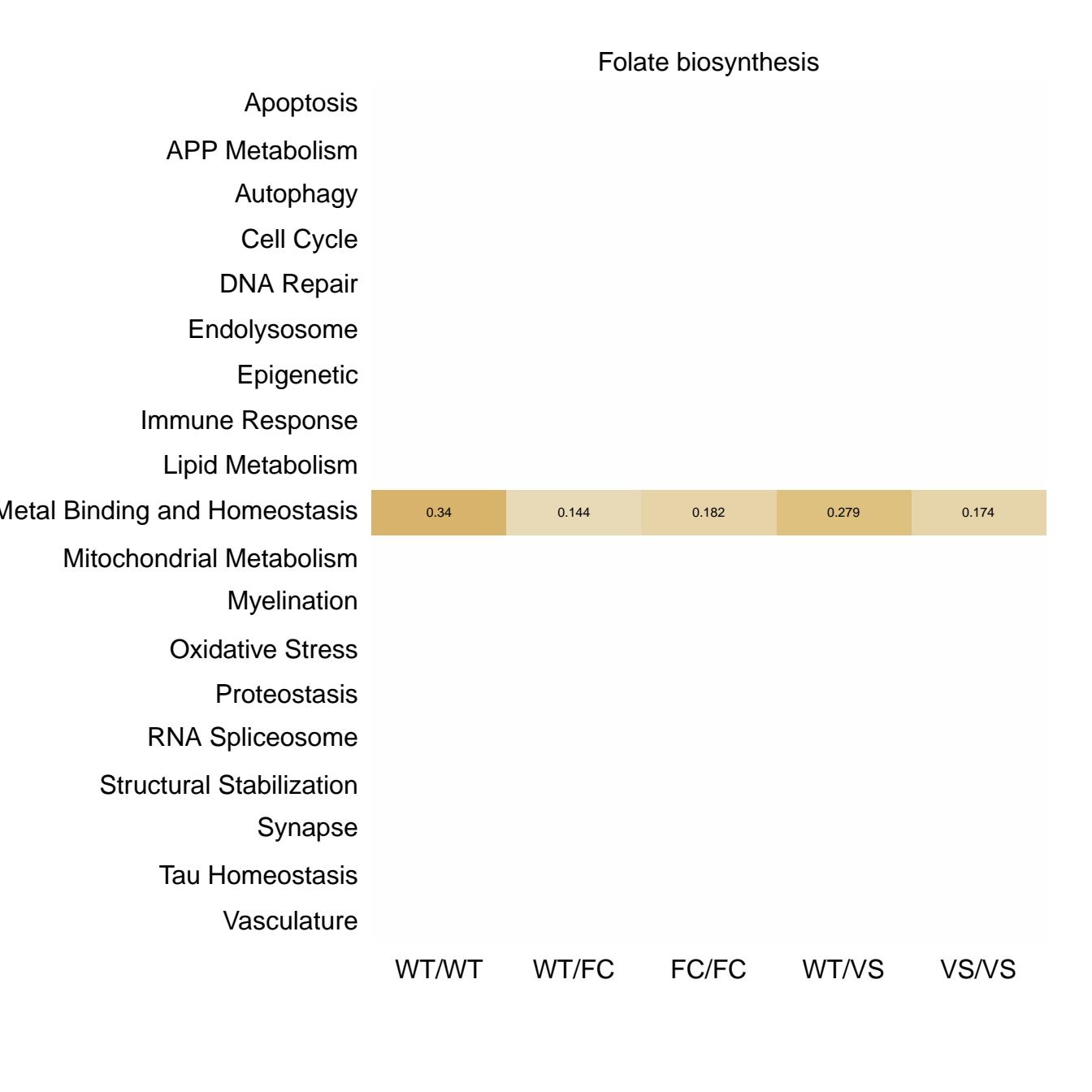


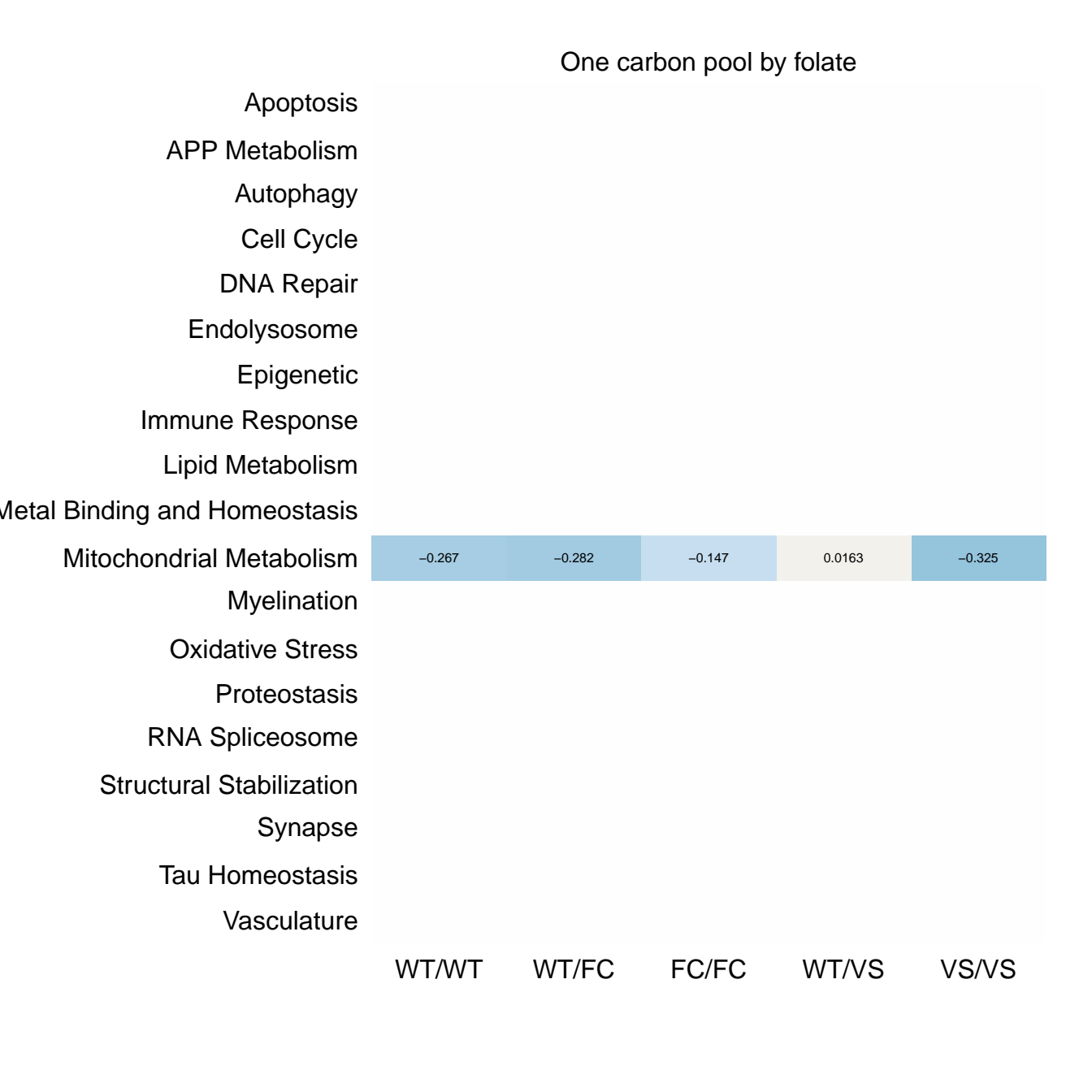


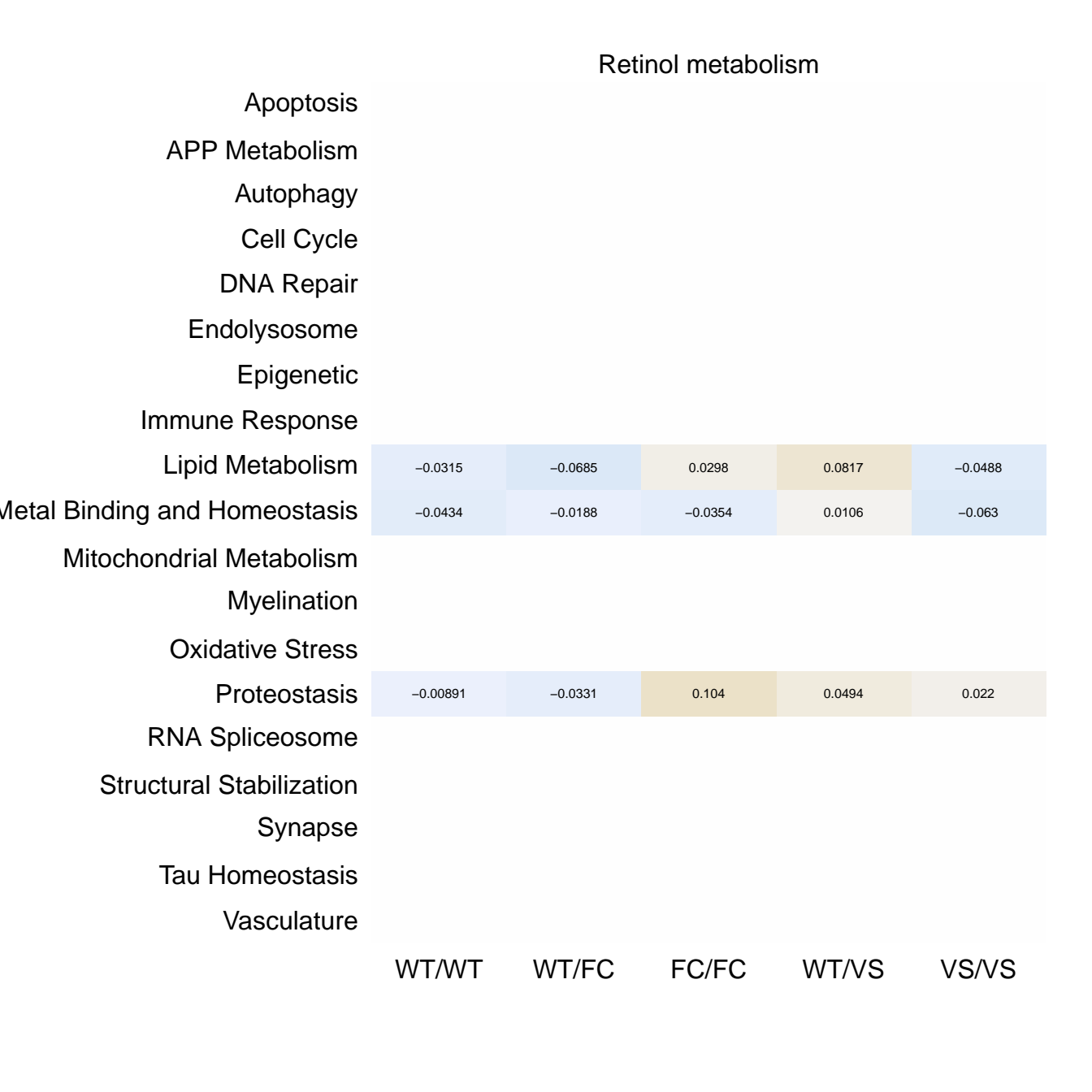
Nicotinate and nicotinamide metabolism

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.0596	0.331	0.193	0.29	0.169
Lipid Metabolism	0.148	0.0311	0.047	0.195	-0.00474
Metal Binding and Homeostasis	0.101	-0.0787	-0.0313	0.151	0.00226
Mitochondrial Metabolism	0.101	0.105	0.0169	0.28	0.108
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS









Porphyrin metabolism					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	0.0134	0.0564	0.0708	0.0643	0.0251
Mitochondrial Metabolism	0.113	0.181	0.253	0.0429	0.0881
Myelination					
Oxidative Stress					
Proteostasis	-0.123	-0.0766	0.0414	-0.148	-0.202
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Terpenoid backbone biosynthesis					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.135	0.348	0.372	-0.00729	0.00539
Metal Binding and Homeostasis	0.00292	0.201	0.104	-0.0348	-0.0379
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

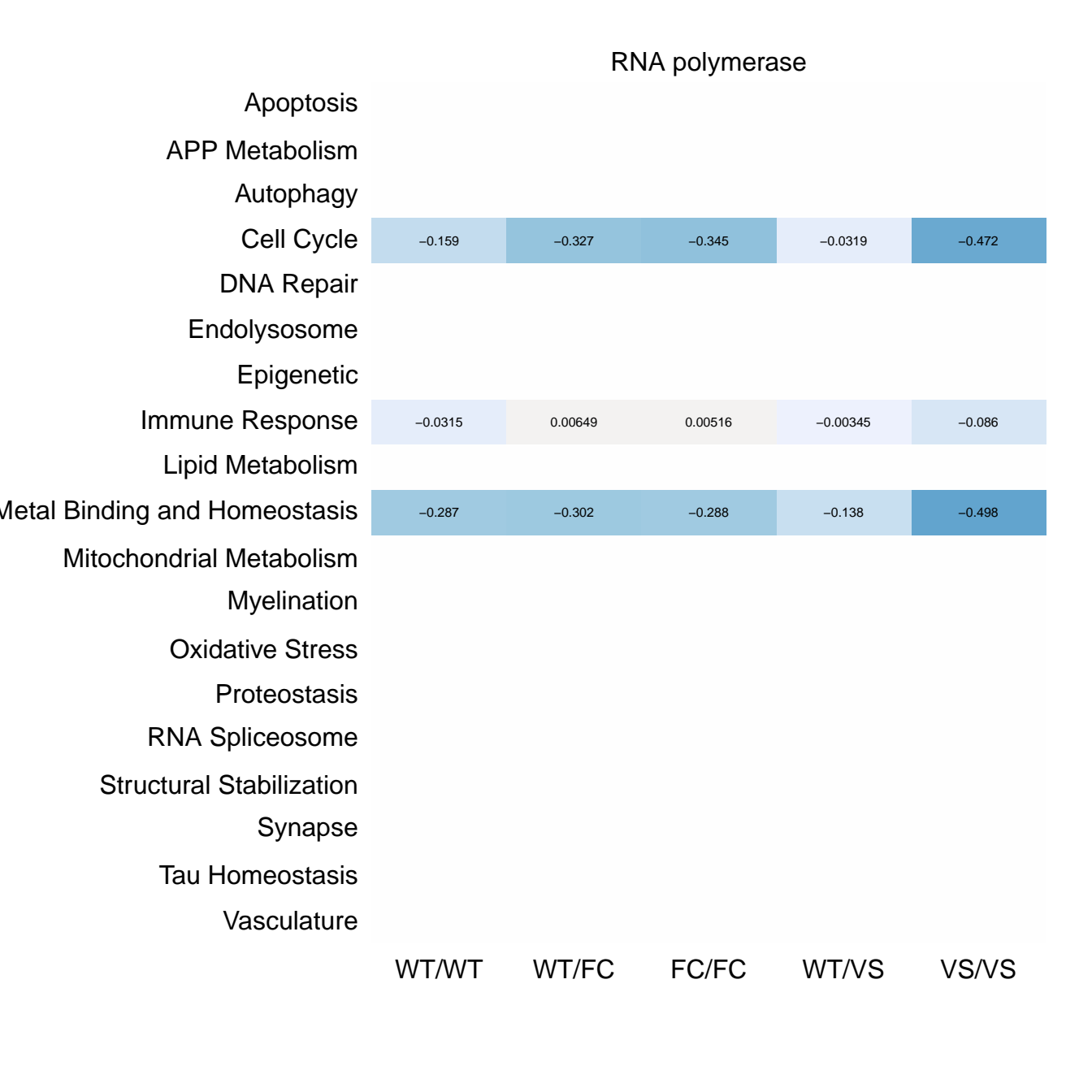
Metabolism of xenobiotics by cytochrome P450					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.19	0.194	0.177	0.272	0.0308
Metal Binding and Homeostasis	0.111	0.201	0.181	0.245	0.111
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.139	0.254	0.176	0.24	0.0137
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

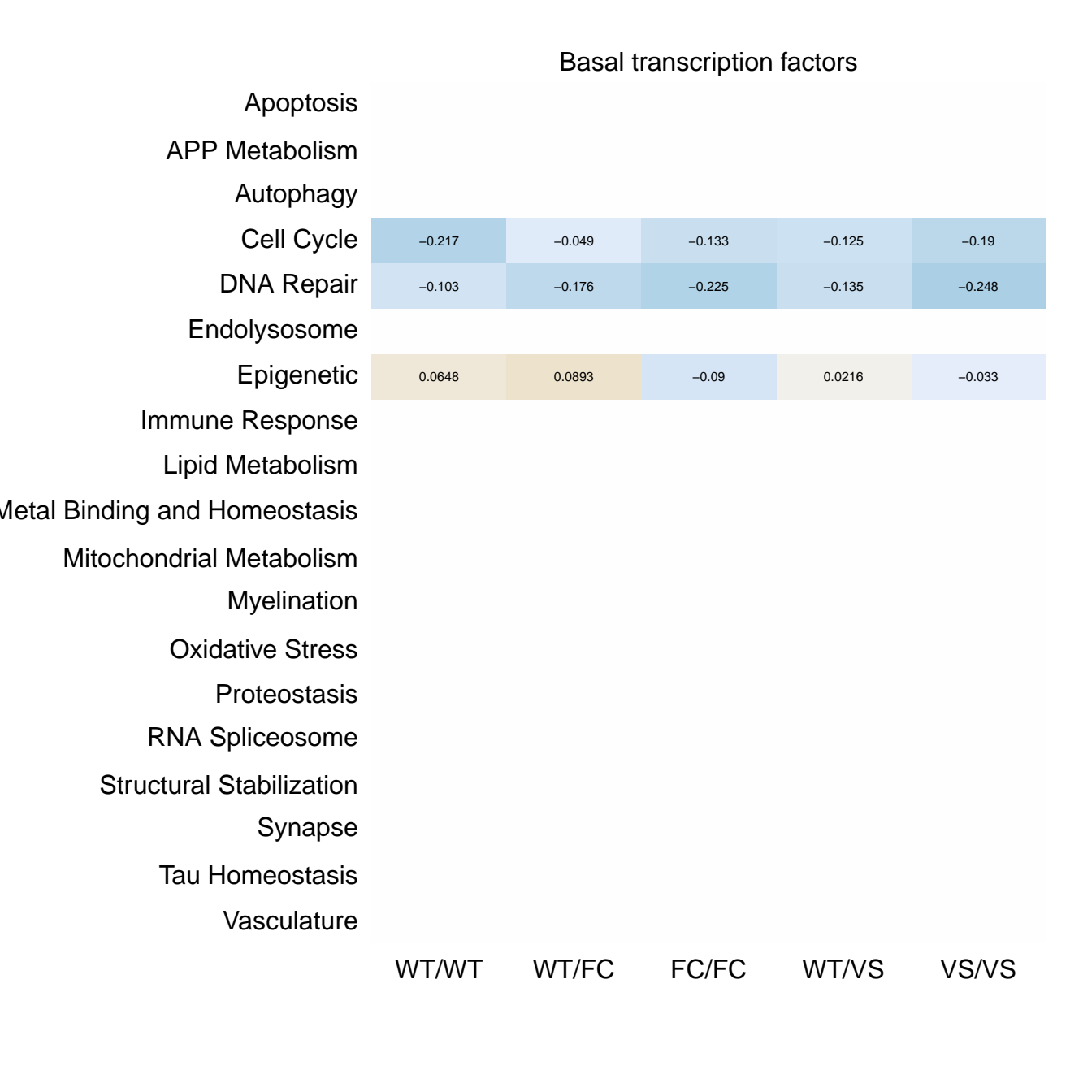
Drug metabolism – cytochrome P450

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.152	0.0761	0.115	0.197	0.0997
Metal Binding and Homeostasis					
Mitochondrial Metabolism	0.0805	0.189	0.0313	0.259	−0.000613
Myelination					
Oxidative Stress					
Proteostasis	0.167	0.209	0.189	0.228	0.187
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

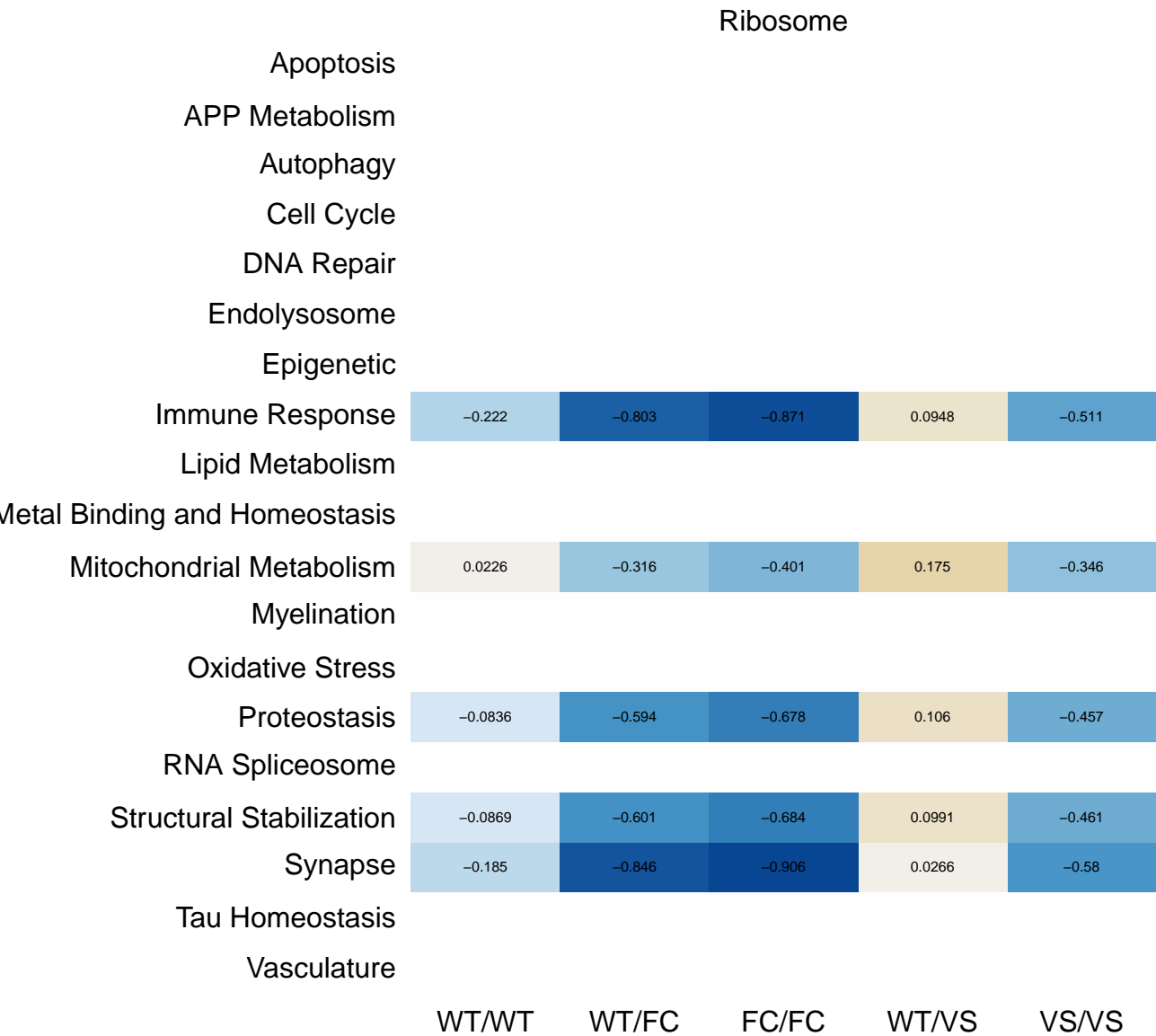
Drug metabolism – other enzymes

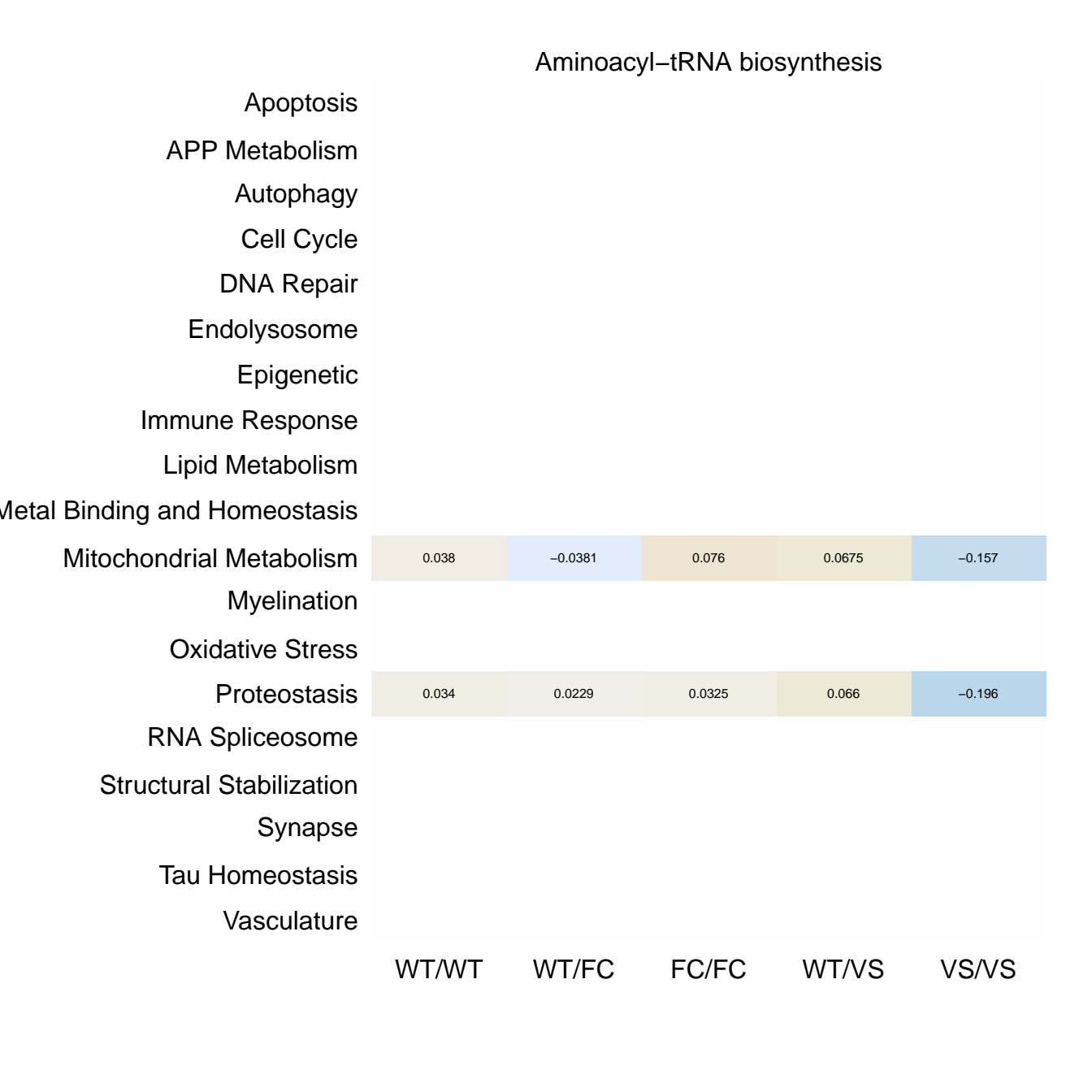
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	0.083	0.047	−0.0338	0.119	0.0407
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism	0.223	0.0738	0.0151	0.167	−0.0794
Metal Binding and Homeostasis	0.0164	−0.11	−0.148	0.0867	−0.119
Mitochondrial Metabolism	0.248	0.307	−0.00625	0.286	−0.0294
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS





	Spliceosome				
Apoptosis	0.057	0.326	−0.0881	−0.119	−0.0916
APP Metabolism					
Autophagy					
Cell Cycle	−0.0246	0.0796	−0.0761	−0.0659	−0.188
DNA Repair	0.202	0.32	−0.11	0.104	−0.131
Endolysosome					
Epigenetic	0.195	0.452	0.124	0.0645	0.0591
Immune Response	0.049	0.309	0.111	−0.0305	0.0238
Lipid Metabolism					
Metal Binding and Homeostasis	0.0574	−0.151	−0.285	−0.0485	−0.23
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.159	0.0237	−0.0597	0.182	−0.0413
RNA Spliceosome	0.0729	−0.0434	−0.211	0.0554	−0.146
Structural Stabilization	0.215	0.386	−0.0662	0.177	0.00836
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

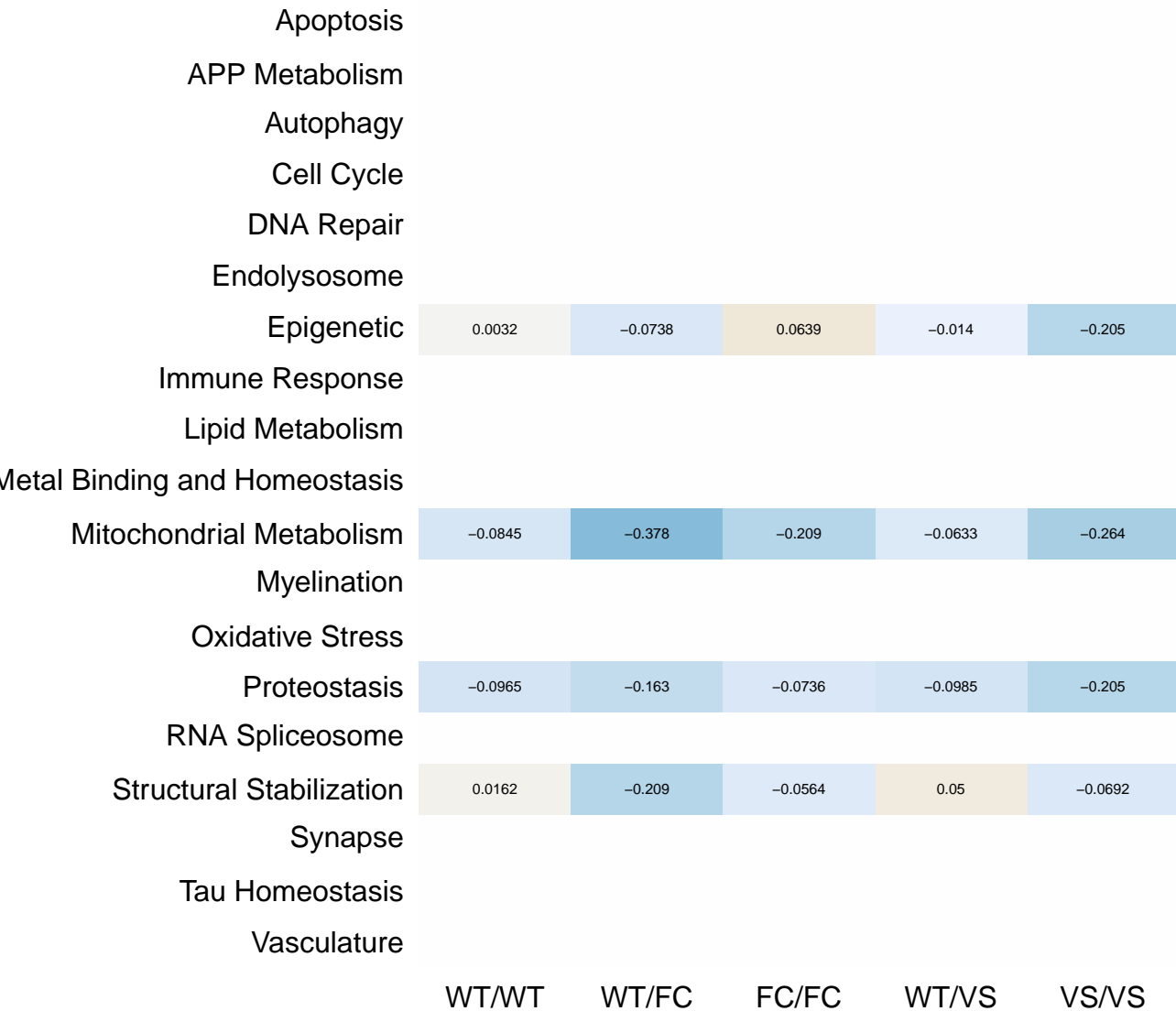


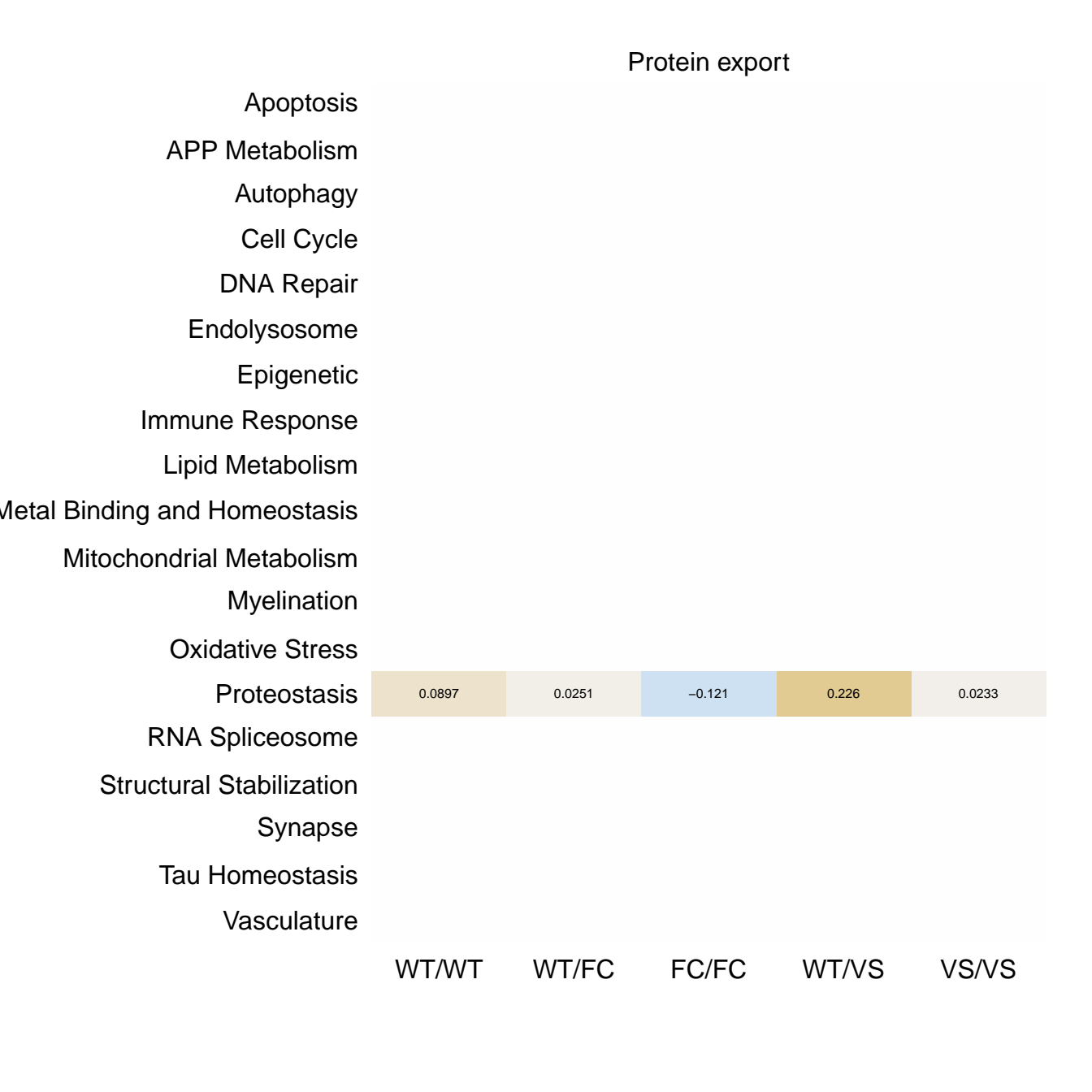


	Nucleocytoplasmic transport				
Apoptosis	0.294	0.323	0.285	0.225	0.094
APP Metabolism					
Autophagy					
Cell Cycle	-0.117	0.0982	0.0959	-0.16	-0.135
DNA Repair					
Endolysosome					
Epigenetic	-0.153	0.0319	0.308	-0.207	-0.0964
Immune Response	-0.246	-0.046	-0.0814	-0.075	-0.152
Lipid Metabolism					
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.00793	0.14	0.0669	-0.0377	-0.0615
RNA Spliceosome	0.147	0.00481	-0.0755	0.238	0.0532
Structural Stabilization	-0.0974	0.0203	0.0842	-0.165	-0.129
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

mRNA surveillance pathway					
Apoptosis	0.203	0.383	0.334	0.163	0.183
APP Metabolism					
Autophagy					
Cell Cycle	0.12	0.381	0.267	0.215	0.0737
DNA Repair	−0.0932	−0.0672	−0.107	−0.181	−0.0929
Endolysosome					
Epigenetic	0.121	0.187	0.101	0.138	−0.0661
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	−0.0264	0.181	0.0721	−0.0341	−0.0492
Mitochondrial Metabolism	−0.065	0.435	0.205	0.0227	0.0542
Myelination					
Oxidative Stress					
Proteostasis	−0.0205	0.0718	−0.056	0.0518	0.0233
RNA Spliceosome	0.174	0.178	0.0611	0.298	0.0972
Structural Stabilization	0.229	0.406	0.245	0.231	0.255
Synapse	0.077	0.42	0.226	0.13	−0.0584
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Ribosome biogenesis in eukaryotes

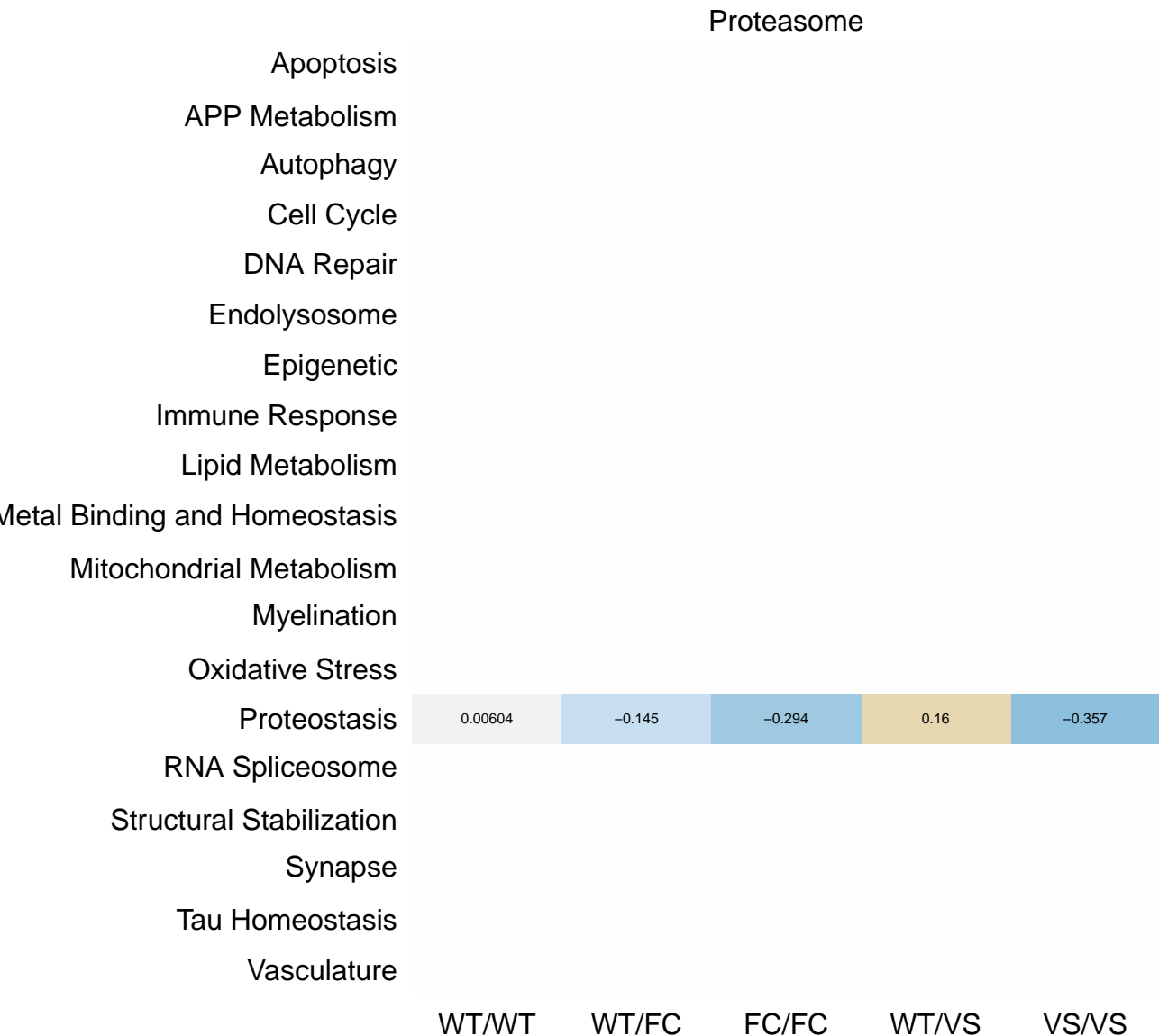




Protein processing in endoplasmic reticulum					
Apoptosis	−0.0488	0.163	3.04e−05	0.114	0.117
APP Metabolism					
Autophagy	0.0713	0.26	0.0169	0.0916	0.234
Cell Cycle	0.179	0.183	−0.00354	0.303	0.076
DNA Repair	0.302	0.272	0.0754	0.461	0.259
Endolysosome	−0.0103	0.105	−0.0114	0.11	0.175
Epigenetic	0.106	0.336	0.226	0.157	0.346
Immune Response	−0.0451	0.111	−0.0453	0.14	0.126
Lipid Metabolism	0.00887	0.2	0.0148	0.117	0.125
Metal Binding and Homeostasis	−0.0131	0.222	0.164	0.0566	0.144
Mitochondrial Metabolism	0.12	0.305	0.15	0.137	0.208
Myelination					
Oxidative Stress	−0.0368	0.22	−0.0458	0.193	0.226
Proteostasis	−0.0152	0.164	0.037	0.114	0.108
RNA Spliceosome					
Structural Stabilization	−0.0231	0.152	−0.0199	0.106	0.162
Synapse	0.0627	0.302	0.201	0.212	0.271
Tau Homeostasis					
Vasculature	−0.0622	0.0325	−0.0422	0.0991	0.0667
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

SNARE interactions in vesicular transport					
Apoptosis	-0.124	-0.0251	-0.14	-0.0425	-0.153
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.013	-0.0348	-0.0963	0.0165	0.0258
Epigenetic	0.0494	0.033	-0.0851	0.0782	0.0635
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination	-0.00575	-0.0156	-0.0754	-0.0156	0.0199
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis	-0.00575	-0.0156	-0.0754	-0.0156	0.0199
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Ubiquitin mediated proteolysis					
Apoptosis	−0.0263	0.307	0.275	−0.0407	0.0482
APP Metabolism					
Autophagy	0.0659	−0.08	0.326	−0.00322	0.011
Cell Cycle	−0.0652	0.225	0.2	−0.0445	−0.00408
DNA Repair	0.0188	0.283	0.319	−0.0245	0.117
Endolysosome	0.0771	0.172	0.403	0.0518	0.104
Epigenetic	0.0519	0.307	0.266	−0.0454	0.136
Immune Response	0.0496	0.382	0.327	0.0965	0.191
Lipid Metabolism	0.0945	0.108	0.164	0.104	0.0773
Metal Binding and Homeostasis	−0.0631	0.049	0.191	−0.0519	0.0334
Mitochondrial Metabolism	−0.0555	−0.0544	0.0221	−0.065	−0.137
Myelination					
Oxidative Stress					
Proteostasis	−0.0164	0.22	0.192	−0.00692	0.0651
RNA Spliceosome					
Structural Stabilization	−0.00416	−0.0213	0.191	0.00518	−0.00659
Synapse	−0.0115	0.199	0.222	−0.0623	0.062
Tau Homeostasis					
Vasculature	0.0671	0.0917	0.257	0.0994	0.167
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

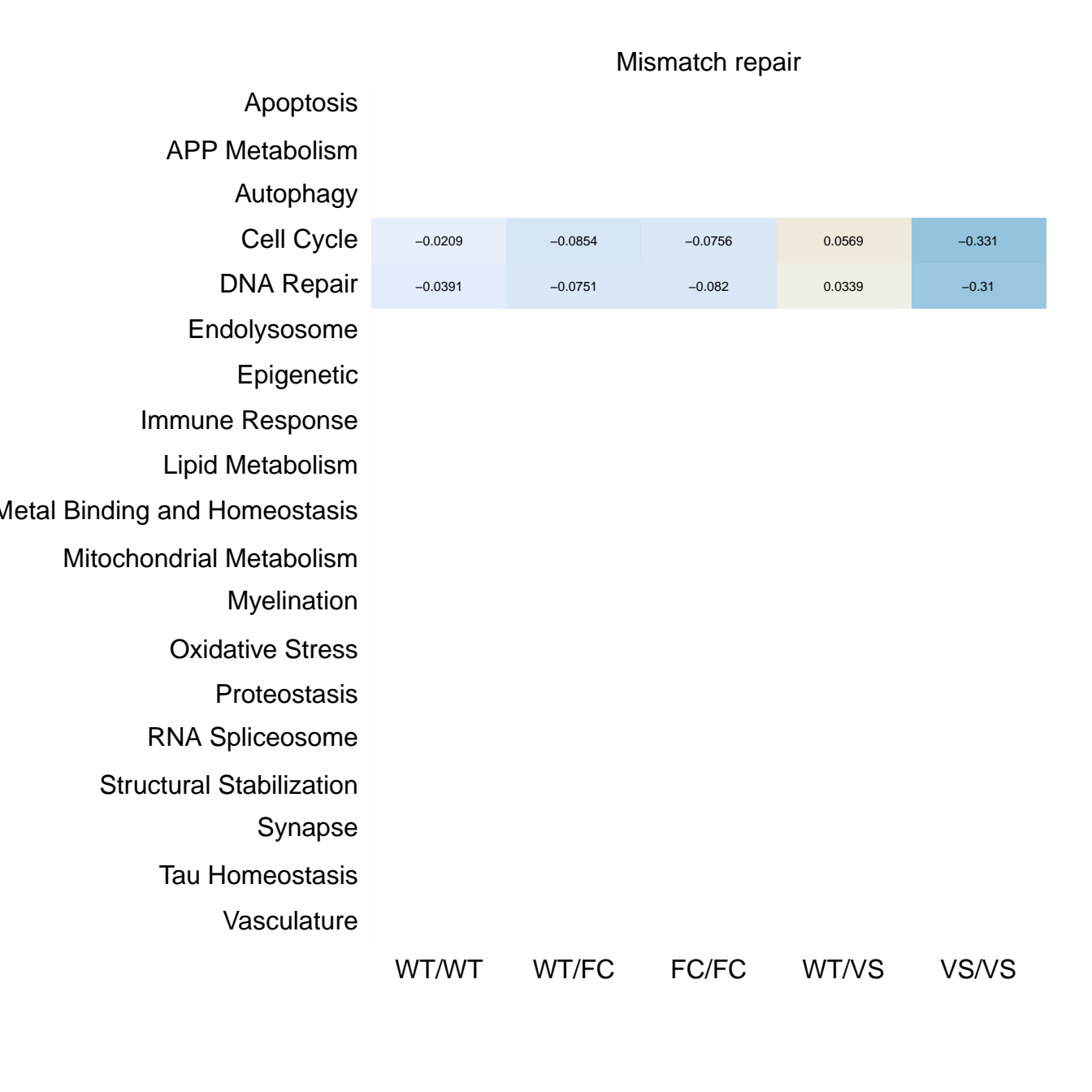


RNA degradation					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	-0.113	0.0896	0.00368	-0.125	-0.159
Immune Response	-0.127	0.107	-0.105	-0.117	-0.129
Lipid Metabolism					
Metal Binding and Homeostasis	-0.0682	0.144	0.0422	-0.12	-0.0454
Mitochondrial Metabolism	-0.0132	0.262	0.0764	0.0463	-0.0549
Myelination					
Oxidative Stress					
Proteostasis	-0.0939	-0.015	-0.116	-0.15	-0.123
RNA Spliceosome	0.0468	-0.224	-0.568	0.054	-0.171
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	DNA replication				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	0.019	-0.0217	-0.119	0.0944	-0.241
DNA Repair	0.0492	-0.0619	-0.115	0.104	-0.216
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	-0.0259	0.045	0.00327	0.0823	-0.327
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

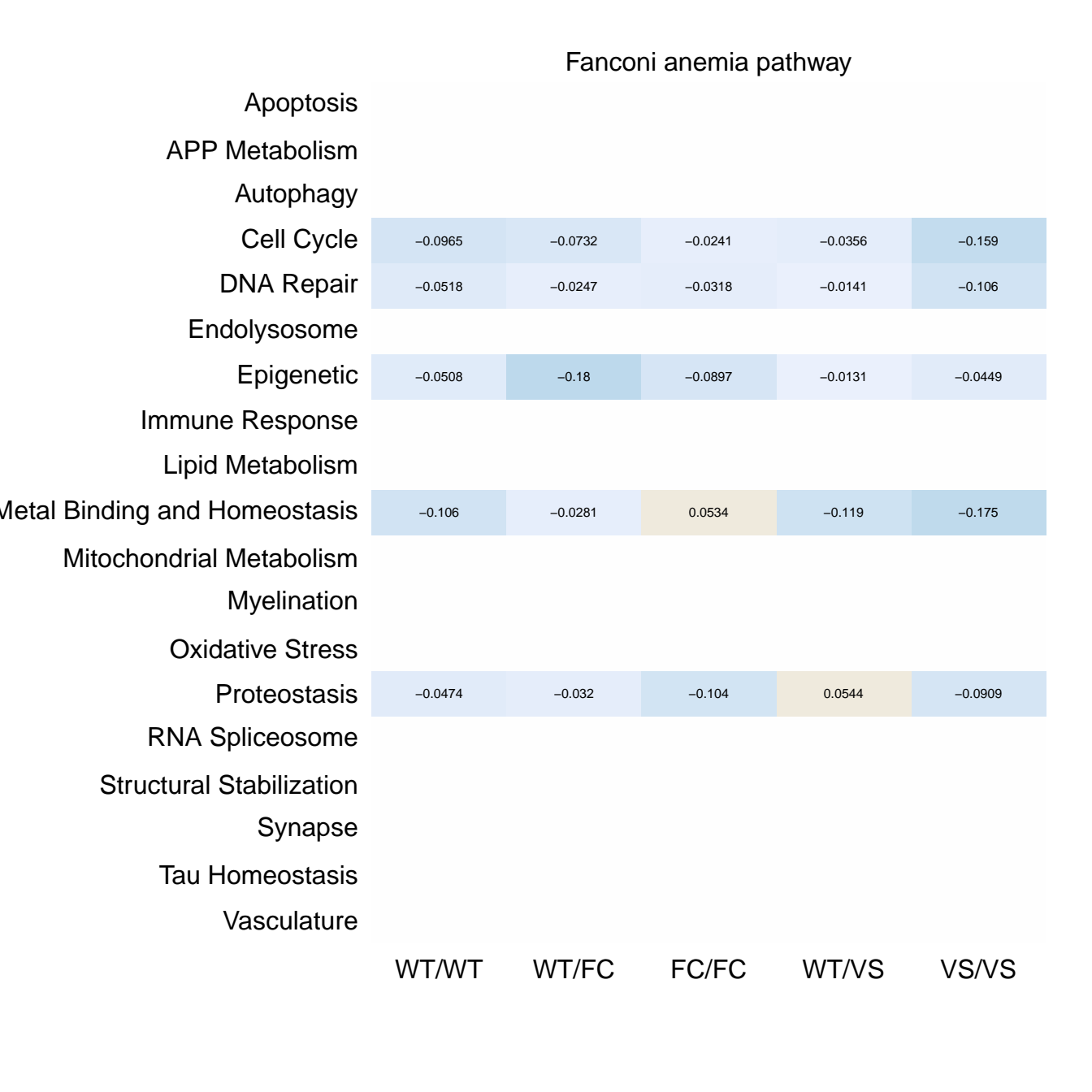
Base excision repair					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	0.158	-0.0336	-0.0286	0.153	-0.123
DNA Repair	0.135	-0.0187	-0.0407	0.124	-0.0819
Endolysosome					
Epigenetic	0.336	0.191	0.0472	0.22	0.0209
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	0.171	0.075	0.0242	0.254	0.0207
Mitochondrial Metabolism	0.163	0.0396	-0.0371	0.192	-0.0882
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	−0.0192	−0.0569	−0.091	0.0577	−0.248
DNA Repair	−0.00767	−0.0269	−0.125	0.017	−0.213
Endolysosome					
Epigenetic	−0.0819	−0.0333	0.0185	−0.186	−0.177
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	−0.0365	−0.136	−0.242	0.0356	−0.372
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0736	0.234	0.067	0.228	−0.177
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	−0.0157	0.00138	−0.104	0.0128	−0.206
DNA Repair	−0.0396	−0.0365	−0.136	−0.00036	−0.235
Endolysosome					
Epigenetic	−0.0182	−0.072	−0.167	−0.15	−0.169
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	−0.0355	−0.0985	−0.048	−0.045	−0.151
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.0524	−0.207	−0.185	0.0761	−0.267
RNA Spliceosome					
Structural Stabilization	−0.131	0.0429	−0.0325	−0.0875	−0.0329
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Non-homologous end-joining				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	0.1	0.127	0.109	0.0643	-0.0493
DNA Repair	0.1	0.127	0.109	0.0643	-0.0493
Endolysosome					
Epigenetic					
Immune Response					
Lipid Metabolism					
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



ATP-dependent chromatin remodeling					
Apoptosis	−0.0339	−0.0647	−0.0744	0.0673	−0.153
APP Metabolism					
Autophagy					
Cell Cycle	0.0421	−0.0295	0.0125	0.056	−0.0581
DNA Repair	0.101	0.0134	0.0505	0.0787	−0.0386
Endolysosome					
Epigenetic	0.0541	−0.00796	0.0125	0.0602	−0.0517
Immune Response	0.116	0.0938	0.0993	0.0538	0.109
Lipid Metabolism					
Metal Binding and Homeostasis	−0.018	0.0288	0.0586	−0.0485	−0.0583
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization	0.115	0.107	0.0514	0.0876	0.0883
Synapse	0.149	0.0141	0.194	0.113	0.058
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Polycomb repressive complex					
Apoptosis	0.0804	0.298	0.17	0.0918	0.178
APP Metabolism					
Autophagy					
Cell Cycle	−0.0829	0.0393	0.00807	−0.0549	−0.0734
DNA Repair	0.0713	0.364	0.278	−0.0187	0.312
Endolysosome					
Epigenetic	0.0282	0.156	0.161	0.00868	0.132
Immune Response	−0.179	−0.0548	−0.0375	−0.177	0.0135
Lipid Metabolism					
Metal Binding and Homeostasis	0.0068	0.121	0.082	0.0187	0.177
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0321	0.468	0.391	−0.0495	0.366
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Viral life cycle – HIV–1					
Apoptosis	–0.101	–0.0788	0.102	–0.233	0.0649
APP Metabolism					
Autophagy	0.212	0.236	0.125	0.109	0.0718
Cell Cycle	0.207	0.291	–0.0492	0.245	0.166
DNA Repair					
Endolysosome	0.265	0.339	0.18	0.211	0.142
Epigenetic	–0.0825	0.0137	–0.149	0.0214	0.0523
Immune Response	–0.129	–0.121	–0.0352	–0.126	0.072
Lipid Metabolism	0.0201	0.163	0.0721	0.0245	0.0754
Metal Binding and Homeostasis	–0.185	–0.0876	–0.0298	–0.212	–0.119
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0345	0.249	0.161	–0.0553	0.131
RNA Spliceosome					
Structural Stabilization	0.194	0.198	0.0868	0.185	0.155
Synapse	0.153	0.0721	0.219	0.0547	0.199
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Virion – Hepatitis viruses

Apoptosis					
APP Metabolism					
Autophagy	0.225	0.425	0.287	0.236	0.151
Cell Cycle					
DNA Repair					
Endolysosome	0.0429	0.26	0.0504	0.113	0.00739
Epigenetic					
Immune Response	−0.0718	0.21	0.165	0.0218	0.0834
Lipid Metabolism	0.0983	0.245	0.176	0.129	0.12
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0564	0.321	0.113	0.122	0.009
RNA Spliceosome					
Structural Stabilization	0.0317	0.145	−0.00313	0.151	−0.03
Synapse					
Tau Homeostasis					
Vasculature	0.0421	0.223	0.176	0.0965	0.08
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

ABC transporters

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.141	0.0805	0.236	0.223	0.167
Epigenetic					
Immune Response	0.112	0.0584	-0.0255	0.146	-0.0129
Lipid Metabolism	-0.0606	0.000513	0.0279	0.0201	0.0529
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.056	0.0184	-0.00612	0.0873	-0.0535
RNA Spliceosome					
Structural Stabilization					
Synapse	-0.0242	-0.015	-0.0511	-0.00778	0.00745
Tau Homeostasis					
Vasculature	-0.12	-0.194	-0.127	0.111	0.143
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

MAPK signaling pathway					
Apoptosis	0.0635	0.216	0.17	0.0974	0.169
APP Metabolism	0.117	0.152	0.375	0.191	0.257
Autophagy	0.0711	0.226	0.177	0.127	0.149
Cell Cycle	0.0904	0.219	0.216	0.101	0.182
DNA Repair	0.0918	0.234	0.199	0.115	0.0802
Endolysosome	0.12	0.151	0.169	0.179	0.162
Epigenetic	0.0563	0.23	0.178	0.104	0.143
Immune Response	0.0275	0.173	0.127	0.0869	0.15
Lipid Metabolism	0.0297	0.225	0.18	0.0692	0.17
Metal Binding and Homeostasis	0.0178	0.186	0.205	-0.0268	0.118
Mitochondrial Metabolism	0.149	0.275	0.229	0.171	0.265
Myelination	0.225	0.214	0.247	0.304	0.3
Oxidative Stress	0.203	0.49	0.413	0.299	0.343
Proteostasis	0.131	0.205	0.21	0.214	0.202
RNA Spliceosome					
Structural Stabilization	0.0759	0.158	0.15	0.124	0.2
Synapse	0.101	0.216	0.245	0.0999	0.235
Tau Homeostasis					
Vasculature	0.0711	0.184	0.176	0.102	0.176
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

ErbB signaling pathway					
Apoptosis	0.125	0.315	0.326	0.0783	0.297
APP Metabolism					
Autophagy	0.265	0.333	0.425	0.188	0.291
Cell Cycle	0.275	0.302	0.344	0.29	0.381
DNA Repair	0.173	0.187	0.465	0.187	0.221
Endolysosome	0.25	0.244	0.424	0.246	0.325
Epigenetic	0.138	0.307	0.313	0.147	0.258
Immune Response	0.116	0.275	0.294	0.0406	0.256
Lipid Metabolism	0.129	0.237	0.315	0.137	0.274
Metal Binding and Homeostasis	0.0703	0.0273	0.198	0.0353	0.208
Mitochondrial Metabolism	0.227	0.382	0.417	0.122	0.383
Myelination					
Oxidative Stress	0.384	0.564	0.592	0.393	0.54
Proteostasis	0.287	0.351	0.367	0.3	0.35
RNA Spliceosome					
Structural Stabilization	0.167	0.309	0.345	0.106	0.288
Synapse	0.0925	0.292	0.36	-0.000424	0.284
Tau Homeostasis					
Vasculature	0.141	0.32	0.333	0.08	0.276
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Ras signaling pathway					
Apoptosis	0.0091	0.162	0.166	0.0249	0.212
APP Metabolism	0.0965	0.201	0.32	0.00738	0.289
Autophagy	0.146	0.275	0.346	0.138	0.268
Cell Cycle	0.0744	0.213	0.206	0.102	0.266
DNA Repair	0.274	0.336	0.443	0.176	0.253
Endolysosome	0.0703	0.167	0.242	0.118	0.236
Epigenetic	0.0152	0.232	0.196	0.0265	0.189
Immune Response	0.0269	0.155	0.165	0.0661	0.189
Lipid Metabolism	0.044	0.129	0.14	0.0632	0.177
Metal Binding and Homeostasis	0.0802	0.0736	0.17	-0.0423	0.131
Mitochondrial Metabolism	0.114	0.206	0.173	0.157	0.28
Myelination	0.249	0.275	0.308	0.229	0.325
Oxidative Stress	0.218	0.409	0.36	0.278	0.4
Proteostasis	0.154	0.226	0.27	0.2	0.254
RNA Spliceosome					
Structural Stabilization	0.0752	0.188	0.175	0.101	0.253
Synapse	0.0733	0.211	0.23	0.0542	0.244
Tau Homeostasis					
Vasculature	0.0555	0.223	0.154	0.0778	0.219
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Rap1 signaling pathway					
Apoptosis	0.00523	0.182	0.196	−0.0138	0.243
APP Metabolism	0.0462	0.0622	0.335	−0.0725	0.317
Autophagy	0.1	0.233	0.347	0.118	0.342
Cell Cycle	0.0847	0.226	0.257	0.134	0.275
DNA Repair	0.0926	0.221	0.212	0.0169	0.184
Endolysosome	0.023	0.158	0.265	0.0185	0.307
Epigenetic	0.0944	0.262	0.245	0.131	0.248
Immune Response	0.0644	0.168	0.214	0.0914	0.237
Lipid Metabolism	−0.0455	0.106	0.14	−0.0196	0.156
Metal Binding and Homeostasis	−0.0477	0.0384	0.0906	−0.0746	0.075
Mitochondrial Metabolism	0.0488	0.259	0.203	0.0689	0.257
Myelination	0.152	0.291	0.285	0.103	0.322
Oxidative Stress	0.157	0.331	0.424	0.217	0.459
Proteostasis	0.15	0.248	0.258	0.21	0.299
RNA Spliceosome					
Structural Stabilization	0.0519	0.158	0.192	0.0561	0.226
Synapse	0.0629	0.151	0.225	0.0435	0.251
Tau Homeostasis					
Vasculature	0.0763	0.176	0.164	0.0905	0.184
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

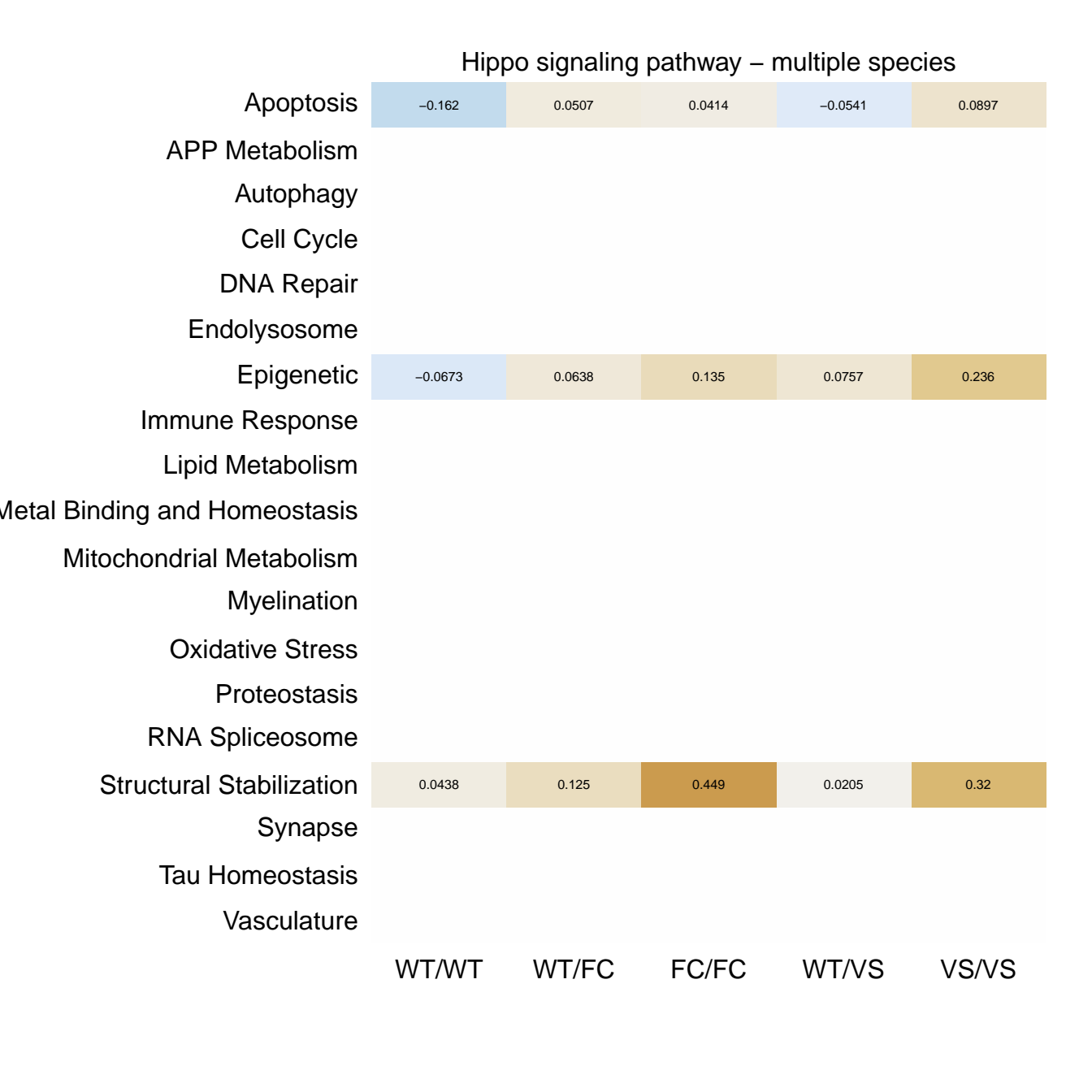
Wnt signaling pathway					
Apoptosis	−0.047	0.0911	0.14	−0.0595	0.121
APP Metabolism					
Autophagy	−0.042	0.136	0.0686	8.82e−05	0.0233
Cell Cycle	−0.0439	0.124	0.212	−0.0661	0.173
DNA Repair	0.00285	−0.113	0.0764	0.0399	0.0374
Endolysosome	0.227	0.192	0.107	0.246	0.254
Epigenetic	−0.000392	0.124	0.11	0.0102	0.146
Immune Response	0.0905	0.152	0.0987	0.0548	0.186
Lipid Metabolism	−0.0249	0.17	0.133	−0.00443	0.1
Metal Binding and Homeostasis	0.00522	0.155	0.172	−0.0543	0.126
Mitochondrial Metabolism	0.0556	0.186	0.177	0.0898	0.0643
Myelination					
Oxidative Stress	0.151	0.573	0.347	0.265	0.364
Proteostasis	0.0726	0.205	0.168	0.0709	0.173
RNA Spliceosome					
Structural Stabilization	0.0463	0.0914	0.0971	0.0312	0.0868
Synapse	0.173	0.249	0.188	0.121	0.194
Tau Homeostasis					
Vasculature	0.081	0.16	0.101	0.0978	0.174
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Notch signaling pathway					
Apoptosis	−0.0179	−0.0741	0.119	0.0842	−0.0136
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.246	0.202	0.28	0.297	0.114
Epigenetic	0.148	0.063	0.185	0.17	0.129
Immune Response	0.178	0.117	0.367	0.234	0.275
Lipid Metabolism	0.0339	−0.0479	0.0792	0.183	−0.00559
Metal Binding and Homeostasis	0.0908	0.00962	0.301	0.169	0.2
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.116	0.0439	0.253	0.209	0.131
RNA Spliceosome					
Structural Stabilization	0.227	0.0893	0.131	0.344	0.183
Synapse	0.0965	0.0289	0.156	0.209	0.00165
Tau Homeostasis					
Vasculature	0.0341	0.157	0.347	0.231	0.216
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hedgehog signaling pathway					
Apoptosis	−0.153	0.0422	0.0549	−0.04	0.145
APP Metabolism					
Autophagy					
Cell Cycle	−0.304	−0.0434	0.00813	−0.148	−0.0998
DNA Repair					
Endolysosome	0.268	0.0811	0.322	0.31	0.395
Epigenetic	−0.0383	−0.0481	−0.0712	0.155	0.0551
Immune Response	−0.0035	−0.0461	0.0163	0.256	0.161
Lipid Metabolism	0.159	0.181	0.328	0.201	0.252
Metal Binding and Homeostasis	0.101	0.203	0.179	0.197	0.154
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0825	0.248	0.326	0.106	0.271
RNA Spliceosome					
Structural Stabilization	0.0635	0.0463	0.177	0.0759	0.142
Synapse	0.145	0.125	0.203	0.251	0.202
Tau Homeostasis					
Vasculature	0.296	0.207	0.139	0.46	0.222
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

TGF-beta signaling pathway					
Apoptosis	-0.00927	0.152	0.197	0.0499	0.0922
APP Metabolism					
Autophagy					
Cell Cycle	-0.0136	0.166	0.273	0.0328	0.198
DNA Repair					
Endolysosome	0.0757	0.355	0.295	0.0481	0.265
Epigenetic	0.0615	0.155	0.188	0.11	0.226
Immune Response	0.104	0.2	0.225	0.0766	0.208
Lipid Metabolism	0.0466	0.266	0.299	0.0853	0.218
Metal Binding and Homeostasis	-0.0465	0.199	0.239	-0.0561	0.154
Mitochondrial Metabolism	0.133	0.388	0.427	0.0672	0.167
Myelination					
Oxidative Stress	-0.121	-0.118	0.168	-0.0716	0.0252
Proteostasis	0.0254	0.116	0.136	0.0346	0.103
RNA Spliceosome					
Structural Stabilization	0.0682	0.122	0.235	0.0802	0.189
Synapse	0.128	0.281	0.33	0.11	0.244
Tau Homeostasis					
Vasculature	0.0201	0.152	0.205	0.0988	0.17
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hippo signaling pathway					
Apoptosis	−0.0218	0.0903	0.173	0.0741	0.16
APP Metabolism					
Autophagy					
Cell Cycle	0.0391	0.101	0.214	0.131	0.168
DNA Repair	0.151	0.0139	0.198	0.25	0.356
Endolysosome	0.212	0.164	0.214	0.217	0.341
Epigenetic	−0.00962	0.0411	0.0571	0.137	0.202
Immune Response	0.0849	0.164	0.197	0.112	0.226
Lipid Metabolism	0.00905	0.129	0.183	0.0849	0.199
Metal Binding and Homeostasis	−0.0369	0.135	0.196	0.0073	0.195
Mitochondrial Metabolism	0.292	0.456	0.373	0.255	0.156
Myelination	−0.0388	0.0829	0.0472	0.00814	0.123
Oxidative Stress	−0.121	0.0412	0.235	0.0339	0.117
Proteostasis	0.115	0.155	0.236	0.133	0.26
RNA Spliceosome					
Structural Stabilization	0.0343	0.13	0.176	0.0768	0.179
Synapse	0.125	0.259	0.271	0.13	0.246
Tau Homeostasis					
Vasculature	0.0212	0.111	0.112	0.124	0.299
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



VEGF signaling pathway					
Apoptosis	0.141	0.141	0.128	0.196	0.291
APP Metabolism					
Autophagy	0.297	0.278	0.211	0.386	0.347
Cell Cycle	0.207	0.262	0.224	0.282	0.312
DNA Repair	0.248	0.245	0.242	0.303	0.141
Endolysosome	0.249	0.257	0.206	0.316	0.288
Epigenetic	0.213	0.33	0.278	0.189	0.346
Immune Response	0.185	0.176	0.131	0.222	0.246
Lipid Metabolism	0.142	0.193	0.147	0.247	0.243
Metal Binding and Homeostasis	0.15	0.178	0.125	0.221	0.131
Mitochondrial Metabolism	0.196	0.246	0.172	0.289	0.283
Myelination					
Oxidative Stress	0.202	0.22	0.106	0.422	0.276
Proteostasis	0.27	0.295	0.249	0.344	0.438
RNA Spliceosome					
Structural Stabilization	0.187	0.219	0.148	0.233	0.294
Synapse	0.215	0.286	0.225	0.244	0.335
Tau Homeostasis					
Vasculature	0.0931	0.24	0.203	0.0935	0.253
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Apelin signaling pathway					
Apoptosis	0.203	0.313	0.339	0.228	0.357
APP Metabolism					
Autophagy	0.105	0.349	0.447	0.159	0.154
Cell Cycle	0.198	0.308	0.376	0.198	0.328
DNA Repair					
Endolysosome	0.132	0.254	0.327	0.172	0.287
Epigenetic	0.189	0.24	0.363	0.181	0.384
Immune Response	0.0471	0.125	0.239	0.0406	0.191
Lipid Metabolism	0.0384	0.177	0.242	0.0658	0.145
Metal Binding and Homeostasis	0.0633	0.187	0.211	0.0581	0.158
Mitochondrial Metabolism	0.0693	0.155	0.2	0.0486	0.128
Myelination	0.365	0.373	0.29	0.372	0.301
Oxidative Stress	0.213	0.281	0.304	0.324	0.349
Proteostasis	0.055	0.132	0.152	0.0921	0.118
RNA Spliceosome					
Structural Stabilization	0.096	0.11	0.191	0.109	0.241
Synapse	0.0642	0.168	0.239	0.0373	0.134
Tau Homeostasis					
Vasculature	0.0895	0.088	0.214	0.0809	0.237
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

JAK–STAT signaling pathway					
Apoptosis	−0.0638	0.0213	0.0321	0.125	0.0812
APP Metabolism					
Autophagy	−0.0261	0.118	0.146	0.071	0.0934
Cell Cycle	−0.00229	−0.126	0.0151	0.258	0.127
DNA Repair	−0.149	−0.133	0.17	0.0413	0.00895
Endolysosome	−0.0531	0.0943	0.0798	0.0744	0.128
Epigenetic	−0.045	0.043	−0.00156	0.158	0.0749
Immune Response	0.0443	0.0798	0.0172	0.155	0.132
Lipid Metabolism	0.0775	0.171	0.133	0.194	0.263
Metal Binding and Homeostasis	−0.0208	0.0487	0.125	0.0963	0.117
Mitochondrial Metabolism	−0.0154	0.0748	−0.0227	0.0473	−0.0244
Myelination					
Oxidative Stress	0.106	0.3	0.291	0.226	0.344
Proteostasis	0.0652	0.2	0.207	0.177	0.255
RNA Spliceosome					
Structural Stabilization	−0.0115	0.0542	0.0193	0.186	0.0858
Synapse	−0.00908	0.0331	0.016	0.098	0.127
Tau Homeostasis					
Vasculature	−0.0308	0.164	0.168	−0.0143	0.146
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

NF-kappa B signaling pathway					
Apoptosis	−0.0249	0.00471	−0.0189	−0.0317	0.0196
APP Metabolism					
Autophagy	−0.111	0.0619	0.00555	−0.0807	0.117
Cell Cycle	−0.123	0.0338	0.00103	−0.173	−0.0274
DNA Repair	0.0435	0.276	0.213	0.0175	0.133
Endolysosome	−0.0376	−0.0492	0.0115	0.0239	0.0165
Epigenetic	−0.0635	0.0349	−0.0796	−0.128	−0.0544
Immune Response	−0.0689	−0.0379	−0.0521	−0.0734	−0.0292
Lipid Metabolism	−0.0529	−0.0144	0.00726	−0.0614	−0.0542
Metal Binding and Homeostasis	−0.17	−0.0599	0.0551	−0.274	−0.0302
Mitochondrial Metabolism	−0.078	−0.228	−0.251	0.00608	−0.0319
Myelination					
Oxidative Stress	−0.135	0.0681	0.04	−0.105	0.108
Proteostasis	−0.114	−0.0102	0.0105	−0.151	−0.0206
RNA Spliceosome					
Structural Stabilization	−0.124	−0.0797	−0.00182	−0.127	−0.0528
Synapse	−0.0603	−0.155	−0.0942	−0.0562	−0.0381
Tau Homeostasis					
Vasculature	0.0689	−0.056	0.0496	0.0655	0.0051
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

TNF signaling pathway					
Apoptosis	−0.0158	0.182	0.155	−0.00754	0.0929
APP Metabolism					
Autophagy	0.0766	0.375	0.305	0.0363	0.167
Cell Cycle	0.0325	0.311	0.314	0.0512	0.128
DNA Repair	−0.0196	0.309	0.332	−0.0883	0.214
Endolysosome	0.00431	0.216	0.249	0.0973	0.213
Epigenetic	0.0947	0.218	0.246	0.13	0.133
Immune Response	0.0149	0.152	0.155	0.0501	0.105
Lipid Metabolism	−0.0198	0.15	0.159	0.0158	0.0718
Metal Binding and Homeostasis	−0.0875	0.2	0.186	−0.0457	0.147
Mitochondrial Metabolism	0.0531	0.31	0.266	0.061	0.203
Myelination					
Oxidative Stress	0.146	0.438	0.419	0.235	0.285
Proteostasis	0.115	0.207	0.233	0.203	0.214
RNA Spliceosome					
Structural Stabilization	−0.0089	0.127	0.168	0.0796	0.126
Synapse	0.0742	0.265	0.276	0.0638	0.176
Tau Homeostasis					
Vasculature	0.0972	0.25	0.318	0.168	0.175
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

HIF-1 signaling pathway					
Apoptosis	-0.000741	0.102	0.131	0.0298	0.178
APP Metabolism					
Autophagy	0.0314	0.2	0.15	0.0519	0.161
Cell Cycle	0.116	0.25	0.256	0.136	0.359
DNA Repair	0.0243	0.152	0.304	-0.0228	0.198
Endolysosome	0.171	0.339	0.376	0.172	0.376
Epigenetic	0.00755	0.216	0.184	0.017	0.215
Immune Response	0.0221	0.0844	0.157	0.0489	0.197
Lipid Metabolism	0.017	0.135	0.133	0.0767	0.173
Metal Binding and Homeostasis	0.0542	0.0611	0.123	0.0799	0.152
Mitochondrial Metabolism	0.115	0.201	0.24	0.116	0.182
Myelination					
Oxidative Stress	0.0388	0.142	0.115	0.144	0.189
Proteostasis	0.145	0.221	0.183	0.167	0.214
RNA Spliceosome					
Structural Stabilization	0.0976	0.122	0.168	0.117	0.251
Synapse	0.0701	0.142	0.229	0.121	0.3
Tau Homeostasis					
Vasculature	-0.0277	0.142	0.167	0.0328	0.188
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

FoxO signaling pathway					
Apoptosis	−0.0155	0.245	0.191	0.00114	0.188
APP Metabolism					
Autophagy	0.218	0.452	0.336	0.209	0.248
Cell Cycle	0.0805	0.188	0.195	0.121	0.139
DNA Repair	0.0232	0.232	0.24	0.0291	0.105
Endolysosome	0.213	0.272	0.349	0.252	0.394
Epigenetic	−0.0473	0.172	0.182	−0.0342	0.159
Immune Response	−0.00288	0.197	0.15	0.0161	0.181
Lipid Metabolism	0.0132	0.257	0.178	0.0515	0.239
Metal Binding and Homeostasis	0.0342	0.151	0.12	0.0291	0.186
Mitochondrial Metabolism	0.11	0.364	0.209	0.1	0.223
Myelination					
Oxidative Stress	0.158	0.546	0.386	0.169	0.299
Proteostasis	0.184	0.299	0.203	0.213	0.239
RNA Spliceosome					
Structural Stabilization	0.0568	0.242	0.254	0.0544	0.265
Synapse	0.124	0.319	0.283	0.0958	0.313
Tau Homeostasis					
Vasculature	0.027	0.292	0.21	0.0394	0.261
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Calcium signaling pathway					
Apoptosis	0.0153	0.0406	0.106	0.128	0.119
APP Metabolism					
Autophagy	0.00117	0.0711	0.0921	−0.0288	−0.0174
Cell Cycle	0.0991	0.17	0.333	0.0247	0.298
DNA Repair					
Endolysosome	0.119	0.0835	0.243	0.174	0.164
Epigenetic	0.0732	0.245	0.22	0.0716	0.247
Immune Response	0.0188	0.0636	0.151	0.0449	0.154
Lipid Metabolism	0.00184	0.0438	0.152	0.0643	0.0859
Metal Binding and Homeostasis	−0.0216	0.0687	0.228	−0.0704	0.0569
Mitochondrial Metabolism	−0.0765	−0.0479	0.0106	−0.0222	−0.0174
Myelination	0.217	0.332	0.415	0.209	0.37
Oxidative Stress	0.0154	0.0395	0.252	0.0248	0.188
Proteostasis	0.0122	0.0591	0.153	0.0611	0.0621
RNA Spliceosome					
Structural Stabilization	0.0531	0.0712	0.241	0.0213	0.164
Synapse	0.0319	0.0667	0.215	0.00435	0.11
Tau Homeostasis					
Vasculature	0.0655	0.0909	0.243	0.0869	0.171
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Phosphatidylinositol signaling system					
Apoptosis	−0.214	−0.134	0.0456	−0.292	−0.142
APP Metabolism					
Autophagy	−0.0507	0.204	0.217	−0.132	0.072
Cell Cycle	0.0761	0.299	0.35	−0.0684	0.213
DNA Repair					
Endolysosome	−0.13	0.186	0.197	−0.177	0.048
Epigenetic					
Immune Response	0.0303	0.204	0.237	−0.0469	0.132
Lipid Metabolism	−0.0127	0.185	0.218	−0.0156	0.041
Metal Binding and Homeostasis	0.012	0.149	0.192	−0.0062	0.0365
Mitochondrial Metabolism	−0.178	0.0127	0.0649	−0.1	−0.0969
Myelination					
Oxidative Stress					
Proteostasis	−0.0222	0.176	0.251	−0.0162	0.0346
RNA Spliceosome					
Structural Stabilization	−0.00256	0.0431	0.199	−0.0767	0.0449
Synapse	−0.0529	0.111	0.152	−0.103	−0.0109
Tau Homeostasis					
Vasculature	0.0338	0.19	0.214	−0.0306	0.167
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Phospholipase D signaling pathway					
Apoptosis	0.12	0.143	0.154	0.247	0.198
APP Metabolism					
Autophagy	0.294	0.174	0.361	0.408	0.26
Cell Cycle	0.0982	0.115	0.196	0.187	0.173
DNA Repair					
Endolysosome	0.179	0.147	0.233	0.2	0.201
Epigenetic	0.19	0.253	0.265	0.247	0.305
Immune Response	0.142	0.168	0.232	0.177	0.25
Lipid Metabolism	0.104	0.0999	0.171	0.179	0.145
Metal Binding and Homeostasis	0.0672	0.116	0.173	0.122	0.0222
Mitochondrial Metabolism	0.128	0.186	0.175	0.186	0.204
Myelination	0.405	0.235	0.251	0.448	0.277
Oxidative Stress	0.21	0.158	0.271	0.32	0.336
Proteostasis	0.198	0.202	0.28	0.276	0.251
RNA Spliceosome					
Structural Stabilization	0.179	0.2	0.29	0.2	0.236
Synapse	0.109	0.141	0.258	0.127	0.158
Tau Homeostasis					
Vasculature	0.136	0.162	0.263	0.153	0.246
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Sphingolipid signaling pathway					
Apoptosis	0.0538	0.264	0.135	0.0879	0.162
APP Metabolism					
Autophagy	0.155	0.203	0.291	0.283	0.223
Cell Cycle	0.195	0.355	0.272	0.249	0.294
DNA Repair	0.123	0.179	0.135	0.139	0.159
Endolysosome	0.115	0.198	0.183	0.183	0.243
Epigenetic	0.103	0.304	0.241	0.128	0.202
Immune Response	0.119	0.198	0.186	0.15	0.156
Lipid Metabolism	0.0508	0.227	0.0567	0.111	0.136
Metal Binding and Homeostasis	0.0353	0.223	0.129	0.0866	0.106
Mitochondrial Metabolism	0.109	0.322	0.196	0.118	0.203
Myelination	0.327	0.41	0.116	0.515	0.362
Oxidative Stress	0.133	0.286	0.222	0.331	0.224
Proteostasis	0.0895	0.207	0.0686	0.189	0.142
RNA Spliceosome					
Structural Stabilization	0.136	0.315	0.257	0.178	0.283
Synapse	0.148	0.287	0.241	0.189	0.231
Tau Homeostasis					
Vasculature	0.066	0.258	0.221	0.0667	0.195
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

cAMP signaling pathway					
Apoptosis	0.136	0.285	0.256	0.109	0.221
APP Metabolism	0.0674	0.386	0.52	-0.232	0.26
Autophagy	0.121	0.232	0.253	0.0979	0.226
Cell Cycle	0.16	0.315	0.316	0.155	0.323
DNA Repair					
Endolysosome	0.0895	0.238	0.294	-0.017	0.294
Epigenetic	0.125	0.315	0.309	0.125	0.191
Immune Response	0.0804	0.213	0.262	0.0648	0.166
Lipid Metabolism	0.0714	0.227	0.237	0.0773	0.167
Metal Binding and Homeostasis	0.0267	0.176	0.203	-0.0417	0.148
Mitochondrial Metabolism	0.0495	0.163	0.193	0.0337	0.183
Myelination	0.385	0.533	0.43	0.345	0.423
Oxidative Stress	0.365	0.561	0.567	0.345	0.426
Proteostasis	0.11	0.137	0.249	0.118	0.162
RNA Spliceosome					
Structural Stabilization	0.131	0.252	0.297	0.0829	0.237
Synapse	0.097	0.149	0.279	0.053	0.168
Tau Homeostasis					
Vasculature	0.068	0.218	0.278	0.0198	0.173
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

cGMP–PKG signaling pathway					
Apoptosis	0.174	0.218	0.188	0.232	0.145
APP Metabolism					
Autophagy	0.189	0.343	0.236	0.104	0.222
Cell Cycle	0.156	0.409	0.335	0.109	0.354
DNA Repair					
Endolysosome	0.239	0.355	0.292	0.207	0.424
Epigenetic	0.257	0.408	0.437	0.259	0.416
Immune Response	0.128	0.255	0.28	0.109	0.232
Lipid Metabolism	0.0707	0.282	0.232	0.0547	0.178
Metal Binding and Homeostasis	0.0777	0.309	0.303	0.0238	0.21
Mitochondrial Metabolism	0.115	0.237	0.162	0.179	0.135
Myelination	0.535	0.598	0.428	0.48	0.527
Oxidative Stress	0.208	0.292	0.362	0.22	0.261
Proteostasis	0.162	0.209	0.175	0.246	0.139
RNA Spliceosome					
Structural Stabilization	0.143	0.29	0.262	0.156	0.339
Synapse	0.105	0.22	0.268	0.0845	0.155
Tau Homeostasis					
Vasculature	0.12	0.248	0.315	0.109	0.229
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

PI3K–Akt signaling pathway					
Apoptosis	−0.0106	0.191	0.167	0.0479	0.212
APP Metabolism	−0.0419	0.195	0.181	0.0399	0.163
Autophagy	0.0934	0.272	0.287	0.125	0.269
Cell Cycle	0.0996	0.246	0.251	0.123	0.261
DNA Repair	0.0921	0.203	0.317	0.115	0.23
Endolysosome	0.0496	0.145	0.215	0.129	0.276
Epigenetic	0.036	0.214	0.175	0.0746	0.241
Immune Response	0.0364	0.146	0.119	0.123	0.21
Lipid Metabolism	0.00485	0.163	0.143	0.0754	0.225
Metal Binding and Homeostasis	−0.0524	0.0965	0.0748	0.0404	0.129
Mitochondrial Metabolism	0.15	0.369	0.309	0.142	0.305
Myelination	0.0679	0.123	0.106	0.239	0.273
Oxidative Stress	0.082	0.317	0.301	0.102	0.304
Proteostasis	0.105	0.135	0.14	0.201	0.233
RNA Spliceosome					
Structural Stabilization	0.0452	0.118	0.153	0.102	0.214
Synapse	0.051	0.177	0.158	0.104	0.22
Tau Homeostasis					
Vasculature	0.0149	0.137	0.141	0.0725	0.213
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

AMPK signaling pathway					
Apoptosis	−0.0204	0.263	0.29	0.0334	0.175
APP Metabolism					
Autophagy	0.14	0.326	0.313	0.181	0.22
Cell Cycle	0.122	0.246	0.136	0.174	0.184
DNA Repair					
Endolysosome	0.0831	0.262	0.227	0.107	0.248
Epigenetic	0.0919	0.294	0.298	0.187	0.235
Immune Response	0.0907	0.278	0.22	0.171	0.133
Lipid Metabolism	0.055	0.205	0.232	0.0963	0.121
Metal Binding and Homeostasis	0.0227	0.208	0.127	0.0755	0.115
Mitochondrial Metabolism	0.0904	0.236	0.26	0.119	0.128
Myelination					
Oxidative Stress	−0.0634	0.461	0.43	−0.0145	0.301
Proteostasis	0.164	0.304	0.279	0.213	0.237
RNA Spliceosome					
Structural Stabilization	0.101	0.344	0.402	0.145	0.245
Synapse	0.112	0.286	0.303	0.119	0.137
Tau Homeostasis					
Vasculature	8.06e−05	0.235	0.203	0.0464	0.241
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

mTOR signaling pathway					
Apoptosis	0.00436	0.238	0.113	−0.0101	0.134
APP Metabolism					
Autophagy	0.106	0.278	0.215	0.0869	0.00363
Cell Cycle	0.0437	0.129	0.0797	0.0497	0.0992
DNA Repair	0.258	0.312	0.382	0.126	0.124
Endolysosome	0.0436	0.0859	0.00966	0.0487	−0.0433
Epigenetic	0.00411	0.207	0.135	−0.00116	0.148
Immune Response	0.107	0.225	0.121	0.0626	0.16
Lipid Metabolism	0.0431	0.159	0.148	0.0158	0.125
Metal Binding and Homeostasis	−0.0264	0.226	0.0456	−0.0821	0.0748
Mitochondrial Metabolism	0.129	0.354	0.259	0.0554	0.151
Myelination	0.241	0.278	0.18	0.296	0.226
Oxidative Stress	0.232	0.515	0.321	0.184	0.313
Proteostasis	0.177	0.267	0.171	0.119	0.209
RNA Spliceosome					
Structural Stabilization	0.0264	0.156	0.0736	0.00996	0.0751
Synapse	0.104	0.236	0.178	0.0529	0.17
Tau Homeostasis					
Vasculature	0.00575	0.18	0.182	−0.000794	0.225
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Neuroactive ligand–receptor interaction					
<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>	–0.00165	0.0266	0.00638	0.107	0.0892
	0.0795	0.229	0.435	–0.215	0.235
	–0.0293	–0.125	–0.0766	–0.0152	0.0988
	0.037	0.00298	0.201	0.201	0.182
	–0.0287	0.00218	0.153	–0.0411	0.125
	0.0535	0.229	0.246	0.0711	0.153
	–0.00688	0.0352	0.0618	0.0539	0.121
	0.0635	0.1	0.0936	0.112	0.138
	0.00701	0.0982	0.127	0.00642	0.178
	–0.0247	0.0939	0.0811	0.0768	0.134
	0.0681	–0.0665	0.0957	0.0675	0.0911
	0.00111	0.00722	0.154	–0.0282	0.11
	0.00731	0.0614	0.187	–0.0952	0.145
	0.0622	0.0673	0.173	0.0586	0.146
	0.0169	0.0509	0.133	0.0666	0.162
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cytokine–cytokine receptor interaction					
Apoptosis	0.0205	0.0734	0.121	0.0472	0.153
APP Metabolism					
Autophagy	−0.136	−0.144	−0.171	−0.000471	−0.0821
Cell Cycle	0.0391	0.114	0.268	0.144	0.334
DNA Repair					
Endolysosome	−0.0791	−0.0861	0.0138	−0.0451	0.0679
Epigenetic	−0.00915	0.0378	0.102	0.0705	0.0822
Immune Response	0.0374	0.0192	0.0197	0.0586	0.109
Lipid Metabolism	−0.0366	−0.0564	−0.0035	0.00787	0.158
Metal Binding and Homeostasis	−0.0692	0.166	0.348	−0.083	0.263
Mitochondrial Metabolism	0.0659	−0.069	−0.0288	−0.154	−0.00619
Myelination					
Oxidative Stress					
Proteostasis	0.105	0.125	0.126	0.113	0.198
RNA Spliceosome					
Structural Stabilization	−0.0403	−0.0205	0.0504	0.0103	0.131
Synapse	0.0827	0.103	0.137	0.12	0.225
Tau Homeostasis					
Vasculature	−0.0815	−0.124	0.062	−0.00177	0.0776
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Viral protein interaction with cytokine and cytokine receptor					
Apoptosis	−0.0719	−0.22	0.0728	−0.0834	0.161
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	−0.0271	−0.174	−0.0069	−0.0611	0.0958
Lipid Metabolism	−0.165	−0.241	0.0164	−0.128	0.252
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.144	0.0116	0.0697	0.232	0.315
RNA Spliceosome					
Structural Stabilization	−0.0369	−0.236	0.116	−0.129	0.218
Synapse	−0.0648	−0.113	0.187	−0.0245	0.262
Tau Homeostasis					
Vasculature	−0.186	−0.4	0.0225	−0.194	0.0285
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

ECM–receptor interaction					
Apoptosis	−0.109	0.27	0.181	−0.0665	0.143
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0167	−0.0135	0.148	0.163	0.2
Epigenetic					
Immune Response	−0.135	−0.0124	−0.0118	0.058	0.0698
Lipid Metabolism	−0.152	−0.0341	0.0253	−0.0503	0.0838
Metal Binding and Homeostasis	−0.0963	−0.141	−0.00427	0.0759	0.0459
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0492	−0.0767	0.0256	0.202	0.167
RNA Spliceosome					
Structural Stabilization	−0.0266	−0.075	0.0362	0.0909	0.102
Synapse	−0.0455	0.0172	0.114	−0.00658	0.118
Tau Homeostasis					
Vasculature	−0.14	−0.101	0.0434	0.0288	0.0883
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cell adhesion molecules					
Apoptosis	−0.0405	0.00159	0.19	−0.0535	0.177
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.071	0.0957	0.192	−0.0438	0.104
Epigenetic					
Immune Response	−0.0403	0.0554	0.181	0.0231	0.175
Lipid Metabolism	−0.0111	0.0783	0.226	−0.0228	0.224
Metal Binding and Homeostasis	−0.0692	0.0222	0.215	0.036	0.141
Mitochondrial Metabolism					
Myelination	0.046	0.211	0.284	0.0999	0.137
Oxidative Stress					
Proteostasis	−0.0865	0.0136	0.086	−0.0536	0.000839
RNA Spliceosome					
Structural Stabilization	−0.0581	0.0978	0.217	0.00581	0.134
Synapse	0.0181	0.179	0.357	−0.0164	0.243
Tau Homeostasis					
Vasculature	−0.0478	0.182	0.251	0.0588	0.197
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Endocytosis					
Apoptosis	−0.0337	0.117	0.0643	0.0317	0.201
APP Metabolism	0.0255	0.419	0.276	−0.0197	0.0624
Autophagy	0.137	0.357	0.246	0.255	0.217
Cell Cycle	0.0707	0.255	0.146	0.106	0.157
DNA Repair					
Endolysosome	0.0964	0.256	0.182	0.119	0.129
Epigenetic	0.0789	0.217	0.169	0.07	0.261
Immune Response	0.073	0.241	0.257	0.109	0.274
Lipid Metabolism	0.0616	0.211	0.154	0.112	0.156
Metal Binding and Homeostasis	0.0616	0.105	0.0766	−0.00904	0.0934
Mitochondrial Metabolism	0.241	0.433	0.335	0.294	0.446
Myelination					
Oxidative Stress	0.228	0.247	0.371	0.337	0.398
Proteostasis	0.0911	0.235	0.167	0.142	0.124
RNA Spliceosome					
Structural Stabilization	0.0555	0.155	0.108	0.0934	0.114
Synapse	0.135	0.235	0.234	0.154	0.229
Tau Homeostasis					
Vasculature	0.129	0.287	0.301	0.0465	0.233
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Phagosome					
Apoptosis	0.06	0.183	0.249	0.148	0.245
APP Metabolism	−0.0147	0.172	0.387	0.0547	0.479
Autophagy	0.101	0.223	0.221	0.124	0.211
Cell Cycle	0.216	0.151	0.248	0.351	−0.00755
DNA Repair					
Endolysosome	0.11	0.216	0.238	0.126	0.182
Epigenetic					
Immune Response	0.16	0.215	0.233	0.198	0.266
Lipid Metabolism	−0.00398	0.126	0.228	0.0581	0.28
Metal Binding and Homeostasis	0.079	0.125	0.186	0.166	0.141
Mitochondrial Metabolism	0.143	0.219	0.221	0.163	0.157
Myelination					
Oxidative Stress	−0.00623	0.00155	0.0423	−0.0519	0.262
Proteostasis	0.125	0.284	0.26	0.0963	0.185
RNA Spliceosome					
Structural Stabilization	0.131	0.106	0.198	0.191	0.115
Synapse	0.145	0.273	0.281	0.14	0.18
Tau Homeostasis					
Vasculature	0.0239	0.0963	0.303	0.0115	0.188
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Lysosome					
Apoptosis	0.0786	0.0681	−0.0548	0.136	0.106
APP Metabolism					
Autophagy	0.22	0.163	0.261	0.239	0.179
Cell Cycle					
DNA Repair					
Endolysosome	0.132	0.143	0.0996	0.212	0.064
Epigenetic					
Immune Response	0.138	0.124	0.0895	0.172	0.155
Lipid Metabolism	0.137	0.183	0.0395	0.234	0.0446
Metal Binding and Homeostasis	0.196	0.186	0.261	0.184	0.052
Mitochondrial Metabolism	0.0963	−0.0304	0.0535	0.0998	0.0713
Myelination					
Oxidative Stress					
Proteostasis	0.139	0.186	0.152	0.196	0.0436
RNA Spliceosome					
Structural Stabilization	0.101	0.0399	0.0211	0.219	0.0457
Synapse	0.124	0.215	0.23	0.117	0.0592
Tau Homeostasis					
Vasculature	0.168	−0.147	−0.0636	0.214	−0.00792
	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	0.0849	0.254	0.133	0.163	0.143
Metal Binding and Homeostasis	0.091	0.139	-0.0405	0.155	0.117
Mitochondrial Metabolism	0.0808	0.219	0.121	0.234	0.13
Myelination					
Oxidative Stress	0.0844	0.162	0.0246	0.198	0.0928
Proteostasis	0.0608	0.145	0.00182	0.122	0.0923
RNA Spliceosome					
Structural Stabilization					
Synapse	0.11	0.158	0.0591	0.173	0.00976
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Autophagy – animal					
Apoptosis	0.0571	0.26	0.147	0.0589	0.0617
APP Metabolism					
Autophagy	0.0585	0.225	0.166	0.0853	−0.00873
Cell Cycle	−0.0355	0.0216	0.0593	0.0586	−0.00155
DNA Repair	0.167	0.183	0.185	0.16	0.15
Endolysosome	0.0638	0.195	0.203	0.0743	−0.0231
Epigenetic	0.0936	0.37	0.159	0.0445	0.187
Immune Response	0.0394	0.16	0.159	0.0509	0.0263
Lipid Metabolism	0.108	0.275	0.246	0.12	0.0681
Metal Binding and Homeostasis	−0.00345	0.253	0.0875	−0.00885	−0.0472
Mitochondrial Metabolism	0.144	0.296	0.207	0.156	0.0765
Myelination	0.239	0.25	0.22	0.311	0.259
Oxidative Stress	0.0835	0.377	0.297	0.065	0.205
Proteostasis	0.1	0.218	0.144	0.14	0.0266
RNA Spliceosome					
Structural Stabilization	−0.00856	0.076	0.109	0.054	0.00598
Synapse	0.0823	0.22	0.186	0.128	0.0502
Tau Homeostasis					
Vasculature	−0.0466	0.328	0.241	−0.109	0.00407
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Autophagy – other					
Apoptosis	0.0665	−0.0546	−0.0375	0.0817	−0.253
APP Metabolism					
Autophagy	0.207	0.208	0.229	0.219	0.0292
Cell Cycle					
DNA Repair					
Endolysosome	0.22	0.224	0.374	0.187	0.0455
Epigenetic					
Immune Response	−0.0526	0.014	0.128	−0.0655	−0.207
Lipid Metabolism	0.18	0.191	0.296	0.164	0.0164
Metal Binding and Homeostasis					
Mitochondrial Metabolism	0.169	0.084	0.0626	0.197	−0.128
Myelination					
Oxidative Stress					
Proteostasis	0.159	0.0976	0.102	0.166	−0.095
RNA Spliceosome					
Structural Stabilization					
Synapse	0.0493	0.138	0.306	0.17	−0.104
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Mitophagy – animal					
Apoptosis	0.194	0.37	0.258	0.256	0.129
APP Metabolism					
Autophagy	0.221	0.256	0.148	0.279	0.01
Cell Cycle	0.0934	0.127	0.0517	0.273	0.0399
DNA Repair					
Endolysosome	0.315	0.299	0.221	0.429	0.108
Epigenetic	0.12	0.294	0.208	0.137	0.0748
Immune Response	0.181	0.373	0.25	0.213	0.0873
Lipid Metabolism	0.259	0.289	0.238	0.275	0.153
Metal Binding and Homeostasis	0.107	0.399	0.188	0.205	0.0831
Mitochondrial Metabolism	0.147	0.216	0.158	0.22	0.0599
Myelination					
Oxidative Stress	0.325	0.566	0.363	0.394	0.243
Proteostasis	0.162	0.319	0.219	0.237	0.104
RNA Spliceosome					
Structural Stabilization	0.181	0.0556	0.0572	0.254	0.0471
Synapse	0.272	0.368	0.235	0.341	0.135
Tau Homeostasis					
Vasculature	0.113	0.35	0.307	0.273	0.0221
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

		Efferocytosis			
Apoptosis	−0.00846	0.143	0.0977	0.0532	0.113
APP Metabolism					
Autophagy	−0.00102	0.15	0.164	0.0641	0.138
Cell Cycle	0.0297	0.181	0.175	0.126	0.155
DNA Repair	0.0847	0.22	0.173	0.267	−0.0197
Endolysosome	0.106	0.227	0.259	0.111	0.183
Epigenetic	0.0264	0.0799	0.138	0.0682	0.153
Immune Response	0.0748	0.159	0.163	0.142	0.229
Lipid Metabolism	0.0602	0.22	0.197	0.141	0.249
Metal Binding and Homeostasis	0.0249	0.168	0.173	0.0637	0.132
Mitochondrial Metabolism	0.166	0.243	0.185	0.226	0.218
Myelination					
Oxidative Stress	0.0323	0.334	0.34	0.0581	0.307
Proteostasis	0.105	0.276	0.261	0.15	0.262
RNA Spliceosome					
Structural Stabilization	0.089	0.195	0.19	0.113	0.268
Synapse	0.161	0.27	0.33	0.174	0.266
Tau Homeostasis					
Vasculature	0.0241	0.147	0.163	0.0946	0.23
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cell cycle					
Apoptosis	0.0176	0.183	0.151	0.0684	0.125
APP Metabolism					
Autophagy					
Cell Cycle	-0.00192	0.11	0.0437	0.0202	0.00356
DNA Repair	-0.0585	0.0129	0.0464	-0.0161	-0.00561
Endolysosome					
Epigenetic	-0.0494	0.0551	0.0667	0.000645	0.0529
Immune Response	-0.0204	0.0392	0.0534	0.0217	0.0928
Lipid Metabolism	0.106	0.318	0.262	0.145	0.187
Metal Binding and Homeostasis	-0.0549	-0.0891	-0.0165	-0.0108	-0.0383
Mitochondrial Metabolism	0.00204	0.172	0.249	0.0857	0.108
Myelination					
Oxidative Stress	-0.0681	-0.0155	-0.0216	0.062	-0.0324
Proteostasis	-0.0262	0.0444	-0.00663	-0.0132	0.0159
RNA Spliceosome					
Structural Stabilization	-0.0324	0.125	0.0372	-0.0582	0.0482
Synapse	0.0628	0.3	0.2	0.044	0.138
Tau Homeostasis					
Vasculature	0.0498	0.0651	0.0797	0.162	0.155
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Oocyte meiosis					
Apoptosis	−0.0057	0.258	0.278	−0.107	0.199
APP Metabolism					
Autophagy					
Cell Cycle	0.0382	0.147	0.0875	0.0067	−0.0092
DNA Repair	−0.0274	0.112	−0.0412	−0.0183	−0.0452
Endolysosome	0.473	0.562	0.851	0.27	0.507
Epigenetic	0.122	0.438	0.346	0.0241	0.312
Immune Response	0.0292	0.242	0.175	−0.0148	0.145
Lipid Metabolism	0.00232	0.349	0.317	−0.0807	0.168
Metal Binding and Homeostasis	0.0407	0.236	0.185	0.052	0.174
Mitochondrial Metabolism	−0.00701	0.223	0.214	0.00366	0.11
Myelination					
Oxidative Stress					
Proteostasis	−0.00823	0.101	0.0868	−0.0387	0.00108
RNA Spliceosome					
Structural Stabilization	0.0796	0.209	0.237	−0.00714	0.101
Synapse	0.0745	0.322	0.289	0.0295	0.179
Tau Homeostasis					
Vasculature	0.128	0.367	0.499	0.00166	0.405
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Apoptosis					
Apoptosis	0.0345	0.115	0.028	0.0788	0.0337
APP Metabolism					
Autophagy	0.158	0.232	0.207	0.217	0.137
Cell Cycle	0.221	0.207	0.196	0.293	0.0954
DNA Repair	0.193	0.181	0.158	0.137	0.0767
Endolysosome	0.174	0.103	0.113	0.296	0.153
Epigenetic	0.129	0.276	0.156	0.19	0.106
Immune Response	0.0587	0.101	0.0355	0.149	0.071
Lipid Metabolism	0.052	0.163	0.0702	0.174	0.0823
Metal Binding and Homeostasis	0.107	0.215	0.0961	0.208	0.035
Mitochondrial Metabolism	0.107	0.172	0.0706	0.149	0.107
Myelination	0.324	0.354	0.195	0.573	0.389
Oxidative Stress	0.0566	0.3	0.151	0.215	0.0996
Proteostasis	0.118	0.19	0.0897	0.191	0.112
RNA Spliceosome					
Structural Stabilization	0.103	0.164	0.0617	0.225	0.0947
Synapse	0.154	0.199	0.135	0.246	0.22
Tau Homeostasis					
Vasculature	0.192	0.358	0.239	0.214	0.145
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Apoptosis – multiple species					
Apoptosis	0.0733	0.158	0.124	0.132	0.148
APP Metabolism					
Autophagy					
Cell Cycle	−0.0249	0.0467	0.0829	0.127	−0.00911
DNA Repair	0.276	0.245	0.251	0.339	0.287
Endolysosome					
Epigenetic					
Immune Response	−0.0111	0.103	0.0718	0.133	0.0971
Lipid Metabolism	0.16	0.228	0.0879	0.264	0.135
Metal Binding and Homeostasis					
Mitochondrial Metabolism	0.136	0.135	0.0929	0.24	0.168
Myelination					
Oxidative Stress	−0.109	0.0906	0.118	0.138	0.0284
Proteostasis	0.0881	0.13	0.0964	0.144	0.135
RNA Spliceosome					
Structural Stabilization					
Synapse	0.274	0.304	0.224	0.361	0.37
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

		Ferroptosis				
	Apoptosis	0.068	0.333	0.258	0.0789	0.125
	APP Metabolism					
	Autophagy					
	Cell Cycle					
	DNA Repair					
	Endolysosome	0.044	0.0873	0.0732	0.12	0.0521
	Epigenetic					
	Immune Response	0.0887	0.344	0.168	0.121	0.2
	Lipid Metabolism	0.0917	0.342	0.23	0.0925	0.168
	Metal Binding and Homeostasis	0.0322	0.172	0.0803	0.024	0.0912
	Mitochondrial Metabolism	0.0343	0.329	0.114	0.0974	0.135
	Myelination					
	Oxidative Stress	0.112	0.284	0.0717	0.0595	0.197
	Proteostasis	0.0467	0.301	0.163	0.0595	0.157
	RNA Spliceosome					
	Structural Stabilization					
	Synapse	0.184	0.182	0.0911	0.309	0.0461
	Tau Homeostasis					
	Vasculature	-0.0491	0.362	0.0295	-0.0449	0.168
		WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Necroptosis					
Apoptosis	0.0203	0.146	0.0484	0.0792	0.0878
APP Metabolism					
Autophagy	0.146	0.25	0.0191	0.161	0.0593
Cell Cycle	0.135	0.204	0.116	0.187	0.169
DNA Repair	0.336	0.242	0.0796	0.359	0.366
Endolysosome	0.172	0.288	0.175	0.23	0.192
Epigenetic	0.0912	0.232	0.119	0.143	0.157
Immune Response	−0.00363	0.0835	0.0405	0.0699	0.1
Lipid Metabolism	−0.0409	0.115	−0.0584	0.108	0.024
Metal Binding and Homeostasis	0.0436	0.113	0.101	0.0766	0.17
Mitochondrial Metabolism	0.017	0.111	−0.0881	0.128	0.0241
Myelination					
Oxidative Stress	−0.0825	0.179	0.117	−0.0544	0.119
Proteostasis	0.00186	0.116	−0.0238	0.066	0.0914
RNA Spliceosome					
Structural Stabilization	0.0255	0.141	0.0442	0.107	0.104
Synapse	0.104	0.301	0.169	0.136	0.243
Tau Homeostasis					
Vasculature	−0.0562	0.239	0.15	−0.0827	0.197
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

p53 signaling pathway					
Apoptosis	0.0599	0.119	0.0482	0.134	0.164
APP Metabolism					
Autophagy	0.0602	0.148	0.295	0.248	0.0789
Cell Cycle	0.0557	0.134	0.111	0.135	0.141
DNA Repair	0.113	0.187	0.111	0.191	0.172
Endolysosome	0.225	0.15	0.43	0.284	0.256
Epigenetic	-0.0386	0.121	0.00101	0.044	0.105
Immune Response	0.0954	0.0589	0.027	0.268	0.199
Lipid Metabolism	0.186	0.247	0.233	0.312	0.238
Metal Binding and Homeostasis	-0.0568	0.0626	-0.0481	0.0908	0.101
Mitochondrial Metabolism	0.15	0.17	0.0813	0.269	0.223
Myelination					
Oxidative Stress	0.122	0.288	0.297	0.186	0.226
Proteostasis	0.0229	0.0534	-0.0928	0.17	0.0496
RNA Spliceosome					
Structural Stabilization	-0.0304	-0.00277	0.0133	0.124	0.144
Synapse	0.322	0.284	0.211	0.449	0.434
Tau Homeostasis					
Vasculature	0.298	0.281	0.191	0.34	0.37
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cellular senescence					
Apoptosis	−0.0147	0.114	0.0536	0.0505	0.0934
APP Metabolism					
Autophagy	0.153	0.316	0.217	0.181	0.0579
Cell Cycle	0.0497	0.126	0.0866	0.0852	0.106
DNA Repair	−0.0712	0.00609	0.0169	−0.0284	−0.0328
Endolysosome	0.289	0.337	0.323	0.321	0.317
Epigenetic	−0.00265	0.0686	0.0351	0.071	0.0602
Immune Response	0.047	0.125	0.0857	0.136	0.117
Lipid Metabolism	−0.0304	0.157	0.112	0.0512	0.0917
Metal Binding and Homeostasis	0.161	0.299	0.186	0.242	0.321
Mitochondrial Metabolism	0.0884	0.197	0.0288	0.155	0.0368
Myelination	0.353	0.36	0.257	0.354	0.303
Oxidative Stress	0.198	0.351	0.312	0.241	0.234
Proteostasis	0.0696	0.131	0.0542	0.157	0.15
RNA Spliceosome					
Structural Stabilization	0.0506	0.141	0.165	0.0792	0.204
Synapse	0.123	0.222	0.124	0.122	0.147
Tau Homeostasis					
Vasculature	0.037	0.202	0.22	0.0707	0.189
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Focal adhesion					
Apoptosis	0.0452	0.214	0.251	0.0485	0.274
APP Metabolism					
Autophagy	0.244	0.334	0.385	0.234	0.374
Cell Cycle	0.0366	0.205	0.255	0.115	0.371
DNA Repair	0.181	0.247	0.341	0.23	0.317
Endolysosome	0.192	0.245	0.29	0.258	0.387
Epigenetic	0.133	0.239	0.335	0.165	0.407
Immune Response	0.0846	0.18	0.201	0.14	0.262
Lipid Metabolism	0.0194	0.162	0.197	0.0594	0.247
Metal Binding and Homeostasis	-0.0596	0.00257	-0.0154	0.0371	0.0991
Mitochondrial Metabolism	0.134	0.362	0.386	0.117	0.405
Myelination	0.0501	0.0982	0.0857	0.23	0.299
Oxidative Stress	0.17	0.374	0.374	0.288	0.425
Proteostasis	0.152	0.144	0.194	0.246	0.308
RNA Spliceosome					
Structural Stabilization	0.0524	0.0634	0.133	0.121	0.211
Synapse	0.0473	0.154	0.205	0.0502	0.248
Tau Homeostasis					
Vasculature	0.0257	0.0989	0.154	0.0721	0.194
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Adherens junction					
Apoptosis	−0.0101	0.0716	0.0949	−0.0244	0.257
APP Metabolism					
Autophagy	0.16	0.193	0.277	0.166	0.226
Cell Cycle	−0.0913	0.0948	0.122	−0.159	0.254
DNA Repair	0.0347	−0.064	0.193	0.0119	0.164
Endolysosome	0.0955	0.293	0.253	0.0729	0.368
Epigenetic	0.0244	0.0996	0.224	−0.0921	0.324
Immune Response	0.0349	0.0726	0.156	0.0237	0.191
Lipid Metabolism	−0.155	0.0199	0.125	−0.124	0.178
Metal Binding and Homeostasis	−0.118	−0.127	−0.0518	−0.139	0.116
Mitochondrial Metabolism	0.305	0.252	0.273	0.273	0.322
Myelination					
Oxidative Stress	0.237	0.512	0.569	0.292	0.498
Proteostasis	0.0691	0.229	0.278	0.0353	0.328
RNA Spliceosome					
Structural Stabilization	−0.0402	0.0262	0.129	−0.067	0.186
Synapse	−0.0359	0.0699	0.197	−0.081	0.215
Tau Homeostasis					
Vasculature	−0.00868	0.115	0.106	0.00371	0.22
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Tight junction					
Apoptosis	0.0933	0.239	0.338	0.0777	0.233
APP Metabolism					
Autophagy	0.0823	0.263	0.279	−0.00765	0.237
Cell Cycle	0.117	0.175	0.237	0.192	0.09
DNA Repair					
Endolysosome	−0.0194	0.0907	0.116	−0.0116	0.184
Epigenetic	0.0641	0.202	0.36	0.00952	0.254
Immune Response	0.0828	0.223	0.233	0.0956	0.178
Lipid Metabolism	−0.0261	0.165	0.167	0.0102	0.135
Metal Binding and Homeostasis	0.0106	0.137	0.159	0.0475	0.0289
Mitochondrial Metabolism	0.0325	0.218	0.275	0.00418	0.0755
Myelination	−0.0214	0.16	0.232	0.0484	0.153
Oxidative Stress	−0.0286	0.441	0.361	−0.0136	0.208
Proteostasis	0.0129	0.136	0.199	−0.0073	0.0937
RNA Spliceosome					
Structural Stabilization	−0.014	0.0704	0.0739	0.0614	0.0353
Synapse	0.0339	0.131	0.2	0.0463	0.138
Tau Homeostasis					
Vasculature	0.013	0.2	0.124	0.119	0.177
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Gap junction					
Apoptosis	0.207	0.175	0.207	0.217	0.282
APP Metabolism					
Autophagy					
Cell Cycle	0.28	0.234	0.314	0.391	0.229
DNA Repair					
Endolysosome	0.398	0.289	0.469	0.452	0.303
Epigenetic	0.158	0.0571	0.206	0.211	0.325
Immune Response	0.157	0.184	0.279	0.159	0.19
Lipid Metabolism	-0.0259	0.0818	0.234	0.043	0.127
Metal Binding and Homeostasis	0.207	0.249	0.295	0.239	0.161
Mitochondrial Metabolism	0.0412	0.159	0.204	0.0654	0.185
Myelination					
Oxidative Stress	0.351	0.291	0.401	0.466	0.457
Proteostasis	0.124	0.198	0.259	0.175	0.203
RNA Spliceosome					
Structural Stabilization	0.257	0.236	0.32	0.344	0.255
Synapse	0.0794	0.176	0.248	0.121	0.185
Tau Homeostasis					
Vasculature	0.147	0.191	0.381	0.178	0.267
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Signaling pathways regulating pluripotency of stem cells					
Apoptosis	0.0602	0.297	0.202	0.148	0.343
APP Metabolism					
Autophagy					
Cell Cycle	0.113	0.28	0.226	0.219	0.318
DNA Repair	−0.0101	0.207	0.313	−0.0464	0.146
Endolysosome	0.225	0.231	0.193	0.241	0.324
Epigenetic	0.0485	0.21	0.153	0.0671	0.245
Immune Response	0.0959	0.25	0.179	0.0669	0.264
Lipid Metabolism	0.0843	0.315	0.231	0.0935	0.35
Metal Binding and Homeostasis	0.00482	0.237	0.188	−0.0508	0.231
Mitochondrial Metabolism	0.213	0.375	0.297	0.148	0.329
Myelination	0.3	0.47	0.163	0.416	0.497
Oxidative Stress	0.278	0.483	0.38	0.264	0.331
Proteostasis	0.209	0.305	0.246	0.231	0.341
RNA Spliceosome					
Structural Stabilization	0.132	0.247	0.189	0.151	0.301
Synapse	0.189	0.331	0.242	0.145	0.405
Tau Homeostasis					
Vasculature	0.0183	0.267	0.191	0.0296	0.267
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Motor proteins					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	0.146	0.0703	0.179	0.249	-0.00392
DNA Repair					
Endolysosome	0.0924	0.158	0.277	0.044	0.0858
Epigenetic					
Immune Response	0.108	-0.0694	0.0669	0.212	0.131
Lipid Metabolism	-0.124	-0.197	0.111	-0.0973	0.122
Metal Binding and Homeostasis	0.142	0.0455	-0.0324	0.31	0.134
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.129	0.14	0.285	0.0991	0.156
RNA Spliceosome					
Structural Stabilization	0.0233	-0.0726	0.0862	0.0575	0.0457
Synapse	0.0894	-0.0432	0.201	0.05	0.0796
Tau Homeostasis					
Vasculature	-0.0145	-0.236	0.0302	-0.0546	-0.0602
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cytoskeleton in muscle cells					
Apoptosis	0.0322	0.262	0.274	0.0602	0.165
APP Metabolism					
Autophagy	0.0985	0.179	0.187	0.152	0.121
Cell Cycle	−0.0249	−0.00464	0.282	−0.0266	0.0391
DNA Repair					
Endolysosome	−0.0326	0.00227	0.116	0.0814	0.116
Epigenetic	0.392	0.305	0.164	0.333	0.313
Immune Response	−0.0249	0.0901	0.109	0.0503	0.12
Lipid Metabolism	−0.0561	−0.00997	0.0501	−0.0299	0.0559
Metal Binding and Homeostasis	0.0666	−2.69e−05	−0.00255	0.193	0.116
Mitochondrial Metabolism	0.218	0.186	0.273	0.206	0.188
Myelination					
Oxidative Stress					
Proteostasis	0.0761	0.0146	0.103	0.144	0.133
RNA Spliceosome					
Structural Stabilization	0.0364	−0.0148	0.0585	0.0972	0.127
Synapse	0.00848	0.0461	0.183	0.0478	0.169
Tau Homeostasis					
Vasculature	0.0391	−0.0146	0.131	0.0765	0.105
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Regulation of actin cytoskeleton					
Apoptosis	0.108	0.251	0.267	0.0621	0.258
APP Metabolism					
Autophagy	0.176	0.222	0.295	0.163	0.278
Cell Cycle	0.0825	0.248	0.226	0.062	0.327
DNA Repair	0.0716	0.334	0.512	-0.0138	0.369
Endolysosome	0.129	0.233	0.255	0.0942	0.332
Epigenetic	0.17	0.281	0.249	0.14	0.401
Immune Response	0.0737	0.158	0.181	0.0489	0.244
Lipid Metabolism	0.0528	0.114	0.185	0.0447	0.22
Metal Binding and Homeostasis	0.0376	0.0362	0.0147	0.0876	0.144
Mitochondrial Metabolism	0.323	0.462	0.343	0.283	0.445
Myelination	0.264	0.26	0.364	0.21	0.32
Oxidative Stress	0.112	0.244	0.301	0.21	0.397
Proteostasis	0.222	0.289	0.305	0.246	0.366
RNA Spliceosome					
Structural Stabilization	0.0618	0.102	0.149	0.0449	0.214
Synapse	0.111	0.199	0.223	0.0719	0.275
Tau Homeostasis					
Vasculature	0.032	0.135	0.146	0.0253	0.161
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hematopoietic cell lineage					
Apoptosis	−0.131	0.105	0.0708	−0.0275	0.1
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0541	0.0694	0.104	0.00693	0.117
Epigenetic					
Immune Response	−0.0299	0.0408	0.00564	0.066	0.111
Lipid Metabolism	−0.0769	−0.0284	−0.0433	−0.00185	0.0533
Metal Binding and Homeostasis	−0.145	0.0638	0.0378	−0.052	0.0514
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.133	0.085	−0.0365	0.0514	−4.71e−07
RNA Spliceosome					
Structural Stabilization	−0.0838	0.0662	−0.0129	0.0069	0.0692
Synapse	−0.0993	−0.00626	−0.0471	0.0234	0.0657
Tau Homeostasis					
Vasculature	−0.178	0.0209	−0.00824	0.0595	−0.0161
	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	−0.00742	−0.0514	−0.00734	0.0167	0.104
Lipid Metabolism	−0.166	−0.168	−0.119	−0.118	0.125
Metal Binding and Homeostasis	−0.167	−0.186	0.0713	−0.0482	0.076
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.0536	−0.0154	−0.146	0.0729	−0.00795
RNA Spliceosome					
Structural Stabilization	−0.0118	−0.0452	−0.0723	0.112	0.149
Synapse	0.132	0.0131	0.0187	0.237	0.26
Tau Homeostasis					
Vasculature	−0.0722	−0.0822	−0.131	0.0188	0.0407
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Platelet activation					
Apoptosis	0.0665	0.236	0.194	0.12	0.29
APP Metabolism					
Autophagy	0.105	0.196	0.226	0.209	0.195
Cell Cycle	0.14	0.373	0.246	0.195	0.267
DNA Repair					
Endolysosome	0.0961	0.31	0.224	0.0785	0.317
Epigenetic	0.247	0.355	0.356	0.225	0.385
Immune Response	−0.00237	0.0906	0.0712	0.108	0.148
Lipid Metabolism	−0.00657	0.115	0.133	0.034	0.139
Metal Binding and Homeostasis	−0.0559	0.0896	0.132	0.0119	0.0451
Mitochondrial Metabolism	−0.0329	0.138	−0.0124	0.13	0.0417
Myelination					
Oxidative Stress	0.236	0.178	0.243	0.359	0.392
Proteostasis	0.00116	0.104	0.152	0.0964	0.11
RNA Spliceosome					
Structural Stabilization	−0.0265	0.112	0.102	0.0624	0.178
Synapse	0.034	0.193	0.221	0.0646	0.156
Tau Homeostasis					
Vasculature	−0.0426	0.0819	0.0942	0.0329	0.127
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Neutrophil extracellular trap formation					
Apoptosis	0.0922	0.0662	0.06	0.168	0.0708
APP Metabolism	−0.00117	0.00433	0.152	0.14	0.0985
Autophagy	0.154	0.0869	0.142	0.133	0.176
Cell Cycle	0.205	0.106	0.051	0.279	0.118
DNA Repair	0.283	0.157	0.273	0.315	0.122
Endolysosome	0.159	0.131	0.301	0.131	0.263
Epigenetic	0.237	0.184	0.122	0.261	0.218
Immune Response	0.112	0.0643	0.169	0.116	0.185
Lipid Metabolism	0.0635	0.0523	0.104	0.0796	0.138
Metal Binding and Homeostasis	0.0663	−0.0994	0.0239	0.0658	0.029
Mitochondrial Metabolism	0.136	0.0915	0.0389	0.184	0.0237
Myelination	0.502	0.49	0.395	0.74	0.397
Oxidative Stress	0.184	0.0968	0.168	0.181	0.23
Proteostasis	0.25	0.276	0.277	0.344	0.196
RNA Spliceosome					
Structural Stabilization	0.171	0.0982	0.214	0.207	0.221
Synapse	0.082	0.101	0.11	0.105	0.148
Tau Homeostasis					
Vasculature	0.112	0.114	0.289	0.093	0.203
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Toll-like receptor signaling pathway					
Apoptosis	−0.0229	0.124	0.0745	0.00439	0.124
APP Metabolism					
Autophagy	0.062	0.281	0.222	0.0724	0.207
Cell Cycle	0.167	0.389	0.266	0.126	0.166
DNA Repair	−0.145	0.00842	0.0392	−0.102	−0.0759
Endolysosome	0.0594	0.145	0.11	0.1	0.167
Epigenetic	−0.0135	0.193	0.123	0.0303	0.0682
Immune Response	−0.0053	0.108	0.0477	0.0197	0.0785
Lipid Metabolism	0.016	0.138	0.0615	0.0375	0.109
Metal Binding and Homeostasis	0.0328	0.23	0.14	0.0214	0.23
Mitochondrial Metabolism	0.00633	0.138	0.0769	0.0921	0.0541
Myelination					
Oxidative Stress	0.213	0.687	0.464	0.242	0.323
Proteostasis	0.144	0.327	0.254	0.183	0.3
RNA Spliceosome					
Structural Stabilization	−0.0197	0.207	0.0795	0.0456	0.164
Synapse	0.129	0.374	0.277	0.11	0.233
Tau Homeostasis					
Vasculature	0.0446	0.335	0.206	0.0185	0.0504
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

NOD-like receptor signaling pathway					
Apoptosis	−0.0308	0.0521	0.0017	−0.0209	0.00955
APP Metabolism					
Autophagy	0.0296	0.0735	0.0135	0.0216	0.0755
Cell Cycle	−0.0301	0.233	0.162	−0.128	0.171
DNA Repair	−0.0984	−0.0239	−0.0998	−0.0547	0.00906
Endolysosome	0.00799	0.0553	0.0369	0.0649	0.0815
Epigenetic	−0.105	−0.0272	−0.0556	−0.133	−0.0207
Immune Response	−0.026	−0.00172	0.000243	−0.0128	0.034
Lipid Metabolism	−0.0679	0.0619	−0.0151	−0.0269	−0.0575
Metal Binding and Homeostasis	−0.0767	0.0327	0.0422	−0.101	0.0645
Mitochondrial Metabolism	−0.0359	−0.0171	−0.0904	0.0471	−0.0468
Myelination					
Oxidative Stress	0.0254	0.192	0.135	0.0081	0.0762
Proteostasis	−0.0198	0.0578	0.0632	−0.0206	0.0609
RNA Spliceosome					
Structural Stabilization	−0.0348	0.0383	0.0121	0.0204	0.0326
Synapse	0.0188	0.158	0.0362	0.0828	0.0462
Tau Homeostasis					
Vasculature	−0.0316	0.243	0.189	−0.0435	0.00403
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

RIG-I-like receptor signaling pathway					
Apoptosis	-0.136	0.0525	-0.0328	-0.0936	-0.024
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	-0.257	-0.0755	-0.109	-0.251	-0.162
Immune Response	-0.129	0.0173	-0.00918	-0.094	-0.0293
Lipid Metabolism	-0.171	-0.00699	-0.161	-0.0899	-0.159
Metal Binding and Homeostasis	-0.0606	0.148	0.233	-0.181	-0.0247
Mitochondrial Metabolism	-0.155	0.0289	0.00419	-0.0902	-0.00229
Myelination					
Oxidative Stress					
Proteostasis	-0.219	-0.0554	-0.109	-0.179	-0.0309
RNA Spliceosome					
Structural Stabilization	-0.392	-0.0762	-0.275	-0.354	-0.219
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cytosolic DNA–sensing pathway					
Apoptosis	−0.0311	−0.0725	−0.16	0.0452	−0.0885
APP Metabolism					
Autophagy					
Cell Cycle	−0.0429	−0.0498	−0.136	0.0934	−0.207
DNA Repair	0.042	−0.0955	−0.21	0.205	−0.0347
Endolysosome					
Epigenetic	−0.113	−0.146	−0.188	−0.077	−0.175
Immune Response	−0.015	−0.0457	−0.0938	0.0545	−0.0617
Lipid Metabolism	−0.0339	−0.0452	−0.168	0.132	−0.145
Metal Binding and Homeostasis	−0.128	−0.0864	0.0269	−0.0589	−0.161
Mitochondrial Metabolism	−0.178	−0.321	−0.414	−0.0615	−0.262
Myelination					
Oxidative Stress					
Proteostasis	−0.0203	−0.0362	−0.117	0.0804	0.0428
RNA Spliceosome					
Structural Stabilization	−0.0597	−0.000674	−0.172	0.1	−0.0361
Synapse	0.174	0.235	0.102	0.355	0.0142
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

C-type lectin receptor signaling pathway					
Apoptosis	0.0444	0.184	0.0722	0.117	0.14
APP Metabolism					
Autophagy	0.18	0.257	0.211	0.0739	0.284
Cell Cycle	0.177	0.242	0.19	0.122	0.216
DNA Repair	0.0611	0.139	0.124	0.13	0.0579
Endolysosome	0.194	0.0941	0.0593	0.2	0.265
Epigenetic	0.0834	0.207	0.161	0.0998	0.0949
Immune Response	0.0243	0.0728	0.0329	0.0887	0.0867
Lipid Metabolism	0.0203	0.051	−0.0221	0.0982	0.12
Metal Binding and Homeostasis	0.17	0.258	0.214	0.0812	0.321
Mitochondrial Metabolism	−0.0239	0.136	−0.00795	0.0303	0.0742
Myelination	0.429	0.569	0.389	0.419	0.417
Oxidative Stress	0.271	0.465	0.348	0.247	0.388
Proteostasis	0.167	0.211	0.14	0.253	0.243
RNA Spliceosome					
Structural Stabilization	0.0666	0.142	0.0746	0.143	0.198
Synapse	0.156	0.354	0.27	0.149	0.246
Tau Homeostasis					
Vasculature	0.177	0.427	0.339	0.187	0.266
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Natural killer cell mediated cytotoxicity					
Apoptosis	0.0324	0.0387	0.112	−0.0466	0.0594
APP Metabolism					
Autophagy	0.158	0.0936	0.157	0.107	0.109
Cell Cycle	0.0481	−0.00185	0.129	−0.0936	0.0393
DNA Repair	0.179	0.23	0.358	0.0991	0.0353
Endolysosome	0.209	0.0982	0.311	0.183	0.221
Epigenetic	0.126	0.277	0.339	0.0501	0.261
Immune Response	0.121	0.119	0.161	0.0641	0.14
Lipid Metabolism	0.00131	0.0248	0.101	−0.0146	0.0854
Metal Binding and Homeostasis	0.176	0.204	0.241	0.047	0.17
Mitochondrial Metabolism	0.224	0.256	0.22	0.163	0.184
Myelination					
Oxidative Stress	0.256	0.152	0.317	0.186	0.24
Proteostasis	0.29	0.295	0.38	0.253	0.196
RNA Spliceosome					
Structural Stabilization	0.126	0.114	0.141	0.0538	0.146
Synapse	0.126	0.181	0.256	0.0409	0.177
Tau Homeostasis					
Vasculature	0.0704	0.206	0.362	−0.0529	0.242
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Antigen processing and presentation				
Apoptosis	−0.0348	0.136	−0.0493	0.0125	0.263
APP Metabolism					
Autophagy					
Cell Cycle	0.0413	0.192	0.1	0.0677	0.203
DNA Repair					
Endolysosome	−0.153	−0.0251	−0.0578	−0.0608	0.0954
Epigenetic	0.138	0.2	0.0358	0.173	0.322
Immune Response	−0.0799	−0.00368	0.00551	−0.0159	0.135
Lipid Metabolism	−0.119	−0.0277	−0.0838	−0.113	−0.0799
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.0475	0.0285	−0.0542	−0.00471	0.0557
RNA Spliceosome					
Structural Stabilization	−0.177	−0.0951	−0.202	−0.143	0.062
Synapse	−0.057	0.215	0.0623	−0.1	0.252
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

T cell receptor signaling pathway					
Apoptosis	0.0566	0.307	0.176	0.0676	0.164
APP Metabolism					
Autophagy	0.0827	0.365	0.28	0.0172	0.221
Cell Cycle	0.133	0.351	0.193	0.215	0.202
DNA Repair	0.0597	0.325	0.257	0.0159	0.148
Endolysosome	0.143	0.225	0.232	0.144	0.195
Epigenetic	0.08	0.373	0.23	0.0919	0.145
Immune Response	0.0598	0.23	0.118	0.0664	0.0972
Lipid Metabolism	0.0608	0.25	0.165	0.122	0.116
Metal Binding and Homeostasis	0.117	0.291	0.198	0.0722	0.167
Mitochondrial Metabolism	0.124	0.374	0.263	0.0782	0.209
Myelination					
Oxidative Stress	0.259	0.575	0.511	0.328	0.282
Proteostasis	0.192	0.372	0.27	0.208	0.271
RNA Spliceosome					
Structural Stabilization	0.0925	0.279	0.175	0.106	0.202
Synapse	0.114	0.422	0.303	0.102	0.259
Tau Homeostasis					
Vasculature	0.0575	0.382	0.283	-0.00159	0.218
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Th1 and Th2 cell differentiation					
Apoptosis	0.0559	0.191	0.157	0.131	0.162
APP Metabolism					
Autophagy					
Cell Cycle	0.236	0.493	0.385	0.21	0.232
DNA Repair					
Endolysosome	0.0223	0.21	0.279	0.086	0.293
Epigenetic	0.0553	0.282	0.251	0.0684	0.155
Immune Response	0.0616	0.159	0.16	0.114	0.148
Lipid Metabolism	0.0361	0.125	0.119	0.15	0.0901
Metal Binding and Homeostasis	0.098	0.361	0.31	0.0541	0.23
Mitochondrial Metabolism	0.0608	0.209	0.225	0.0177	0.105
Myelination					
Oxidative Stress	0.161	0.725	0.54	0.175	0.361
Proteostasis	0.196	0.268	0.401	0.147	0.216
RNA Spliceosome					
Structural Stabilization	0.0734	0.0802	0.127	0.188	0.206
Synapse	0.144	0.312	0.311	0.127	0.21
Tau Homeostasis					
Vasculature	0.0734	0.262	0.281	0.0737	0.155
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Th17 cell differentiation					
Apoptosis	0.00346	0.165	0.135	0.0622	0.13
APP Metabolism					
Autophagy	0.0457	0.254	0.377	0.154	0.147
Cell Cycle	0.261	0.458	0.413	0.276	0.317
DNA Repair					
Endolysosome	0.00114	0.228	0.339	0.0305	0.259
Epigenetic	0.0711	0.283	0.216	0.0445	0.123
Immune Response	0.0015	0.138	0.124	0.0366	0.0834
Lipid Metabolism	-0.034	0.0707	0.0722	0.0792	0.017
Metal Binding and Homeostasis	0.0412	0.214	0.221	-0.00117	0.147
Mitochondrial Metabolism	0.0891	0.261	0.286	0.0807	0.158
Myelination					
Oxidative Stress	0.129	0.696	0.535	0.159	0.349
Proteostasis	0.145	0.29	0.381	0.0738	0.153
RNA Spliceosome					
Structural Stabilization	0.0458	0.129	0.205	0.0563	0.169
Synapse	0.0807	0.268	0.284	0.0962	0.211
Tau Homeostasis					
Vasculature	-0.0482	0.157	0.178	-0.0481	0.0548
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

IL-17 signaling pathway					
Apoptosis	-0.0754	0.0685	0.0376	-0.0877	0.0273
APP Metabolism					
Autophagy	-0.0381	0.285	0.245	-0.135	0.214
Cell Cycle	0.241	0.349	0.254	0.248	0.189
DNA Repair	0.0244	0.268	0.247	0.0769	0.0741
Endolysosome	-0.132	0.0778	0.144	-0.175	0.113
Epigenetic	0.0608	0.194	0.164	0.0454	0.0507
Immune Response	-0.0267	0.0326	-0.008	-0.0312	0.0283
Lipid Metabolism	-0.083	0.0649	0.0607	-0.0881	-0.0183
Metal Binding and Homeostasis	-0.0538	0.123	0.138	-0.0299	0.0903
Mitochondrial Metabolism	-0.00778	0.221	0.204	-0.045	0.191
Myelination					
Oxidative Stress	0.255	0.552	0.539	0.305	0.315
Proteostasis	0.0321	0.135	0.196	0.0117	0.12
RNA Spliceosome					
Structural Stabilization	-0.0282	0.0554	-0.0203	0.0229	0.00144
Synapse	0.0477	0.235	0.209	0.0396	0.127
Tau Homeostasis					
Vasculature	0.123	0.309	0.265	0.136	0.127
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

B cell receptor signaling pathway					
Apoptosis	0.0805	0.219	0.081	0.0809	0.177
APP Metabolism					
Autophagy	0.185	0.283	0.286	0.173	0.351
Cell Cycle	0.31	0.324	0.213	0.217	0.383
DNA Repair					
Endolysosome	0.25	0.217	0.206	0.304	0.28
Epigenetic	0.134	0.294	0.174	0.13	0.194
Immune Response	0.138	0.205	0.105	0.158	0.19
Lipid Metabolism	0.0796	0.19	0.0725	0.161	0.17
Metal Binding and Homeostasis	0.198	0.425	0.289	0.153	0.358
Mitochondrial Metabolism	0.238	0.367	0.196	0.215	0.261
Myelination					
Oxidative Stress	0.431	0.589	0.499	0.505	0.494
Proteostasis	0.337	0.416	0.36	0.385	0.363
RNA Spliceosome					
Structural Stabilization	0.165	0.223	0.127	0.198	0.268
Synapse	0.234	0.379	0.322	0.182	0.434
Tau Homeostasis					
Vasculature	0.172	0.466	0.429	0.0517	0.336
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Fc epsilon RI signaling pathway					
Apoptosis	0.0379	0.257	0.247	0.0175	0.212
APP Metabolism					
Autophagy	0.185	0.203	0.199	0.215	0.214
Cell Cycle	0.134	0.231	0.138	0.121	0.149
DNA Repair					
Endolysosome	0.235	0.151	0.23	0.234	0.131
Epigenetic	0.122	0.327	0.287	0.0843	0.245
Immune Response	0.0868	0.152	0.17	0.105	0.149
Lipid Metabolism	0.0296	0.115	0.16	0.0807	0.137
Metal Binding and Homeostasis	0.236	0.123	0.128	0.292	0.167
Mitochondrial Metabolism	0.0948	0.297	0.216	0.145	0.2
Myelination					
Oxidative Stress	0.276	0.44	0.419	0.254	0.378
Proteostasis	0.283	0.345	0.369	0.377	0.334
RNA Spliceosome					
Structural Stabilization	0.156	0.191	0.207	0.192	0.254
Synapse	0.172	0.356	0.271	0.128	0.293
Tau Homeostasis					
Vasculature	0.0323	0.241	0.292	-0.111	0.228
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Fc gamma R-mediated phagocytosis					
Apoptosis	0.144	0.188	0.204	0.108	0.177
APP Metabolism					
Autophagy	0.24	0.225	0.257	0.234	0.286
Cell Cycle	0.223	0.26	0.242	0.203	0.288
DNA Repair	0.1	0.228	0.257	−0.00949	0.116
Endolysosome	0.187	0.215	0.261	0.133	0.24
Epigenetic	0.222	0.324	0.336	0.0746	0.292
Immune Response	0.156	0.191	0.235	0.136	0.224
Lipid Metabolism	0.109	0.15	0.219	0.094	0.185
Metal Binding and Homeostasis	0.158	0.0702	0.0449	0.0783	0.089
Mitochondrial Metabolism	0.143	0.253	0.205	0.166	0.301
Myelination					
Oxidative Stress	0.322	0.292	0.235	0.313	0.505
Proteostasis	0.187	0.269	0.254	0.217	0.263
RNA Spliceosome					
Structural Stabilization	0.137	0.189	0.189	0.112	0.176
Synapse	0.148	0.177	0.21	0.0876	0.184
Tau Homeostasis					
Vasculature	0.122	0.219	0.282	0.0122	0.23
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Leukocyte transendothelial migration					
Apoptosis	−0.0573	0.0332	0.115	−0.0808	0.0976
APP Metabolism					
Autophagy	0.0164	0.0456	0.0761	−0.0153	0.219
Cell Cycle	5.41e−06	0.235	0.166	−0.025	0.19
DNA Repair					
Endolysosome	−0.0708	0.222	0.218	−0.124	0.328
Epigenetic	0.0545	0.199	0.296	0.0295	0.222
Immune Response	0.0328	0.0555	0.117	0.0407	0.174
Lipid Metabolism	−0.119	0.0225	0.054	−0.123	0.125
Metal Binding and Homeostasis	0.0139	0.000256	0.0684	−0.0024	0.0812
Mitochondrial Metabolism	−0.0184	−0.0781	−0.0328	−0.00861	0.0206
Myelination					
Oxidative Stress	0.0643	0.00327	0.033	0.122	0.218
Proteostasis	0.16	0.232	0.336	0.116	0.271
RNA Spliceosome					
Structural Stabilization	−0.0431	0.0786	0.0719	−0.00853	0.11
Synapse	−0.0249	0.0496	0.11	−0.0364	0.172
Tau Homeostasis					
Vasculature	−0.0311	0.109	0.1	0.00465	0.119
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Intestinal immune network for IgA production					
Apoptosis	0.156	0.103	0.293	0.107	0.0946
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.014	0.0612	0.136	-0.0989	0.0592
Epigenetic					
Immune Response	0.0326	0.00626	0.0811	0.0233	0.0462
Lipid Metabolism	0.0633	0.0593	0.177	-0.0318	-0.0458
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0851	-0.0164	0.0116	0.0972	0.0329
RNA Spliceosome					
Structural Stabilization	-0.00475	0.0982	0.304	0.0827	0.0867
Synapse	0.0761	0.0221	0.147	-0.0219	0.0162
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Chemokine signaling pathway					
Apoptosis	0.0134	0.112	0.0984	0.0324	0.144
APP Metabolism					
Autophagy	0.126	0.183	0.147	0.123	0.188
Cell Cycle	0.0798	0.184	0.221	0.103	0.273
DNA Repair	0.206	0.267	0.368	0.146	0.264
Endolysosome	0.144	0.231	0.24	0.123	0.275
Epigenetic	0.0521	0.147	0.116	0.0864	0.0467
Immune Response	0.0491	0.0831	0.109	0.0179	0.12
Lipid Metabolism	0.0301	0.137	0.153	0.0248	0.187
Metal Binding and Homeostasis	0.0241	0.185	0.203	-0.0164	0.142
Mitochondrial Metabolism	0.129	0.144	0.15	0.12	0.138
Myelination	0.204	0.372	0.449	0.204	0.311
Oxidative Stress	0.235	0.323	0.218	0.278	0.346
Proteostasis	0.204	0.322	0.289	0.228	0.261
RNA Spliceosome					
Structural Stabilization	0.0597	0.173	0.171	0.0551	0.195
Synapse	0.0754	0.178	0.223	0.0762	0.167
Tau Homeostasis					
Vasculature	0.101	0.185	0.198	0.0577	0.222
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Insulin secretion					
Apoptosis	0.0631	0.174	0.38	−0.0695	0.19
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.292	0.304	0.473	0.216	0.383
Epigenetic	0.175	0.262	0.299	0.148	0.298
Immune Response	0.0586	0.277	0.309	−0.00267	0.149
Lipid Metabolism	−0.0323	0.307	0.214	−0.0394	0.00418
Metal Binding and Homeostasis	0.0174	0.166	0.3	−0.0601	0.0536
Mitochondrial Metabolism	0.0365	0.11	0.223	−0.027	−0.0107
Myelination					
Oxidative Stress					
Proteostasis	0.184	0.195	0.28	0.127	0.103
RNA Spliceosome					
Structural Stabilization	0.0649	0.19	0.308	0.0133	0.0946
Synapse	0.11	0.0843	0.228	0.0421	0.142
Tau Homeostasis					
Vasculature	0.118	0.095	0.29	0.0274	0.132
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Insulin signaling pathway					
Apoptosis	0.0864	0.316	0.278	0.0455	0.236
APP Metabolism					
Autophagy	0.157	0.199	0.36	0.143	0.199
Cell Cycle	0.245	0.256	0.222	0.192	0.234
DNA Repair					
Endolysosome	0.277	0.284	0.437	0.254	0.379
Epigenetic	0.0877	0.395	0.358	0.0492	0.331
Immune Response	0.112	0.247	0.254	0.095	0.168
Lipid Metabolism	0.102	0.253	0.302	0.0879	0.216
Metal Binding and Homeostasis	0.188	0.304	0.214	0.0786	0.231
Mitochondrial Metabolism	0.116	0.242	0.249	0.0731	0.19
Myelination	0.281	0.373	0.408	0.154	0.423
Oxidative Stress	0.211	0.584	0.557	0.146	0.453
Proteostasis	0.267	0.381	0.346	0.27	0.342
RNA Spliceosome					
Structural Stabilization	0.151	0.304	0.337	0.103	0.268
Synapse	0.151	0.369	0.368	0.0527	0.298
Tau Homeostasis					
Vasculature	0.115	0.337	0.335	0.0768	0.252
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Glucagon signaling pathway					
Apoptosis	0.0925	0.31	0.291	0.131	0.29
APP Metabolism					
Autophagy					
Cell Cycle	0.208	0.509	0.459	0.161	0.429
DNA Repair					
Endolysosome					
Epigenetic	0.165	0.363	0.318	0.138	0.228
Immune Response	0.0475	0.256	0.299	0.0382	0.218
Lipid Metabolism	0.00461	0.175	0.141	0.0445	0.0762
Metal Binding and Homeostasis	0.0962	0.301	0.325	0.024	0.201
Mitochondrial Metabolism	0.0199	0.153	0.151	0.0521	0.0461
Myelination					
Oxidative Stress	0.0914	0.479	0.382	0.169	0.324
Proteostasis	0.0585	0.12	0.119	0.132	0.0757
RNA Spliceosome					
Structural Stabilization	0.185	0.329	0.287	0.202	0.305
Synapse	0.177	0.352	0.31	0.137	0.205
Tau Homeostasis					
Vasculature	0.154	0.38	0.275	0.209	0.257
	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	0.146	0.231	0.234	0.157	0.11
Lipid Metabolism	0.0453	0.156	0.195	0.112	0.0873
Metal Binding and Homeostasis	0.112	0.276	0.308	0.14	0.167
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.153	0.242	0.237	0.242	0.197
RNA Spliceosome					
Structural Stabilization	0.209	0.465	0.374	0.264	0.285
Synapse	0.123	0.209	0.218	0.215	0.15
Tau Homeostasis					
Vasculature	0.119	0.289	0.261	0.156	0.234
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Adipocytokine signaling pathway				
Apoptosis	0.0772	0.284	0.196	0.0996	0.174
APP Metabolism					
Autophagy	0.0302	0.452	0.43	−0.0341	0.291
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	−0.0189	0.277	0.197	−0.00904	0.17
Immune Response	−0.0347	0.135	0.0462	0.0408	0.0313
Lipid Metabolism	−0.0124	0.115	0.0645	0.0698	0.0786
Metal Binding and Homeostasis	0.0815	0.134	0.123	0.184	0.094
Mitochondrial Metabolism	0.00418	0.247	0.214	0.00505	0.168
Myelination					
Oxidative Stress	0.0218	0.604	0.442	0.00416	0.469
Proteostasis	0.154	0.274	0.227	0.185	0.246
RNA Spliceosome					
Structural Stabilization	−0.0929	0.0905	−0.00309	−0.047	0.12
Synapse	0.0613	0.206	0.182	0.102	0.196
Tau Homeostasis					
Vasculature	0.0683	0.167	0.137	0.192	0.135
	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	0.163	0.109	0.144	0.417	0.252
Lipid Metabolism	0.0227	0.0708	0.0552	0.208	0.043
Metal Binding and Homeostasis	0.109	-0.0017	0.0865	0.246	0.119
Mitochondrial Metabolism	0.0547	0.173	0.147	0.243	0.213
Myelination					
Oxidative Stress					
Proteostasis	0.117	0.133	0.141	0.213	0.109
RNA Spliceosome					
Structural Stabilization					
Synapse	0.0122	-0.0625	-0.0297	0.265	0.0758
Tau Homeostasis					
Vasculature	0.0423	-0.0151	0.103	0.237	0.11
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

GnRH secretion					
Apoptosis	0.0262	0.154	0.213	0.0165	0.167
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.211	0.0666	0.292	0.268	0.29
Epigenetic	0.0933	0.13	0.297	0.0788	0.183
Immune Response	0.183	0.242	0.323	0.168	0.24
Lipid Metabolism	0.0364	0.205	0.26	0.011	0.162
Metal Binding and Homeostasis	0.237	0.0912	0.296	0.118	0.192
Mitochondrial Metabolism	0.112	0.31	0.28	0.0756	0.209
Myelination					
Oxidative Stress					
Proteostasis	0.109	0.174	0.186	0.133	0.182
RNA Spliceosome					
Structural Stabilization	0.249	0.248	0.377	0.205	0.331
Synapse	0.182	0.221	0.323	0.111	0.209
Tau Homeostasis					
Vasculature	0.208	0.41	0.534	0.0773	0.346
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

GnRH signaling pathway					
Apoptosis	0.167	0.342	0.346	0.0804	0.27
APP Metabolism					
Autophagy					
Cell Cycle	0.122	0.251	0.329	0.00561	0.215
DNA Repair					
Endolysosome	0.343	0.29	0.358	0.37	0.34
Epigenetic	0.0905	0.29	0.382	0.0819	0.183
Immune Response	0.112	0.237	0.308	0.112	0.214
Lipid Metabolism	-0.0733	0.103	0.206	-0.0713	0.0703
Metal Binding and Homeostasis	0.105	0.173	0.261	0.0893	0.108
Mitochondrial Metabolism	0.0361	0.189	0.208	0.0376	0.164
Myelination					
Oxidative Stress	0.336	0.462	0.518	0.368	0.367
Proteostasis	0.124	0.212	0.294	0.226	0.22
RNA Spliceosome					
Structural Stabilization	0.212	0.181	0.315	0.234	0.262
Synapse	0.0918	0.199	0.287	0.0545	0.197
Tau Homeostasis					
Vasculature	0.193	0.238	0.339	0.136	0.235
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Ovarian steroidogenesis					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	−0.0631	0.059	0.221	0.0517	0.102
Lipid Metabolism	−0.0079	0.0466	0.213	−0.0427	0.133
Metal Binding and Homeostasis	−0.0295	0.00839	0.106	0.0263	0.0548
Mitochondrial Metabolism	−0.0375	−0.0276	−0.0329	0.0483	0.117
Myelination					
Oxidative Stress					
Proteostasis	0.0593	0.188	0.348	0.121	0.22
RNA Spliceosome					
Structural Stabilization					
Synapse	−0.0589	−0.0116	0.209	−0.026	−0.0554
Tau Homeostasis					
Vasculature	−0.00129	−0.0856	0.295	0.136	0.183
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Estrogen signaling pathway					
Apoptosis	0.11	0.21	0.221	0.221	0.291
APP Metabolism					
Autophagy	0.172	0.243	0.264	0.26	0.308
Cell Cycle	0.217	0.368	0.353	0.223	0.399
DNA Repair					
Endolysosome	0.102	0.178	0.215	0.158	0.263
Epigenetic	0.155	0.317	0.375	0.203	0.34
Immune Response	0.138	0.324	0.295	0.197	0.241
Lipid Metabolism	0.0397	0.273	0.284	0.0502	0.219
Metal Binding and Homeostasis	0.117	0.28	0.254	0.124	0.233
Mitochondrial Metabolism	0.126	0.269	0.205	0.149	0.292
Myelination	0.482	0.434	0.343	0.506	0.577
Oxidative Stress	0.388	0.47	0.475	0.503	0.51
Proteostasis	0.153	0.195	0.243	0.237	0.245
RNA Spliceosome					
Structural Stabilization	0.136	0.197	0.177	0.184	0.252
Synapse	0.0982	0.258	0.255	0.0953	0.21
Tau Homeostasis					
Vasculature	0.171	0.36	0.337	0.186	0.319
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Progesterone-mediated oocyte maturation					
Apoptosis	0.162	0.454	0.274	0.128	0.401
APP Metabolism					
Autophagy					
Cell Cycle	0.0811	0.113	0.065	0.0992	0.0686
DNA Repair	-0.046	0.172	0.124	0.054	0.164
Endolysosome	0.328	0.607	0.672	0.234	0.54
Epigenetic	0.165	0.438	0.354	0.109	0.357
Immune Response	0.104	0.354	0.235	0.0727	0.236
Lipid Metabolism	0.127	0.454	0.374	0.0296	0.316
Metal Binding and Homeostasis	0.0604	0.247	0.164	0.0916	0.168
Mitochondrial Metabolism	0.128	0.431	0.297	0.0724	0.335
Myelination					
Oxidative Stress	0.33	0.661	0.498	0.307	0.57
Proteostasis	0.159	0.286	0.208	0.146	0.171
RNA Spliceosome					
Structural Stabilization	0.167	0.276	0.219	0.132	0.238
Synapse	0.132	0.396	0.341	0.0722	0.321
Tau Homeostasis					
Vasculature	0.186	0.376	0.394	0.164	0.348
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Prolactin signaling pathway					
Apoptosis	−0.00676	0.225	0.194	0.0325	0.132
APP Metabolism					
Autophagy	0.29	0.497	0.587	0.325	0.434
Cell Cycle	0.095	0.0557	0.18	0.275	0.138
DNA Repair					
Endolysosome	0.265	0.173	0.307	0.222	0.333
Epigenetic	0.0319	0.23	0.219	0.0419	0.0751
Immune Response	0.145	0.331	0.237	0.145	0.188
Lipid Metabolism	0.155	0.364	0.297	0.152	0.27
Metal Binding and Homeostasis	0.119	0.156	0.0863	0.222	0.0709
Mitochondrial Metabolism	0.193	0.344	0.309	0.175	0.263
Myelination					
Oxidative Stress	0.31	0.628	0.566	0.331	0.365
Proteostasis	0.284	0.437	0.401	0.36	0.388
RNA Spliceosome					
Structural Stabilization	0.223	0.311	0.264	0.265	0.326
Synapse	0.182	0.413	0.385	0.185	0.303
Tau Homeostasis					
Vasculature	0.154	0.486	0.418	0.0939	0.299
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Oxytocin signaling pathway					
Apoptosis	0.114	0.18	0.238	0.131	0.219
APP Metabolism					
Autophagy	0.0962	0.328	0.408	0.00994	0.237
Cell Cycle	0.154	0.287	0.333	0.129	0.319
DNA Repair	0.13	-0.0814	0.252	0.21	0.171
Endolysosome	0.348	0.337	0.382	0.264	0.357
Epigenetic	0.164	0.297	0.392	0.154	0.29
Immune Response	0.171	0.237	0.301	0.143	0.258
Lipid Metabolism	-0.0324	0.194	0.219	-0.0403	0.172
Metal Binding and Homeostasis	0.0808	0.248	0.271	0.0276	0.191
Mitochondrial Metabolism	-0.0308	0.0773	0.103	-0.0299	0.0809
Myelination					
Oxidative Stress	0.223	0.374	0.411	0.284	0.379
Proteostasis	0.0752	0.179	0.281	0.115	0.18
RNA Spliceosome					
Structural Stabilization	0.149	0.211	0.252	0.132	0.281
Synapse	0.137	0.199	0.287	0.0956	0.166
Tau Homeostasis					
Vasculature	0.11	0.207	0.315	0.0679	0.203
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Relaxin signaling pathway					
Apoptosis	0.159	0.284	0.241	0.264	0.314
APP Metabolism					
Autophagy	0.405	0.458	0.512	0.413	0.4
Cell Cycle	0.242	0.433	0.42	0.271	0.365
DNA Repair					
Endolysosome	0.195	0.256	0.394	0.227	0.376
Epigenetic	0.202	0.34	0.373	0.248	0.291
Immune Response	0.122	0.234	0.247	0.176	0.201
Lipid Metabolism	0.0973	0.32	0.326	0.11	0.228
Metal Binding and Homeostasis	0.0524	0.192	0.213	0.131	0.159
Mitochondrial Metabolism	0.14	0.266	0.255	0.162	0.214
Myelination					
Oxidative Stress	0.343	0.47	0.511	0.474	0.435
Proteostasis	0.231	0.207	0.279	0.378	0.256
RNA Spliceosome					
Structural Stabilization	0.191	0.167	0.274	0.311	0.304
Synapse	0.16	0.257	0.239	0.222	0.237
Tau Homeostasis					
Vasculature	0.151	0.181	0.298	0.269	0.282
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Growth hormone synthesis, secretion and action					
Apoptosis	0.0133	0.166	0.198	−0.0147	0.0979
APP Metabolism					
Autophagy	0.0779	0.233	0.338	0.0131	0.12
Cell Cycle	0.132	0.298	0.334	0.119	0.213
DNA Repair	−0.0659	0.0893	0.296	−0.2	−0.0788
Endolysosome	0.285	0.445	0.505	0.232	0.374
Epigenetic	0.0958	0.296	0.317	0.084	0.217
Immune Response	0.0897	0.268	0.287	0.0462	0.117
Lipid Metabolism	0.0457	0.223	0.244	0.0243	0.141
Metal Binding and Homeostasis	0.075	0.176	0.269	0.0451	0.108
Mitochondrial Metabolism	0.00866	0.202	0.214	0.0147	0.11
Myelination					
Oxidative Stress	0.292	0.639	0.468	0.282	0.405
Proteostasis	0.165	0.247	0.301	0.184	0.183
RNA Spliceosome					
Structural Stabilization	0.129	0.246	0.284	0.0912	0.17
Synapse	0.0911	0.157	0.231	0.0474	0.116
Tau Homeostasis					
Vasculature	0.113	0.226	0.33	0.0369	0.147
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

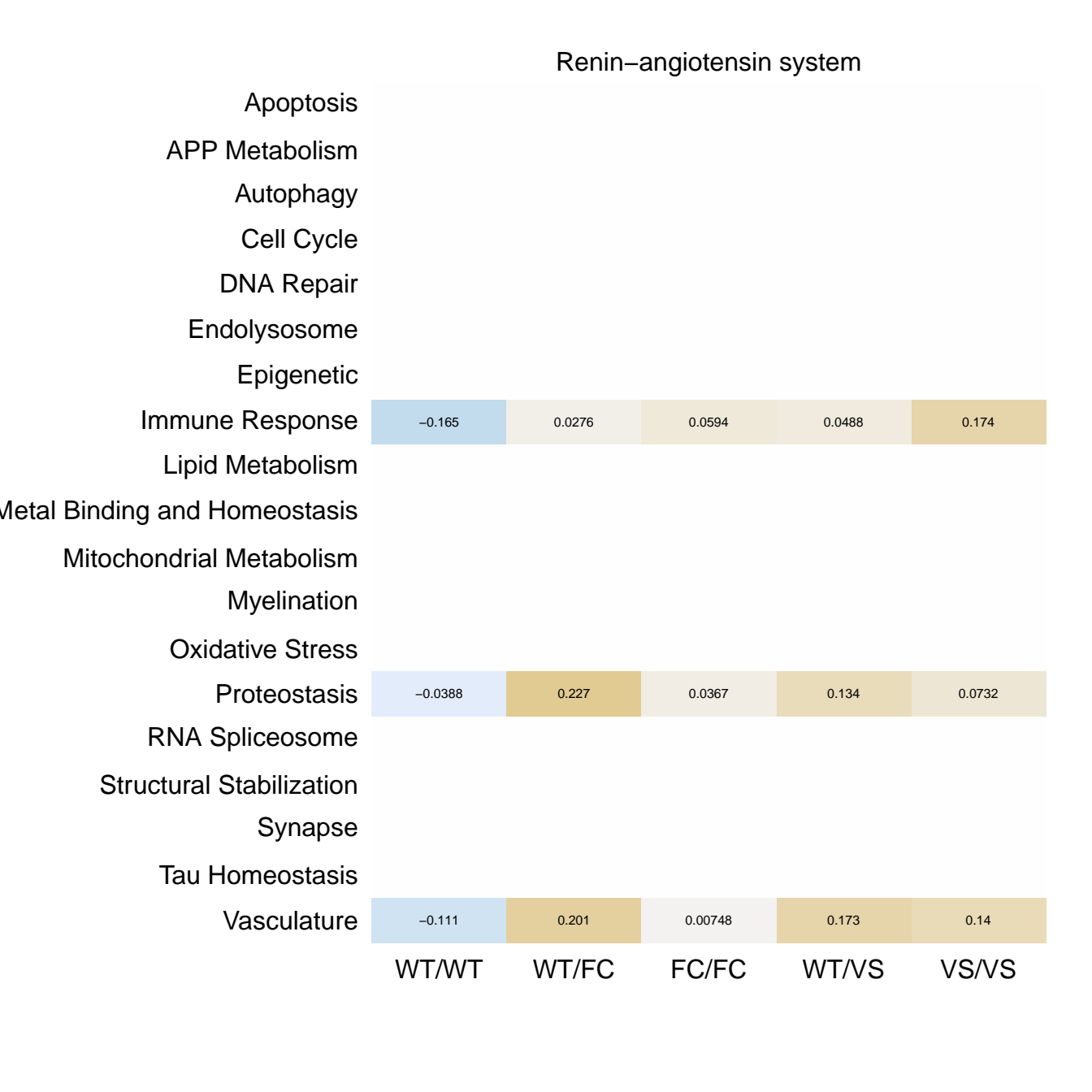
Thyroid hormone synthesis					
Apoptosis	−0.0647	0.0575	0.154	−0.0187	0.155
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.148	0.194	0.283	0.108	0.269
Immune Response	−0.00227	0.23	0.248	−0.0402	0.073
Lipid Metabolism	−0.0643	0.169	0.142	−0.00384	0.00504
Metal Binding and Homeostasis	−0.00312	0.191	0.27	−0.0572	0.0798
Mitochondrial Metabolism	−0.079	0.132	0.0608	−0.0492	0.0992
Myelination					
Oxidative Stress	0.195	0.158	0.045	0.317	0.202
Proteostasis	−0.0435	0.0712	0.126	0.0701	0.0121
RNA Spliceosome					
Structural Stabilization	−0.106	0.0589	0.122	−0.0486	0.0363
Synapse	−0.0789	0.085	0.0812	−0.011	−0.0401
Tau Homeostasis					
Vasculature	0.187	0.346	0.423	0.245	0.223
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Thyroid hormone signaling pathway					
Apoptosis	-0.000842	0.0678	0.154	0.0382	0.134
APP Metabolism					
Autophagy	0.18	0.303	0.357	0.159	0.229
Cell Cycle	0.0544	0.0398	0.104	0.129	0.129
DNA Repair	0.0731	0.0341	0.201	0.0995	0.136
Endolysosome	0.212	0.122	0.187	0.321	0.292
Epigenetic	0.0138	0.0283	0.137	0.0688	0.0585
Immune Response	0.131	0.184	0.281	0.111	0.174
Lipid Metabolism	0.0508	0.163	0.184	0.125	0.189
Metal Binding and Homeostasis	0.0711	0.133	0.245	0.151	0.105
Mitochondrial Metabolism	0.151	0.231	0.312	0.142	0.24
Myelination	0.313	0.31	0.206	0.503	0.272
Oxidative Stress	0.0357	0.245	0.174	0.0562	0.168
Proteostasis	0.0696	0.12	0.17	0.156	0.149
RNA Spliceosome					
Structural Stabilization	0.108	0.184	0.207	0.17	0.203
Synapse	0.128	0.194	0.225	0.148	0.185
Tau Homeostasis					
Vasculature	0.0539	0.198	0.287	0.112	0.187
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Parathyroid hormone synthesis, secretion and action					
Apoptosis	0.114	0.232	0.296	0.155	0.305
APP Metabolism					
Autophagy					
Cell Cycle	0.0889	0.318	0.373	0.128	0.355
DNA Repair					
Endolysosome	0.0893	0.214	0.302	0.176	0.299
Epigenetic	0.181	0.272	0.385	0.212	0.344
Immune Response	0.0592	0.184	0.343	0.0928	0.251
Lipid Metabolism	-0.0026	0.167	0.279	0.0414	0.159
Metal Binding and Homeostasis	0.0967	0.209	0.278	0.101	0.213
Mitochondrial Metabolism	0.00342	0.158	0.187	0.0163	0.114
Myelination					
Oxidative Stress	0.184	0.33	0.348	0.347	0.436
Proteostasis	0.0979	0.132	0.209	0.169	0.193
RNA Spliceosome					
Structural Stabilization	0.0446	0.181	0.338	0.0409	0.269
Synapse	0.0391	0.161	0.206	0.11	0.141
Tau Homeostasis					
Vasculature	0.108	0.219	0.342	0.158	0.307
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Melanogenesis					
Apoptosis	0.111	0.254	0.258	0.132	0.312
APP Metabolism					
Autophagy					
Cell Cycle	0.152	0.283	0.414	0.0578	0.34
DNA Repair					
Endolysosome	0.326	0.282	0.265	0.269	0.341
Epigenetic	0.00396	0.0706	0.0969	0.0416	0.145
Immune Response	0.0948	0.196	0.183	0.0413	0.195
Lipid Metabolism	0.0899	0.264	0.28	0.0823	0.18
Metal Binding and Homeostasis	0.0618	0.206	0.297	-0.00683	0.139
Mitochondrial Metabolism	0.15	0.291	0.338	0.0767	0.237
Myelination					
Oxidative Stress					
Proteostasis	0.181	0.207	0.215	0.168	0.265
RNA Spliceosome					
Structural Stabilization	0.173	0.266	0.227	0.131	0.238
Synapse	0.17	0.263	0.249	0.13	0.234
Tau Homeostasis					
Vasculature	0.175	0.288	0.309	0.215	0.314
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

		Renin secretion				
APP Metabolism	Apoptosis	0.0334	0.143	0.0637	0.231	0.0896
	Autophagy					
	Cell Cycle	0.239	0.483	0.42	0.164	0.402
	DNA Repair					
	Endolysosome					
Immune Response	Epigenetic					
	Immune Response	0.0457	0.229	0.321	0.128	0.335
	Lipid Metabolism	-0.0704	0.143	0.0666	0.0975	0.045
	Metal Binding and Homeostasis	0.0813	0.331	0.355	0.0324	0.238
	Mitochondrial Metabolism	-0.0734	0.111	0.113	0.0127	-0.0231
Proteostasis	Myelination					
	Oxidative Stress					
	Proteostasis	-0.0472	0.188	0.0373	0.119	-0.0863
	RNA Spliceosome					
	Structural Stabilization	0.14	0.31	0.258	0.231	0.298
Vasculature	Synapse	0.0737	0.232	0.29	0.114	0.188
	Tau Homeostasis					
	Vasculature	0.142	0.289	0.288	0.185	0.22
		WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Aldosterone synthesis and secretion					
Apoptosis	0.0712	0.197	0.356	0.0444	0.163
APP Metabolism					
Autophagy					
Cell Cycle	0.0776	0.271	0.467	-0.0439	0.242
DNA Repair					
Endolysosome	0.296	0.328	0.592	0.263	0.259
Epigenetic	0.107	0.265	0.343	0.15	0.194
Immune Response	-0.0232	0.206	0.341	-0.0895	0.0859
Lipid Metabolism	-0.0182	0.189	0.285	-0.0365	0.062
Metal Binding and Homeostasis	0.074	0.219	0.359	-0.0382	0.114
Mitochondrial Metabolism	-0.08	0.155	0.218	-0.112	0.0533
Myelination					
Oxidative Stress					
Proteostasis	0.108	0.202	0.337	0.147	0.0446
RNA Spliceosome					
Structural Stabilization	0.144	0.207	0.373	0.101	0.182
Synapse	0.125	0.247	0.363	0.095	0.0969
Tau Homeostasis					
Vasculature	0.146	0.252	0.446	0.124	0.171
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cortisol synthesis and secretion

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.158	0.289	0.424	0.293	0.296
Immune Response	0.0141	0.178	0.383	0.0734	0.0958
Lipid Metabolism	0.0312	0.219	0.357	0.0584	0.138
Metal Binding and Homeostasis	0.0758	0.166	0.303	0.0503	0.1
Mitochondrial Metabolism	-0.103	0.117	0.0788	-0.0469	-0.0838
Myelination					
Oxidative Stress					
Proteostasis	0.0738	0.175	0.242	0.222	0.0458
RNA Spliceosome					
Structural Stabilization	0.145	0.0893	0.24	0.3	0.165
Synapse	0.086	0.159	0.314	0.134	0.084
Tau Homeostasis					
Vasculature	0.266	0.225	0.51	0.321	0.264
	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	0.221	0.418	0.293	0.224	0.114
Metal Binding and Homeostasis	-0.108	-0.0232	-0.0987	-0.0859	-0.157
Mitochondrial Metabolism	-0.244	-0.412	-0.576	-0.119	-0.485
Myelination					
Oxidative Stress					
Proteostasis	0.12	0.285	0.374	0.137	-0.00253
RNA Spliceosome					
Structural Stabilization	-0.0121	0.00324	0.0724	0.0171	-0.00821
Synapse	0.16	0.25	0.371	0.122	0.175
Tau Homeostasis					
Vasculature	0.0385	0.136	0.28	-0.0206	0.0485
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Adrenergic signaling in cardiomyocytes					
Apoptosis	0.205	0.367	0.388	0.278	0.39
APP Metabolism					
Autophagy					
Cell Cycle	0.203	0.475	0.41	0.212	0.357
DNA Repair					
Endolysosome	0.377	0.43	0.39	0.274	0.492
Epigenetic	0.228	0.332	0.34	0.226	0.385
Immune Response	0.0957	0.286	0.239	0.0693	0.272
Lipid Metabolism	0.105	0.304	0.288	0.0476	0.219
Metal Binding and Homeostasis	0.00683	0.242	0.252	-0.0293	0.123
Mitochondrial Metabolism	0.0675	0.28	0.271	0.0669	0.192
Myelination					
Oxidative Stress	0.099	0.239	0.263	0.19	0.255
Proteostasis	0.18	0.254	0.296	0.231	0.237
RNA Spliceosome					
Structural Stabilization	0.195	0.269	0.259	0.207	0.264
Synapse	0.157	0.262	0.336	0.135	0.207
Tau Homeostasis					
Vasculature	0.13	0.23	0.305	0.0608	0.226
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Vascular smooth muscle contraction					
Apoptosis	−0.0102	0.0493	0.0348	−0.0547	0.0424
APP Metabolism					
Autophagy	0.0339	0.0264	0.194	−0.0843	0.0899
Cell Cycle	0.0419	0.257	0.286	−0.0664	0.193
DNA Repair					
Endolysosome	0.208	0.138	0.115	0.203	0.152
Epigenetic					
Immune Response	0.0313	0.0866	0.142	−0.023	0.107
Lipid Metabolism	0.0136	0.0909	0.124	0.0249	0.107
Metal Binding and Homeostasis	0.052	0.144	0.182	−0.0245	0.13
Mitochondrial Metabolism	0.0686	0.173	0.128	0.127	0.131
Myelination					
Oxidative Stress					
Proteostasis	0.143	0.197	0.19	0.169	0.145
RNA Spliceosome					
Structural Stabilization	−0.0355	0.0356	0.0846	−0.0447	0.103
Synapse	0.076	0.0842	0.163	0.0309	0.0725
Tau Homeostasis					
Vasculature	0.0678	0.069	0.212	0.062	0.157
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Salivary secretion					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	−0.0412	0.275	0.175	−0.103	0.0347
Lipid Metabolism	−0.0251	0.224	0.228	−0.0296	0.00759
Metal Binding and Homeostasis	−0.0245	0.155	0.273	−0.145	−0.0198
Mitochondrial Metabolism	−0.0768	0.0131	0.173	−0.087	−0.0144
Myelination					
Oxidative Stress					
Proteostasis	0.00456	0.133	0.181	−0.0881	−0.0267
RNA Spliceosome					
Structural Stabilization	0.023	0.122	0.258	−0.0265	0.0927
Synapse	−0.0228	0.126	0.234	−0.113	0.04
Tau Homeostasis					
Vasculature	0.106	0.363	0.491	−0.017	0.203
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Gastric acid secretion					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	0.215	0.369	0.497	0.0472	0.375
DNA Repair					
Endolysosome	0.114	0.268	0.34	0.0952	0.36
Epigenetic					
Immune Response	0.0592	0.233	0.266	-0.055	0.131
Lipid Metabolism	-0.027	0.209	0.214	-0.00914	0.114
Metal Binding and Homeostasis	0.0911	0.258	0.291	0.055	0.157
Mitochondrial Metabolism	-0.0564	0.0514	0.189	-0.108	0.0574
Myelination					
Oxidative Stress					
Proteostasis	0.0799	0.232	0.333	0.0091	0.0359
RNA Spliceosome					
Structural Stabilization	0.197	0.258	0.326	0.114	0.252
Synapse	0.0837	0.171	0.225	0.0645	0.161
Tau Homeostasis					
Vasculature	0.189	0.291	0.368	0.111	0.218
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Pancreatic secretion					
Apoptosis	−0.0723	0.0827	0.185	−0.203	0.0951
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0423	0.169	−0.0369	−0.132	0.095
Epigenetic					
Immune Response	−0.0267	0.258	0.0814	−0.173	0.0834
Lipid Metabolism	−0.0594	0.155	0.108	−0.135	0.027
Metal Binding and Homeostasis	−0.0632	0.105	0.148	−0.124	0.00877
Mitochondrial Metabolism	−0.109	0.148	0.16	−0.148	0.0284
Myelination					
Oxidative Stress					
Proteostasis	0.00896	0.194	0.185	−0.121	0.0393
RNA Spliceosome					
Structural Stabilization	0.0134	0.211	0.182	−0.0814	0.163
Synapse	−0.0438	0.129	0.148	−0.116	0.0841
Tau Homeostasis					
Vasculature	−0.0169	0.316	0.328	−0.119	0.12
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Bile secretion					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.00912	0.279	0.202	0.0839	−0.0169
Lipid Metabolism	0.0328	0.186	0.141	0.0962	0.0785
Metal Binding and Homeostasis	0.0414	0.179	0.188	0.138	0.0411
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0763	0.19	0.279	0.0842	−0.0206
RNA Spliceosome					
Structural Stabilization	0.0923	0.0502	0.187	0.235	0.119
Synapse	0.0587	0.0559	0.159	0.114	0.0516
Tau Homeostasis					
Vasculature	−0.00397	0.117	0.19	0.155	0.0873
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

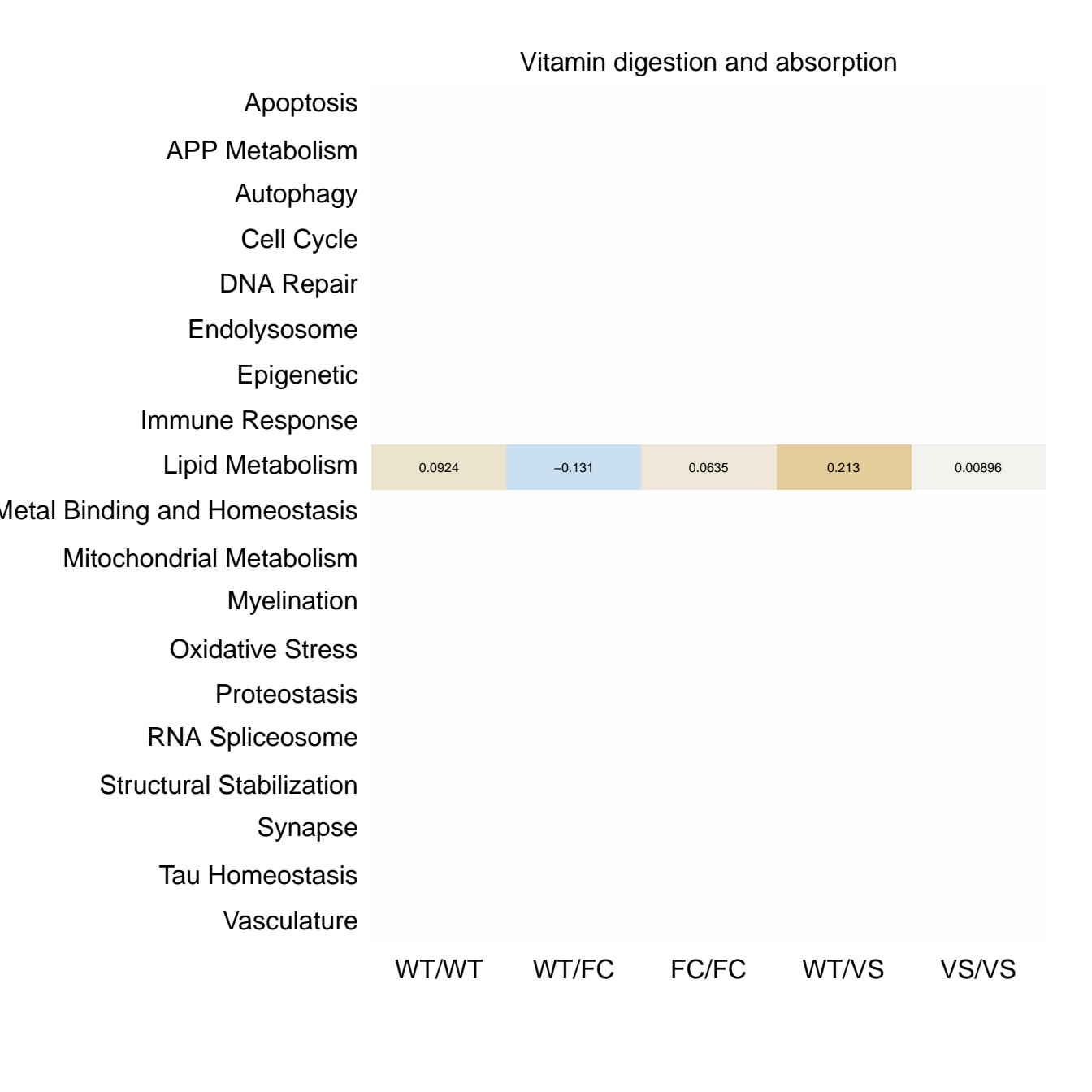
Carbohydrate digestion and absorption

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.132	0.394	0.271	0.108	0.174
Lipid Metabolism	0.165	0.387	0.233	0.13	0.152
Metal Binding and Homeostasis	0.0297	0.205	0.288	-0.0159	0.117
Mitochondrial Metabolism	0.0807	0.2	0.13	0.0952	0.0965
Myelination					
Oxidative Stress					
Proteostasis	0.405	0.566	0.416	0.496	0.264
RNA Spliceosome					
Structural Stabilization	0.167	0.46	0.194	0.227	0.299
Synapse	0.125	0.297	0.245	0.121	0.149
Tau Homeostasis					
Vasculature	0.0246	0.309	0.172	-0.0157	0.0954
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Protein digestion and absorption					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0262	0.142	0.0636	−0.0362	0.0717
Epigenetic					
Immune Response	0.0109	0.248	0.193	0.108	0.123
Lipid Metabolism	0.102	0.34	0.123	0.0311	0.0293
Metal Binding and Homeostasis	0.221	0.185	0.201	0.313	0.15
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.223	0.0417	0.126	0.297	0.201
RNA Spliceosome					
Structural Stabilization	0.244	0.0385	0.151	0.319	0.219
Synapse	0.124	0.274	0.212	0.183	0.137
Tau Homeostasis					
Vasculature	0.125	0.134	0.277	0.188	0.175
	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	0.18	0.111	0.202	0.185	0.412
Lipid Metabolism	0.227	0.076	0.227	0.11	0.212
Metal Binding and Homeostasis	0.0868	-0.0843	-0.0606	-0.15	0.0594
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.327	0.137	0.327	0.259	0.334
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cholesterol metabolism					
Apoptosis	−0.063	0.0975	0.0918	0.0194	0.0487
APP Metabolism	−0.0836	0.0149	0.319	0.0208	0.176
Autophagy	−0.0321	0.128	0.292	0.0697	0.133
Cell Cycle					
DNA Repair					
Endolysosome	−0.0685	−0.0244	0.134	0.124	0.0942
Epigenetic					
Immune Response	−0.0289	0.0914	0.243	0.133	0.215
Lipid Metabolism	−0.0268	0.058	0.0842	0.162	0.0681
Metal Binding and Homeostasis	0.0147	0.1	0.109	0.259	0.267
Mitochondrial Metabolism	−0.214	−0.153	−0.42	0.0932	−0.233
Myelination					
Oxidative Stress					
Proteostasis	−0.0152	0.0955	0.189	0.151	0.158
RNA Spliceosome					
Structural Stabilization	0.0115	0.109	0.172	0.197	0.11
Synapse	−0.0409	0.105	0.137	0.131	0.0433
Tau Homeostasis					
Vasculature	−0.0894	−0.0083	0.256	0.0797	0.0753
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Mineral absorption					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	-0.149	-0.0661	-0.223	0.0332	-0.122
Epigenetic					
Immune Response	-0.0845	0.174	0.131	0.0251	0.0571
Lipid Metabolism	-0.0243	0.2	0.203	0.0278	0.066
Metal Binding and Homeostasis	-0.0405	0.0556	0.155	-0.0662	0.0526
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	-0.0277	0.239	0.218	0.0519	-0.0439
RNA Spliceosome					
Structural Stabilization	-0.0792	0.273	0.243	-0.157	0.072
Synapse	-0.0372	0.119	0.263	-0.0677	0.064
Tau Homeostasis					
Vasculature	-0.076	0.282	0.29	-0.137	-0.0245
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Vasopressin-regulated water reabsorption

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle	0.054	0.252	0.351	0.087	-0.151
DNA Repair					
Endolysosome	0.292	0.41	0.486	0.231	0.247
Epigenetic					
Immune Response	0.196	0.353	0.345	0.313	0.242
Lipid Metabolism					
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0489	0.0256	0.247	0.0571	0.0455
RNA Spliceosome					
Structural Stabilization	0.0378	0.0573	0.134	0.109	-0.0606
Synapse	0.137	0.147	0.283	0.147	0.0935
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Aldosterone–regulated sodium reabsorption					
Apoptosis	0.0371	0.357	0.445	−0.19	0.282
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.126	0.368	0.482	0.025	0.324
Immune Response	0.0855	0.322	0.393	−0.0421	0.177
Lipid Metabolism	0.0868	0.252	0.277	−0.0458	0.108
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.257	0.333	0.517	−0.0261	0.225
RNA Spliceosome					
Structural Stabilization	0.136	0.477	0.424	0.0632	0.306
Synapse	0.114	0.145	0.238	−0.0634	0.0735
Tau Homeostasis					
Vasculature	−0.0278	0.272	0.328	−0.184	0.0937
	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	0.238	0.354	0.467	0.32	0.192
Epigenetic					
Immune Response	0.0218	0.226	0.325	-0.0425	0.0669
Lipid Metabolism	0.0204	0.339	0.337	0.0299	0.0266
Metal Binding and Homeostasis	-0.0041	0.185	0.391	-0.109	0.00993
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.165	0.355	0.436	0.239	0.0648
RNA Spliceosome					
Structural Stabilization	0.115	0.322	0.443	0.0566	0.124
Synapse	0.117	0.254	0.355	0.111	0.0683
Tau Homeostasis					
Vasculature	0.00462	0.179	0.403	-0.104	-0.0103
	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	0.0843	0.377	0.0839	0.33	0.0207
Metal Binding and Homeostasis	0.0805	0.296	0.0578	0.34	0.0151
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Collecting duct acid secretion					
Apoptosis					
APP Metabolism					
Autophagy	0.149	0.232	0.242	0.151	0.0427
Cell Cycle					
DNA Repair					
Endolysosome	0.127	0.172	0.189	0.13	-0.0109
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis					
Mitochondrial Metabolism	0.127	0.172	0.189	0.13	-0.0109
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse	0.159	0.183	0.177	0.0501	-0.0296
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Glutamatergic synapse					
Apoptosis	0.0411	0.227	0.316	−0.11	0.104
APP Metabolism					
Autophagy					
Cell Cycle	0.269	0.53	0.669	0.064	0.416
DNA Repair					
Endolysosome	0.264	0.421	0.564	0.0668	0.415
Epigenetic					
Immune Response	0.0901	0.206	0.433	−0.081	0.227
Lipid Metabolism	−0.0181	0.16	0.298	−0.0642	0.151
Metal Binding and Homeostasis	0.0188	0.194	0.306	−0.0599	0.123
Mitochondrial Metabolism	−0.108	0.119	0.114	−0.0437	0.0278
Myelination					
Oxidative Stress					
Proteostasis	0.0192	0.0893	0.305	−0.0604	0.107
RNA Spliceosome					
Structural Stabilization	0.174	0.161	0.416	0.0385	0.341
Synapse	0.084	0.181	0.311	−0.0239	0.188
Tau Homeostasis					
Vasculature	0.0684	0.269	0.402	−0.0171	0.272
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

GABAergic synapse					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.193	0.338	0.53	0.175	0.392
Epigenetic					
Immune Response					
Lipid Metabolism	-0.0391	0.13	0.322	-0.0109	0.114
Metal Binding and Homeostasis	0.0594	0.174	0.421	-0.035	0.13
Mitochondrial Metabolism	0.00609	-0.0306	0.103	0.0883	0.0761
Myelination					
Oxidative Stress					
Proteostasis	0.141	0.16	0.369	0.114	0.0995
RNA Spliceosome					
Structural Stabilization	0.288	0.248	0.485	0.228	0.251
Synapse	0.058	0.21	0.326	0.0214	0.16
Tau Homeostasis					
Vasculature	0.0623	0.0361	0.329	0.126	0.219
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cholinergic synapse					
Apoptosis	0.0873	0.238	0.274	0.101	0.302
APP Metabolism					
Autophagy	0.207	0.294	0.337	0.255	0.16
Cell Cycle	0.163	0.3	0.37	0.164	0.392
DNA Repair					
Endolysosome	0.288	0.486	0.548	0.175	0.44
Epigenetic	0.138	0.261	0.269	0.165	0.306
Immune Response	0.12	0.28	0.34	0.0417	0.217
Lipid Metabolism	0.0621	0.283	0.299	-0.0151	0.155
Metal Binding and Homeostasis	0.0837	0.231	0.349	0.0397	0.19
Mitochondrial Metabolism	0.0627	0.257	0.297	0.0674	0.222
Myelination					
Oxidative Stress	0.483	0.613	0.546	0.615	0.543
Proteostasis	0.193	0.327	0.345	0.239	0.231
RNA Spliceosome					
Structural Stabilization	0.239	0.313	0.364	0.206	0.324
Synapse	0.117	0.219	0.298	0.0753	0.148
Tau Homeostasis					
Vasculature	0.133	0.323	0.388	0.024	0.256
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Dopaminergic synapse					
Apoptosis	0.112	0.355	0.372	0.132	0.287
APP Metabolism	0.0161	0.174	0.497	-0.279	0.203
Autophagy	0.119	0.354	0.336	0.0621	0.299
Cell Cycle	0.124	0.395	0.336	0.144	0.286
DNA Repair					
Endolysosome	0.147	0.215	0.426	0.0713	0.36
Epigenetic	0.168	0.401	0.441	0.187	0.38
Immune Response	0.00928	0.264	0.306	-0.00427	0.191
Lipid Metabolism	0.0684	0.373	0.318	0.096	0.214
Metal Binding and Homeostasis	0.0851	0.286	0.323	0.00995	0.196
Mitochondrial Metabolism	-0.00266	0.291	0.233	0.0153	0.146
Myelination					
Oxidative Stress	0.178	0.453	0.37	0.266	0.304
Proteostasis	0.0996	0.188	0.274	0.131	0.194
RNA Spliceosome					
Structural Stabilization	0.186	0.311	0.36	0.131	0.323
Synapse	0.0891	0.227	0.276	0.0427	0.148
Tau Homeostasis					
Vasculature	0.146	0.256	0.348	0.0768	0.25
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Serotonergic synapse					
Apoptosis	0.158	0.311	0.307	0.11	0.189
APP Metabolism					
Autophagy					
Cell Cycle	0.206	0.447	0.52	0.144	0.257
DNA Repair					
Endolysosome	0.141	0.393	0.457	0.0757	0.317
Epigenetic					
Immune Response	0.0975	0.208	0.374	0.0671	0.21
Lipid Metabolism	−0.0212	0.192	0.233	−0.0372	0.113
Metal Binding and Homeostasis	0.109	0.226	0.284	0.0393	0.14
Mitochondrial Metabolism	−0.0213	0.26	0.214	0.0223	0.117
Myelination					
Oxidative Stress	0.304	0.426	0.599	0.253	0.461
Proteostasis	0.0584	0.217	0.242	0.0665	0.143
RNA Spliceosome					
Structural Stabilization	0.216	0.347	0.373	0.169	0.31
Synapse	0.028	0.216	0.272	−0.0405	0.143
Tau Homeostasis					
Vasculature	0.0505	0.139	0.289	−0.0289	0.204
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

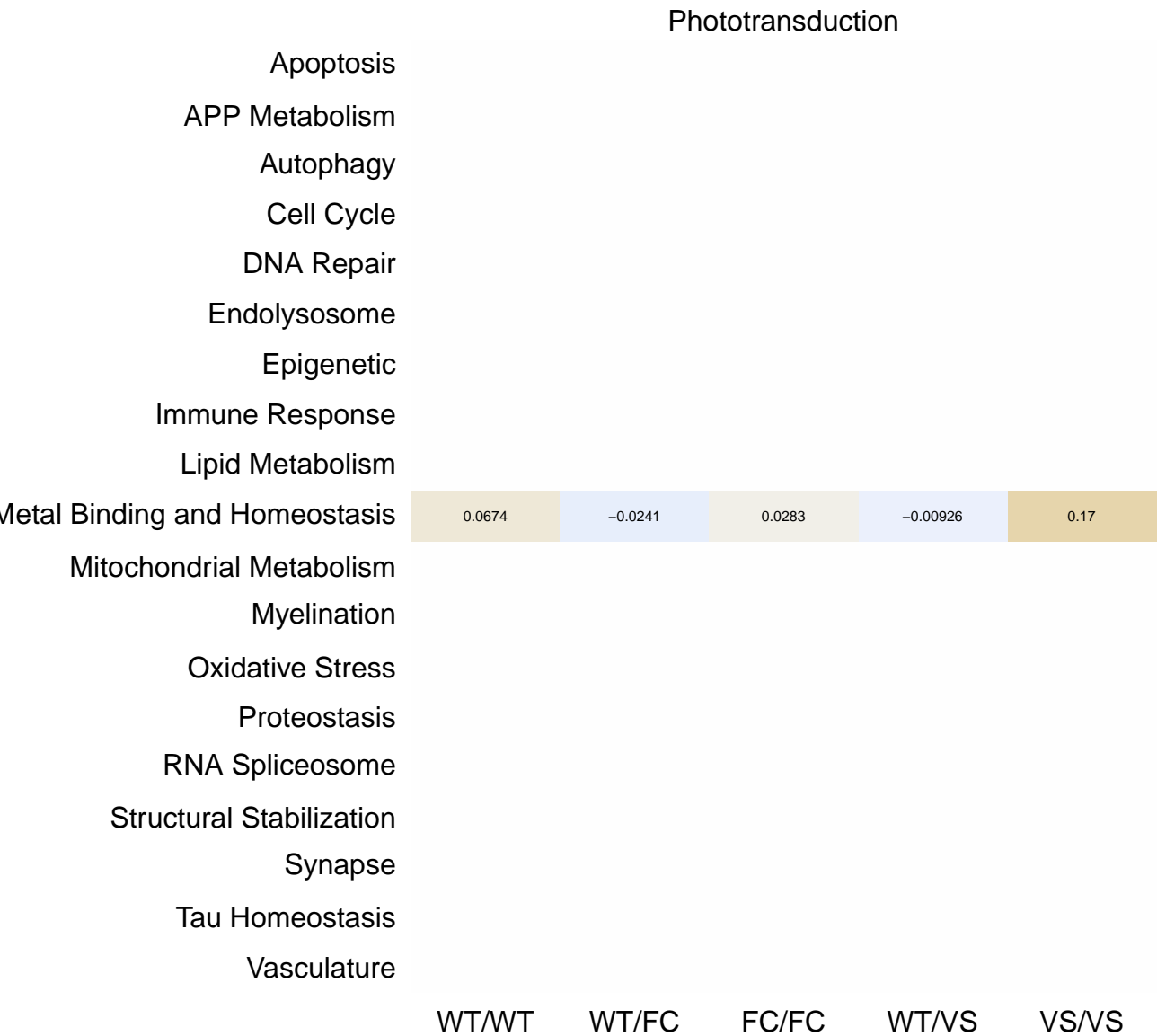
Long-term potentiation					
Apoptosis	0.00859	0.11	0.199	−0.0906	0.141
APP Metabolism					
Autophagy					
Cell Cycle	0.0718	0.242	0.335	−0.0593	0.252
DNA Repair					
Endolysosome	0.356	0.38	0.586	0.0706	0.426
Epigenetic	0.0939	0.322	0.329	−0.0627	0.227
Immune Response	0.0778	0.181	0.363	−0.122	0.186
Lipid Metabolism	−0.0813	0.21	0.249	−0.18	0.0691
Metal Binding and Homeostasis	0.0507	0.25	0.302	−0.0749	0.188
Mitochondrial Metabolism	0.0603	0.281	0.236	0.0226	0.154
Myelination					
Oxidative Stress					
Proteostasis	0.113	0.178	0.279	0.036	0.157
RNA Spliceosome					
Structural Stabilization	0.241	0.317	0.354	0.0922	0.271
Synapse	0.154	0.281	0.334	0.0409	0.21
Tau Homeostasis					
Vasculature	0.243	0.366	0.51	0.103	0.374
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Long-term depression					
Apoptosis	0.0271	0.28	0.238	−0.0156	0.0775
APP Metabolism					
Autophagy					
Cell Cycle	0.119	0.388	0.487	0.0515	0.285
DNA Repair					
Endolysosome	0.308	0.407	0.489	0.17	0.347
Epigenetic					
Immune Response	0.0839	0.19	0.285	0.0726	0.149
Lipid Metabolism	0.00739	0.192	0.228	0.0321	0.137
Metal Binding and Homeostasis	0.101	0.235	0.239	0.065	0.112
Mitochondrial Metabolism	0.0601	0.25	0.248	0.0967	0.107
Myelination					
Oxidative Stress					
Proteostasis	0.0679	0.181	0.2	0.0448	0.147
RNA Spliceosome					
Structural Stabilization	0.105	0.261	0.328	0.0586	0.189
Synapse	0.0616	0.213	0.249	0.0216	0.0947
Tau Homeostasis					
Vasculature	0.203	0.42	0.597	0.103	0.352
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Retrograde endocannabinoid signaling					
Apoptosis	−0.0238	0.24	0.175	−0.118	−0.0468
APP Metabolism					
Autophagy					
Cell Cycle	0.137	0.377	0.463	0.0798	0.201
DNA Repair					
Endolysosome	0.0768	0.367	0.414	−0.0844	0.193
Epigenetic					
Immune Response	0.0795	0.211	0.385	−0.0951	0.134
Lipid Metabolism	−0.0326	0.198	0.185	−0.113	0.072
Metal Binding and Homeostasis	0.0373	0.0848	0.163	−0.0289	−0.0692
Mitochondrial Metabolism	−0.253	−0.403	−0.57	−0.151	−0.461
Myelination					
Oxidative Stress	−0.0701	−0.021	−0.23	−0.000201	−0.105
Proteostasis	0.0638	0.0607	0.187	−0.0198	−0.0155
RNA Spliceosome					
Structural Stabilization	0.151	0.176	0.41	0.0745	0.137
Synapse	0.013	0.217	0.277	−0.0782	0.102
Tau Homeostasis					
Vasculature	0.0918	0.178	0.371	−0.0443	0.13
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Synaptic vesicle cycle					
Apoptosis					
APP Metabolism					
Autophagy	0.142	0.274	0.297	0.184	0.0657
Cell Cycle					
DNA Repair					
Endolysosome	0.194	0.332	0.353	0.163	0.132
Epigenetic					
Immune Response	0.331	0.279	0.465	0.413	0.44
Lipid Metabolism	0.0195	0.217	0.241	-0.0135	0.178
Metal Binding and Homeostasis	-0.105	0.104	0.214	-0.15	0.0515
Mitochondrial Metabolism	0.158	0.219	0.221	0.174	-0.000198
Myelination					
Oxidative Stress					
Proteostasis	0.367	0.567	0.611	0.331	0.373
RNA Spliceosome					
Structural Stabilization	0.142	0.343	0.236	0.173	0.0904
Synapse	0.143	0.28	0.34	0.121	0.119
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Neurotrophin signaling pathway					
Apoptosis	0.0843	0.152	0.131	0.145	0.128
APP Metabolism					
Autophagy	0.128	0.299	0.254	0.158	0.297
Cell Cycle	0.157	0.191	0.0917	0.241	0.233
DNA Repair	0.0943	0.173	0.0766	0.269	0.0681
Endolysosome	0.179	0.199	0.298	0.181	0.233
Epigenetic	0.0738	0.223	0.141	0.161	0.0587
Immune Response	0.101	0.209	0.136	0.165	0.15
Lipid Metabolism	0.0875	0.211	0.125	0.12	0.103
Metal Binding and Homeostasis	0.0332	0.0581	0.00907	0.0836	0.107
Mitochondrial Metabolism	0.059	0.228	0.124	0.0543	0.218
Myelination	0.289	0.339	0.269	0.368	0.443
Oxidative Stress	0.195	0.42	0.274	0.309	0.232
Proteostasis	0.186	0.264	0.23	0.253	0.251
RNA Spliceosome					
Structural Stabilization	0.155	0.241	0.169	0.185	0.231
Synapse	0.101	0.254	0.263	0.102	0.252
Tau Homeostasis					
Vasculature	0.119	0.311	0.247	0.129	0.218
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



	Olfactory transduction				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.27	0.181	0.332	0.2	0.378
Epigenetic					
Immune Response					
Lipid Metabolism					
Metal Binding and Homeostasis	0.0516	0.207	0.416	-0.13	0.213
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0654	0.0087	0.221	0.104	0.0646
RNA Spliceosome					
Structural Stabilization	0.171	0.143	0.42	0.0359	0.152
Synapse	0.0917	0.0398	0.245	0.0313	0.133
Tau Homeostasis					
Vasculature	0.185	0.288	0.34	0.0777	0.288
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

	Taste transduction				
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	-0.117	0.0321	0.251	-0.0639	-0.117
Lipid Metabolism	-0.0277	0.136	0.21	-0.113	-0.149
Metal Binding and Homeostasis	-0.0809	0.0109	0.201	-0.0254	-0.112
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis					
RNA Spliceosome					
Structural Stabilization					
Synapse	0.000479	0.149	0.182	-0.0304	0.00338
Tau Homeostasis					
Vasculature	0.0971	0.0836	0.312	-6.33e-05	-0.00314
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

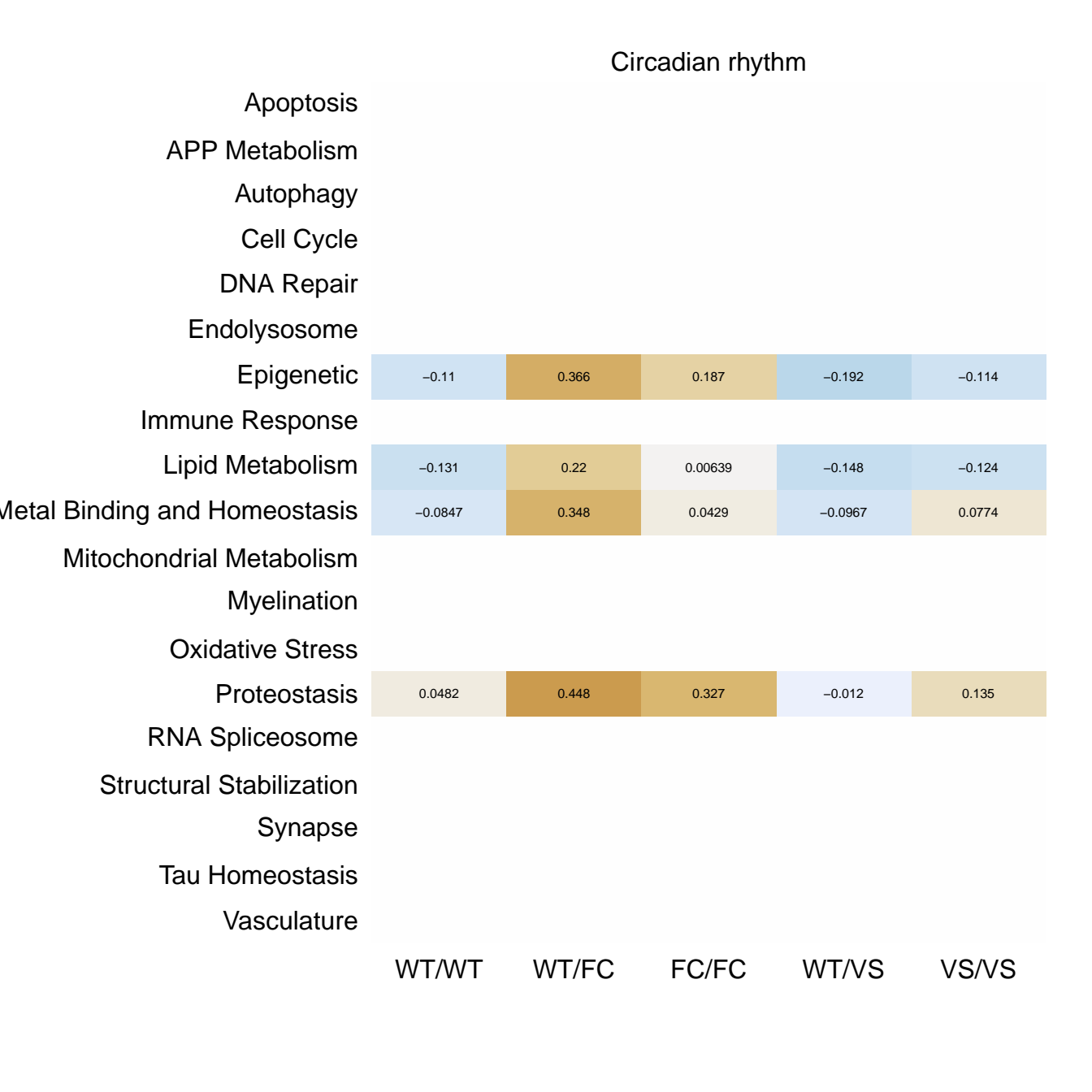
Inflammatory mediator regulation of TRP channels					
Apoptosis	−0.03	0.0534	0.129	−0.0646	0.176
APP Metabolism					
Autophagy	0.0533	0.127	0.149	0.0239	0.148
Cell Cycle	0.0838	0.229	0.23	0.0217	0.186
DNA Repair					
Endolysosome	0.22	0.143	0.286	0.243	0.231
Epigenetic	−0.00781	0.213	0.182	−0.000335	0.207
Immune Response	−0.007	0.0842	0.0769	−0.0092	0.154
Lipid Metabolism	−0.0579	0.108	0.113	−0.0292	0.109
Metal Binding and Homeostasis	0.046	0.122	0.163	0.00593	0.0937
Mitochondrial Metabolism	−0.0905	0.0937	0.05	−0.0289	0.0836
Myelination					
Oxidative Stress	0.048	0.23	0.103	0.117	0.287
Proteostasis	0.0359	0.0162	0.0905	0.0998	0.0726
RNA Spliceosome					
Structural Stabilization	0.045	0.115	0.165	0.0197	0.177
Synapse	0.0569	0.116	0.152	0.0921	0.143
Tau Homeostasis					
Vasculature	−0.0247	−0.00203	0.0691	−0.0172	0.11
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Axon guidance					
Apoptosis	0.0416	0.187	0.265	0.000425	0.232
APP Metabolism					
Autophagy	0.0951	0.243	0.246	0.134	0.157
Cell Cycle	0.0603	0.138	0.171	0.136	0.17
DNA Repair	0.176	0.134	0.334	0.163	0.259
Endolysosome	0.0783	0.184	0.243	0.0541	0.211
Epigenetic	0.15	0.248	0.2	0.197	0.204
Immune Response	0.112	0.196	0.214	0.109	0.203
Lipid Metabolism	0.0583	0.12	0.259	0.0943	0.15
Metal Binding and Homeostasis	0.0548	0.226	0.177	0.0415	0.207
Mitochondrial Metabolism	0.0938	0.217	0.316	0.0334	0.177
Myelination	0.0482	0.102	0.259	0.0513	0.118
Oxidative Stress	0.294	0.284	0.349	0.463	0.351
Proteostasis	0.143	0.221	0.251	0.157	0.239
RNA Spliceosome					
Structural Stabilization	0.039	0.143	0.199	0.00559	0.125
Synapse	0.129	0.202	0.312	0.0846	0.204
Tau Homeostasis					
Vasculature	0.0752	0.278	0.294	0.0413	0.252
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Osteoclast differentiation					
Apoptosis	0.0903	0.222	0.201	0.0656	0.178
APP Metabolism					
Autophagy	0.142	0.153	0.188	0.109	0.229
Cell Cycle	0.206	0.348	0.28	0.147	0.289
DNA Repair	−0.00238	0.16	0.208	−0.129	−0.0133
Endolysosome	0.191	0.225	0.278	0.154	0.222
Epigenetic	0.184	0.361	0.3	0.143	0.21
Immune Response	0.0823	0.169	0.155	0.0927	0.146
Lipid Metabolism	0.0362	0.147	0.138	0.0543	0.166
Metal Binding and Homeostasis	0.0959	0.285	0.256	0.0469	0.172
Mitochondrial Metabolism	0.128	0.22	0.189	0.123	0.163
Myelination					
Oxidative Stress	0.279	0.352	0.336	0.302	0.316
Proteostasis	0.203	0.355	0.334	0.207	0.192
RNA Spliceosome					
Structural Stabilization	0.0829	0.163	0.178	0.0731	0.179
Synapse	0.168	0.322	0.285	0.145	0.277
Tau Homeostasis					
Vasculature	0.172	0.379	0.391	0.126	0.249
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Longevity regulating pathway					
Apoptosis	0.101	0.399	0.276	0.176	0.255
APP Metabolism					
Autophagy	0.148	0.39	0.38	0.193	0.157
Cell Cycle	0.141	0.283	0.204	0.19	0.243
DNA Repair	0.207	0.469	0.389	0.297	0.298
Endolysosome	0.0749	0.278	0.328	0.0587	0.201
Epigenetic	0.118	0.307	0.244	0.157	0.272
Immune Response	0.00769	0.216	0.149	0.0835	0.0198
Lipid Metabolism	0.0578	0.327	0.279	0.0668	0.154
Metal Binding and Homeostasis	0.0585	0.284	0.227	0.113	0.158
Mitochondrial Metabolism	0.106	0.407	0.275	0.0885	0.218
Myelination					
Oxidative Stress	0.12	0.632	0.475	0.167	0.282
Proteostasis	0.224	0.384	0.292	0.271	0.258
RNA Spliceosome					
Structural Stabilization	0.0728	0.32	0.306	0.16	0.184
Synapse	0.131	0.276	0.28	0.166	0.189
Tau Homeostasis					
Vasculature	0.0913	0.297	0.265	0.15	0.205
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Longevity regulating pathway – multiple species					
Apoptosis	0.0265	0.352	0.178	0.0783	0.21
APP Metabolism					
Autophagy	−0.0178	0.255	0.291	0.0236	0.0174
Cell Cycle	0.0346	0.204	0.145	0.13	0.188
DNA Repair					
Endolysosome	−0.095	0.0485	0.119	−0.0508	0.0205
Epigenetic	0.0586	0.435	0.252	0.143	0.266
Immune Response	−0.0456	0.213	0.176	−0.0126	0.0437
Lipid Metabolism	−0.0195	0.26	0.239	−0.0263	0.114
Metal Binding and Homeostasis	0.011	0.243	0.175	0.0648	0.0706
Mitochondrial Metabolism	0.0304	0.318	0.244	0.0253	0.178
Myelination					
Oxidative Stress	0.0898	0.488	0.234	0.11	0.264
Proteostasis	0.0432	0.256	0.203	0.0914	0.14
RNA Spliceosome					
Structural Stabilization	0.0206	0.258	0.171	0.0768	0.134
Synapse	−0.0183	0.154	0.178	0.0118	0.0866
Tau Homeostasis					
Vasculature	0.00701	0.257	0.267	0.0146	0.143
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Circadian entrainment					
Apoptosis	0.127	0.281	0.475	−0.0576	0.2
APP Metabolism					
Autophagy					
Cell Cycle	0.159	0.436	0.488	−0.0144	0.383
DNA Repair					
Endolysosome	0.246	0.412	0.726	0.0285	0.409
Epigenetic	0.163	0.481	0.628	−0.0276	0.208
Immune Response	0.097	0.318	0.556	−0.13	0.156
Lipid Metabolism	0.013	0.306	0.395	−0.103	0.0625
Metal Binding and Homeostasis	0.0941	0.231	0.426	−0.0469	0.176
Mitochondrial Metabolism	−0.0806	−0.0761	0.211	−0.247	−0.0703
Myelination					
Oxidative Stress					
Proteostasis	0.065	0.174	0.374	−0.149	−0.0147
RNA Spliceosome					
Structural Stabilization	0.256	0.189	0.509	0.0829	0.229
Synapse	0.102	0.174	0.353	−0.0516	0.119
Tau Homeostasis					
Vasculature	0.117	0.187	0.451	−0.0915	0.177
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Thermogenesis					
Apoptosis	-0.0539	0.113	0.0475	-0.0233	-0.0257
APP Metabolism					
Autophagy	0.0875	0.126	0.399	0.0852	0.011
Cell Cycle	-0.0132	-0.0827	-0.00451	0.0136	-0.0728
DNA Repair	0.0327	-0.059	0.0895	0.0691	-0.0569
Endolysosome	0.0521	-0.00874	0.0289	0.17	-0.371
Epigenetic	-0.0238	0.00263	0.0852	-0.0176	0.0206
Immune Response	-0.0196	0.0376	0.0346	0.00189	-0.0666
Lipid Metabolism	-0.076	0.103	0.0836	-0.0159	-0.0495
Metal Binding and Homeostasis	-0.028	-9.91e-05	-0.118	0.0643	-0.151
Mitochondrial Metabolism	-0.215	-0.324	-0.545	-0.0723	-0.423
Myelination					
Oxidative Stress	-0.256	-0.0935	-0.354	-0.157	-0.227
Proteostasis	0.0712	0.0749	0.0928	0.108	0.0326
RNA Spliceosome					
Structural Stabilization	0.0379	0.0387	0.131	0.0447	-0.041
Synapse	0.0605	0.0874	0.148	0.0828	0.0431
Tau Homeostasis					
Vasculature	0.00497	0.164	0.233	0.14	-0.0185
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

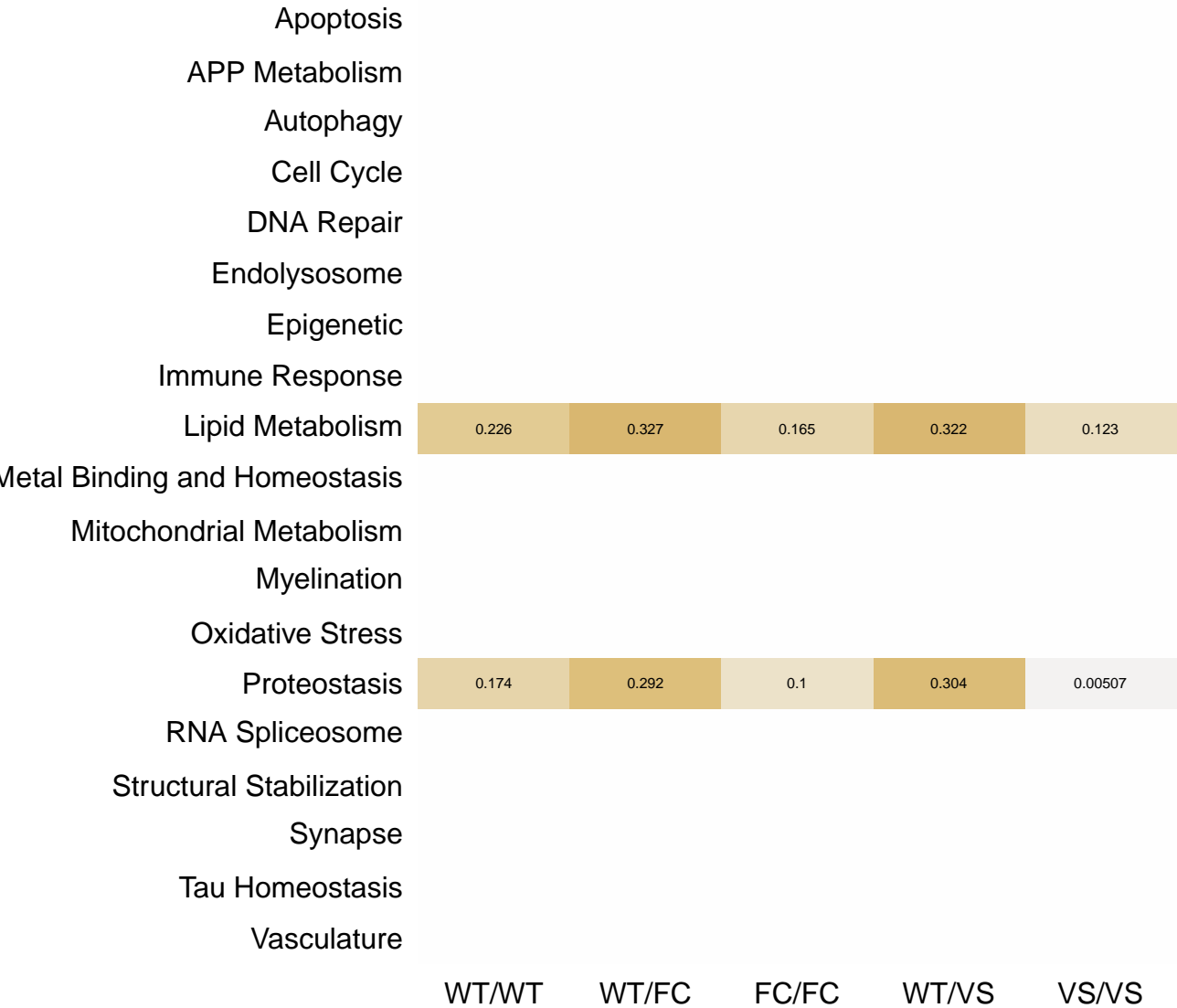
Pathways in cancer					
Apoptosis	−0.00559	0.117	0.116	0.0749	0.165
APP Metabolism	−0.0915	0.0868	0.174	0.0372	0.104
Autophagy	0.0216	0.139	0.221	0.0846	0.205
Cell Cycle	0.0469	0.16	0.191	0.106	0.182
DNA Repair	0.0452	0.0888	0.227	0.0907	0.0974
Endolysosome	0.0983	0.174	0.168	0.15	0.223
Epigenetic	0.00633	0.108	0.109	0.091	0.146
Immune Response	0.0392	0.108	0.123	0.101	0.166
Lipid Metabolism	0.0157	0.112	0.125	0.0897	0.168
Metal Binding and Homeostasis	−0.0109	0.107	0.162	0.012	0.113
Mitochondrial Metabolism	0.112	0.174	0.164	0.172	0.194
Myelination	0.142	0.198	0.17	0.261	0.282
Oxidative Stress	0.0701	0.25	0.261	0.188	0.263
Proteostasis	0.0789	0.126	0.133	0.156	0.164
RNA Spliceosome					
Structural Stabilization	0.0294	0.0909	0.128	0.104	0.19
Synapse	0.0571	0.122	0.16	0.0962	0.198
Tau Homeostasis					
Vasculature	0.0513	0.134	0.165	0.139	0.224
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Transcriptional misregulation in cancer					
Apoptosis	−0.00293	0.0349	0.0839	−0.0229	0.0701
APP Metabolism	−0.067	0.131	0.101	−0.0534	0.119
Autophagy	−0.0724	−0.0421	0.113	−0.0217	0.0948
Cell Cycle	0.0475	0.0369	0.0705	0.0755	0.0707
DNA Repair	−0.0107	−0.0589	−0.121	−0.0114	−0.0413
Endolysosome	−0.08	0.0266	0.139	0.0362	0.149
Epigenetic	0.0292	0.105	0.0638	0.0107	0.0908
Immune Response	0.00182	−0.0025	0.0738	0.00111	0.108
Lipid Metabolism	−0.0154	0.0126	0.108	−0.0186	0.0648
Metal Binding and Homeostasis	−0.076	−0.066	0.021	−0.0677	0.0563
Mitochondrial Metabolism	0.111	−0.0233	0.0265	0.248	0.107
Myelination					
Oxidative Stress	−0.0653	0.105	0.18	−0.00481	0.08
Proteostasis	−0.0192	−0.0329	−0.0155	0.0478	−0.0722
RNA Spliceosome					
Structural Stabilization	0.0355	0.0109	0.0666	0.0426	0.0977
Synapse	0.0141	0.131	0.121	0.0897	0.11
Tau Homeostasis					
Vasculature	0.0752	0.156	0.128	0.0689	0.148
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

MicroRNAs in cancer					
Apoptosis	−0.0606	0.0824	0.156	−0.0166	0.104
APP Metabolism	−0.0412	−0.00878	0.0708	0.209	0.067
Autophagy	0.0757	0.268	0.27	0.0572	0.112
Cell Cycle	−0.0218	0.0796	0.171	0.0649	0.174
DNA Repair	0.000658	0.129	0.285	0.0239	0.128
Endolysosome	0.157	0.273	0.386	0.156	0.239
Epigenetic	−0.0449	0.0564	0.11	−0.0023	0.124
Immune Response	0.0235	0.105	0.169	0.0362	0.167
Lipid Metabolism	−0.0278	0.0685	0.154	−0.000562	0.132
Metal Binding and Homeostasis	−0.028	−0.00633	0.148	0.0081	0.144
Mitochondrial Metabolism	0.0756	0.187	0.167	0.0584	0.16
Myelination	−0.00997	0.0217	0.142	0.178	0.108
Oxidative Stress	0.0692	0.162	0.198	0.14	0.189
Proteostasis	0.0995	0.174	0.239	0.181	0.248
RNA Spliceosome					
Structural Stabilization	0.0398	0.12	0.179	0.0737	0.21
Synapse	0.109	0.168	0.275	0.116	0.233
Tau Homeostasis					
Vasculature	0.0695	0.13	0.246	0.0858	0.228
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Proteoglycans in cancer					
Apoptosis	0.0316	0.17	0.153	0.1	0.23
APP Metabolism	-0.138	0.0882	0.144	0.0316	0.186
Autophagy	0.0778	0.238	0.264	0.119	0.213
Cell Cycle	-0.0158	0.0533	0.0775	0.036	0.168
DNA Repair	-0.00185	0.123	0.196	0.0655	0.0353
Endolysosome	0.0853	0.0883	0.117	0.137	0.212
Epigenetic	0.0234	0.119	0.133	0.0762	0.196
Immune Response	0.0485	0.0881	0.116	0.0918	0.198
Lipid Metabolism	-0.0519	0.103	0.146	-0.0113	0.156
Metal Binding and Homeostasis	-0.0308	0.068	0.0899	0.0596	0.0855
Mitochondrial Metabolism	0.0751	0.14	0.151	0.0515	0.169
Myelination	0.13	0.164	0.182	0.247	0.171
Oxidative Stress	0.104	0.285	0.245	0.222	0.265
Proteostasis	0.0878	0.126	0.149	0.186	0.212
RNA Spliceosome					
Structural Stabilization	0.0293	0.0714	0.0899	0.0768	0.158
Synapse	0.0651	0.143	0.17	0.0656	0.215
Tau Homeostasis					
Vasculature	0.0441	0.151	0.14	0.104	0.218
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Chemical carcinogenesis – DNA adducts



Chemical carcinogenesis – receptor activation					
Apoptosis	0.0706	0.211	0.239	0.164	0.282
APP Metabolism					
Autophagy	0.297	0.311	0.346	0.351	0.33
Cell Cycle	0.0973	0.304	0.245	0.166	0.333
DNA Repair	0.0315	0.154	0.312	0.114	0.257
Endolysosome	0.158	0.244	0.298	0.167	0.272
Epigenetic	0.0706	0.177	0.2	0.146	0.265
Immune Response	0.13	0.254	0.28	0.135	0.227
Lipid Metabolism	0.0664	0.235	0.234	0.0918	0.219
Metal Binding and Homeostasis	0.0148	0.147	0.225	0.0395	0.194
Mitochondrial Metabolism	0.228	0.297	0.273	0.27	0.343
Myelination	0.409	0.461	0.318	0.521	0.605
Oxidative Stress	0.291	0.443	0.402	0.424	0.382
Proteostasis	0.147	0.216	0.209	0.224	0.199
RNA Spliceosome					
Structural Stabilization	0.122	0.229	0.276	0.145	0.317
Synapse	0.15	0.257	0.301	0.148	0.281
Tau Homeostasis					
Vasculature	0.167	0.268	0.383	0.161	0.313
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Chemical carcinogenesis – reactive oxygen species					
Apoptosis	0.0557	0.259	0.13	0.0799	0.122
APP Metabolism					
Autophagy	0.11	0.166	0.207	0.103	0.206
Cell Cycle	0.192	0.279	0.242	0.249	0.301
DNA Repair	0.201	0.312	0.348	0.207	0.264
Endolysosome	0.12	0.0812	0.117	0.205	0.00042
Epigenetic	0.0288	0.302	0.251	0.0803	0.228
Immune Response	0.0636	0.203	0.154	0.0951	0.119
Lipid Metabolism	0.0227	0.137	0.0432	0.114	0.0157
Metal Binding and Homeostasis	0.0159	0.0177	−0.146	0.1	−0.124
Mitochondrial Metabolism	−0.143	−0.25	−0.473	−0.0257	−0.355
Myelination					
Oxidative Stress	0.00376	0.117	−0.0209	0.0698	0.0237
Proteostasis	0.158	0.153	0.121	0.258	0.0743
RNA Spliceosome					
Structural Stabilization	0.124	0.181	0.183	0.169	0.215
Synapse	0.0829	0.243	0.186	0.123	0.203
Tau Homeostasis					
Vasculature	0.0675	0.299	0.234	0.0787	0.162
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Viral carcinogenesis					
Apoptosis	0.00802	0.0715	0.0701	0.0891	0.0663
APP Metabolism	0.0448	0.154	0.301	0.283	−0.0337
Autophagy	0.115	0.117	0.216	0.149	0.119
Cell Cycle	0.0166	0.109	0.0746	0.0537	0.0402
DNA Repair	0.00441	0.0917	0.0474	0.027	−0.00834
Endolysosome	0.133	0.255	0.26	0.139	0.209
Epigenetic	0.0687	0.0888	0.117	0.0681	0.105
Immune Response	0.0302	0.0769	0.102	0.0837	0.106
Lipid Metabolism	0.107	0.21	0.187	0.169	0.153
Metal Binding and Homeostasis	0.0247	0.0214	0.118	−0.0149	−0.0161
Mitochondrial Metabolism	0.0636	0.0627	0.0236	0.145	0.0589
Myelination	0.285	0.331	0.24	0.464	0.186
Oxidative Stress	0.245	0.307	0.279	0.361	0.265
Proteostasis	0.0748	0.15	0.13	0.123	0.0935
RNA Spliceosome					
Structural Stabilization	0.032	0.101	0.0738	0.0496	0.0274
Synapse	0.0776	0.17	0.17	0.0898	0.152
Tau Homeostasis					
Vasculature	0.087	0.275	0.257	0.137	0.197
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Central carbon metabolism in cancer					
Apoptosis	0.00483	0.236	0.113	0.133	0.0782
APP Metabolism					
Autophagy	0.123	0.312	0.27	0.203	0.045
Cell Cycle	0.203	0.213	0.252	0.374	0.326
DNA Repair					
Endolysosome	0.123	0.196	0.268	0.207	0.169
Epigenetic	0.135	0.265	0.246	0.236	0.108
Immune Response	0.115	0.3	0.26	0.176	0.138
Lipid Metabolism	0.151	0.249	0.283	0.158	0.146
Metal Binding and Homeostasis	0.267	0.133	0.21	0.373	0.138
Mitochondrial Metabolism	0.23	0.28	0.286	0.211	0.166
Myelination					
Oxidative Stress	0.0966	0.217	0.304	0.106	0.112
Proteostasis	0.167	0.256	0.236	0.338	0.297
RNA Spliceosome					
Structural Stabilization	0.17	0.287	0.271	0.236	0.247
Synapse	0.15	0.332	0.248	0.227	0.253
Tau Homeostasis					
Vasculature	0.0305	0.273	0.227	0.0853	0.0685
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Choline metabolism in cancer					
Apoptosis	0.0743	0.352	0.369	0.0548	0.221
APP Metabolism					
Autophagy	0.257	0.3	0.396	0.257	0.192
Cell Cycle	0.282	0.251	0.308	0.252	0.243
DNA Repair					
Endolysosome	0.19	0.122	0.219	0.207	0.0788
Epigenetic	0.143	0.419	0.47	0.147	0.292
Immune Response	0.13	0.241	0.302	0.147	0.189
Lipid Metabolism	0.0354	0.174	0.226	0.119	0.11
Metal Binding and Homeostasis	0.0668	0.175	0.172	0.0923	0.0778
Mitochondrial Metabolism	0.0926	0.302	0.262	0.153	0.186
Myelination					
Oxidative Stress	0.234	0.607	0.584	0.323	0.413
Proteostasis	0.197	0.306	0.316	0.26	0.257
RNA Spliceosome					
Structural Stabilization	0.15	0.149	0.308	0.162	0.189
Synapse	0.0487	0.158	0.239	0.086	0.144
Tau Homeostasis					
Vasculature	0.0222	0.239	0.343	0.0295	0.165
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

PD-L1 expression and PD-1 checkpoint pathway in cancer					
Apoptosis	−0.0017	0.178	0.102	0.0162	0.113
APP Metabolism					
Autophagy	0.101	0.311	0.314	0.194	0.243
Cell Cycle	0.0655	0.199	0.15	0.0568	0.144
DNA Repair	−0.172	0.0615	0.173	−0.184	−0.0755
Endolysosome	0.0919	0.231	0.212	0.0337	0.228
Epigenetic	0.0432	0.336	0.196	0.0812	0.163
Immune Response	0.0649	0.196	0.121	0.061	0.0915
Lipid Metabolism	0.0263	0.204	0.193	0.0555	0.128
Metal Binding and Homeostasis	0.0794	0.302	0.194	0.0279	0.171
Mitochondrial Metabolism	0.142	0.258	0.212	0.146	0.144
Myelination					
Oxidative Stress	0.173	0.655	0.454	0.226	0.341
Proteostasis	0.177	0.356	0.32	0.159	0.253
RNA Spliceosome					
Structural Stabilization	0.039	0.183	0.138	0.0165	0.126
Synapse	0.131	0.307	0.291	0.12	0.216
Tau Homeostasis					
Vasculature	−0.00402	0.287	0.26	−0.0851	0.0145
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Colorectal cancer					
Apoptosis	0.0624	0.217	0.269	0.143	0.213
APP Metabolism					
Autophagy	0.165	0.341	0.389	0.28	0.285
Cell Cycle	0.0599	0.161	0.256	0.175	0.215
DNA Repair	0.0527	0.0699	0.244	0.174	0.0713
Endolysosome	0.125	0.243	0.338	0.129	0.243
Epigenetic	0.075	0.247	0.249	0.164	0.238
Immune Response	0.0828	0.266	0.295	0.123	0.232
Lipid Metabolism	0.157	0.402	0.42	0.174	0.339
Metal Binding and Homeostasis	0.05	0.192	0.212	0.188	0.213
Mitochondrial Metabolism	0.193	0.388	0.307	0.197	0.295
Myelination	0.365	0.445	0.369	0.483	0.519
Oxidative Stress	0.304	0.553	0.552	0.449	0.463
Proteostasis	0.183	0.252	0.301	0.286	0.244
RNA Spliceosome					
Structural Stabilization	0.101	0.193	0.269	0.146	0.274
Synapse	0.123	0.347	0.381	0.109	0.352
Tau Homeostasis					
Vasculature	0.162	0.319	0.318	0.16	0.323
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Pancreatic cancer					
Apoptosis	0.0988	0.273	0.226	0.208	0.252
APP Metabolism					
Autophagy	0.187	0.298	0.368	0.328	0.251
Cell Cycle	0.146	0.26	0.248	0.312	0.317
DNA Repair	0.103	0.127	0.166	0.259	0.167
Endolysosome	0.014	0.228	0.271	0.0988	0.25
Epigenetic	0.0319	0.253	0.179	0.118	0.201
Immune Response	0.1	0.284	0.269	0.156	0.255
Lipid Metabolism	0.111	0.28	0.247	0.147	0.263
Metal Binding and Homeostasis	0.0227	0.296	0.255	0.056	0.267
Mitochondrial Metabolism	0.212	0.36	0.247	0.276	0.271
Myelination					
Oxidative Stress	0.242	0.513	0.413	0.402	0.376
Proteostasis	0.151	0.243	0.203	0.259	0.226
RNA Spliceosome					
Structural Stabilization	0.0813	0.244	0.206	0.189	0.262
Synapse	0.149	0.347	0.337	0.196	0.332
Tau Homeostasis					
Vasculature	0.142	0.322	0.322	0.18	0.263
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hepatocellular carcinoma					
Apoptosis	0.0482	0.128	0.148	0.107	0.217
APP Metabolism					
Autophagy	0.29	0.31	0.315	0.293	0.296
Cell Cycle	0.0362	0.033	0.122	0.0664	0.19
DNA Repair	0.0835	-0.0142	0.115	0.0951	0.103
Endolysosome	0.119	0.0683	0.0865	0.175	0.177
Epigenetic	-0.00563	0.0179	0.0497	0.00624	0.161
Immune Response	0.13	0.143	0.149	0.0999	0.217
Lipid Metabolism	0.105	0.159	0.186	0.0963	0.229
Metal Binding and Homeostasis	-0.0476	-0.00621	0.0596	-0.0777	0.153
Mitochondrial Metabolism	0.248	0.277	0.209	0.232	0.236
Myelination	0.318	0.425	0.291	0.435	0.384
Oxidative Stress	0.202	0.291	0.235	0.278	0.296
Proteostasis	0.199	0.19	0.218	0.222	0.269
RNA Spliceosome					
Structural Stabilization	0.0825	0.115	0.128	0.077	0.179
Synapse	0.146	0.159	0.188	0.11	0.248
Tau Homeostasis					
Vasculature	0.0968	0.168	0.197	0.108	0.278
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Gastric cancer					
Apoptosis	0.0344	0.183	0.176	0.139	0.26
APP Metabolism					
Autophagy	0.206	0.404	0.386	0.255	0.414
Cell Cycle	0.0695	0.162	0.205	0.136	0.275
DNA Repair	0.0386	0.0485	0.249	0.164	0.165
Endolysosome	0.153	0.141	0.135	0.173	0.217
Epigenetic	0.0304	0.125	0.0999	0.121	0.217
Immune Response	0.153	0.236	0.214	0.15	0.33
Lipid Metabolism	0.113	0.224	0.199	0.129	0.294
Metal Binding and Homeostasis	0.0573	0.0609	0.128	0.175	0.25
Mitochondrial Metabolism	0.245	0.303	0.263	0.239	0.399
Myelination	0.19	0.301	0.174	0.379	0.364
Oxidative Stress	0.295	0.411	0.422	0.42	0.511
Proteostasis	0.16	0.182	0.162	0.218	0.269
RNA Spliceosome					
Structural Stabilization	0.0614	0.194	0.159	0.0866	0.231
Synapse	0.121	0.241	0.215	0.12	0.317
Tau Homeostasis					
Vasculature	0.118	0.268	0.194	0.142	0.3
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Glioma					
Apoptosis	0.0713	0.169	0.177	0.143	0.197
APP Metabolism					
Autophagy	0.182	0.288	0.265	0.216	0.162
Cell Cycle	0.152	0.188	0.23	0.234	0.292
DNA Repair	0.129	0.152	0.238	0.25	0.0912
Endolysosome	0.306	0.297	0.493	0.279	0.285
Epigenetic	0.0683	0.18	0.189	0.172	0.248
Immune Response	0.101	0.184	0.233	0.0932	0.247
Lipid Metabolism	0.114	0.141	0.21	0.196	0.258
Metal Binding and Homeostasis	0.135	0.167	0.153	0.114	0.222
Mitochondrial Metabolism	0.248	0.329	0.296	0.234	0.357
Myelination	0.317	0.428	0.387	0.285	0.425
Oxidative Stress	0.304	0.269	0.307	0.471	0.333
Proteostasis	0.265	0.255	0.286	0.352	0.277
RNA Spliceosome					
Structural Stabilization	0.17	0.191	0.273	0.169	0.239
Synapse	0.202	0.241	0.298	0.167	0.281
Tau Homeostasis					
Vasculature	0.153	0.262	0.346	0.13	0.285
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Thyroid cancer					
Apoptosis	0.192	0.237	0.229	0.324	0.32
APP Metabolism					
Autophagy					
Cell Cycle	0.104	0.0936	0.232	0.254	0.194
DNA Repair	0.14	0.0261	0.136	0.335	0.165
Endolysosome					
Epigenetic	0.062	-0.00694	0.156	0.172	0.205
Immune Response	0.225	0.195	0.289	0.293	0.353
Lipid Metabolism	0.271	0.362	0.383	0.308	0.39
Metal Binding and Homeostasis	0.118	0.104	0.21	0.278	0.238
Mitochondrial Metabolism	0.428	0.417	0.484	0.451	0.493
Myelination					
Oxidative Stress					
Proteostasis	0.189	0.224	0.212	0.289	0.327
RNA Spliceosome					
Structural Stabilization	-0.00198	0.109	0.215	-0.00405	0.171
Synapse	0.302	0.355	0.344	0.341	0.408
Tau Homeostasis					
Vasculature	0.36	0.331	0.426	0.391	0.461
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Acute myeloid leukemia					
Apoptosis	0.0129	0.0943	0.161	0.104	0.133
APP Metabolism					
Autophagy	0.219	0.186	0.444	0.281	0.242
Cell Cycle	0.156	0.0812	0.217	0.254	0.163
DNA Repair	0.111	0.1	0.464	0.143	0.194
Endolysosome	0.125	0.0795	0.312	0.129	0.161
Epigenetic	0.022	0.0581	0.0657	0.0976	0.0856
Immune Response	0.0916	0.135	0.197	0.0899	0.142
Lipid Metabolism	0.0811	0.2	0.193	0.151	0.13
Metal Binding and Homeostasis	0.0179	-0.00249	0.11	0.0872	0.122
Mitochondrial Metabolism	0.308	0.393	0.312	0.319	0.257
Myelination					
Oxidative Stress					
Proteostasis	0.231	0.229	0.268	0.294	0.211
RNA Spliceosome					
Structural Stabilization	0.113	0.173	0.254	0.187	0.225
Synapse	0.134	0.315	0.336	0.169	0.224
Tau Homeostasis					
Vasculature	0.0484	0.295	0.293	0.0235	0.128
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Chronic myeloid leukemia					
Apoptosis	0.0586	0.149	0.0679	0.164	0.155
APP Metabolism					
Autophagy	0.289	0.298	0.333	0.358	0.298
Cell Cycle	0.135	0.161	0.173	0.272	0.229
DNA Repair	0.131	0.123	0.218	0.244	0.164
Endolysosome	0.249	0.246	0.345	0.266	0.266
Epigenetic	0.0427	0.0965	-0.0177	0.141	0.0681
Immune Response	0.0851	0.137	0.106	0.0929	0.151
Lipid Metabolism	0.105	0.171	0.149	0.157	0.208
Metal Binding and Homeostasis	0.0536	0.126	0.0947	0.137	0.219
Mitochondrial Metabolism	0.376	0.366	0.236	0.4	0.341
Myelination	0.423	0.438	0.241	0.573	0.353
Oxidative Stress	0.294	0.334	0.334	0.467	0.347
Proteostasis	0.227	0.228	0.22	0.315	0.272
RNA Spliceosome					
Structural Stabilization	0.0577	0.146	0.152	0.113	0.201
Synapse	0.16	0.251	0.239	0.175	0.24
Tau Homeostasis					
Vasculature	0.126	0.264	0.248	0.118	0.26
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Basal cell carcinoma					
Apoptosis	0.16	0.241	0.192	0.285	0.291
APP Metabolism					
Autophagy					
Cell Cycle	0.17	0.133	0.201	0.311	0.186
DNA Repair	0.213	0.112	0.139	0.28	0.229
Endolysosome	0.186	0.0697	−0.0686	0.257	0.219
Epigenetic	0.0693	0.0479	0.00847	0.187	0.149
Immune Response	0.167	0.148	0.0981	0.224	0.277
Lipid Metabolism	0.138	0.124	0.126	0.219	0.28
Metal Binding and Homeostasis	0.0315	0.0891	0.0387	0.187	0.114
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.234	0.17	0.143	0.296	0.294
RNA Spliceosome					
Structural Stabilization	0.0899	0.122	0.0757	0.129	0.164
Synapse	0.221	0.257	0.179	0.252	0.295
Tau Homeostasis					
Vasculature	0.221	0.187	0.0928	0.352	0.347
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Melanoma					
Apoptosis	0.155	0.336	0.25	0.231	0.321
APP Metabolism					
Autophagy					
Cell Cycle	0.148	0.21	0.239	0.261	0.321
DNA Repair	0.165	0.198	0.229	0.286	0.219
Endolysosome	0.209	0.258	0.306	0.215	0.258
Epigenetic	0.0541	0.277	0.204	0.13	0.313
Immune Response	0.22	0.318	0.317	0.233	0.432
Lipid Metabolism	0.191	0.27	0.238	0.254	0.34
Metal Binding and Homeostasis	0.114	0.229	-0.0081	0.279	0.159
Mitochondrial Metabolism	0.367	0.468	0.361	0.347	0.516
Myelination					
Oxidative Stress	0.246	0.362	0.405	0.371	0.437
Proteostasis	0.229	0.256	0.182	0.354	0.33
RNA Spliceosome					
Structural Stabilization	0.128	0.258	0.242	0.16	0.303
Synapse	0.215	0.344	0.276	0.203	0.403
Tau Homeostasis					
Vasculature	0.183	0.347	0.307	0.209	0.298
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Renal cell carcinoma					
Apoptosis	0.183	0.383	0.297	0.169	0.327
APP Metabolism					
Autophagy	0.237	0.452	0.394	0.204	0.347
Cell Cycle	0.228	0.296	0.269	0.33	0.381
DNA Repair	0.228	0.168	0.337	0.142	0.129
Endolysosome	0.25	0.371	0.32	0.219	0.328
Epigenetic	0.147	0.262	0.258	0.18	0.301
Immune Response	0.132	0.299	0.229	0.133	0.286
Lipid Metabolism	0.184	0.34	0.253	0.211	0.294
Metal Binding and Homeostasis	0.0983	0.237	0.0809	0.186	0.283
Mitochondrial Metabolism	0.24	0.446	0.312	0.195	0.355
Myelination					
Oxidative Stress	0.284	0.54	0.543	0.337	0.521
Proteostasis	0.251	0.378	0.277	0.313	0.393
RNA Spliceosome					
Structural Stabilization	0.224	0.408	0.311	0.209	0.368
Synapse	0.147	0.44	0.342	0.103	0.44
Tau Homeostasis					
Vasculature	0.0992	0.392	0.299	0.135	0.373
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Bladder cancer					
Apoptosis	0.0794	0.141	0.202	0.256	0.307
APP Metabolism					
Autophagy					
Cell Cycle	0.0977	0.113	0.186	0.326	0.277
DNA Repair	0.0668	0.0697	0.287	0.368	0.318
Endolysosome	0.223	0.185	0.221	0.303	0.271
Epigenetic	0.0251	0.15	0.21	0.261	0.287
Immune Response	0.197	0.176	0.322	0.307	0.344
Lipid Metabolism	0.19	0.237	0.358	0.319	0.357
Metal Binding and Homeostasis	0.152	0.206	0.123	0.317	0.174
Mitochondrial Metabolism	0.409	0.492	0.436	0.438	0.46
Myelination					
Oxidative Stress	0.165	0.125	0.433	0.3	0.328
Proteostasis	0.127	0.117	0.167	0.285	0.285
RNA Spliceosome					
Structural Stabilization	0.153	0.143	0.232	0.292	0.328
Synapse	0.217	0.31	0.312	0.245	0.417
Tau Homeostasis					
Vasculature	0.265	0.315	0.37	0.398	0.397
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Prostate cancer					
Apoptosis	−0.00478	0.188	0.127	0.0574	0.244
APP Metabolism					
Autophagy	0.165	0.358	0.359	0.145	0.376
Cell Cycle	0.0685	0.265	0.229	0.148	0.308
DNA Repair	0.0113	0.117	0.287	0.0634	0.21
Endolysosome	0.185	0.245	0.361	0.211	0.256
Epigenetic	−0.0214	0.108	0.0965	0.0626	0.222
Immune Response	0.062	0.202	0.167	0.0907	0.238
Lipid Metabolism	0.0781	0.222	0.168	0.13	0.267
Metal Binding and Homeostasis	−0.0378	0.0671	0.0757	0.0178	0.197
Mitochondrial Metabolism	0.19	0.357	0.272	0.148	0.352
Myelination	0.32	0.437	0.343	0.456	0.529
Oxidative Stress	0.163	0.286	0.269	0.336	0.343
Proteostasis	0.11	0.212	0.198	0.209	0.264
RNA Spliceosome					
Structural Stabilization	0.0721	0.233	0.244	0.164	0.31
Synapse	0.109	0.378	0.269	0.166	0.349
Tau Homeostasis					
Vasculature	0.094	0.295	0.303	0.141	0.308
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Endometrial cancer					
Apoptosis	0.0742	0.194	0.203	0.205	0.223
APP Metabolism					
Autophagy					
Cell Cycle	0.15	0.0994	0.232	0.321	0.243
DNA Repair	0.118	0.0274	0.214	0.248	0.154
Endolysosome	0.265	0.237	0.318	0.288	0.268
Epigenetic	0.0364	0.126	0.168	0.152	0.222
Immune Response	0.215	0.278	0.298	0.277	0.29
Lipid Metabolism	0.191	0.322	0.311	0.207	0.329
Metal Binding and Homeostasis	0.104	0.128	0.0425	0.32	0.209
Mitochondrial Metabolism	0.309	0.489	0.35	0.286	0.394
Myelination	0.36	0.432	0.34	0.569	0.507
Oxidative Stress	0.397	0.502	0.521	0.535	0.401
Proteostasis	0.252	0.24	0.279	0.362	0.285
RNA Spliceosome					
Structural Stabilization	0.0941	0.204	0.267	0.156	0.234
Synapse	0.135	0.332	0.321	0.157	0.33
Tau Homeostasis					
Vasculature	0.156	0.354	0.315	0.135	0.354
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Breast cancer					
Apoptosis	0.0702	0.216	0.237	0.2	0.255
APP Metabolism					
Autophagy					
Cell Cycle	0.138	0.215	0.288	0.206	0.319
DNA Repair	0.107	0.125	0.31	0.225	0.211
Endolysosome	0.186	0.13	0.145	0.234	0.245
Epigenetic	0.0538	0.152	0.218	0.163	0.239
Immune Response	0.197	0.239	0.256	0.231	0.316
Lipid Metabolism	0.109	0.22	0.25	0.165	0.281
Metal Binding and Homeostasis	0.0637	0.173	0.22	0.181	0.196
Mitochondrial Metabolism	0.288	0.401	0.338	0.238	0.407
Myelination	0.286	0.3	0.313	0.459	0.386
Oxidative Stress	0.376	0.531	0.543	0.46	0.44
Proteostasis	0.226	0.234	0.252	0.315	0.307
RNA Spliceosome					
Structural Stabilization	0.111	0.163	0.186	0.18	0.244
Synapse	0.161	0.253	0.221	0.18	0.309
Tau Homeostasis					
Vasculature	0.135	0.26	0.273	0.205	0.306
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Small cell lung cancer					
Apoptosis	−0.034	0.132	0.0546	0.068	0.132
APP Metabolism					
Autophagy	0.0208	0.318	0.271	0.155	0.266
Cell Cycle	0.0514	0.224	0.159	0.206	0.16
DNA Repair	−0.0155	0.111	0.121	0.171	0.157
Endolysosome					
Epigenetic	−0.0536	0.0474	−0.0122	0.0687	0.0351
Immune Response	0.00162	0.0961	0.0682	0.113	0.126
Lipid Metabolism	−0.00531	0.142	0.0794	0.151	0.0928
Metal Binding and Homeostasis	−0.0498	0.0278	0.126	0.127	0.118
Mitochondrial Metabolism	0.117	0.097	0.0214	0.31	0.278
Myelination					
Oxidative Stress	0.115	0.259	0.208	0.445	0.267
Proteostasis	0.0527	0.075	0.0816	0.188	0.156
RNA Spliceosome					
Structural Stabilization	−0.0548	−0.0202	0.0548	0.133	0.0958
Synapse	0.0954	0.102	0.134	0.29	0.242
Tau Homeostasis					
Vasculature	0.0333	0.148	0.24	0.154	0.25
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Non-small cell lung cancer					
Apoptosis	0.0797	0.224	0.24	0.16	0.242
APP Metabolism					
Autophagy	0.247	0.36	0.321	0.303	0.324
Cell Cycle	0.117	0.15	0.194	0.223	0.233
DNA Repair	0.223	0.171	0.218	0.32	0.193
Endolysosome	0.232	0.28	0.356	0.357	0.364
Epigenetic	0.061	0.184	0.217	0.143	0.212
Immune Response	0.149	0.266	0.253	0.175	0.262
Lipid Metabolism	0.176	0.214	0.262	0.288	0.302
Metal Binding and Homeostasis	0.102	0.103	0.154	0.201	0.147
Mitochondrial Metabolism	0.221	0.302	0.29	0.25	0.341
Myelination					
Oxidative Stress	0.307	0.399	0.417	0.405	0.376
Proteostasis	0.289	0.296	0.281	0.347	0.325
RNA Spliceosome					
Structural Stabilization	0.0794	0.199	0.207	0.0951	0.238
Synapse	0.129	0.239	0.274	0.132	0.377
Tau Homeostasis					
Vasculature	0.104	0.285	0.334	0.0399	0.269
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Human T-cell leukemia virus 1 infection					
Apoptosis	0.0191	0.0993	0.0719	0.0857	0.13
APP Metabolism					
Autophagy	0.000748	0.0897	0.0408	0.101	0.00795
Cell Cycle	0.0622	0.113	0.0843	0.0951	0.0831
DNA Repair	-0.0602	-0.0235	0.0573	-0.0379	0.0527
Endolysosome	0.0196	0.0772	0.192	0.0433	0.2
Epigenetic	0.0663	0.146	0.173	0.111	0.159
Immune Response	0.0477	0.138	0.109	0.089	0.131
Lipid Metabolism	0.036	0.169	0.113	0.0934	0.113
Metal Binding and Homeostasis	0.0157	0.189	0.208	0.0172	0.173
Mitochondrial Metabolism	0.136	0.19	0.124	0.144	0.152
Myelination	0.427	0.501	0.374	0.57	0.421
Oxidative Stress	0.214	0.508	0.376	0.276	0.305
Proteostasis	0.0798	0.124	0.109	0.122	0.109
RNA Spliceosome					
Structural Stabilization	0.0499	0.0784	0.111	0.0947	0.138
Synapse	0.0774	0.171	0.18	0.076	0.156
Tau Homeostasis					
Vasculature	0.0913	0.151	0.205	0.0787	0.191
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Human immunodeficiency virus 1 infection					
Apoptosis	−0.00539	0.116	0.079	−0.00679	0.0924
APP Metabolism					
Autophagy	−0.0149	0.122	0.0566	−0.0214	0.125
Cell Cycle	0.0791	0.266	0.215	0.0472	0.18
DNA Repair	0.0165	0.134	0.147	0.0204	0.0587
Endolysosome	0.0587	0.0855	0.0917	0.112	0.137
Epigenetic	−0.0212	0.181	0.0884	0.0131	0.118
Immune Response	0.00854	0.0722	0.0232	0.031	0.0755
Lipid Metabolism	−0.0449	0.0761	0.00438	0.00303	0.0303
Metal Binding and Homeostasis	0.126	0.235	0.127	0.111	0.203
Mitochondrial Metabolism	0.0836	0.163	0.0926	0.121	0.142
Myelination	0.353	0.423	0.377	0.353	0.514
Oxidative Stress	0.204	0.491	0.317	0.312	0.337
Proteostasis	0.0995	0.19	0.134	0.119	0.15
RNA Spliceosome					
Structural Stabilization	0.0648	0.161	0.109	0.0311	0.182
Synapse	0.118	0.277	0.22	0.0907	0.23
Tau Homeostasis					
Vasculature	0.125	0.22	0.215	0.126	0.155
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hepatitis B					
Apoptosis	−0.0113	0.12	0.102	0.0601	0.166
APP Metabolism					
Autophagy	0.114	0.249	0.253	0.161	0.258
Cell Cycle	0.0496	0.201	0.223	0.0847	0.169
DNA Repair	−0.00857	−0.0307	0.0992	0.0655	0.00245
Endolysosome	0.12	0.164	0.188	0.186	0.273
Epigenetic	−0.00602	0.145	0.145	0.0643	0.135
Immune Response	0.00613	0.136	0.117	0.0654	0.132
Lipid Metabolism	0.00204	0.174	0.0998	0.0886	0.175
Metal Binding and Homeostasis	0.0145	0.233	0.278	0.0185	0.246
Mitochondrial Metabolism	0.106	0.181	0.141	0.182	0.176
Myelination	0.341	0.502	0.381	0.458	0.53
Oxidative Stress	0.217	0.503	0.458	0.292	0.367
Proteostasis	0.138	0.203	0.223	0.174	0.238
RNA Spliceosome					
Structural Stabilization	0.0422	0.188	0.185	0.0704	0.205
Synapse	0.089	0.31	0.289	0.0674	0.283
Tau Homeostasis					
Vasculature	0.0629	0.206	0.25	0.0838	0.19
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hepatitis C					
Apoptosis	−0.0437	0.127	0.0825	0.0654	0.0987
APP Metabolism					
Autophagy	0.145	0.285	0.384	0.198	0.175
Cell Cycle	0.0946	0.193	0.259	0.241	0.236
DNA Repair	0.098	0.0596	0.217	0.272	0.161
Endolysosome	0.0446	0.118	0.232	0.129	0.125
Epigenetic	−0.0724	0.0328	0.0407	0.0271	0.0318
Immune Response	−0.0208	0.072	0.0584	0.051	0.0198
Lipid Metabolism	0.0964	0.203	0.145	0.18	0.112
Metal Binding and Homeostasis	−0.0226	0.0781	0.145	0.0719	0.0594
Mitochondrial Metabolism	0.167	0.208	0.178	0.249	0.178
Myelination	0.433	0.583	0.425	0.58	0.491
Oxidative Stress	0.0586	0.256	0.265	0.273	0.174
Proteostasis	0.0648	0.17	0.149	0.136	0.148
RNA Spliceosome					
Structural Stabilization	0.0133	0.233	0.17	0.068	0.121
Synapse	0.089	0.326	0.295	0.159	0.196
Tau Homeostasis					
Vasculature	0.0799	0.348	0.378	0.129	0.199
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Coronavirus disease – COVID–19					
Apoptosis	−0.103	−0.0425	−0.0317	−0.0431	0.0053
APP Metabolism					
Autophagy	−0.0246	0.0951	0.099	−0.0454	0.17
Cell Cycle	−0.0967	−0.0405	−0.00897	−0.0359	−0.0829
DNA Repair	−0.0483	0.0362	0.0465	−0.0466	−0.0333
Endolysosome	−0.11	0.0264	0.0158	−0.0775	0.137
Epigenetic	−0.0676	0.1	0.092	−0.0399	0.0497
Immune Response	−0.0811	−0.124	−0.0852	−0.0157	−0.0319
Lipid Metabolism	−0.0779	0.00528	0.0229	0.0149	0.0389
Metal Binding and Homeostasis	−0.168	−0.0884	0.0494	−0.177	−0.0366
Mitochondrial Metabolism	−0.125	−0.0967	0.0201	−0.0997	−0.0547
Myelination					
Oxidative Stress	0.117	0.431	0.371	0.13	0.339
Proteostasis	−0.0952	−0.397	−0.436	0.0411	−0.25
RNA Spliceosome					
Structural Stabilization	−0.134	−0.484	−0.509	0.0215	−0.296
Synapse	−0.111	−0.406	−0.379	0.0268	−0.215
Tau Homeostasis					
Vasculature	−0.0987	−0.028	0.0805	−0.0808	0.0315
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Influenza A					
Apoptosis	−0.00633	0.0795	0.046	0.0296	0.0705
APP Metabolism					
Autophagy	0.116	0.305	0.22	0.162	0.109
Cell Cycle	0.164	0.231	0.341	0.135	0.232
DNA Repair	0.0976	0.00512	0.161	0.0674	0.114
Endolysosome	0.0567	0.202	0.216	0.0745	0.287
Epigenetic	−0.075	0.0102	0.0833	−0.124	0.0147
Immune Response	0.0355	0.0822	0.122	0.0574	0.0933
Lipid Metabolism	0.0523	0.0893	0.0454	0.0976	0.0422
Metal Binding and Homeostasis	0.0152	0.0704	0.265	−0.146	0.179
Mitochondrial Metabolism	0.152	0.138	0.125	0.168	0.122
Myelination					
Oxidative Stress	0.144	0.37	0.368	0.118	0.27
Proteostasis	0.141	0.24	0.211	0.116	0.22
RNA Spliceosome					
Structural Stabilization	0.106	0.199	0.205	0.071	0.161
Synapse	0.217	0.364	0.324	0.199	0.249
Tau Homeostasis					
Vasculature	0.184	0.349	0.381	0.101	0.211
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Measles					
Apoptosis	−0.00788	0.106	0.0545	0.125	0.12
APP Metabolism					
Autophagy	−0.0439	0.17	0.103	0.0844	0.165
Cell Cycle	0.0743	0.1	0.0943	0.258	0.1
DNA Repair	0.06	0.0167	0.0585	0.246	0.0758
Endolysosome	−0.0481	0.0374	0.0808	0.0532	0.139
Epigenetic	−0.0524	0.0874	0.066	0.0677	0.0445
Immune Response	−0.0184	0.0345	0.00437	0.104	0.0609
Lipid Metabolism	0.0401	0.13	0.0872	0.202	0.159
Metal Binding and Homeostasis	−0.0973	−0.0163	0.1	−0.0496	0.0551
Mitochondrial Metabolism	0.104	0.15	0.0835	0.236	0.184
Myelination					
Oxidative Stress	0.211	0.547	0.417	0.363	0.355
Proteostasis	0.0124	0.125	0.0766	0.142	0.126
RNA Spliceosome					
Structural Stabilization	−0.0423	0.0646	−0.0024	0.109	0.0756
Synapse	0.0106	0.147	0.0966	0.192	0.136
Tau Homeostasis					
Vasculature	0.0585	0.251	0.142	0.0916	0.0515
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Herpes simplex virus 1 infection					
Apoptosis	−0.0332	0.0115	−0.0345	0.084	0.0662
APP Metabolism					
Autophagy	0.00769	0.0396	0.0287	0.0783	0.0868
Cell Cycle	0.0806	0.074	0.0695	0.224	0.117
DNA Repair	0.112	0.0549	0.109	0.299	0.139
Endolysosome	−0.019	−0.0276	0.0247	0.0251	0.139
Epigenetic	0.0152	0.163	0.0749	−0.0156	0.0888
Immune Response	−0.016	−0.0123	−0.0286	0.0444	0.0289
Lipid Metabolism	0.00848	0.0217	−0.00433	0.0726	0.0419
Metal Binding and Homeostasis	0.0168	0.139	0.107	−0.057	0.0339
Mitochondrial Metabolism	0.157	0.088	0.0771	0.296	0.154
Myelination	0.0981	0.203	−0.0398	0.309	0.079
Oxidative Stress	0.189	0.33	0.293	0.356	0.368
Proteostasis	0.0208	−0.00282	−0.00418	0.0839	0.0483
RNA Spliceosome	−0.0411	0.0643	−0.221	−0.00555	0.0853
Structural Stabilization	−0.0666	0.0317	−0.0222	0.0141	0.0629
Synapse	0.0989	0.0858	0.131	0.166	0.125
Tau Homeostasis					
Vasculature	0.112	0.214	0.203	0.15	0.16
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Human cytomegalovirus infection					
Apoptosis	−0.0366	0.0807	0.105	0.0582	0.138
APP Metabolism	−0.192	0.173	0.183	−0.105	−0.0465
Autophagy	0.0257	0.128	0.15	0.0568	0.0992
Cell Cycle	0.0927	0.22	0.262	0.14	0.241
DNA Repair	0.0418	0.0658	0.199	0.166	0.0922
Endolysosome	0.133	0.224	0.264	0.164	0.232
Epigenetic	0.015	0.124	0.136	0.101	0.159
Immune Response	0.0103	0.12	0.0975	0.0539	0.0948
Lipid Metabolism	−0.079	0.125	0.0927	−0.0332	0.0954
Metal Binding and Homeostasis	0.0903	0.262	0.253	0.0818	0.183
Mitochondrial Metabolism	0.0844	0.195	0.154	0.141	0.122
Myelination	0.39	0.484	0.404	0.383	0.367
Oxidative Stress	0.183	0.383	0.33	0.356	0.302
Proteostasis	0.122	0.162	0.173	0.178	0.172
RNA Spliceosome					
Structural Stabilization	0.0542	0.192	0.212	0.0701	0.215
Synapse	0.0767	0.21	0.209	0.102	0.165
Tau Homeostasis					
Vasculature	0.0798	0.232	0.294	0.111	0.236
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Kaposi sarcoma–associated herpesvirus infection					
Apoptosis	−0.028	0.0829	0.0637	0.0373	0.103
APP Metabolism					
Autophagy	−0.00609	0.223	0.208	−0.004	0.0848
Cell Cycle	0.11	0.212	0.248	0.186	0.289
DNA Repair	−0.0181	−0.0372	0.104	0.141	0.0342
Endolysosome	0.112	0.243	0.248	0.122	0.212
Epigenetic	0.00153	0.163	0.117	0.0466	0.175
Immune Response	0.00833	0.0966	0.0822	0.0598	0.127
Lipid Metabolism	0.0192	0.127	0.0893	0.088	0.157
Metal Binding and Homeostasis	0.103	0.263	0.225	0.176	0.235
Mitochondrial Metabolism	0.0525	0.13	0.0569	0.13	0.0635
Myelination	0.355	0.553	0.415	0.357	0.415
Oxidative Stress	0.212	0.464	0.388	0.312	0.389
Proteostasis	0.107	0.218	0.195	0.19	0.169
RNA Spliceosome					
Structural Stabilization	0.0375	0.135	0.123	0.0844	0.256
Synapse	0.0822	0.262	0.214	0.087	0.211
Tau Homeostasis					
Vasculature	0.0833	0.286	0.272	0.0952	0.304
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Epstein–Barr virus infection					
Apoptosis	−0.0419	0.102	0.0203	0.0784	0.0622
APP Metabolism	−0.0874	0.0975	0.0953	0.202	−0.135
Autophagy	−0.0317	0.194	0.0858	0.0307	0.169
Cell Cycle	0.0657	0.207	0.136	0.184	0.137
DNA Repair	−0.0952	−0.0227	−0.0652	0.0788	−0.0668
Endolysosome	−0.0698	0.0784	0.034	−0.0152	0.11
Epigenetic	−0.0554	0.0359	−0.0506	0.0547	−0.0134
Immune Response	−0.0466	0.0556	−0.00198	0.033	0.0287
Lipid Metabolism	−0.04	0.081	0.00119	0.0545	0.033
Metal Binding and Homeostasis	−0.0779	0.00385	−0.00891	0.00114	0.0038
Mitochondrial Metabolism	−0.0489	0.0971	−0.0172	0.135	0.051
Myelination	0.144	0.222	0.038	0.537	0.28
Oxidative Stress	0.0824	0.342	0.233	0.19	0.198
Proteostasis	−0.0135	0.0704	−0.0542	0.0891	−0.0462
RNA Spliceosome					
Structural Stabilization	−0.0934	0.00643	−0.0552	0.0186	0.0241
Synapse	0.0169	0.216	0.0823	0.106	0.0865
Tau Homeostasis					
Vasculature	0.036	0.208	0.163	0.074	0.0923
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Human papillomavirus infection					
Apoptosis	0.00789	0.159	0.159	0.106	0.164
APP Metabolism	−0.0752	0.236	0.157	0.00873	−0.0797
Autophagy	0.0689	0.205	0.228	0.0844	0.072
Cell Cycle	0.141	0.209	0.226	0.204	0.156
DNA Repair	0.0641	0.122	0.299	0.0889	0.172
Endolysosome	0.158	0.2	0.204	0.195	0.143
Epigenetic	0.00668	0.0638	0.104	0.0985	0.105
Immune Response	0.0323	0.0979	0.0975	0.109	0.109
Lipid Metabolism	−0.0145	0.0906	0.122	0.0529	0.114
Metal Binding and Homeostasis	−0.0319	0.0479	0.0843	0.0699	0.033
Mitochondrial Metabolism	0.125	0.174	0.163	0.175	0.0714
Myelination	0.102	0.132	0.123	0.244	0.167
Oxidative Stress	0.0767	0.25	0.271	0.237	0.143
Proteostasis	0.122	0.12	0.171	0.18	0.207
RNA Spliceosome					
Structural Stabilization	0.0497	0.0695	0.111	0.138	0.112
Synapse	0.111	0.203	0.212	0.128	0.159
Tau Homeostasis					
Vasculature	0.00723	0.117	0.184	0.115	0.171
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Salmonella infection					
Apoptosis	0.037	0.146	0.0891	0.0463	0.144
APP Metabolism					
Autophagy	−0.00176	0.218	0.184	−0.0285	0.158
Cell Cycle	0.137	0.312	0.293	0.187	0.186
DNA Repair	−0.00346	0.134	0.162	−0.00977	0.136
Endolysosome	0.0775	0.199	0.158	0.0698	0.149
Epigenetic	0.0173	0.136	0.0686	0.0278	0.129
Immune Response	0.1	0.193	0.11	0.108	0.175
Lipid Metabolism	0.0327	0.163	0.0845	0.0845	0.164
Metal Binding and Homeostasis	0.0612	0.132	0.0993	0.143	0.114
Mitochondrial Metabolism	0.113	0.285	0.106	0.176	0.24
Myelination	0.239	0.223	0.218	0.32	0.37
Oxidative Stress	0.222	0.534	0.367	0.268	0.349
Proteostasis	0.12	0.281	0.214	0.155	0.222
RNA Spliceosome					
Structural Stabilization	0.0687	0.105	0.0739	0.0991	0.0755
Synapse	0.126	0.252	0.225	0.115	0.202
Tau Homeostasis					
Vasculature	0.0935	0.198	0.108	0.073	0.155
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Yersinia infection					
Apoptosis	−0.0495	0.108	0.0663	−0.0616	0.0243
APP Metabolism					
Autophagy	0.109	0.256	0.206	0.0635	0.224
Cell Cycle	0.031	0.33	0.247	−0.0309	0.203
DNA Repair	−0.0589	0.0528	0.0147	−0.0683	0.0455
Endolysosome	0.0918	0.144	0.117	0.0952	0.179
Epigenetic	0.037	0.235	0.136	0.0253	0.0655
Immune Response	0.0338	0.125	0.1	0.0361	0.0767
Lipid Metabolism	−0.00858	0.138	0.0727	0.0484	0.0559
Metal Binding and Homeostasis	−0.0752	0.0122	−0.0335	−0.0848	0.0369
Mitochondrial Metabolism	0.104	0.168	0.164	0.111	0.183
Myelination					
Oxidative Stress	0.263	0.594	0.432	0.28	0.399
Proteostasis	0.14	0.285	0.241	0.142	0.257
RNA Spliceosome					
Structural Stabilization	0.0117	0.0709	0.0616	−0.00832	0.0755
Synapse	0.0824	0.181	0.173	0.0481	0.174
Tau Homeostasis					
Vasculature	0.0451	0.103	0.135	0.0191	0.034
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Pertussis					
Apoptosis	0.106	0.144	0.123	0.183	0.114
APP Metabolism					
Autophagy	−0.0405	0.0537	0.156	−0.00574	0.143
Cell Cycle	0.196	0.383	0.405	0.146	0.21
DNA Repair					
Endolysosome	0.0239	0.102	0.122	0.0389	0.149
Epigenetic	0.0978	0.266	0.228	0.108	0.0855
Immune Response	0.0655	0.0517	0.0794	0.103	0.114
Lipid Metabolism	0.0367	0.0489	0.0799	0.119	0.0967
Metal Binding and Homeostasis	0.0309	0.188	0.252	0.0255	0.229
Mitochondrial Metabolism	−0.0927	0.0764	0.0312	−0.0774	0.00618
Myelination					
Oxidative Stress	0.185	0.432	0.546	0.224	0.358
Proteostasis	0.178	0.286	0.243	0.186	0.171
RNA Spliceosome					
Structural Stabilization	0.0955	0.139	0.212	0.123	0.268
Synapse	0.15	0.19	0.261	0.129	0.261
Tau Homeostasis					
Vasculature	0.116	0.14	0.2	0.0969	0.156
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Legionellosis					
Apoptosis	−0.0226	0.101	0.0396	0.0679	0.07
APP Metabolism					
Autophagy	0.0251	0.243	0.215	0.0643	0.0888
Cell Cycle					
DNA Repair					
Endolysosome	−0.111	0.115	0.011	−0.085	0.04
Epigenetic	−0.0486	−0.0615	−0.183	0.012	−0.0594
Immune Response	−0.0433	0.133	−0.0229	0.0526	0.0525
Lipid Metabolism	−0.0579	0.0645	−0.0272	0.0528	0.0374
Metal Binding and Homeostasis					
Mitochondrial Metabolism	−0.0213	0.247	−0.0147	−0.0499	0.0488
Myelination					
Oxidative Stress					
Proteostasis	0.0592	0.215	0.0507	0.148	0.0846
RNA Spliceosome					
Structural Stabilization	−0.147	−0.136	−0.179	0.000644	−0.0142
Synapse	0.0822	0.299	0.318	0.126	0.124
Tau Homeostasis					
Vasculature	−0.0104	0.00371	−0.0209	0.044	−0.132
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Staphylococcus aureus infection

Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0222	−0.0549	0.252	−0.0775	0.22
Epigenetic					
Immune Response	0.0745	−0.0722	0.127	0.0635	0.176
Lipid Metabolism	0.0107	−0.178	0.0583	−0.0354	0.161
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.115	0.00337	0.04	0.0238	−0.00674
RNA Spliceosome					
Structural Stabilization	0.0504	−0.115	−0.0119	−0.0236	0.126
Synapse	0.196	−0.134	0.128	0.241	0.379
Tau Homeostasis					
Vasculature	0.171	−0.0654	0.113	0.0305	0.218
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Tuberculosis					
Apoptosis	0.0992	0.089	0.1	0.15	0.195
APP Metabolism	0.0104	0.162	0.358	0.149	0.298
Autophagy	0.225	0.233	0.348	0.254	0.373
Cell Cycle	0.164	0.255	0.274	0.162	0.297
DNA Repair	0.0771	0.122	0.0932	0.0934	0.113
Endolysosome	0.201	0.222	0.273	0.205	0.329
Epigenetic	0.0936	0.185	0.152	0.0657	0.225
Immune Response	0.0879	0.108	0.156	0.0981	0.208
Lipid Metabolism	0.102	0.0942	0.148	0.123	0.203
Metal Binding and Homeostasis	0.0149	0.0993	0.212	-0.0284	0.203
Mitochondrial Metabolism	0.148	0.206	0.173	0.189	0.24
Myelination	0.328	0.533	0.389	0.352	0.586
Oxidative Stress	0.151	0.285	0.331	0.171	0.363
Proteostasis	0.152	0.199	0.211	0.175	0.221
RNA Spliceosome					
Structural Stabilization	0.135	0.144	0.209	0.139	0.244
Synapse	0.225	0.381	0.382	0.165	0.344
Tau Homeostasis					
Vasculature	0.139	0.228	0.227	0.119	0.232
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Bacterial invasion of epithelial cells					
Apoptosis	−0.0363	0.0641	0.101	0.0164	0.0585
APP Metabolism					
Autophagy	0.0354	0.206	0.232	0.0599	0.154
Cell Cycle	0.0894	0.295	0.282	0.0324	0.389
DNA Repair					
Endolysosome	0.019	0.254	0.235	−0.0186	0.265
Epigenetic	0.232	0.471	0.399	0.153	0.475
Immune Response	0.0697	0.225	0.203	0.0856	0.23
Lipid Metabolism	−0.0443	0.254	0.201	−0.0575	0.25
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.14	0.272	0.249	0.177	0.387
RNA Spliceosome					
Structural Stabilization	−2.29e−05	0.12	0.109	−0.0163	0.101
Synapse	0.00309	0.118	0.138	−0.0386	0.135
Tau Homeostasis					
Vasculature	0.0296	0.221	0.131	0.0232	0.185
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Amoebiasis					
Apoptosis	-0.0774	0.0458	0.0778	-0.0274	0.0575
APP Metabolism					
Autophagy	0.0592	0.211	0.272	0.0747	0.111
Cell Cycle					
DNA Repair					
Endolysosome	0.237	0.349	0.348	0.245	0.333
Epigenetic	0.0945	0.21	0.176	0.129	0.111
Immune Response	-0.00111	0.0769	0.0828	0.0425	0.0778
Lipid Metabolism	-0.0406	0.128	0.15	-0.0269	0.0943
Metal Binding and Homeostasis	-0.0875	-0.0273	0.108	-0.0369	0.0516
Mitochondrial Metabolism	-0.0297	0.112	0.0902	-0.0568	-0.0792
Myelination					
Oxidative Stress	-0.171	-0.102	-0.0131	0.1	0.0382
Proteostasis	0.0206	0.0778	0.158	0.175	0.0963
RNA Spliceosome					
Structural Stabilization	-0.0661	-0.107	0.05	0.0636	0.0676
Synapse	0.0573	0.0591	0.181	0.134	0.141
Tau Homeostasis					
Vasculature	-0.0923	-0.0994	0.0376	0.0416	0.0803
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

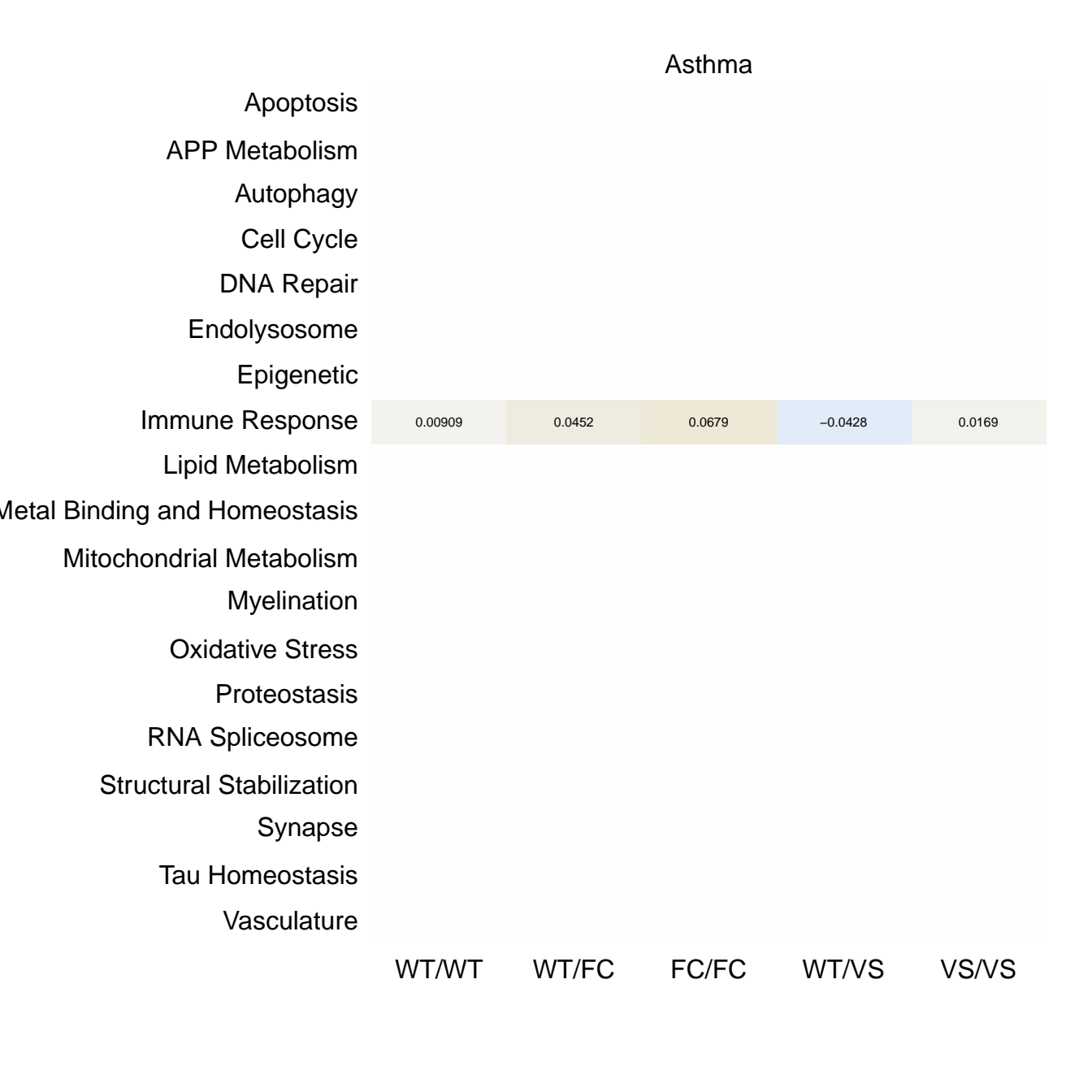
Malaria					
Apoptosis	0.0215	0.0722	0.0974	0.0517	0.187
APP Metabolism					
Autophagy	0.0257	0.114	0.269	0.0547	0.339
Cell Cycle					
DNA Repair					
Endolysosome	-0.0656	-0.0311	0.0692	0.00256	0.055
Epigenetic	0.0712	0.137	0.0756	0.0779	0.208
Immune Response	-0.0516	-0.0215	0.0782	0.00503	0.135
Lipid Metabolism	-0.0711	-0.0706	0.0583	-0.0502	0.0805
Metal Binding and Homeostasis	-0.117	-0.0922	0.235	-0.135	0.121
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	-0.0359	0.0427	0.102	-0.0578	0.258
RNA Spliceosome					
Structural Stabilization	-0.0631	-0.11	0.0717	-0.0443	0.0846
Synapse	0.0436	0.144	0.299	0.00446	0.325
Tau Homeostasis					
Vasculature	-0.0283	-0.0527	0.0968	-0.0375	0.0644
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Toxoplasmosis					
Apoptosis	0.0112	0.202	0.088	0.0547	0.152
APP Metabolism					
Autophagy	0.0674	0.234	0.251	0.123	0.267
Cell Cycle	0.0153	0.261	0.208	0.072	0.187
DNA Repair	0.0247	0.209	0.191	0.0151	0.16
Endolysosome	0.0625	0.245	0.188	0.00412	0.212
Epigenetic	−0.0509	0.225	0.0852	−0.0553	0.184
Immune Response	−0.0229	0.104	0.0715	0.00978	0.141
Lipid Metabolism	0.0136	0.143	0.0592	0.0279	0.147
Metal Binding and Homeostasis	−0.105	0.242	0.165	−0.0882	0.22
Mitochondrial Metabolism	0.13	0.226	0.215	0.153	0.198
Myelination	0.108	0.278	0.127	0.34	0.432
Oxidative Stress	0.113	0.385	0.345	0.191	0.294
Proteostasis	0.081	0.212	0.212	0.0749	0.176
RNA Spliceosome					
Structural Stabilization	−0.0628	0.063	0.0342	0.0145	0.183
Synapse	0.0378	0.229	0.249	0.0658	0.223
Tau Homeostasis					
Vasculature	−0.0534	0.108	0.0743	0.00576	0.0822
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Leishmaniasis					
Apoptosis	0.00361	0.12	0.0715	0.0157	0.0624
APP Metabolism	-0.122	0.0149	0.211	-0.0252	0.117
Autophagy	-0.0284	-0.0753	0.0267	-0.022	0.116
Cell Cycle	0.0529	0.157	0.184	0.0329	0.0751
DNA Repair					
Endolysosome	0.00724	0.0647	0.118	-0.0356	0.0783
Epigenetic	-0.0107	0.193	0.131	-0.00259	0.0616
Immune Response	-0.0204	0.0214	0.0624	-0.0173	0.094
Lipid Metabolism	-0.0323	0.0684	0.137	-0.0513	0.0678
Metal Binding and Homeostasis	-0.16	0.0671	0.148	-0.177	0.115
Mitochondrial Metabolism	0.0819	-0.085	-0.113	0.00943	0.0407
Myelination					
Oxidative Stress	0.104	0.175	0.33	0.0874	0.272
Proteostasis	0.159	0.342	0.365	0.103	0.216
RNA Spliceosome					
Structural Stabilization	-0.0818	0.0614	0.131	-0.103	0.107
Synapse	-0.0274	0.146	0.224	-0.0987	0.154
Tau Homeostasis					
Vasculature	0.000274	0.143	0.159	0.0131	0.0463
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Chagas disease					
Apoptosis	0.00409	0.184	0.102	0.0836	0.171
APP Metabolism					
Autophagy	0.187	0.351	0.333	0.192	0.312
Cell Cycle	0.248	0.5	0.407	0.221	0.331
DNA Repair					
Endolysosome	0.1	0.169	0.176	0.162	0.215
Epigenetic	0.0764	0.31	0.223	0.109	0.215
Immune Response	0.0205	0.133	0.11	0.086	0.165
Lipid Metabolism	0.0105	0.209	0.123	0.0862	0.141
Metal Binding and Homeostasis	-0.0131	0.23	0.178	0.0806	0.188
Mitochondrial Metabolism	0.0338	0.296	0.195	0.0635	0.09
Myelination					
Oxidative Stress	0.204	0.525	0.454	0.284	0.362
Proteostasis	0.12	0.24	0.213	0.157	0.206
RNA Spliceosome					
Structural Stabilization	0.0807	0.222	0.181	0.203	0.284
Synapse	0.147	0.303	0.295	0.202	0.276
Tau Homeostasis					
Vasculature	0.114	0.228	0.187	0.234	0.194
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

African trypanosomiasis					
Apoptosis	−0.0655	−0.155	−0.0716	−0.068	0.0109
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0741	−0.112	0.0297	0.0751	0.11
Epigenetic					
Immune Response	−0.0736	−0.0927	0.0132	−0.0904	0.0284
Lipid Metabolism	−0.152	−0.14	−0.0732	−0.0694	−0.0531
Metal Binding and Homeostasis	−0.0278	−0.0497	0.189	−0.215	0.00334
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0897	−0.00297	0.191	0.14	0.19
RNA Spliceosome					
Structural Stabilization	−0.0986	−0.0949	0.0777	−0.0725	−0.0488
Synapse	−0.0742	−0.0162	0.13	−0.0243	0.0205
Tau Homeostasis					
Vasculature	−0.132	−0.097	0.105	−0.0606	−0.0309
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

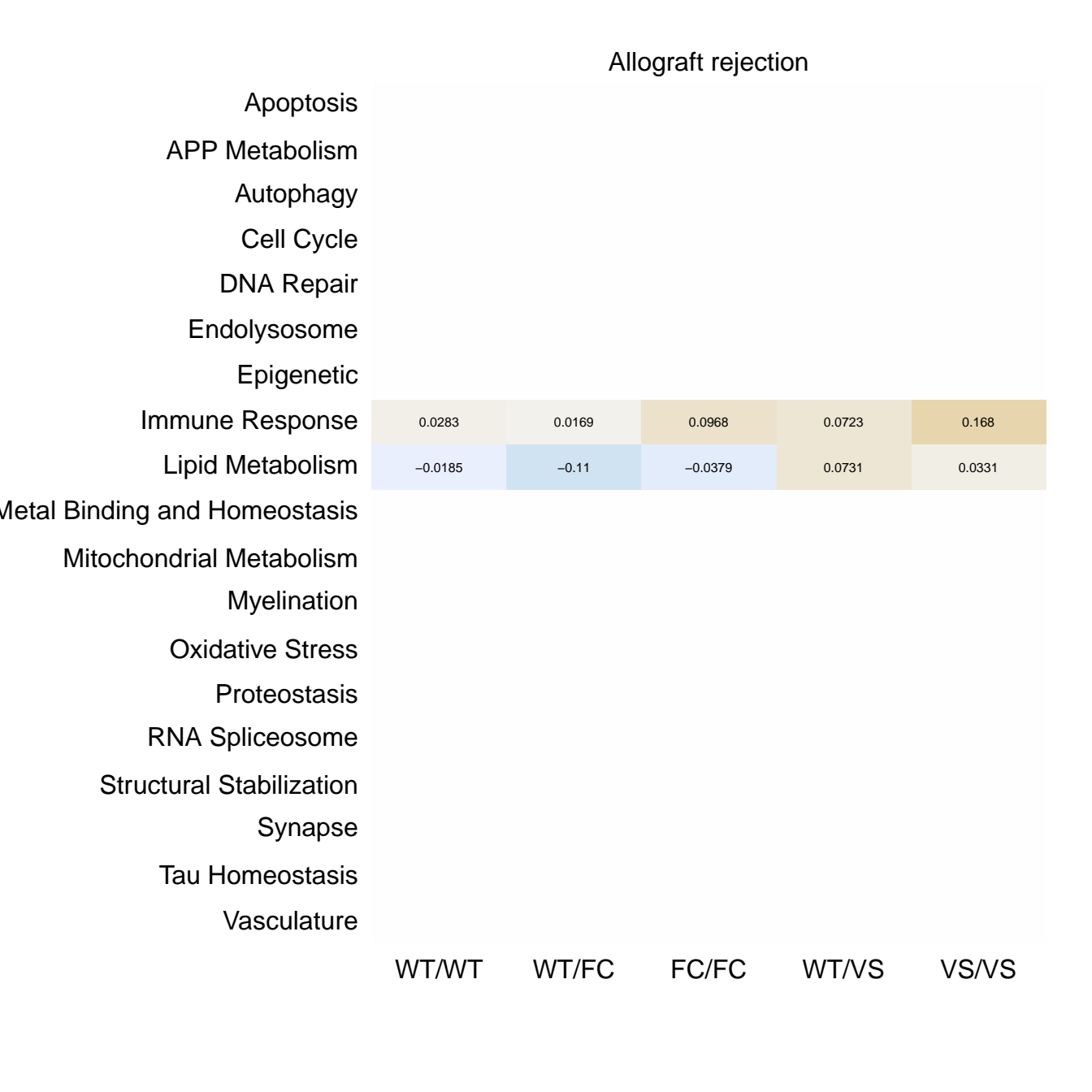


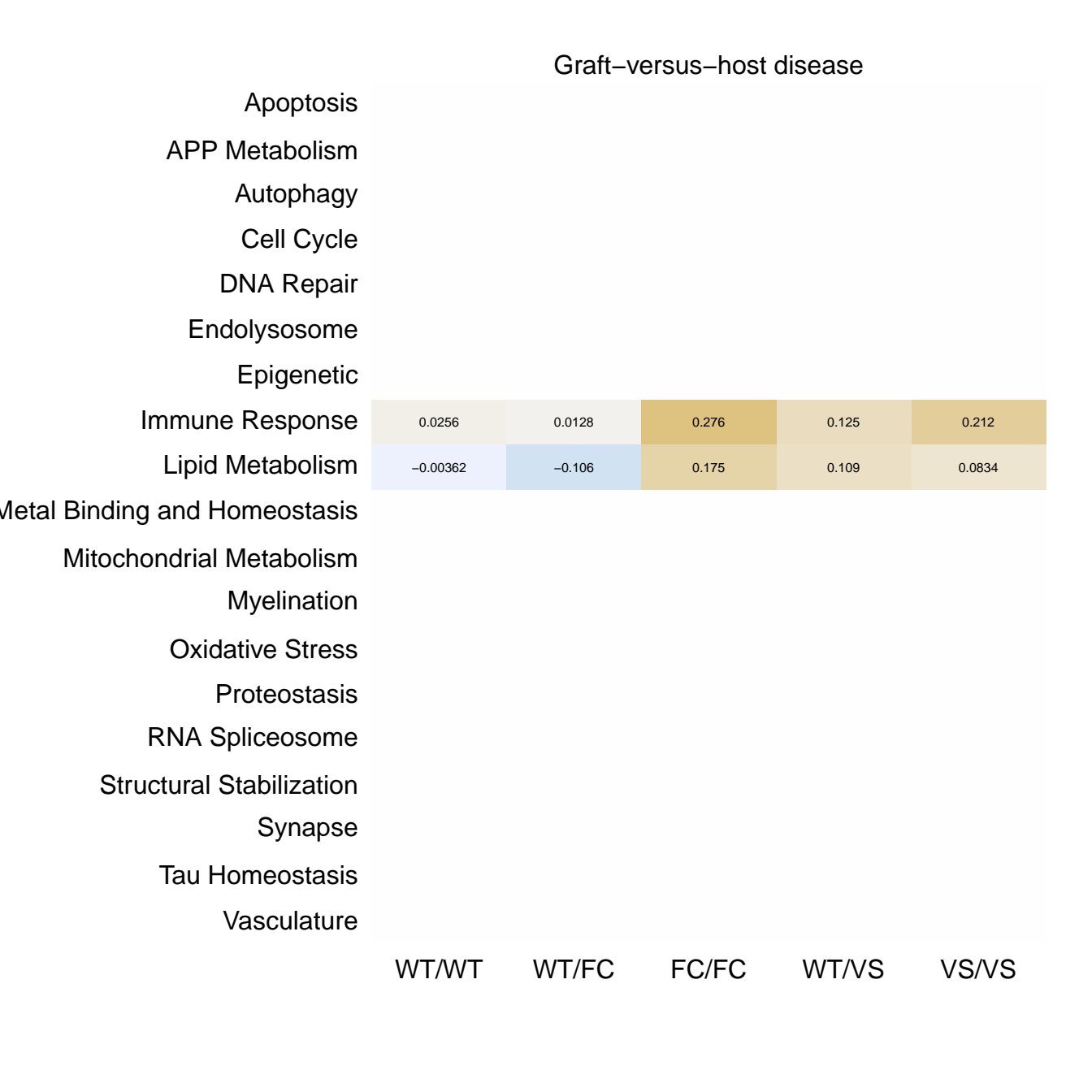
Systemic lupus erythematosus					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.267	0.281	0.21	0.302	0.275
Immune Response	0.143	0.0367	0.119	0.0451	0.218
Lipid Metabolism	0.0355	-0.212	0.00144	-0.031	0.0269
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0243	0.0737	0.159	-0.116	0.0357
RNA Spliceosome					
Structural Stabilization					
Synapse	0.28	-0.053	0.256	0.143	0.279
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Rheumatoid arthritis					
Apoptosis	0.0938	0.0153	0.185	0.145	0.233
APP Metabolism					
Autophagy	0.108	0.172	0.177	0.155	0.0454
Cell Cycle					
DNA Repair					
Endolysosome	0.0925	0.141	0.142	0.13	0.0535
Epigenetic	0.21	0.271	0.283	0.371	0.223
Immune Response	0.129	0.0956	0.172	0.197	0.244
Lipid Metabolism	-0.0102	0.0328	0.156	-0.0308	0.179
Metal Binding and Homeostasis	0.0228	0.181	0.218	0.075	0.0981
Mitochondrial Metabolism	0.145	0.164	0.164	0.172	-0.000272
Myelination					
Oxidative Stress					
Proteostasis	0.396	0.589	0.519	0.464	0.33
RNA Spliceosome					
Structural Stabilization	0.0193	0.0213	0.142	0.103	0.205
Synapse	0.0884	0.199	0.208	0.0885	0.101
Tau Homeostasis					
Vasculature	0.0399	0.0657	0.217	0.124	0.262
	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	0.0538	−0.00495	0.142	0.0392	0.185
Lipid Metabolism	−0.0383	−0.0865	0.0478	0.0106	−0.0208
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	−0.0204	−0.0259	−0.0378	0.0491	−0.0751
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	−0.0534	0.0556	0.097	0.037	0.0839
Epigenetic	−0.0576	0.0266	0.0142	0.0393	−0.095
Immune Response	−0.0315	0.0301	0.0199	0.0547	−0.025
Lipid Metabolism	−0.0978	−0.107	−0.13	−0.029	−0.21
Metal Binding and Homeostasis	−0.221	−0.125	−0.0883	−0.202	−0.0767
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0873	0.19	0.304	0.149	0.14
RNA Spliceosome					
Structural Stabilization	−0.097	−0.212	−0.09	−0.0114	−0.122
Synapse	0.043	0.14	0.151	0.122	0.0179
Tau Homeostasis					
Vasculature	0.0397	0.0189	0.066	0.116	−0.0242
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS





Primary immunodeficiency					
Apoptosis	−0.0263	−0.0107	0.172	−0.00472	0.191
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic					
Immune Response	0.0296	0.0635	0.114	0.0842	0.179
Lipid Metabolism	0.0134	0.0438	0.089	0.184	0.189
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0325	0.0565	0.17	−0.0806	0.0745
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Alzheimer disease					
Apoptosis	0.00796	0.177	0.0793	0.0784	0.0363
APP Metabolism	0.0891	0.291	0.391	0.0722	0.143
Autophagy	0.0922	0.244	0.201	0.129	0.0844
Cell Cycle	0.2	0.296	0.322	0.223	0.24
DNA Repair	0.139	0.139	0.239	0.104	0.131
Endolysosome	0.116	0.177	0.163	0.145	0.0677
Epigenetic	0.083	0.232	0.141	0.121	0.154
Immune Response	0.108	0.215	0.169	0.157	0.135
Lipid Metabolism	0.0158	0.141	0.106	0.0956	0.0278
Metal Binding and Homeostasis	0.0732	0.114	0.0449	0.112	0.00314
Mitochondrial Metabolism	−0.113	−0.232	−0.402	−0.0209	−0.327
Myelination	0.34	0.499	0.352	0.39	0.305
Oxidative Stress	−0.00914	0.0924	−0.0433	0.0844	0.00923
Proteostasis	0.103	0.122	0.032	0.172	−0.00779
RNA Spliceosome					
Structural Stabilization	0.109	0.157	0.169	0.183	0.113
Synapse	0.137	0.226	0.237	0.153	0.16
Tau Homeostasis					
Vasculature	0.0247	0.244	0.224	0.0647	0.139
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Parkinson disease					
Apoptosis	−0.0572	−0.093	−0.108	0.0558	−0.178
APP Metabolism					
Autophagy	−0.0644	−0.0752	−0.0498	0.0309	−0.125
Cell Cycle	0.263	0.229	0.241	0.382	0.178
DNA Repair	−0.0912	−0.313	−0.218	0.134	−0.366
Endolysosome	0.121	0.0485	0.0858	0.149	−0.082
Epigenetic	−0.0175	−0.0205	−0.0884	0.103	−0.0649
Immune Response	−0.00896	−0.0266	−0.017	0.171	−0.059
Lipid Metabolism	−0.062	−0.108	−0.121	0.0696	−0.176
Metal Binding and Homeostasis	0.0721	−0.0137	−0.0642	0.161	−0.0897
Mitochondrial Metabolism	−0.205	−0.389	−0.53	−0.0611	−0.452
Myelination					
Oxidative Stress	−0.103	−0.159	−0.287	0.0196	−0.195
Proteostasis	0.00525	−0.0815	−0.157	0.137	−0.232
RNA Spliceosome					
Structural Stabilization	0.106	−0.0316	0.0414	0.244	−0.0321
Synapse	0.0909	0.0146	0.0345	0.169	0.0357
Tau Homeostasis					
Vasculature	−0.0445	−0.0373	−0.0132	0.096	−0.0618
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Amyotrophic lateral sclerosis					
Apoptosis	0.00414	0.106	−0.00376	0.0604	−0.0468
APP Metabolism	0.0131	−0.00583	0.177	−0.246	0.0215
Autophagy	0.131	0.255	0.166	0.197	0.107
Cell Cycle	0.112	0.137	0.153	0.206	0.0182
DNA Repair	−0.0892	−0.131	−0.151	−0.0262	−0.139
Endolysosome	0.145	0.232	0.15	0.159	−0.0106
Epigenetic	0.0584	0.168	0.0857	0.0567	0.0452
Immune Response	0.0534	0.148	0.0501	0.176	0.00987
Lipid Metabolism	0.0893	0.122	0.0697	0.186	−0.0313
Metal Binding and Homeostasis	0.0678	0.0655	−0.0902	0.161	−0.119
Mitochondrial Metabolism	−0.124	−0.292	−0.476	0.0155	−0.384
Myelination	0.0134	0.16	0.105	0.135	0.0029
Oxidative Stress	−0.0613	−0.0357	−0.281	0.0946	−0.135
Proteostasis	0.087	0.0408	−0.0703	0.158	−0.128
RNA Spliceosome	−0.337	0.05	−0.26	−0.405	−0.163
Structural Stabilization	0.0923	0.0257	0.0887	0.136	−0.0148
Synapse	0.128	0.111	0.151	0.125	0.0524
Tau Homeostasis					
Vasculature	−0.0593	0.0151	0.00559	0.0558	−0.132
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Huntington disease					
Apoptosis	−0.0263	0.0596	0.00315	0.0477	−0.103
APP Metabolism	0.0067	0.179	0.452	−0.139	0.11
Autophagy	0.00109	0.161	0.187	0.0915	−0.0615
Cell Cycle	0.0762	0.0598	0.124	0.206	−0.0986
DNA Repair	−0.131	−0.091	−0.116	−0.12	−0.194
Endolysosome	0.194	0.275	0.345	0.176	0.0464
Epigenetic	−0.0457	0.125	0.127	−0.0234	0.0582
Immune Response	−0.0586	0.102	0.131	0.0316	−0.0679
Lipid Metabolism	0.0578	0.193	0.161	0.168	0.00246
Metal Binding and Homeostasis	−0.0442	−0.0786	−0.174	0.0735	−0.226
Mitochondrial Metabolism	−0.172	−0.302	−0.497	−0.0319	−0.422
Myelination					
Oxidative Stress	−0.135	−0.0727	−0.246	−0.017	−0.204
Proteostasis	0.0381	−0.0393	−0.0654	0.142	−0.204
RNA Spliceosome					
Structural Stabilization	0.125	−0.0314	0.128	0.235	−0.0323
Synapse	0.0558	0.0653	0.205	0.0495	0.0504
Tau Homeostasis					
Vasculature	−0.0758	0.0644	0.0263	0.0611	−0.132
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Spinocerebellar ataxia					
Apoptosis	−0.0567	0.186	0.0602	0.0155	−0.0781
APP Metabolism					
Autophagy	0.124	0.35	0.251	0.198	0.0307
Cell Cycle	0.125	0.35	0.39	0.112	0.272
DNA Repair					
Endolysosome	0.0111	0.261	0.313	−0.0944	0.0337
Epigenetic	0.00171	0.272	0.27	0.0102	0.159
Immune Response	−0.0131	0.22	0.244	0.0444	−0.0239
Lipid Metabolism	−0.00125	0.222	0.139	0.0702	−0.00843
Metal Binding and Homeostasis	−0.16	0.0197	−0.0333	−0.183	−0.219
Mitochondrial Metabolism	0.0141	0.132	0.0839	0.00432	−0.0563
Myelination					
Oxidative Stress	0.072	0.335	0.247	0.128	0.0439
Proteostasis	0.0299	0.0394	−0.044	0.102	−0.179
RNA Spliceosome					
Structural Stabilization	−0.00574	0.0498	0.194	−0.0207	−0.0375
Synapse	−0.0599	0.107	0.158	−0.0774	−0.0834
Tau Homeostasis					
Vasculature	−0.149	0.237	0.152	−0.12	0.00658
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

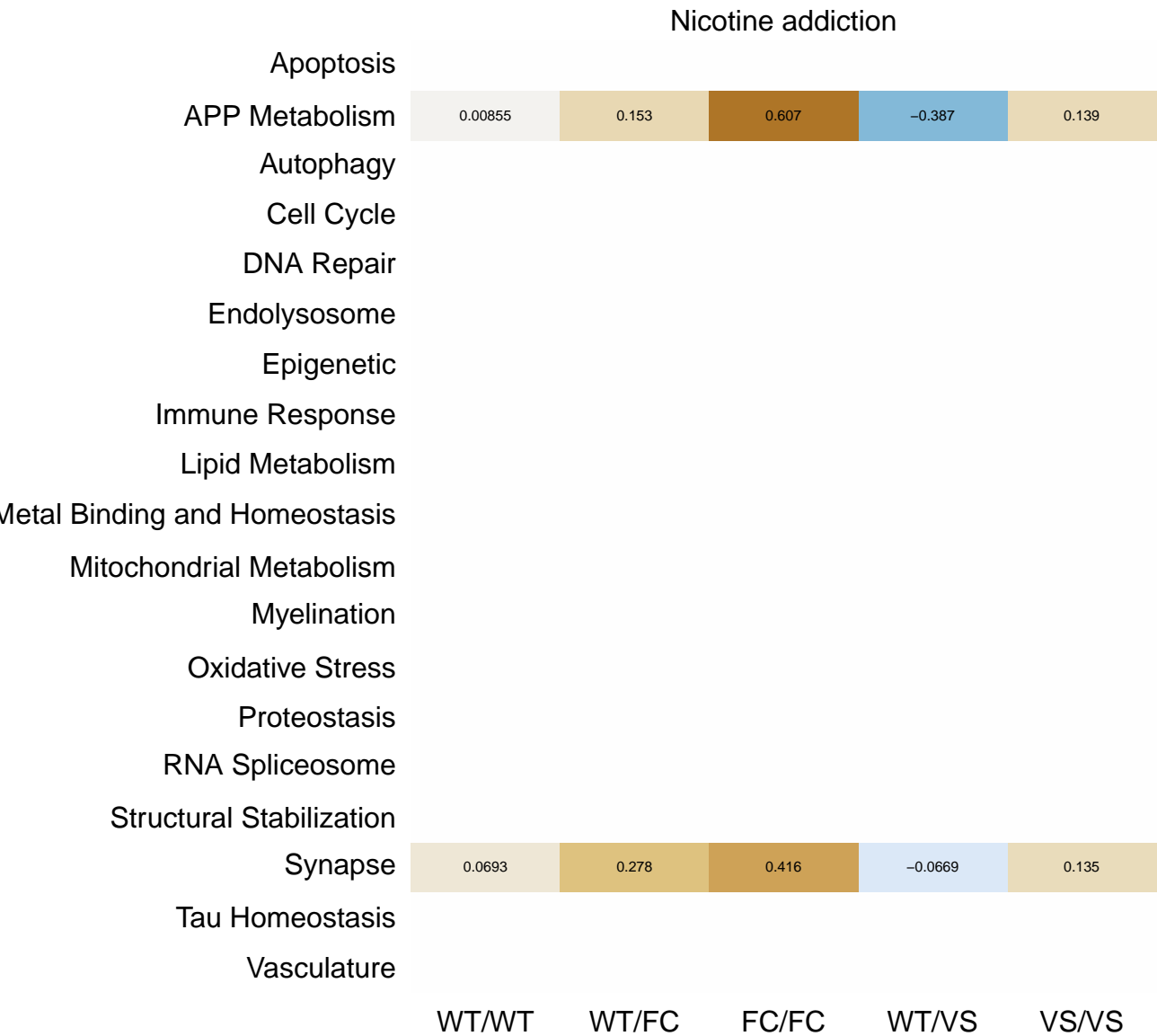
Prion disease					
Apoptosis	−0.000194	0.134	0.0766	0.0245	−0.0441
APP Metabolism					
Autophagy	0.0326	0.0439	0.0263	0.0733	−0.00353
Cell Cycle	0.173	0.222	0.189	0.231	0.0896
DNA Repair	0.0317	0.0517	0.00355	0.0255	−0.0334
Endolysosome	0.152	0.205	0.111	0.169	−0.00825
Epigenetic	0.156	0.385	0.375	0.126	0.282
Immune Response	0.0997	0.123	0.0974	0.131	0.0669
Lipid Metabolism	0.0453	0.155	0.116	0.0719	0.0238
Metal Binding and Homeostasis	0.0865	0.0352	−0.0032	0.136	−0.101
Mitochondrial Metabolism	−0.183	−0.338	−0.509	−0.0626	−0.404
Myelination					
Oxidative Stress	−0.0329	−0.0027	−0.1	−0.00595	−0.0541
Proteostasis	0.0394	−0.0602	−0.088	0.108	−0.156
RNA Spliceosome					
Structural Stabilization	0.102	0.0937	0.168	0.205	0.0879
Synapse	0.0602	0.0831	0.121	0.0575	0.0457
Tau Homeostasis					
Vasculature	0.00173	0.0893	0.145	−0.0165	0.000651
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Pathways of neurodegeneration – multiple diseases					
Apoptosis	0.0359	0.0944	0.0495	0.0942	0.0152
APP Metabolism	0.122	0.196	0.336	−0.0428	0.122
Autophagy	0.0686	0.162	0.128	0.108	0.0225
Cell Cycle	0.16	0.216	0.266	0.179	0.173
DNA Repair	0.0714	0.00827	0.105	0.0942	0.00286
Endolysosome	0.167	0.192	0.206	0.178	0.0757
Epigenetic	0.0668	0.158	0.124	0.0815	0.104
Immune Response	0.0972	0.142	0.125	0.142	0.0879
Lipid Metabolism	0.047	0.0803	0.082	0.114	−0.0014
Metal Binding and Homeostasis	0.106	0.0795	0.0195	0.132	−0.048
Mitochondrial Metabolism	−0.0798	−0.19	−0.323	0.0108	−0.287
Myelination	0.19	0.347	0.238	0.207	0.213
Oxidative Stress	0.0335	0.0789	−0.0529	0.126	−0.0201
Proteostasis	0.106	0.0881	0.0311	0.152	−0.00666
RNA Spliceosome					
Structural Stabilization	0.122	0.0611	0.139	0.147	0.0665
Synapse	0.126	0.139	0.197	0.104	0.118
Tau Homeostasis					
Vasculature	0.0297	0.126	0.171	0.0743	0.0582
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cocaine addiction					
Apoptosis	0.253	0.307	0.305	0.337	0.296
APP Metabolism					
Autophagy					
Cell Cycle	0.228	0.414	0.464	0.275	0.281
DNA Repair					
Endolysosome					
Epigenetic	0.273	0.296	0.356	0.294	0.26
Immune Response	-0.0567	0.125	0.0928	-0.00126	0.0394
Lipid Metabolism	0.143	0.312	0.419	0.105	0.253
Metal Binding and Homeostasis	0.0877	0.291	0.374	0.0734	0.234
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.238	0.265	0.406	0.237	0.261
RNA Spliceosome					
Structural Stabilization	0.282	0.317	0.478	0.25	0.41
Synapse	0.0935	0.136	0.252	0.135	0.167
Tau Homeostasis					
Vasculature	0.275	0.333	0.424	0.448	0.208
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Amphetamine addiction					
Apoptosis	0.124	0.285	0.318	0.151	0.195
APP Metabolism					
Autophagy					
Cell Cycle	0.158	0.475	0.438	0.0594	0.337
DNA Repair					
Endolysosome	0.302	0.44	0.713	-0.0163	0.419
Epigenetic	0.3	0.548	0.537	0.29	0.432
Immune Response	0.00277	0.282	0.351	-0.0703	0.181
Lipid Metabolism	0.151	0.526	0.591	0.169	0.325
Metal Binding and Homeostasis	0.157	0.384	0.412	0.0827	0.278
Mitochondrial Metabolism	0.0358	0.33	0.324	0.0621	0.178
Myelination					
Oxidative Stress					
Proteostasis	0.252	0.299	0.452	0.221	0.217
RNA Spliceosome					
Structural Stabilization	0.193	0.281	0.426	0.0328	0.238
Synapse	0.141	0.255	0.351	0.0715	0.182
Tau Homeostasis					
Vasculature	0.21	0.432	0.533	0.104	0.358
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Morphine addiction					
Apoptosis					
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.0706	0.15	0.239	0.0847	0.148
Epigenetic					
Immune Response	−0.0911	−0.0853	0.174	−0.168	−0.0954
Lipid Metabolism	−0.0468	0.195	0.27	−0.153	0.0334
Metal Binding and Homeostasis	−0.0466	0.0883	0.243	−0.128	0.072
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	−0.0197	0.065	0.234	−0.127	−0.0625
RNA Spliceosome					
Structural Stabilization	0.0686	0.188	0.387	−0.0198	0.093
Synapse	0.02	0.135	0.251	−0.0601	0.103
Tau Homeostasis					
Vasculature	0.0649	0.144	0.257	0.0276	0.119
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Alcoholism					
Apoptosis	0.128	0.137	0.123	0.245	0.238
APP Metabolism					
Autophagy					
Cell Cycle	0.214	0.286	0.236	0.234	0.202
DNA Repair					
Endolysosome	0.109	0.161	0.457	0.0858	0.294
Epigenetic	0.264	0.179	0.201	0.316	0.233
Immune Response	0.022	0.141	0.2	0.0325	0.203
Lipid Metabolism	0.21	0.201	0.343	0.241	0.243
Metal Binding and Homeostasis	0.165	0.243	0.229	0.146	0.186
Mitochondrial Metabolism	0.064	0.252	0.209	0.0989	0.156
Myelination					
Oxidative Stress	0.324	0.299	0.374	0.335	0.297
Proteostasis	0.204	0.187	0.264	0.259	0.211
RNA Spliceosome					
Structural Stabilization	0.262	0.342	0.331	0.237	0.344
Synapse	0.0854	0.155	0.2	0.128	0.158
Tau Homeostasis					
Vasculature	0.18	0.194	0.353	0.184	0.294
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Lipid and atherosclerosis					
Apoptosis	−0.0207	0.119	0.0532	0.0386	0.152
APP Metabolism	0.0271	0.278	0.431	0.122	0.158
Autophagy	0.0113	0.161	0.15	0.0536	0.21
Cell Cycle	0.123	0.284	0.244	0.0993	0.264
DNA Repair	−0.00439	0.0321	−0.00727	0.0747	0.0775
Endolysosome	0.0491	0.146	0.136	0.0908	0.196
Epigenetic	0.0564	0.205	0.154	0.108	0.175
Immune Response	0.0289	0.11	0.0844	0.0776	0.157
Lipid Metabolism	−0.00102	0.113	0.071	0.0589	0.121
Metal Binding and Homeostasis	0.0464	0.198	0.207	0.0672	0.231
Mitochondrial Metabolism	0.0428	0.163	0.114	0.0784	0.203
Myelination	0.221	0.497	0.328	0.331	0.511
Oxidative Stress	0.115	0.361	0.229	0.207	0.346
Proteostasis	0.0322	0.196	0.144	0.0975	0.216
RNA Spliceosome					
Structural Stabilization	−0.0036	0.152	0.0914	0.0097	0.202
Synapse	0.104	0.307	0.267	0.091	0.283
Tau Homeostasis					
Vasculature	0.0347	0.181	0.153	0.0517	0.147
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Fluid shear stress and atherosclerosis					
Apoptosis	0.115	0.321	0.228	0.131	0.285
APP Metabolism					
Autophagy	0.154	0.303	0.266	0.177	0.383
Cell Cycle	0.225	0.405	0.3	0.275	0.375
DNA Repair	-0.0364	0.0912	0.0521	0.0454	0.0592
Endolysosome	0.0787	0.151	0.0947	0.172	0.254
Epigenetic	0.185	0.396	0.308	0.212	0.375
Immune Response	0.111	0.219	0.173	0.182	0.231
Lipid Metabolism	0.076	0.223	0.144	0.136	0.24
Metal Binding and Homeostasis	0.101	0.228	0.235	0.153	0.26
Mitochondrial Metabolism	0.133	0.275	0.152	0.177	0.278
Myelination	0.423	0.553	0.351	0.52	0.62
Oxidative Stress	0.143	0.277	0.178	0.263	0.253
Proteostasis	0.163	0.257	0.154	0.287	0.275
RNA Spliceosome					
Structural Stabilization	0.127	0.225	0.199	0.216	0.307
Synapse	0.204	0.388	0.281	0.18	0.405
Tau Homeostasis					
Vasculature	0.107	0.239	0.189	0.167	0.279
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Hypertrophic cardiomyopathy					
Apoptosis	0.0436	0.297	0.222	0.164	0.248
APP Metabolism					
Autophagy	0.0746	0.43	0.357	0.0531	0.248
Cell Cycle					
DNA Repair					
Endolysosome	0.258	0.301	0.337	0.363	0.292
Epigenetic	0.206	0.262	0.301	0.306	0.326
Immune Response	0.0447	0.15	0.2	0.133	0.211
Lipid Metabolism	-0.0764	-0.0101	0.038	0.0144	0.0994
Metal Binding and Homeostasis	-0.147	-0.0427	0.0308	-0.101	-0.00648
Mitochondrial Metabolism	0.0615	0.198	0.335	-0.0305	0.201
Myelination					
Oxidative Stress					
Proteostasis	-0.0418	0.101	0.208	-0.0262	0.139
RNA Spliceosome					
Structural Stabilization	-0.0344	-0.00347	0.067	0.0381	0.0767
Synapse	0.0457	0.139	0.24	0.0299	0.181
Tau Homeostasis					
Vasculature	-0.0333	-0.00468	0.156	-0.00805	0.085
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Arrhythmogenic right ventricular cardiomyopathy					
Apoptosis	0.0532	0.276	0.251	0.135	0.273
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.218	0.189	0.285	0.263	0.348
Immune Response	0.0159	0.15	0.24	0.0208	0.212
Lipid Metabolism	-0.0596	-0.000327	0.109	-0.0203	0.127
Metal Binding and Homeostasis	-0.0799	-0.026	0.144	-0.0586	0.0527
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.00179	0.0943	0.261	-0.0385	0.167
RNA Spliceosome					
Structural Stabilization	-0.00665	0.055	0.16	0.0168	0.115
Synapse	0.0437	0.124	0.233	0.0203	0.191
Tau Homeostasis					
Vasculature	-0.0232	0.0726	0.267	-0.0784	0.125
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Dilated cardiomyopathy					
Apoptosis	0.0826	0.271	0.191	0.182	0.237
APP Metabolism					
Autophagy	0.0996	0.26	0.263	0.13	0.11
Cell Cycle					
DNA Repair					
Endolysosome	0.349	0.372	0.462	0.376	0.295
Epigenetic					
Immune Response	0.0391	0.155	0.198	0.0836	0.141
Lipid Metabolism	-0.0495	0.0216	0.122	0.00197	0.0985
Metal Binding and Homeostasis	-0.102	-0.0347	0.068	-0.0647	-0.0269
Mitochondrial Metabolism	0.092	0.13	0.331	0.046	0.138
Myelination					
Oxidative Stress					
Proteostasis	-0.0149	0.0516	0.188	-0.0122	0.0502
RNA Spliceosome					
Structural Stabilization	-0.0271	-0.0344	0.0603	0.0439	0.0519
Synapse	0.0476	0.0954	0.219	0.0399	0.138
Tau Homeostasis					
Vasculature	-0.0177	-0.0155	0.162	0.00189	0.0728
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

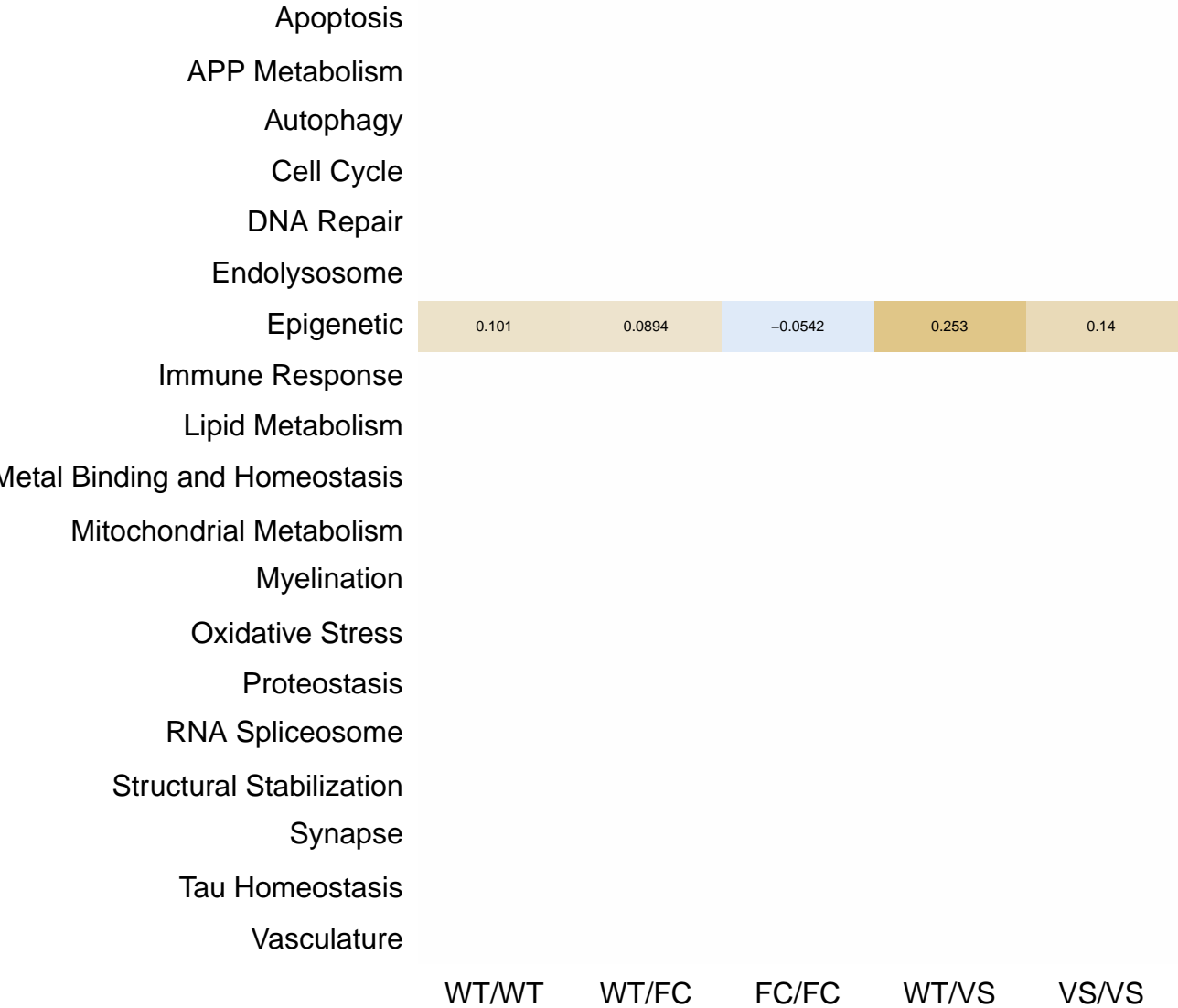
Diabetic cardiomyopathy					
Apoptosis	0.0665	0.142	0.097	0.138	0.0428
APP Metabolism	−0.0387	0.206	0.272	0.1	0.113
Autophagy	0.12	0.239	0.216	0.112	0.178
Cell Cycle	0.146	0.311	0.238	0.12	0.244
DNA Repair					
Endolysosome	0.0123	0.0962	0.103	0.149	0.0404
Epigenetic	0.00989	0.282	0.237	−0.0575	0.141
Immune Response	0.0205	0.109	0.133	0.0856	0.117
Lipid Metabolism	−0.0278	0.103	0.0236	0.0647	0.0242
Metal Binding and Homeostasis	−0.0451	−0.0541	−0.155	0.0151	−0.137
Mitochondrial Metabolism	−0.17	−0.27	−0.462	−0.06	−0.366
Myelination					
Oxidative Stress	−0.0587	−0.0436	−0.117	0.0163	−0.00516
Proteostasis	0.0203	0.00944	0.0088	0.126	−0.055
RNA Spliceosome					
Structural Stabilization	0.0355	0.106	0.147	0.17	0.115
Synapse	0.02	0.157	0.141	0.0581	0.0885
Tau Homeostasis					
Vasculature	−0.108	0.0318	0.0658	0.0257	0.0142
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Viral myocarditis					
Apoptosis	0.0827	−0.0572	0.212	0.149	0.0293
APP Metabolism					
Autophagy	0.128	0.243	0.482	0.211	0.14
Cell Cycle					
DNA Repair					
Endolysosome	0.105	0.0711	0.281	0.0966	0.152
Epigenetic					
Immune Response	0.144	0.154	0.304	0.133	0.204
Lipid Metabolism	0.0439	0.0374	0.165	0.0868	0.115
Metal Binding and Homeostasis					
Mitochondrial Metabolism	0.077	0.147	0.21	0.182	0.0878
Myelination					
Oxidative Stress					
Proteostasis	0.000152	0.139	0.217	0.0783	0.0794
RNA Spliceosome					
Structural Stabilization	−0.0166	0.024	0.18	0.0634	0.128
Synapse	0.0386	0.126	0.311	0.0212	0.138
Tau Homeostasis					
Vasculature	0.0524	0.00671	0.187	0.0805	0.0975
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Type II diabetes mellitus					
Apoptosis	−0.0224	0.233	0.265	−0.0401	0.0553
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome					
Epigenetic	0.0635	0.325	0.417	−0.00722	0.128
Immune Response	0.0229	0.215	0.234	0.0228	0.0814
Lipid Metabolism	0.0627	0.304	0.286	0.0383	0.172
Metal Binding and Homeostasis	0.115	−0.0129	0.235	−0.167	0.0031
Mitochondrial Metabolism	0.134	0.23	0.345	0.0259	0.102
Myelination					
Oxidative Stress					
Proteostasis	0.31	0.414	0.39	0.334	0.282
RNA Spliceosome					
Structural Stabilization	0.117	0.256	0.305	0.0691	0.131
Synapse	0.133	0.254	0.455	−0.0426	0.162
Tau Homeostasis					
Vasculature	0.0027	0.133	0.224	−0.018	−0.0259
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Type I diabetes mellitus					
Apoptosis	−0.0259	−0.0498	0.0387	0.134	0.12
APP Metabolism					
Autophagy					
Cell Cycle					
DNA Repair					
Endolysosome	0.108	0.188	0.209	0.147	0.281
Epigenetic					
Immune Response	0.000673	0.0562	0.132	0.0691	0.213
Lipid Metabolism	−0.0499	−0.0737	0.0713	−0.0308	0.0426
Metal Binding and Homeostasis					
Mitochondrial Metabolism					
Myelination					
Oxidative Stress					
Proteostasis	0.0855	0.0883	0.334	0.118	0.306
RNA Spliceosome					
Structural Stabilization					
Synapse					
Tau Homeostasis					
Vasculature					
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Maturity onset diabetes of the young



Alcoholic liver disease					
Apoptosis	−0.086	0.144	0.0406	0.0159	0.111
APP Metabolism					
Autophagy	−0.0245	0.311	0.281	−0.00968	0.183
Cell Cycle	0.0547	0.282	0.154	0.129	0.174
DNA Repair	−0.219	−0.0328	−0.0304	−0.065	−0.0487
Endolysosome	−0.000884	0.0598	−0.0108	0.118	0.115
Epigenetic	−0.0485	0.164	0.108	0.0154	0.142
Immune Response	−0.0299	0.0283	−0.0166	0.0771	0.0693
Lipid Metabolism	−0.0208	0.0964	0.0557	0.115	0.0155
Metal Binding and Homeostasis	−0.102	0.121	0.0919	−0.0307	0.0559
Mitochondrial Metabolism	0.021	0.164	0.146	0.16	0.0838
Myelination					
Oxidative Stress	−0.00822	0.491	0.318	0.0429	0.249
Proteostasis	0.0433	0.231	0.237	0.0886	0.224
RNA Spliceosome					
Structural Stabilization	0.00134	0.164	0.11	0.0828	0.264
Synapse	0.0958	0.209	0.211	0.172	0.194
Tau Homeostasis					
Vasculature	0.0287	0.0402	0.0136	0.155	0.061
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Non-alcoholic fatty liver disease					
Apoptosis	0.0237	0.197	0.101	0.163	0.0303
APP Metabolism					
Autophagy	0.131	0.406	0.271	0.217	0.222
Cell Cycle	0.261	0.337	0.27	0.416	0.195
DNA Repair					
Endolysosome	−0.111	0.177	−0.0179	0.0214	0.0177
Epigenetic	0.149	0.286	0.24	0.268	0.145
Immune Response	0.0108	0.149	0.0617	0.165	0.0512
Lipid Metabolism	0.0543	0.15	0.0828	0.205	0.0742
Metal Binding and Homeostasis	−0.0019	−0.0383	−0.204	0.112	−0.279
Mitochondrial Metabolism	−0.165	−0.348	−0.531	−0.0526	−0.449
Myelination					
Oxidative Stress	−0.0681	0.151	−0.0691	0.0378	−0.109
Proteostasis	0.184	0.284	0.133	0.344	0.0751
RNA Spliceosome					
Structural Stabilization	0.0693	0.356	0.205	0.154	0.158
Synapse	0.149	0.337	0.207	0.199	0.206
Tau Homeostasis					
Vasculature	0.0391	0.211	0.118	0.197	0.104
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

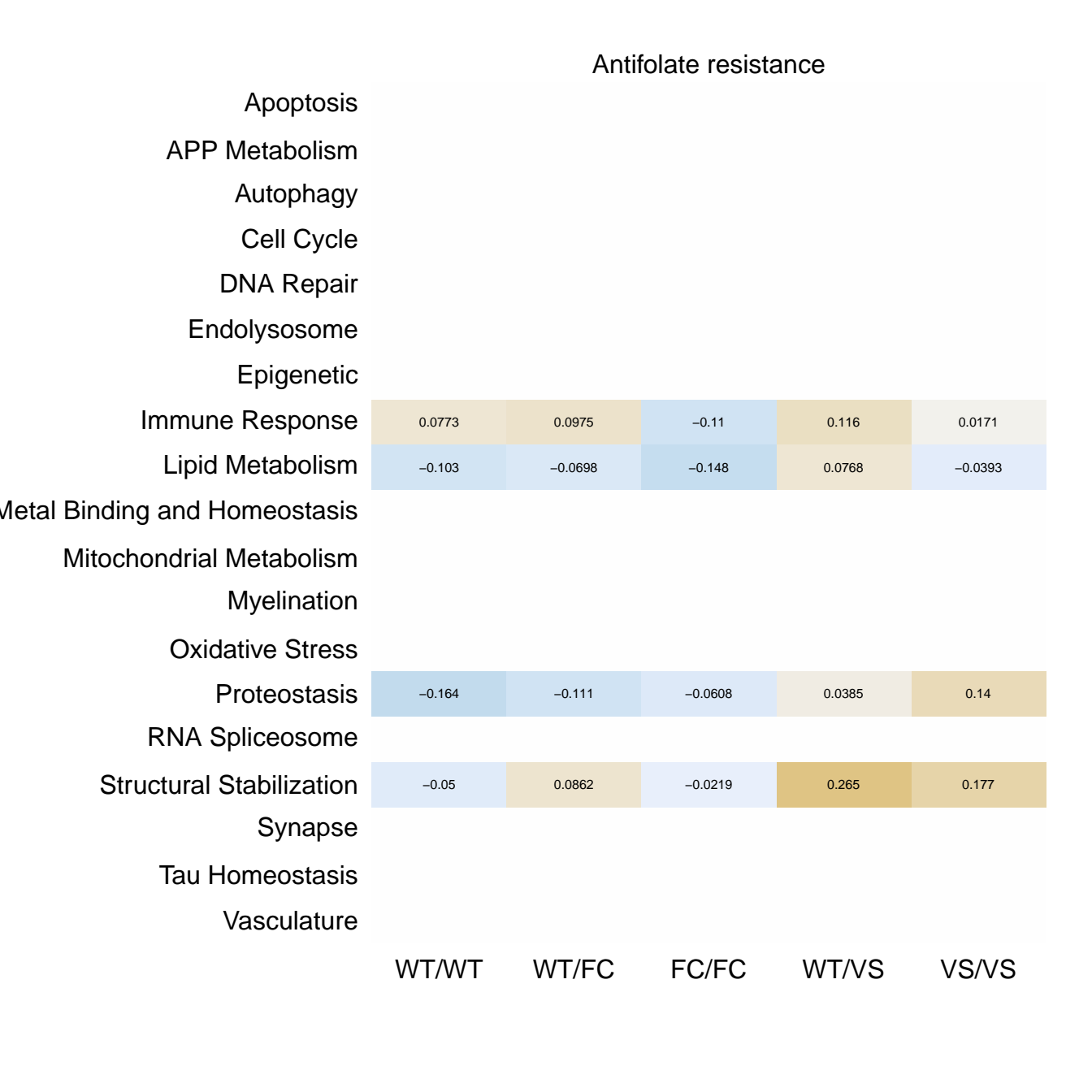
Insulin resistance					
Apoptosis	0.0415	0.214	0.211	0.0395	0.211
APP Metabolism					
Autophagy	0.131	0.388	0.436	0.108	0.337
Cell Cycle	0.054	0.201	0.165	0.128	0.172
DNA Repair					
Endolysosome	0.0277	0.134	0.11	0.173	0.307
Epigenetic	−0.000114	0.139	0.127	0.0292	0.0939
Immune Response	0.0278	0.181	0.136	0.0474	0.135
Lipid Metabolism	0.045	0.132	0.0686	0.0855	0.124
Metal Binding and Homeostasis	0.0483	0.198	0.0849	0.118	0.245
Mitochondrial Metabolism	0.0459	0.233	0.224	0.0501	0.227
Myelination					
Oxidative Stress	0.0608	0.364	0.287	0.0726	0.349
Proteostasis	0.217	0.229	0.205	0.256	0.305
RNA Spliceosome					
Structural Stabilization	0.037	0.2	0.179	0.0427	0.243
Synapse	0.00444	0.273	0.271	−0.00617	0.216
Tau Homeostasis					
Vasculature	0.119	0.171	0.279	0.257	0.313
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

AGE–RAGE signaling pathway in diabetic complications					
Apoptosis	0.0612	0.151	0.165	0.145	0.202
APP Metabolism					
Autophagy	0.159	0.361	0.262	0.189	0.308
Cell Cycle	0.136	0.187	0.229	0.233	0.246
DNA Repair	−0.0492	0.118	0.0879	0.0388	0.167
Endolysosome	−0.0253	0.171	0.113	0.0138	0.211
Epigenetic	0.065	0.218	0.24	0.091	0.195
Immune Response	0.0606	0.123	0.164	0.126	0.181
Lipid Metabolism	0.029	0.135	0.146	0.116	0.178
Metal Binding and Homeostasis	−0.0689	−0.0197	0.123	0.0337	0.115
Mitochondrial Metabolism	0.0604	0.181	0.124	0.0919	0.192
Myelination					
Oxidative Stress	0.159	0.267	0.26	0.239	0.313
Proteostasis	0.0536	0.109	0.114	0.21	0.248
RNA Spliceosome					
Structural Stabilization	0.0113	0.0412	0.0935	0.146	0.196
Synapse	0.0654	0.165	0.206	0.107	0.251
Tau Homeostasis					
Vasculature	0.0595	0.111	0.157	0.162	0.211
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Cushing syndrome					
Apoptosis	0.0868	0.266	0.309	0.19	0.334
APP Metabolism					
Autophagy					
Cell Cycle	0.124	0.276	0.394	0.153	0.305
DNA Repair	-0.0167	0.0869	0.327	0.0157	0.226
Endolysosome	0.279	0.341	0.354	0.223	0.345
Epigenetic	0.0379	0.0892	0.205	0.105	0.181
Immune Response	0.142	0.185	0.273	0.14	0.263
Lipid Metabolism	0.104	0.23	0.325	0.147	0.25
Metal Binding and Homeostasis	0.0909	0.126	0.33	0.0478	0.164
Mitochondrial Metabolism	0.088	0.173	0.205	0.0469	0.101
Myelination					
Oxidative Stress	0.119	0.279	0.296	0.212	0.344
Proteostasis	0.16	0.205	0.259	0.197	0.224
RNA Spliceosome					
Structural Stabilization	0.162	0.23	0.266	0.172	0.277
Synapse	0.184	0.268	0.318	0.17	0.258
Tau Homeostasis					
Vasculature	0.208	0.27	0.371	0.272	0.34
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

EGFR tyrosine kinase inhibitor resistance					
Apoptosis	0.0506	0.168	0.18	0.117	0.263
APP Metabolism					
Autophagy	0.213	0.271	0.34	0.293	0.334
Cell Cycle	0.151	0.176	0.199	0.198	0.377
DNA Repair	0.258	0.201	0.398	0.339	0.281
Endolysosome	0.209	0.234	0.416	0.24	0.319
Epigenetic	0.0876	0.276	0.257	0.102	0.417
Immune Response	0.0922	0.185	0.229	0.102	0.284
Lipid Metabolism	0.0822	0.16	0.224	0.13	0.279
Metal Binding and Homeostasis	0.0326	0.117	0.0746	0.0181	0.133
Mitochondrial Metabolism	0.189	0.281	0.318	0.198	0.385
Myelination	0.163	0.259	0.248	0.267	0.382
Oxidative Stress	0.183	0.316	0.33	0.244	0.49
Proteostasis	0.21	0.274	0.254	0.271	0.314
RNA Spliceosome					
Structural Stabilization	0.139	0.235	0.272	0.163	0.325
Synapse	0.0493	0.127	0.174	0.11	0.285
Tau Homeostasis					
Vasculature	0.0912	0.221	0.325	0.0828	0.318
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS

Platinum drug resistance					
Apoptosis	0.00629	0.147	0.145	0.101	0.109
APP Metabolism					
Autophagy	0.14	0.26	0.281	0.322	0.207
Cell Cycle	0.039	0.135	0.21	0.139	0.0764
DNA Repair	0.0663	0.142	0.235	0.123	0.0605
Endolysosome	0.0779	0.167	0.262	0.18	0.134
Epigenetic	0.0971	0.245	0.296	0.126	0.166
Immune Response	0.0325	0.159	0.167	0.131	0.105
Lipid Metabolism	0.141	0.253	0.215	0.222	0.209
Metal Binding and Homeostasis	−0.13	0.129	0.151	−0.0276	0.0038
Mitochondrial Metabolism	0.17	0.275	0.176	0.274	0.161
Myelination					
Oxidative Stress	−0.0327	0.167	0.21	0.11	0.0672
Proteostasis	0.112	0.19	0.196	0.228	0.175
RNA Spliceosome					
Structural Stabilization	0.0356	0.272	0.231	0.193	0.271
Synapse	0.147	0.226	0.27	0.338	0.243
Tau Homeostasis					
Vasculature	0.0198	0.249	0.189	0.146	0.195
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS



Endocrine resistance					
Apoptosis	0.0769	0.236	0.254	0.164	0.279
APP Metabolism					
Autophagy	0.271	0.309	0.357	0.358	0.337
Cell Cycle	0.083	0.179	0.211	0.257	0.257
DNA Repair	0.0961	0.172	0.22	0.289	0.196
Endolysosome	0.222	0.278	0.351	0.318	0.303
Epigenetic	0.0317	0.187	0.318	0.156	0.257
Immune Response	0.155	0.233	0.3	0.215	0.263
Lipid Metabolism	0.112	0.245	0.36	0.14	0.264
Metal Binding and Homeostasis	0.0554	0.138	0.169	0.173	0.082
Mitochondrial Metabolism	0.191	0.284	0.263	0.226	0.273
Myelination	0.259	0.219	0.367	0.446	0.419
Oxidative Stress	0.278	0.474	0.511	0.408	0.418
Proteostasis	0.227	0.267	0.321	0.35	0.298
RNA Spliceosome					
Structural Stabilization	0.171	0.199	0.292	0.311	0.329
Synapse	0.0868	0.195	0.258	0.16	0.249
Tau Homeostasis					
Vasculature	0.127	0.235	0.35	0.175	0.278
	WT/WT	WT/FC	FC/FC	WT/VS	VS/VS