

**Table S1.** Top 20 significant upregulated and downregulated soleus genes. Genes are sorted by z ratio after significance was determined by  $p \leq 0.05$  and  $FDR \leq 0.3$ .

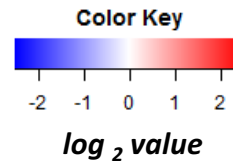
EXADF vs CTRL					EXADF vs EX					EX vs CTRL					ADF vs CTRL				
Gene	Z Ratio	Fold Change	FDR	P Value	Gene	Z Ratio	Fold Change	FDR	P Value	Gene	Z Ratio	Fold Change	FDR	P Value	Gene	Z Ratio	Fold Change	FDR	P Value
Acot1	7.42	11.09	0.00	0.00	Acot1	8.53	12.93	0.00	0.00	Tmem196	7.79	9.79	0.10	3E-4	Acot1	8.50	11.50	0.00	0.00
Arrdc2	7.13	9.93	0.00	0.00	Dlg2	7.67	37.64	0.24	0.03	Frrs11	7.62	14.35	0.17	9E-4	Gm364	5.69	9.85	0.03	7E-4
Dlg2	6.62	28.40	0.28	0.03	Onecut1	6.77	8.77	0.03	0.00	Wdr54	6.82	5.78	0.05	10E-5	Pdk4	5.44	3.96	2E-9	1E-12
Lrrc39	6.45	10.87	0.08	4E-3	Fam132b	5.77	4.33	2E-9	3E-12	Entpd4	6.44	2.95	0.19	1E-3	Acot2	5.31	4.76	0.00	0.00
Ddit4	6.27	7.64	0.00	0.00	Acox1	5.67	4.47	0.00	0.00	Gapt	6.18	5.61	0.26	2E-3	Unc93a	4.87	4.37	4E-11	1E-14
Fam107a	5.81	5.23	4E-10	4E-13	Speer6-ps1	5.18	3.37	9E-10	10E-13	Unc93a	5.91	5.65	0.20	1E-3	Isl2	4.25	3.93	2E-5	4E-8
Tsks	5.55	4.80	0.03	9E-4	Tectb	5.11	3.17	5E-8	5E-7	Olf893	5.67	6.95	0.19	1E-3	Acox1	4.25	3.59	8E-6	2E-8
Lao1	5.36	4.25	0.00	0.00	Zfp474	5.07	4.12	0.10	0.01	Gm15401	5.53	5.86	0.25	2E-3	Slc25a34	4.20	2.99	0.00	0.00
Cebpd	5.27	5.95	0.00	0.00	Arrdc2	5.06	3.99	6E-5	5E-7	Zfp93	5.31	5.21	0.12	4E-4	Ucp3	4.09	3.21	1.4E-9	8E-13
Ms4a4a	5.16	4.27	3E-3	5E-5	Fam132b	5.00	3.55	2E-8	5E-11	Clspn	5.03	3.54	0.05	9E-5	Cfap44	4.06	4.56	2E-5	4E-8
Map3k6	5.13	4.74	0.00	0.00	Lao1	5.00	3.20	6E-6	3E-8	Padi3	4.98	3.92	0.00	2E-6	Kcnt2	3.89	5.43	0.07	2E-3
Cmklr1	5.04	6.43	0.09	5E-3	Doc2b	4.91	3.46	8E-11	7E-14	Ccdc113	4.56	3.65	0.03	6E-6	Elf5	3.84	9.21	0.20	0.01
Slc10a6	4.89	4.15	2E-7	4E-10	Mapk4	4.85	4.25	0.03	1E-3	Rgs11	4.25	3.54	0.28	2E-3	Phc3	3.80	4.16	4E-3	4E-5
Speer6-ps1	4.88	3.00	2E-5	8E-8	Olf1321	4.68	5.30	0.08	4E-3	Dnah6	4.22	2.74	0.27	2E-3	Plin5	3.73	2.65	3E-10	1E-13
Gm2379	4.80	3.48	3E-6	10E-9	Unc93a	4.68	3.53	1E-6	5E-9	Nxph4	3.83	3.76	0.28	2E-3	Angptl4	3.71	2.75	4E-7	5E-10
Olf1321	4.76	5.70	0.04	2E-3	Vmn2r55	4.48	2.94	0.04	2E-3	Mpv17	3.71	2.50	0.06	1E-4	Olf1431	3.70	6.26	0.28	0.03
Doc2b	4.71	3.73	3E-11	3E-14	Fam107a	4.47	3.11	8E-6	4E-8	Sphk2	3.48	2.04	0.17	9E-4	Frrs11	3.70	6.61	0.22	0.02
Acot2	4.68	4.46	1E-9	2E-12	Ddit4	4.46	3.64	3E-7	9E-10	Mrgprb1	3.45	2.50	0.16	8E-4	Rufy4	3.51	3.08	2E-6	4E-9
Klrb1b	4.68	2.22	0.24	0.03	Isl2	4.45	2.91	0.00	0.00	Cxcl13	3.38	2.14	0.21	1E-3	Ehhadh	3.44	2.73	0.00	0.00
Fkbp5	4.64	5.20	3E-7	7E-10	Bcl2l1	4.44	2.63	2E-4	2E-6	Kcnv2	3.04	2.06	0.00	5E-8	Fa2h	3.41	2.71	5E-8	4E-11
Kbtbd13	-3.90	-3.53	2E-3	3E-5	Lad1	-4.14	-3.56	0.01	4E-4	Slc32a1	-3.47	-2.78	0.11	4E-4	Celf3	-4.48	-3.90	6E-5	2E-7
Abca17	-3.92	-11.71	0.26	0.03	Nalcn	-4.16	-4.56	0.03	9E-3	Gnrh1	-3.47	-2.75	0.10	3E-4	AU067648	-4.50	-4.47	0.02	4E-4
Gpr149	-3.92	-6.68	0.12	0.01	Gm30810	-4.28	-4.65	0.12	0.01	Vmn1r32	-3.52	-3.45	0.19	1E-3	Gabrg2	-4.53	-3.12	0.01	2E-4
Erich3	-3.95	-5.09	0.01	3E-4	Grin3a	-4.32	-5.42	0.22	0.02	Itin1	-3.55	-3.07	0.24	2E-3	Gm10385	-4.54	-2.82	0.06	2E-3
Efna2	-4.01	-3.81	1E-3	1E-5	Rbp1	-4.32	-6.86	0.11	0.01	Spon2	-3.64	-2.89	0.14	6E-4	Olf71	-4.57	-6.82	0.16	0.01
Slamf8	-4.04	-5.16	0.01	2E-4	St6gal1	-4.36	-5.50	0.01	2E-4	Zcwpw1	-3.69	-2.63	0.00	9E-8	Rgs20	-4.62	-5.68	0.11	0.01
Olf351	-4.10	-5.43	8E-4	8E-6	Kbtbd13	-4.46	-3.81	3E-1	5E-5	Gm33206	-3.79	-2.49	0.25	2E-3	Gli1	-4.63	-3.82	4E-4	2E-6
Pon1	-4.11	-4.44	6E-6	2E-8	BC023105	-4.55	-4.44	0.01	2E-4	Slc5a1	-3.80	-3.61	0.14	6E-4	Rab11fip4os1	-4.64	-4.56	0.03	6E-4
Slc9a5	-4.12	-6.24	0.01	3E-4	Bhmt	-4.65	-3.99	2E-5	2E-7	Ttc22	-3.80	-3.06	0.00	2E-9	Onecut1	-4.77	-8.52	0.26	0.02
Olf284	-4.13	-5.80	0.27	0.03	Cysltr2	-4.67	-7.80	0.10	0.01	Sema4g	-3.84	-2.44	0.20	1E-3	B4galt5	-4.79	-6.50	0.04	9E-4
Gm20767	-4.15	-3.84	0.21	0.02	Gabrb3	-4.85	-11.72	0.15	0.01	Defb46	-3.85	-3.48	0.21	1E-3	Tcp11	-4.84	-3.68	0.14	0.01
Fabp6	-4.17	-5.95	0.03	1E-3	Olf284	-4.94	-4.16	0.13	0.01	Akr1b7	-3.91	-3.39	0.08	2E-4	Rbm46os	-4.89	-3.75	0.04	8E-4
Gm9936	-4.20	-5.09	0.01	3E-4	Gm15401	-5.54	-9.30	0.02	5E-4	Slc22a2	-4.01	-2.50	0.21	1E-3	AA617406	-4.92	-3.45	0.05	1E-3
Rhox4a	-4.23	-10.37	0.14	0.01	Gm364	-5.61	-7.74	0.16	0.01	Veph1	-4.01	-2.71	0.16	8E-4	Fam166b	-4.96	-5.14	0.00	4E-5
Lax1	-4.28	-4.43	0.16	0.01	Cyp7a1	-5.90	-6.70	0.02	7E-4	Pcdh15	-4.04	-3.17	0.11	4E-4	Gm20767	-4.98	-4.33	0.05	1E-3
AA617406	-4.32	-3.92	0.15	0.01	Olf351	-5.91	-13.67	0.06	3E-3	Olf381	-4.07	-2.68	0.12	4E-4	Hcn3	-5.06	-4.93	2E-3	1E-5
Hsf3	-4.50	-15.01	0.19	0.02	Olf764-ps1	-6.17	-8.63	0.10	0.01	Clec4g	-4.16	-3.12	0.00	5E-9	Mirg	-5.08	-5.74	4E-3	3E-5
Nalcn	-4.64	-6.86	0.03	1E-3	Tmem196	-6.20	-5.71	0.17	0.01	Mdga2	-4.22	-2.56	0.08	2E-4	Gsg11	-5.16	-3.62	3E-7	3E-10
Hgd	-4.90	-7.84	0.12	0.01	Ifnl3	-7.40	-160.32	0.20	0.02	Agxt2	-4.68	-3.54	0.00	8E-7	Gm5486	-5.25	-3.26	0.12	0.01
Rgs20	-5.01	-7.63	0.11	0.01	Gapt	-7.73	-14.30	6E-4	7E-6	Ctrc	-5.56	-5.56	0.14	6E-4	Ctrc	-5.42	-5.12	0.01	10E-5

**Table S2.** Top 20 significant upregulated and downregulated liver genes. Genes are sorted by z ratio after significance was determined by  $p \leq 0.05$  and  $FDR \leq 0.3$ .

Gene	EXADF vs CTRL				Gene	EXADF vs EX				Gene	EX vs CTRL				Gene	ADF vs CTRL			
	Z Ratio	Fold Change	FDR	P Value		Z Ratio	Fold Change	FDR	P Value		Z Ratio	Fold Change	FDR	P Value		Z Ratio	Fold Change	FDR	P Value
Mmel1	7.11	1142.82	0.00	0.00	Fmo3	13.96	75.22	0.00	0.00	Lca5	7.06	1148.59	0.00	0.00	Fmo3	8.72	51.42	0.00	0.00
Lca5	6.75	1184.95	0.00	0.00	Cux2	10.71	25.30	0.00	0.00	Mmel1	6.98	569.36	0.00	0.00	Cux2	6.42	19.41	0.00	0.00
Gm31649	6.75	780.00	0.00	0.00	Cyp4a31	7.56	11.49	0.00	0.00	Btn1a1	6.83	1196.12	0.00	0.00	Gm10804	5.37	7.45	4E-11	2E-13
Chd5	6.61	713.74	0.00	0.00	Fam107a	7.13	11.94	2E-6	2E-8	Gm31649	6.75	428.15	0.00	0.00	Cyp2b9	4.93	8.61	4E-10	3E-12
Btn1a1	6.51	1500.40	0.00	0.00	Cyp4a10	6.95	10.04	0.00	0.00	Gm1096	6.68	851.54	0.00	0.00	Cyp2b13	4.75	9.18	6E-8	7E-10
Gm5486	6.38	541.42	0.00	0.00	Gm10804	6.45	8.08	1E-10	3E-13	Gm13375	6.25	706.39	0.00	0.00	Rad51b	4.69	7.26	0.00	0.00
Gm1096	6.18	762.00	0.00	0.00	Unc93a	6.34	10.63	2E-4	4E-6	Gpr156	6.17	227.52	0.00	0.00	Cyp4a10	4.59	6.14	0.00	0.00
Gm13375	6.00	761.21	0.00	0.00	Grin1	5.95	16.47	0.03	2E-3	Chd5	5.84	199.55	0.00	0.00	Cyp4a31	4.58	6.13	0.00	0.00
Zbtb26	5.87	404.98	0.00	0.00	Slc10a6	5.88	6.18	2E-9	6E-12	Itgb3	5.80	193.19	0.00	0.00	Cyp4a14	4.20	5.32	0.00	0.00
Epha6	5.83	243.17	0.00	0.00	Rad51b	5.72	6.08	0.00	0.00	Zbtb26	5.74	208.06	0.00	0.00	Acot3	4.11	5.08	0.00	0.00
Itgb3	5.75	308.84	0.00	0.00	Olfml2a	5.39	7.64	8E-4	2E-5	Ccdc169	5.74	206.07	0.00	0.00	Cyp4a32	3.57	4.10	1E-12	7E-15
Ccdc169	5.74	348.59	0.00	0.00	Plin4	5.35	5.51	1E-13	2E-16	Vgll2	5.72	177.26	0.00	0.00	Msmg	3.55	4.07	2E-10	1E-12
Vgll2	5.72	308.58	0.00	0.00	Fkbp5	5.34	6.60	3E-11	6E-14	Inadl	5.71	182.18	0.00	0.00	Cyp2b10	3.41	3.70	3E-4	3E-5
Gm7157	5.68	277.82	0.00	0.00	Usp13	5.34	9.33	0.02	1E-3	Rbm3	5.66	174.76	0.00	0.00	Slc4a9	3.39	4.52	1E-3	2E-4
A3galt2	5.66	372.14	0.00	0.00	Acot3	5.29	5.66	0.00	0.00	Epha6	5.63	119.36	0.00	0.00	Acot5	3.36	3.93	0.00	0.00
Inadl	5.65	301.56	0.00	0.00	Bmper	5.08	4.22	8E-3	3E-4	Camk2a	5.47	325.00	0.00	0.00	Agpat9	3.35	3.66	0.00	0.00
Hivep3	5.60	358.34	0.00	0.00	Gm35911	5.01	5.04	5E-3	2E-4	A3galt2	5.46	265.41	0.00	0.00	Plin4	3.32	3.47	7E-9	7E-11
Gpr156	5.58	350.19	1E-15	2E-16	Olf444	4.97	4.30	0.05	4E-3	Gm5486	5.46	133.88	0.00	0.00	Tmem43	3.30	3.66	0.00	0.00
Cplx1	5.58	213.14	0.00	0.00	Cxcl13	4.95	6.35	3E-4	5E-6	Hivep3	5.41	170.68	0.00	0.00	Mfsd7c	3.15	3.28	0.00	0.00
Gm4278	5.58	1064.90	5E-14	8E-15	Acnat2	4.82	5.19	0.00	0.00	Gm7157	5.39	133.61	0.00	0.00	Slco1a4	3.15	3.33	0.00	0.00
Fgf6	-3.23	-51.72	0.00	0.00	Atp4a	-5.33	-5.63	0.00	0.00	Dvl3	-3.32	-41.02	0.00	0.00	Gm9948	-4.02	-5.60	3E-7	5E-9
Sult4a1	-3.24	-61.80	0.00	0.00	Hmgcs1	-5.35	-4.48	0.00	0.00	Mpp4	-3.33	-53.78	0.00	0.00	Tas2r118	-4.05	-4.71	1E-5	4E-7
Krt85	-3.25	-46.14	0.00	0.00	Gm15998	-5.36	-5.06	0.00	0.00	Gm3373	-3.35	-44.92	0.00	0.00	Fnd3c2	-4.13	-3.90	2E-5	8E-7
Cma2	-3.26	-57.56	0.00	0.00	Gale	-5.44	-5.02	0.00	0.00	Shank1	-3.36	-58.27	0.00	0.00	Dcaf1212	-4.18	-4.44	3E-4	2E-5
Mpp4	-3.27	-68.68	0.00	0.00	Gnat1	-5.47	-4.83	7E-9	3E-11	Gm1305	-3.37	-39.00	0.00	0.00	Ttll6	-4.23	-2.90	2E-4	1E-5
Dvl3	-3.27	-45.29	0.00	0.00	Pnpla3	-5.54	-6.43	1E-6	9E-9	Olf740	-3.40	-58.20	0.00	0.00	Gm6329	-4.24	-4.30	3E-4	2E-5
Gm8709	-3.30	-41.23	0.00	0.00	Thrsp	-5.61	-4.63	4E-12	8E-15	Rasgrf2	-3.40	-61.23	0.00	0.00	Zfp536	-4.25	-3.85	1E-4	6E-6
Foxl2	-3.31	-62.40	0.00	0.00	Slc2a4	-5.87	-7.74	3E-4	5E-6	LOC677525	-3.41	-56.90	0.00	0.00	Aqp8	-4.27	-8.68	0.00	0.00
Ccdc42b	-3.35	-68.52	0.00	0.00	Acly	-5.92	-6.17	2E-9	8E-12	Sult4a1	-3.42	-60.25	0.00	0.00	Cfd	-4.35	-13.21	4E-3	6E-4
Ephb2	-3.40	-53.13	0.00	0.00	Serpina7	-6.08	-5.78	0.00	0.00	Tmem174	-3.46	-53.59	0.00	0.00	Rab9b	-4.36	-61.39	0.07	0.02
Ptk7	-3.43	-62.27	0.00	0.00	Gngt1	-6.30	-7.01	0.00	0.00	BB094273	-3.48	-52.00	0.00	0.00	Egr1	-4.40	-9.00	4E-6	1E-7
Tex22	-3.51	-58.13	0.00	0.00	Adgrf1	-6.50	-7.01	0.00	0.00	Tex22	-3.49	-46.41	0.00	0.00	Crygf	-4.49	-3.39	1E-4	8E-6
Krtap19-4	-3.56	-65.87	0.00	0.00	Acacb	-6.59	-7.67	0.00	0.00	Ccdc42b	-3.52	-64.73	0.00	0.00	Serpina12	-4.81	-12.25	10E-5	5E-6
Olf740	-3.59	-92.04	0.00	0.00	Egr1	-6.76	-7.37	8E-4	2E-5	Krtap19-4	-3.54	-52.64	0.00	0.00	Thrsp	-4.85	-11.92	0.00	0.00
Egr1	-3.61	-47.55	0.00	0.00	Aqp8	-7.01	-6.74	0.00	0.00	Gjc2	-3.55	-64.94	0.00	0.00	Serpina4-ps1	-5.11	-15.42	3E-7	6E-9
Gm14635	-3.62	-93.96	0.00	0.00	Elovl6	-7.34	-8.67	0.00	0.00	Trim43c	-3.56	-60.57	0.00	0.00	Chrna4	-5.36	-14.51	0.00	0.00
Trim43c	-3.67	-91.44	0.00	0.00	Chrna4	-7.66	-13.07	3E-8	1E-10	Dlk2	-3.59	-61.43	0.00	0.00	Fasn	-5.53	-15.96	0.00	0.00
Vmn1r217	-3.69	-77.46	0.00	0.00	Fasn	-8.79	-14.44	0.00	0.00	Lhfp14	-3.64	-63.23	0.00	0.00	Hsd3b5	-5.59	-9.37	8E-5	4E-6
Gjc2	-3.73	-104.13	0.00	0.00	Fabp5	-9.38	-15.12	0.00	0.00	Gm14635	-3.80	-81.42	0.00	0.00	Fabp5	-5.60	-14.00	0.00	0.00
Lhfp14	-3.74	-94.19	0.00	0.00	Moxd1	-10.60	-41.82	7E-7	4E-9	Vmn1r217	-3.84	-86.60	0.00	0.00	Moxd1	-5.89	-25.71	4E-6	1E-7

**Table S3.** Significant upregulated and downregulated liver metabolites in the plasma. Metabolites are sorted by fold changes after significance was determined by  $p \leq 0.05$  and  $FDR \leq 0.3$ .

Metabolites	Fold Changes vs. CTRL			F - value	p- value	FDR -adjust. p- value
	ADF	EX	EXADF			
N-acetylglycine NIST	2.450849	-0.01281	2.405789	92.24348	1.93E-15	3.25E-13
3-hydroxybutyric acid	2.509298	-0.68384	2.232061	77.08875	2.22E-14	1.88E-12
2-hydroxy-2-methylbutanoic acid	0.99572	0.04563	1.240141	31.07033	2.00E-09	1.13E-07
2,3-dihydroxybutanoic acid NIST	1.265758	0.340921	0.889835	22.35978	7.25E-08	3.06E-06
2-hydroxyglutaric acid	0.637893	-0.0569	0.623619	16.3118	1.61E-06	5.43E-05
glycerol-3-galactoside	-1.01678	0.147445	-0.80877	14.94613	3.56E-06	0.000100201
2-deoxtetronic acid NIST	1.096169	-0.07968	0.835316	12.65729	1.49E-05	0.000358943
beta-sitosterol	-0.86166	-0.02971	-0.53487	11.25848	3.82E-05	0.000806613
2-ketoisocaproic acid	0.849218	0.032862	0.630059	10.22205	7.98E-05	0.001498761
pinitol	-1.18857	-0.36579	-1.19717	9.904613	0.000101	0.001702655
methanolphosphate	-0.71061	-0.75686	-0.84899	8.817889	0.00023	0.00352966
N-methylalanine	0.529	-0.10252	0.13082	8.10934	0.000403	0.005395296
hippuric acid	-1.08209	-0.06779	-0.82391	8.072197	0.000415	0.005395296
glycerol-alpha-phosphate	-0.65629	-0.01981	-0.4389	7.720119	0.000553	0.006675247
indole-3-lactate	0.557571	-0.07104	0.290707	7.218672	0.00084	0.009332841
glycine	0.428782	0.029208	0.442678	7.158449	0.000884	0.009332841
dihydrocholesterol	-0.64765	-0.08614	-0.51815	6.86952	0.001131	0.010762331
1-monoolein	-0.30679	-0.3634	-0.87343	6.853431	0.001146	0.010762331
cholesterol	-0.33351	0.032408	-0.14744	6.743382	0.00126	0.011211359
citrulline	-0.01376	-0.20474	-0.57962	6.47607	0.001591	0.013444464
xylose	0.095818	-0.21321	1.497686	5.964802	0.002508	0.019878235
glucose	-0.29888	0.102982	-0.08238	5.929937	0.002588	0.019878235
2-hydroxybutanoic acid	0.56843	-0.13366	0.511111	5.819293	0.002861	0.021019832
tryptophan	0.291358	-0.07121	0.150552	5.433872	0.004076	0.028703575
alanine	-0.33363	0.12981	-0.17732	5.265628	0.004769	0.031369387
conduritol-beta-epoxide	-0.42853	-0.06764	-0.23355	5.252911	0.004826	0.031369387
threonic acid	-0.04572	0.169061	0.546101	5.078617	0.005687	0.033239481
lyxose	0.066977	-0.14862	1.144785	5.076739	0.005698	0.033239481
lysine	-0.34566	-0.06616	-0.40347	4.970304	0.006304	0.03550976

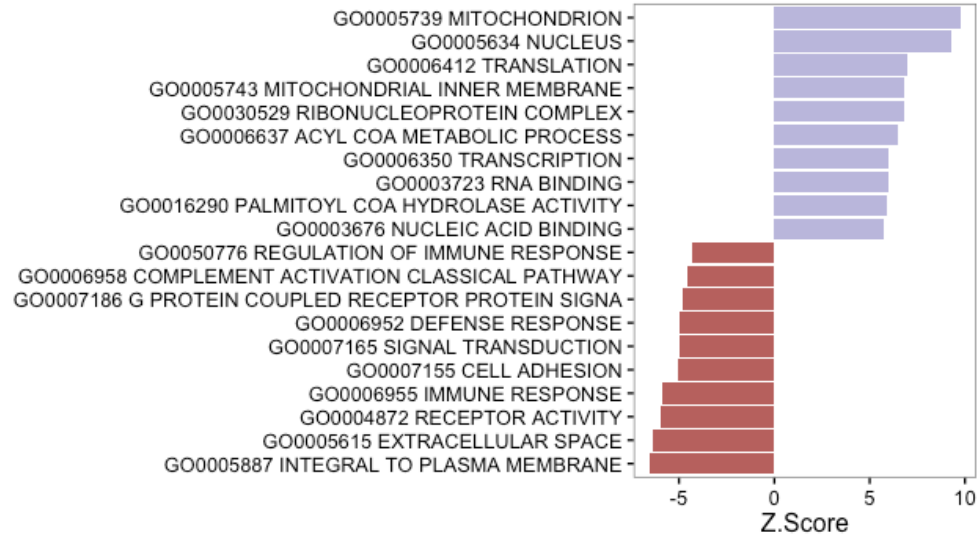


**Table S4.** Primers used in RT-qPCR analyses.

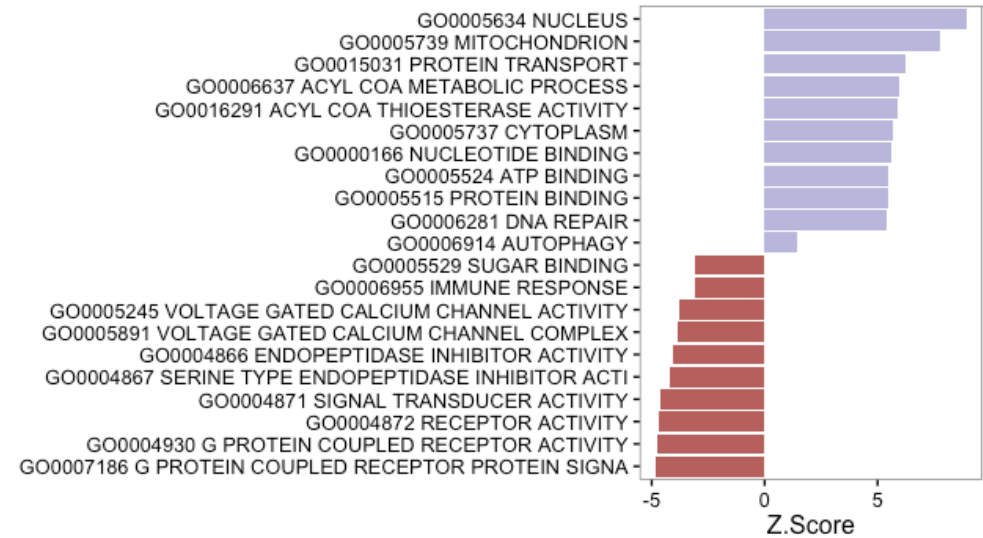
	<b>Forward Sequence</b>	<b>Reverse Sequence</b>
ACADL	CGCGTCTAGAAACTCCTTCTG	CCAGACCTCTCTACTCACTTCT
Actin	TATTGGCAACGAGCGG	CGGATGTCAACGTAC
B2M	GGAAGCCGAACATACTGAACTG	GAAAGACCAGTCCTTGCTGAAG
FASN	TCGTTTCATCAGGCCACTATAC	ATAACTTGGAGTTCGGGTCTTC
HPRT	GACCTCTCGAAGTGTTGGATAC	TCAACAGGACTCCTCGTATTTG
LIPE	CATCAACCACTGTGAGGGTAAG	TTCCCGTAGGTCATAGGAGATG
NRF1	TTCATGGACCCAGGCATTAC	GTCTGTGATGGTACGAGATGAG
NRF2	ATGACTCTGACTCTGGCATTTC	GCACTATCTAGCTCCTCCATTTC
PDK4	GGATTACTGACCGCCTCTTTAG	ATGATAGCGTCTGTCCCATAAC
PGC-1 $\alpha$	AGCACTCAGAACCATGCAGCAAAC	TTTGGTGTGAGGAGGGTCATCGTT
PPAR- $\alpha$	CATACAGGAGAGCAGGGATTG	CCATTTCCGGTAGCAGGTAGTC
SIRT1	GTGAGACCAGTAGCACTAATTCC	CACCTAGCCTATGACACAACCTC
TFAM	AGGGCCTACTCATCAAGAAATG	ACACACAACAAACCCAAGAAAG

**Figure S1.** Top up and downregulated GO pathways in the soleus muscle.

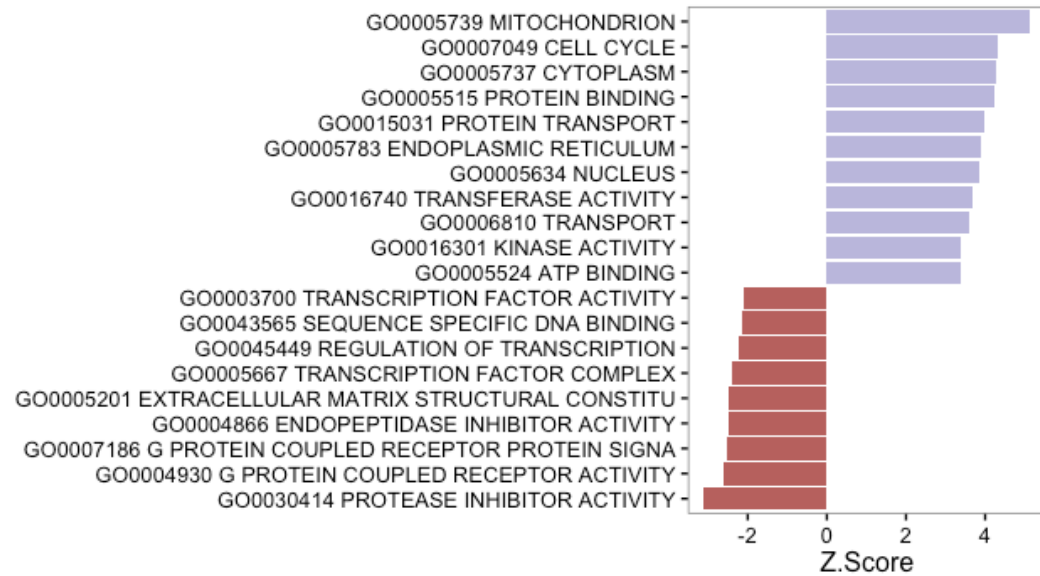
**ADF vs CTRL**



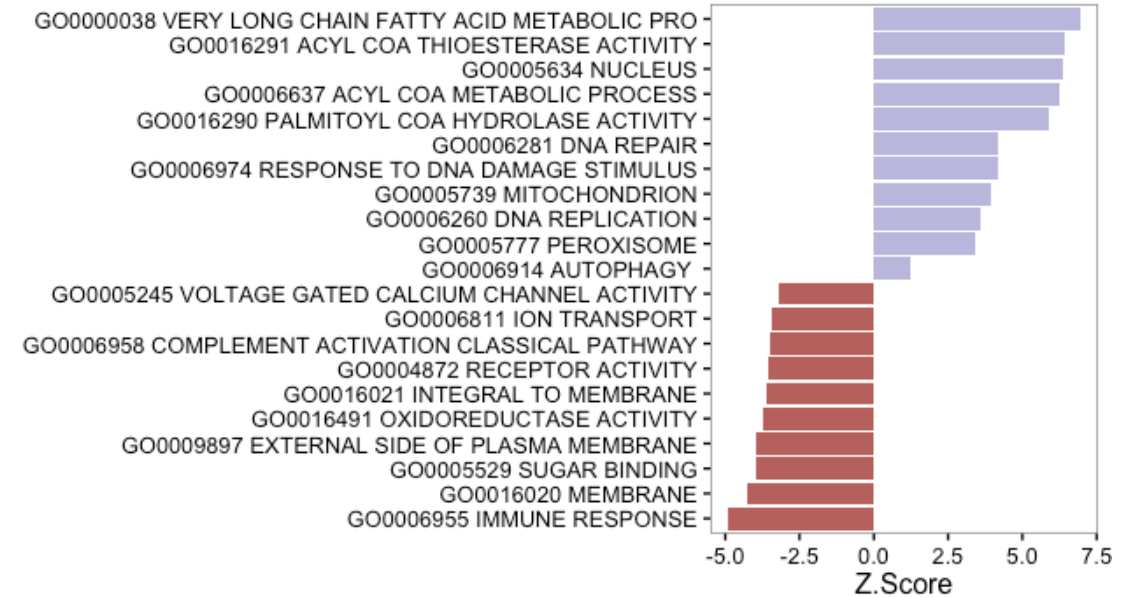
**EXADF vs CTRL**



**EX vs CTRL**

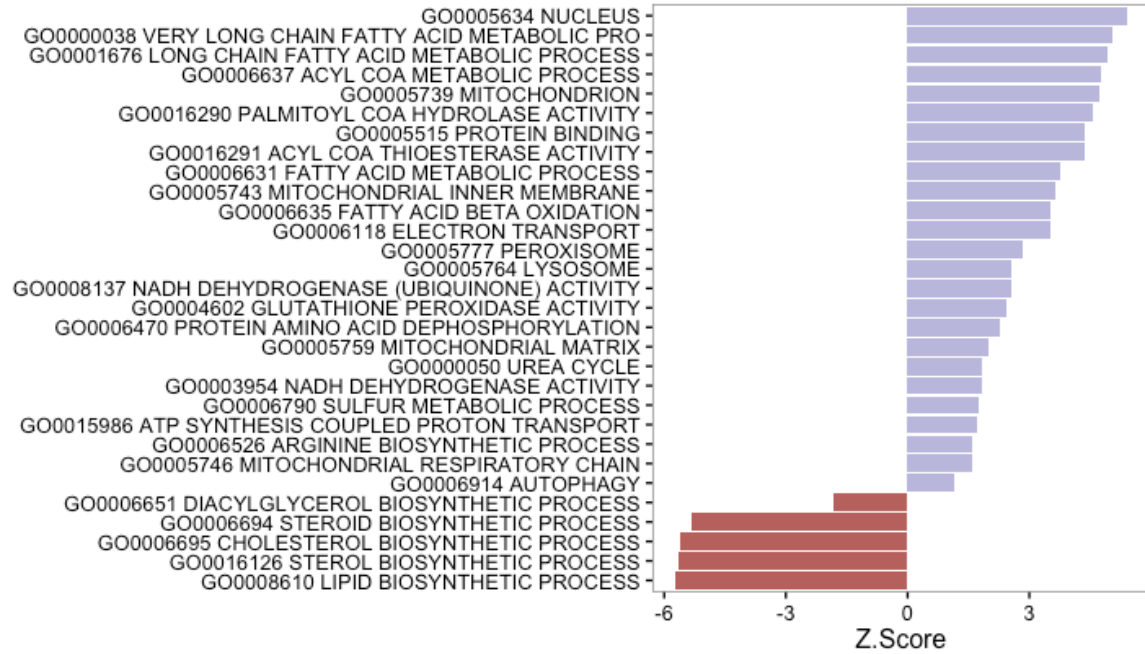


**EXADF vs EX**

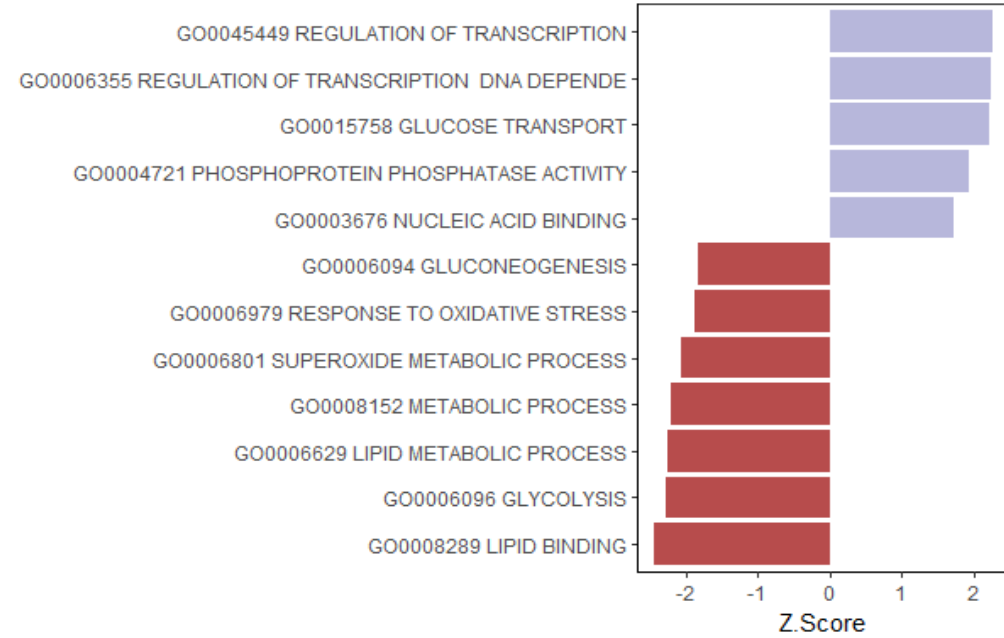


**Figure S2.** Top up and downregulated GO pathways in the liver.

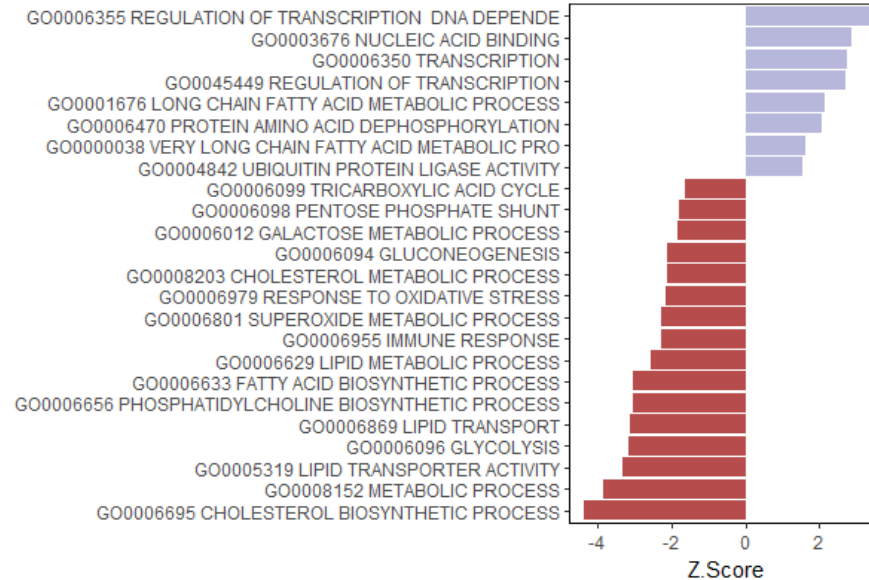
**ADF vs CTRL**



**EX vs CTRL**



**EXADF vs CTRL**



**Figure S3.** Immunoblots showing levels of OXPHOS proteins in soleus tissue.

