

Table S1: List of all altered proteins in control and shellfish poisoning model groups.

NO.	Genename	Name	P-value	fold-change
1	Ezr	Ezrin	0.02	1.75
		Sodium channel protein type 1 subunit		
2	Scn1a	alpha	0.05	1.27
3	Psap	Prosaposin	0.01	0.79
4	Park7	Parkinson disease protein 7	0.03	0.79
		Guanine nucleotide-binding protein G(i)		
5	Gnai3	subunit alpha-3	0.02	1.26
6	St13	Hsc70-interacting protein	0.01	0.81
7	Myl6	Myosin light polypeptide 6	0.01	0.81
8	Clu	Clusterin	0.01	1.59
9	Tmod1	Tropomodulin-1	0.05	1.27
10	Hspe1	10 kDa heat shock protein, mitochondrial	0.02	0.83
11	Thns1l	Threonine synthase-like 1	0.04	1.28
12	Cmpk2	UMP-CMP kinase 2, mitochondrial	0.04	1.35
13	Grik2	Glutamate receptor ionotropic, kainate 2	0.05	0.80
		Sodium-coupled neutral amino acid		
14	Slc38a3	transporter 3	0.03	1.36
		FHF complex subunit HOOK interacting		
15	Fhip1b	protein 1B	0.03	1.29
16	Nagk	N-acetyl-D-glucosamine kinase	0.04	1.27
17	Fmr1	Synaptic functional regulator FMR1	0.03	1.36
		Guanylate cyclase soluble subunit		
18	Gucyl1a1	alpha-1	0.04	1.21
19	Slc23a2	Solute carrier family 23 member 2	0.04	1.38
20	Nutf2	Nuclear transport factor 2	0.05	0.74
21	Pycr3	Pyrroline-5-carboxylate reductase 3	0.00	0.73
22	C5	Complement C5	0.03	1.84
23	Ociad1	OCIA domain-containing protein 1	0.03	0.83
24	Commd7	COMM domain-containing protein 7	0.04	1.26
25	Marcks1l	MARCKS-related protein	0.01	0.71
26	Sh3bp1	SH3 domain-binding protein 1	0.03	1.27
		Sprouty-related, EVH1		
27	Spred1	domain-containing protein 1	0.01	1.25
		Large neutral amino acids transporter		
28	Slc7a5	small subunit 1	0.04	1.23
29	Tns3	Tensin-3 OS=Mus musculus	0.04	0.72
30	Celf1	CUGBP Elav-like family member 1	0.02	0.76
		Rho guanine nucleotide exchange factor		
31	Arhgef1	1	0.02	1.20
32	Gstt1	Glutathione S-transferase theta-1	0.02	0.59
33	Pigk	GPI-anchor transamidase	0.00	1.37
34	Dtnb	Dystrobrevin beta	0.00	1.40

35	Glmn	Glomulin	0.03	1.27
36	Vtn	Vitronectin	0.04	1.78
		Tumor necrosis factor alpha-induced		
37	Tnfaip8	protein 8	0.02	0.80
38	Btf3	Transcription factor BTF3	0.01	0.71
39	Adcy5	Adenylate cyclase type 5	0.05	1.31
		Membrane-associated progesterone		
40	Pgrmc2	receptor component 2	0.03	0.79
41	Igsf9b	Protein turtle homolog B	0.04	1.20
42	Plxna3	Plexin-A3	0.01	1.60
43	Rps28	40S ribosomal protein S28	0.03	1.51
		SRA stem-loop-interacting RNA-binding		
44	Slirp	protein, mitochondrial	0.00	0.74
45	Tub	Tubby protein	0.05	1.24
		Volume-regulated anion channel subunit		
46	Lrrc8c	LRRC8C	0.05	1.31
47	Sphk2	Sphingosine kinase 2	0.01	1.32
		Broad substrate specificity ATP-binding		
48	Abcg2	cassette transporter ABCG2	0.04	1.42
49	Syt12	Synaptotagmin-like protein 2	0.03	1.80
50	Ppp1r11	E3 ubiquitin-protein ligase PPP1R11	0.02	0.62
		Single-stranded DNA-binding protein,		
51	Ssbp1	mitochondrial	0.04	0.80
		Methylthioribulose-1-phosphate		
52	Apip	dehydratase	0.02	0.80
		Complement C1q subcomponent subunit		
53	C1qb	B	0.01	1.43
54	Chmp1a	Charged multivesicular body protein 1a	0.05	0.76
55	Pon1	Serum paraoxonase/arylesterase 1	0.05	1.56
56	Eef1akmt1	EEF1A lysine methyltransferase 1	0.05	0.77
		Insulin-like growth factor-binding		
57	Igfals	protein complex acid labile subunit	0.03	1.26
58	Bin2	Bridging integrator 2	0.04	1.52
		Magnesium transporter MRS2 homolog,		
59	Mrs2	mitochondrial	0.01	1.45
60	Sec14l1	SEC14-like protein 1	0.05	1.20
61	Fads2	Acyl-CoA 6-desaturase	0.00	1.25
		Probable E3 ubiquitin-protein ligase		
62	Dtx3	DTX3	0.01	1.28
		Cytoplasmic phosphatidylinositol		
63	Pitpnc1	transfer protein 1	0.04	1.37
		Prostaglandin F2 receptor negative		
64	Ptgfrn	regulator	0.04	1.35
65	Ttl	Tubulin--tyrosine ligase	0.04	1.31

66	Tmem115	Transmembrane protein 115	0.05	1.29
67	Dop1a	Protein dopey-1	0.00	1.29
68	Naa30	N-alpha-acetyltransferase 30	0.03	1.31
		SWI/SNF-related matrix-associated actin-dependent regulator of chromatin		
69	Smarb1	subfamily B member 1	0.04	0.81
		G protein-activated inward rectifier		
70	Kcnj9	potassium channel 3	0.02	1.40
71	Tdrd3	Tudor domain-containing protein 3	0.04	1.20
72	Prrc2b	Protein PRRC2B	0.01	1.35
		Thioredoxin domain-containing protein		
73	Txndc12	12	0.02	0.74
74	Uckl1	Uridine-cytidine kinase-like 1	0.01	1.26
75	Slitrk1	SLIT and NTRK-like protein 1	0.05	1.47
		Succinate dehydrogenase assembly factor		
76	Sdhaf2	2, mitochondrial	0.02	1.38
77	Tyro3	Tyrosine-protein kinase receptor TYRO3	0.04	1.64
78	Ulk2	Serine/threonine-protein kinase ULK2	0.01	1.37
		ATP-sensitive inward rectifier potassium		
79	Kcnj11	channel 11	0.00	1.45
		Store-operated calcium entry-associated		
80	Saraf	regulatory factor	0.04	1.35
81	Ap4e1	AP-4 complex subunit epsilon-1	0.03	1.60
82	Sgpl1	Sphingosine-1-phosphate lyase 1	0.01	0.73
		Mitochondrial import receptor subunit		
83	Tomm5	TOM5 homolog	0.00	0.82
		Selenide, water dikinase 2 OS=Mus		
84	Sephs2	musculus	0.04	0.68
		Glutamyl-tRNA(Gln) amidotransferase		
85	Gatb	subunit B, mitochondrial	0.01	1.26
		BTB/POZ domain-containing protein		
86	Kctd3	KCTD3	0.01	1.23
87	Plpp1	Phospholipid phosphatase 1	0.01	1.98
88	Slc17a5	Sialin	0.01	1.25
		KN motif and ankyrin repeat		
89	Kank3	domain-containing protein 3	0.04	1.38
90	Pet117	Protein PET117 homolog, mitochondrial	0.01	1.26
91	Efnb3	Ephrin-B3	0.05	1.39
92	Lpp	Lipoma-preferred partner homolog	0.05	0.67
93	Dlg5	Disks large homolog 5	0.02	1.21
94	Epm2a	Laforin	0.03	1.25
95	Mcoln1	Mucolipin-1	0.03	1.21
96	Slitrk6	SLIT and NTRK-like protein 6	0.04	1.32
97	Fbxo21	F-box only protein 21	0.05	1.39

		Aspartate beta-hydroxylase		
98	Asphd1	domain-containing protein 1	0.01	1.62
99	Kin	DNA/RNA-binding protein KIN17	0.00	0.64
100	Mxra7	Matrix-remodeling-associated protein 7	0.02	1.86
101	Mpc1	Mitochondrial pyruvate carrier 1	0.02	0.70
102	Serf1	Small EDRK-rich factor 1	0.04	0.66
103	Wdr70	WD repeat-containing protein 70	0.00	0.73
104	Disp2	Protein dispatched homolog 2	0.02	1.37
105	Romo1	Reactive oxygen species modulator 1	0.03	0.74
		Cytokine-dependent hematopoietic cell		
106	Clnk	linker	0.03	0.82
		Ankyrin repeat domain-containing		
107	Ankrd63	protein 63	0.03	1.40
		Interferon-induced protein with		
108	Ifit3	tetratricopeptide repeats 3	0.05	1.20
109	Asb6	Ankyrin repeat and SOCS box protein 6	0.03	1.45
		Sodium-dependent		
110	Mfsd2a	lysophosphatidylcholine symporter 1	0.03	1.29
111	Tbc1d14	TBC1 domain family member 14	0.03	1.43
		CUB and sushi domain-containing		
112	Csmd1	protein 1	0.03	1.27
		Voltage-gated potassium channel subunit		
113	Kcnab3	beta-3	0.02	1.58
114	Cox17	Cytochrome c oxidase copper chaperone	0.02	0.68
		4-galactosyl-N-acetylglucosaminide		
115	Fut9	3-alpha-L-fucosyltransferase 9	0.02	1.35
116	Sel1l3	Protein sel-1 homolog 3	0.03	1.24
117	Flg2	Filaggrin-2	0.05	1.87
		Coordinator of PRMT5 and		
118	Coprs	differentiation stimulator	0.01	1.24
119	Casp4	Caspase-4	0.04	1.42
120	Tbc1d22a	TBC1 domain family member 22A	0.01	2.31
		Alpha-1,3-mannosyl-glycoprotein		
		4-beta-N-acetylglucosaminyltransferase		
121	Mgat4c	C	0.04	1.61
122	Rbm42	RNA-binding protein 42	0.04	0.77
		Mitochondrial import inner membrane		
123	Timm23	translocase subunit Tim23	0.00	1.30