

SUPPLEMENTAL FIGURES:

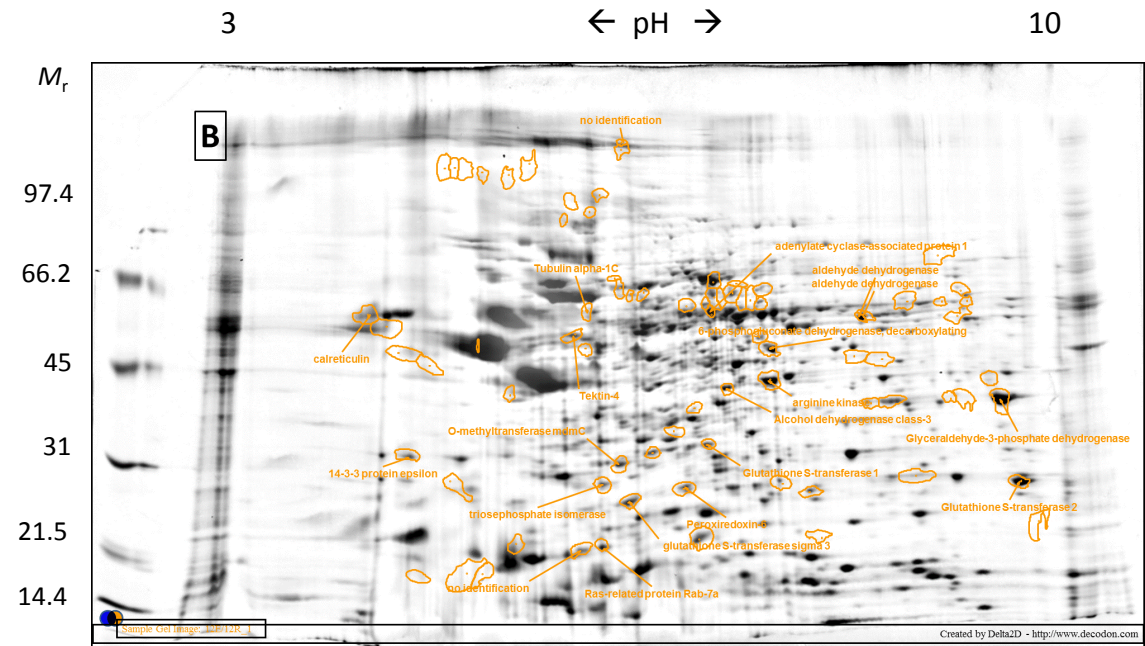
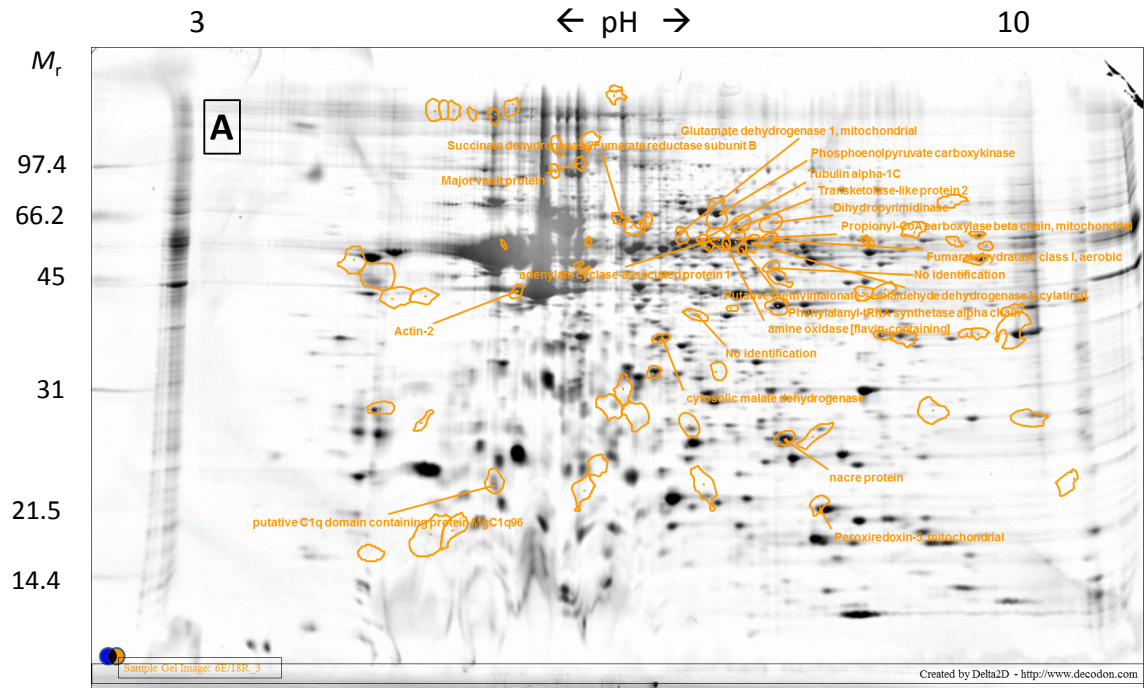
Supplemental Figure 1. Representative two-dimensional SDS-PAGE gel images from each of the four treatment groups: 6E/18R **(A)**, 12E/12R **(B)**, 18E/6R **(C)** and control **(D)**.

Proteins are separated by isoelectric point (pI) (pH range 3 – 10) along the horizontal dimension and by relative molecular mass (M_r ; $\times 10^3$) along the vertical dimension.

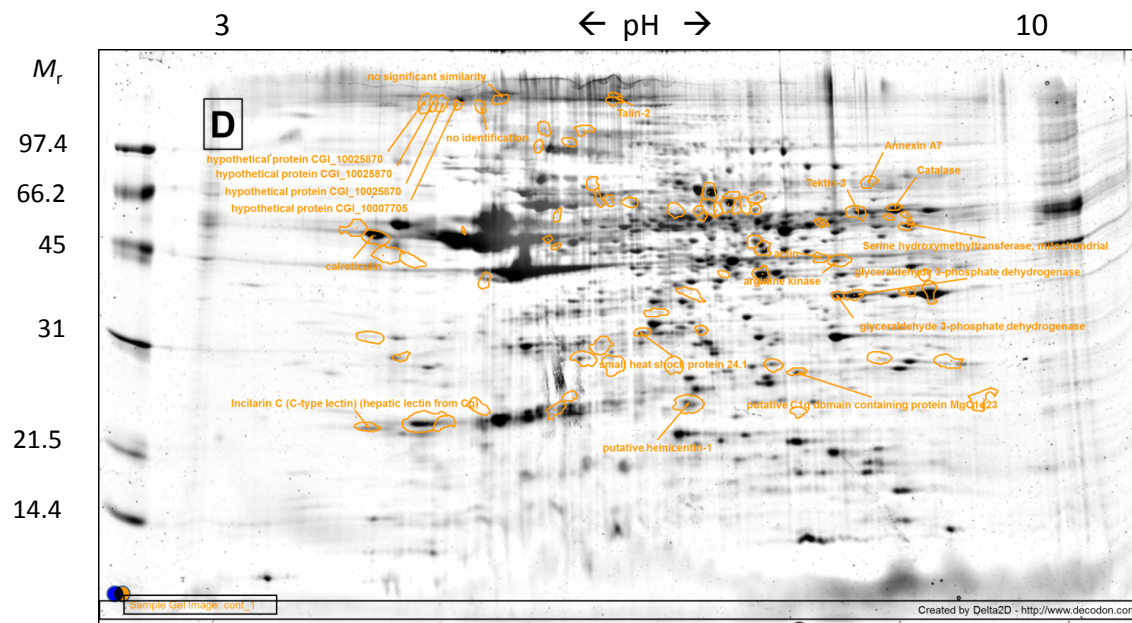
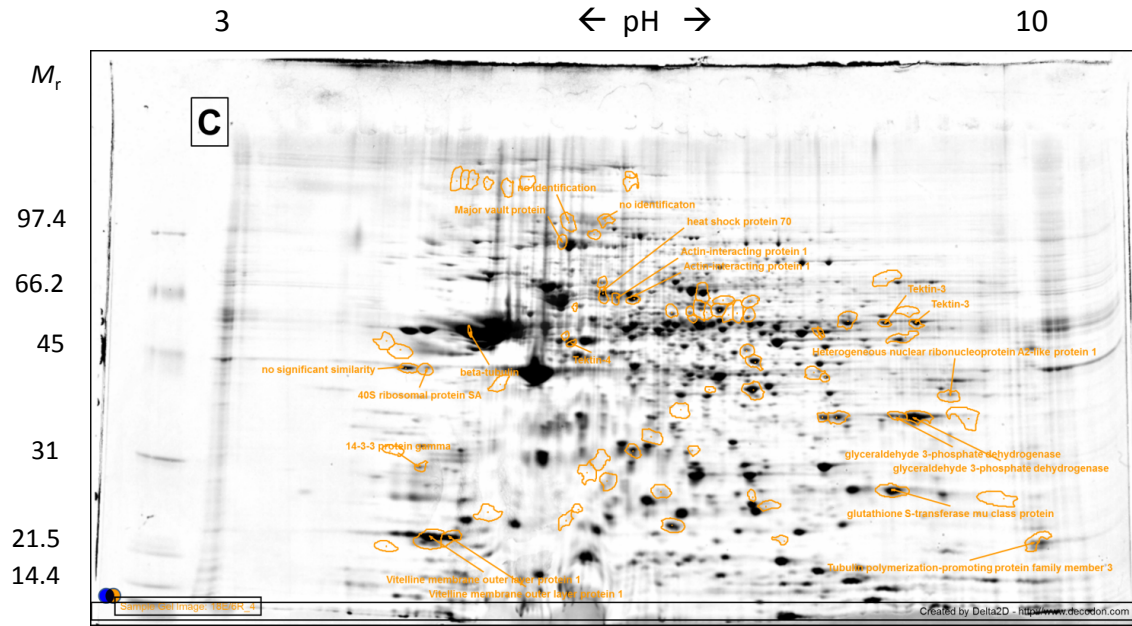
Biorad low range molecular weight standards were used for the ladder. The eighty spots selected for identification are outlined on each gel, and those proteins with the

highest loading factors for the respective group are labeled. See Table 1 and

Supplemental Table 1 for further information about identified proteins.



Supplemental Figure 1



Supplemental Figure 1

Supplemental Table 1B. Protein identifications (using MS/MS) of spots with high positive component loading values along PC2 (Figure 1), corresponding to treatment 12E/12R. A Mascot score > 45 indicates a significant match, with P < 0.05.

Delta2D spot ID	Loading (PC2)	# of EST matches	Mascot score	# of peptide matches	Genbank accession #	E value	Species providing match	Protein ID
190	2.1966	4	313	11	gi 297341134	5.00E-87	<i>C. gigas</i>	adenylate cyclase-associated protein 1
90	2.19315	1	218	6	gi 405971996	1.00E-39	<i>C. gigas</i>	Glutathione S-transferase 2
229	2.17843	3	474	10	gi 8131883	0	<i>Placopecten magellanicus</i>	aldehyde dehydrogenase
25	2.08739	2	429	10	gi 405972460	2.00E-110	<i>C. gigas</i>	Alcohol dehydrogenase class-3
150	2.08357	3	209	5	gi 405976318	3e-137	<i>C. gigas</i>	6-phosphogluconate dehydrogenase, decarboxylating
128	2.07798	3	267	9	gi 148717307	3E-175	<i>C. gigas</i>	calreticulin
171	2.06763	2	166	4	gi 193878315	1.00E-70	<i>Chlamys farreri</i>	Glutathione S-transferase 1
88	2.05665	2	173	6	gi 405954307	6.00E-128	<i>C. gigas</i>	Ras-related protein Rab-7a
142	2.03273	1	329	7	gi 405963584	1.00E-134	<i>C. gigas</i>	14-3-3 protein epsilon
215	1.98457	3	767	22	gi 405957058	0.00E+00	<i>C. gigas</i>	Glyceraldehyde-3-phosphate dehydrogenase
77	1.92374	0	NA	NA	NA	NA	NA	NA
72	1.81408	0	NA	NA	NA	NA	NA	NA
231	1.79468	2	288	8	gi 405965638	0	<i>C. gigas</i>	Tubulin alpha-1C
257	1.76302	3	192	6	gi 402227995	4.00E-49	<i>M. galloprovincialis</i>	glutathione S-transferase sigma 3
68	1.71781	6	679	17	gi 405967050	8E-146	<i>Saccostrea kegaki</i>	Tektin-4
28	1.69084	3	606	14	gi 8131883	0	<i>P. magellanicus</i>	aldehyde dehydrogenase
96	1.687	2	189	3	gi 333449422	6.00E-90	<i>C. ariakensis</i>	triosephosphate isomerase
306	1.68581	3	64	2	gi 126697314	7e-100	<i>Haliotis discus</i>	peroxiredoxin 6**
305	1.68184	2	1208	36	gi 301341836	2.00E-177	<i>Conus novaehollandiae</i>	arginine kinase
106	1.62479	3	454	15	gi 405953767	6.00E-50	<i>C. gigas</i>	O-methyltransferase mdmC

