

APPENDIX D

CHAPTER 5 SUPPLEMENTAL INFORMATION

D.1 Supplemental Figures

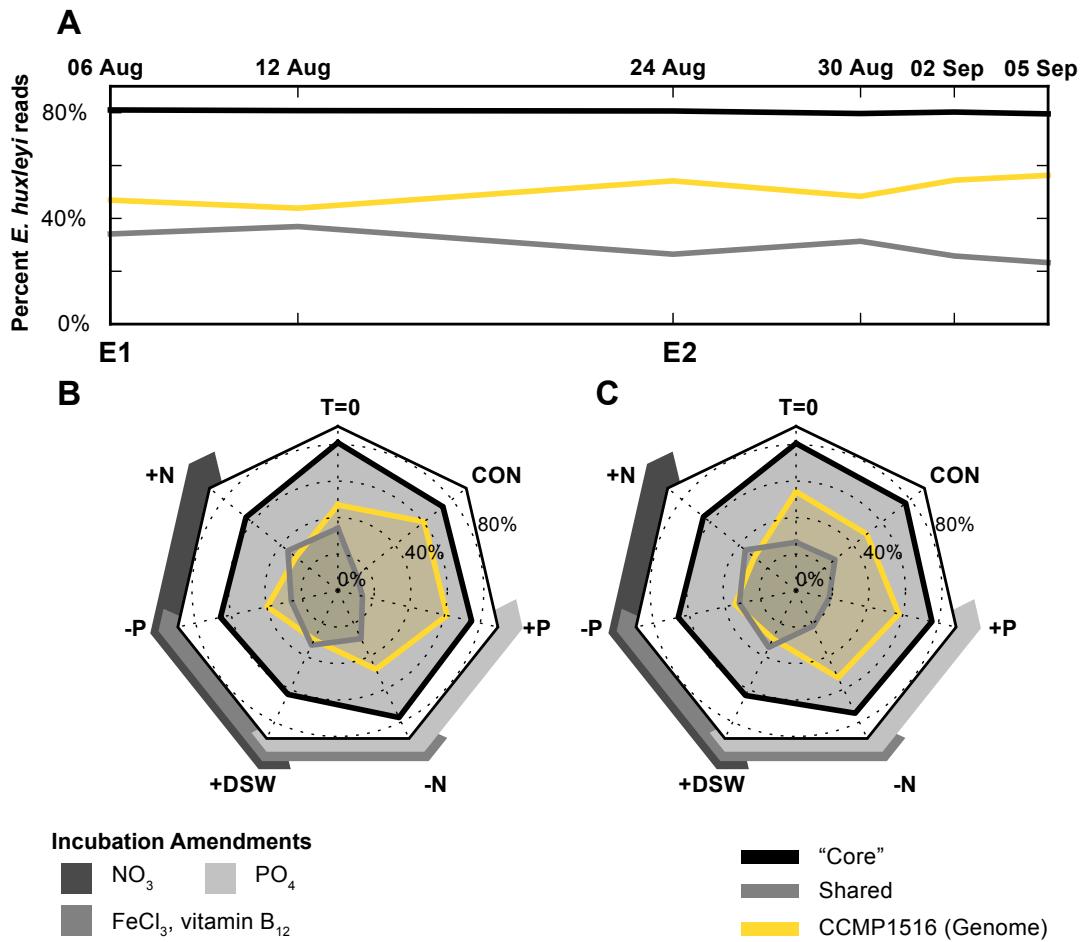


Figure D.1: The relative expression of 'core', shared, and CCMP1516-specific transcripts across time and in incubation experiments. The percentage of all mapped reads corresponding to the genes considered to be 'core' by Read et al. (2013) (black), found to be shared across the five strains used in this study (grey), or originally considered to be unique to CCMP1516 are plotted for each *in situ* sample (A) and in each of the two replicated incubation experiments, E1 (B) and E2 (C). Nutrients added to incubation experiments are indicated on the exterior of the radar plots, indicating the addition of nitrate, phosphate, trace metals, and vitamins.

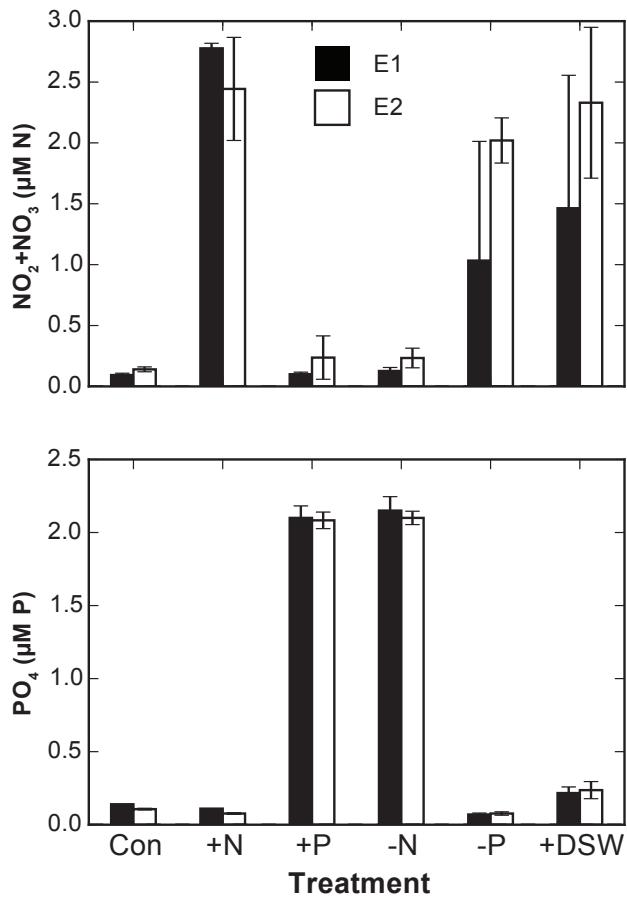


Figure D.2: Inorganic nitrogen and phosphorus concentrations at the point of RNA sampling (7 days post-inoculation) for each of the six treatments in E1 and E2, averaged across triplicate bottles ($n=3$).

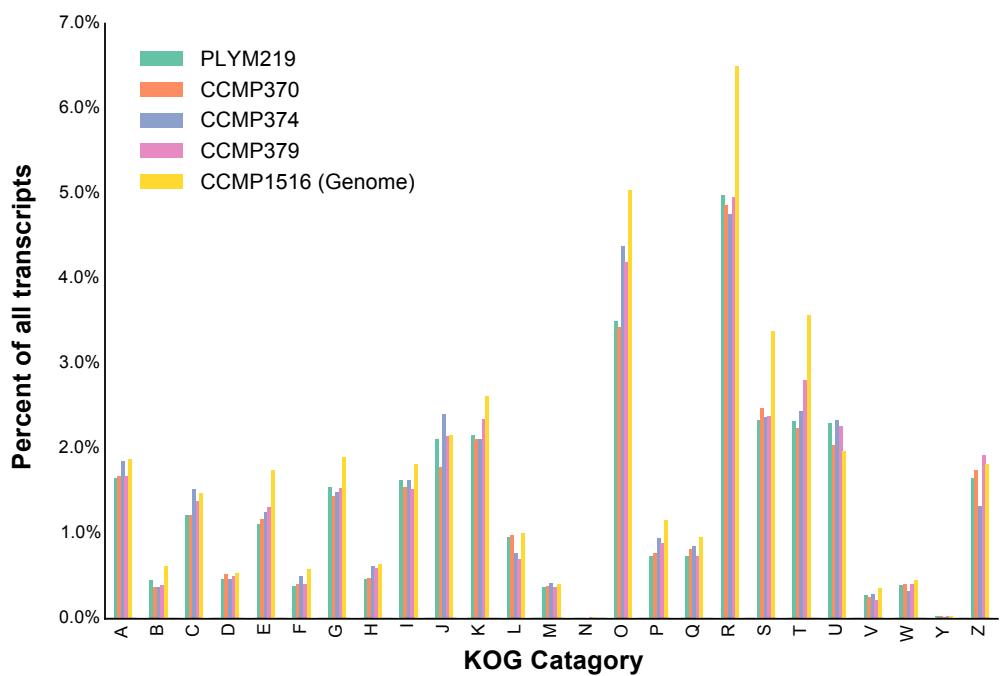


Figure D.3: The percent of genes falling into each of the KOG classes for each of the five strains.

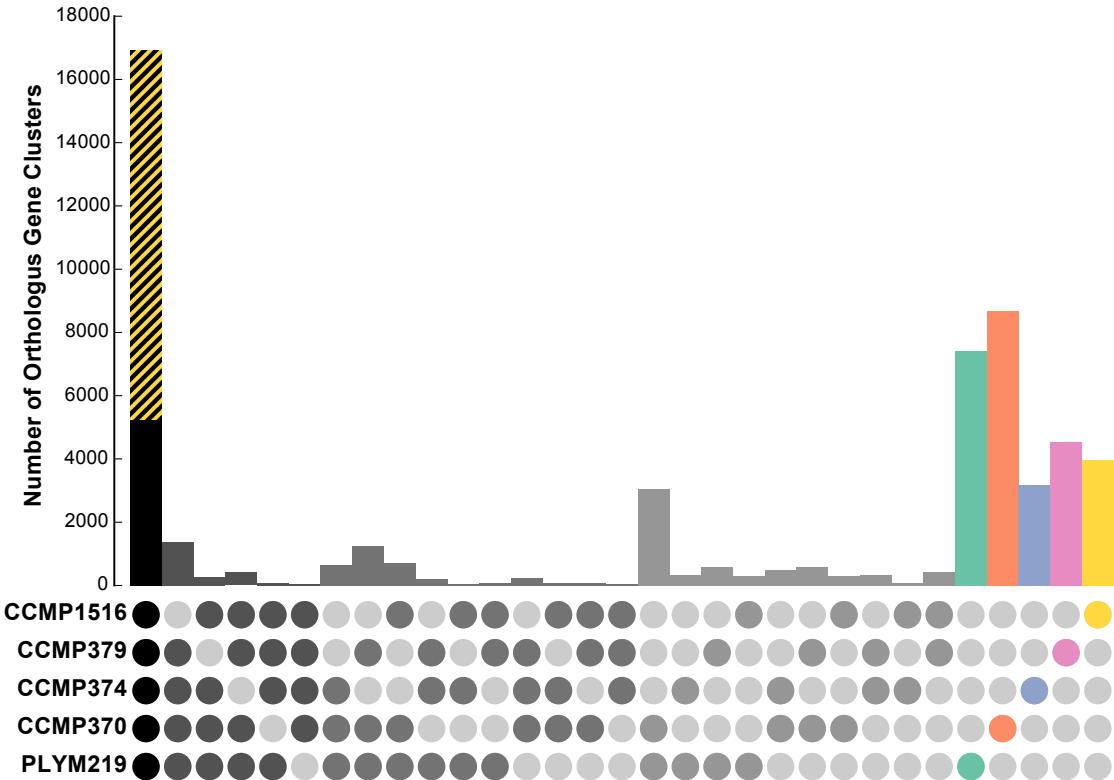


Figure D.4: The number of orthologous groups falling into each of the possible strain sets across the five strains surveyed. The relative strain membership is depicted in a scatter plot along the x-axis ranging from the first row of 'shared' or 'core' genes, common to all strains (black), through variable memberships across some but not all strains, to sets comprised of only one strain (colored). Genes common to all strains in this study are shown in black. Genes identified as 'core' in CCMP1516, the genome strain, by Read et al. (2013), but that were not identified in some or all of the other strains were added to the 'shared' set and are indicated in yellow hatching.

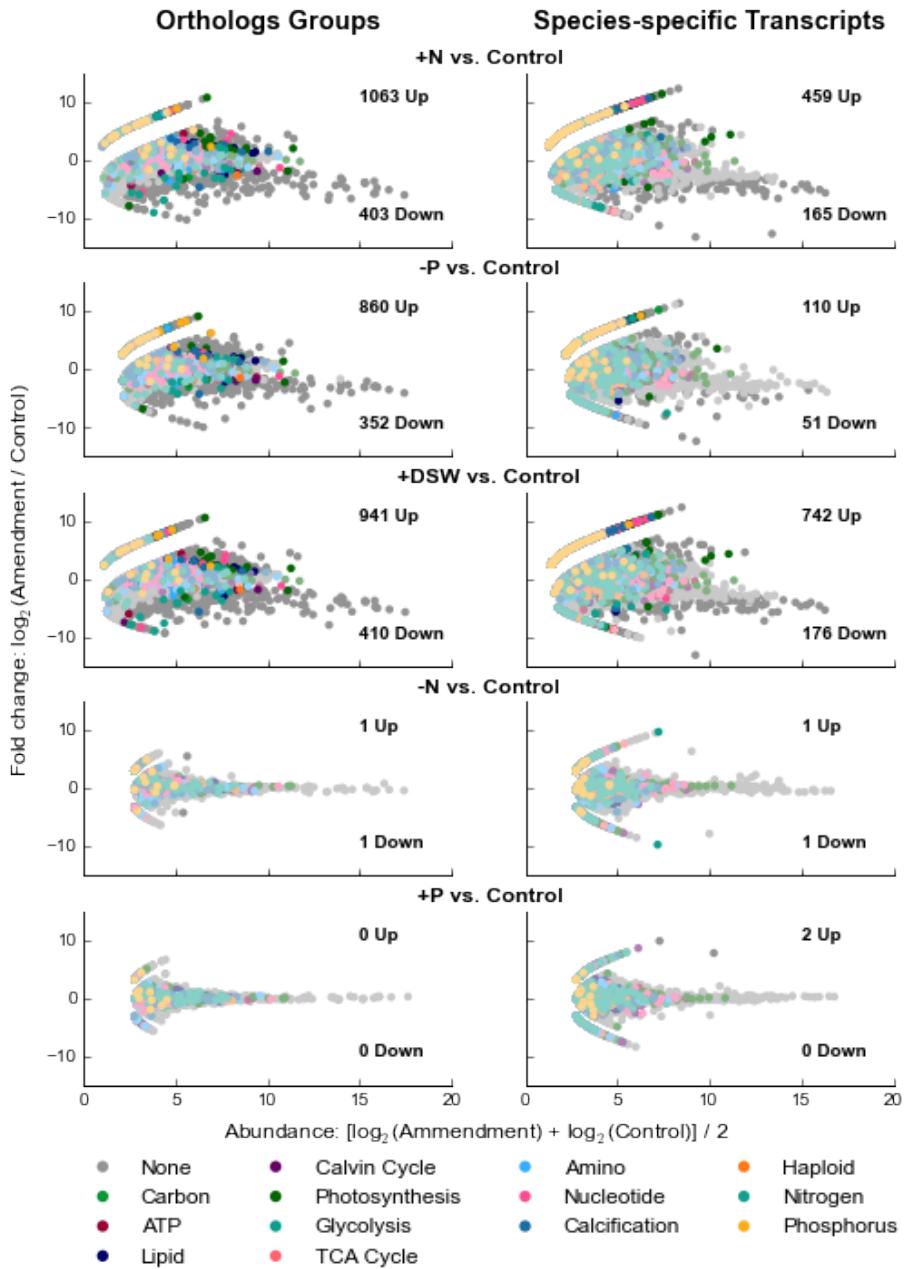


Figure D.5: Log normalized fold change plotted against log normalized average abundance for each of the five amended treatments compared to the no-addition control. edgeR was used to assess the average abundance and log fold change for each of the orthologous groups (left column) and strain-specific transcripts (right column). Genes are colored by generalized metabolic function. The intensity of the color indicates significance, with opaque indicating significance ($\text{FDR} < 0.05$).

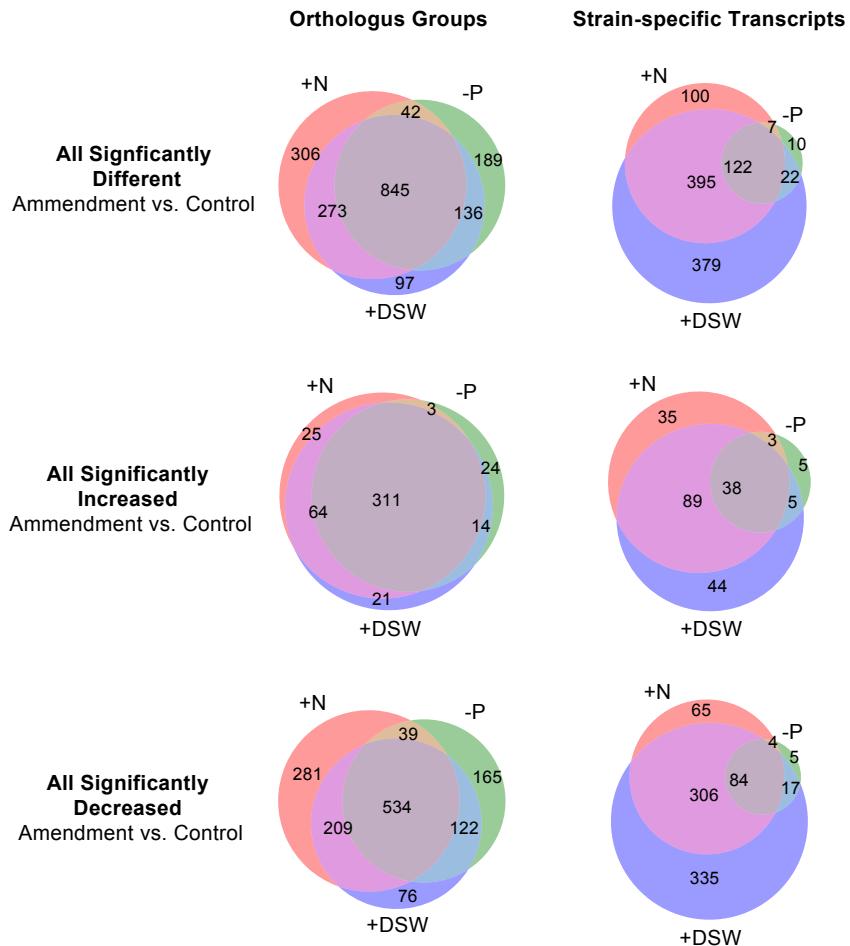


Figure D.6: Weighted Venn diagrams of significantly (FDR < 0.05) different, increased, and decreased orthologous groups and species-specific transcripts across each of the amendments to which N was added (+N, -P, +DSW).

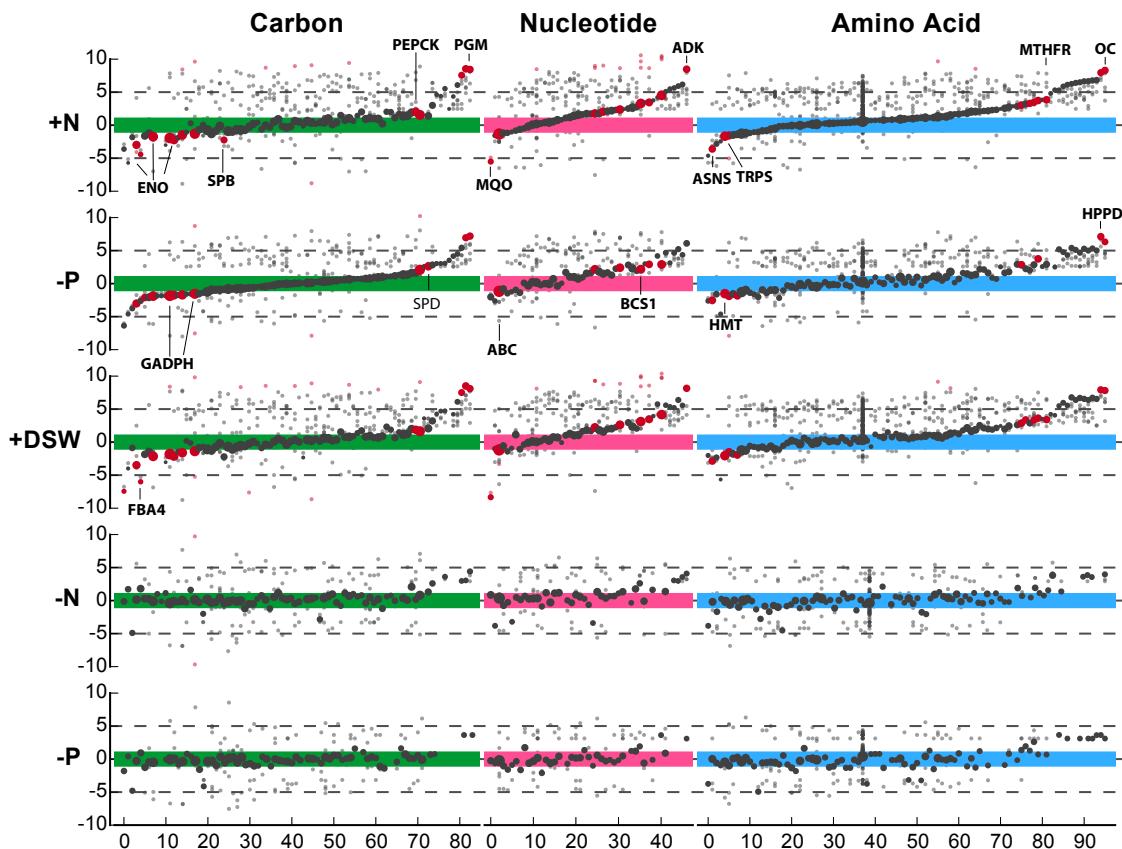


Figure D.7: Fold change of genes associated with carbon, nucleotide, and amino acid metabolism across each of the incubation amendments compared to the no addition control. The log fold change of orthologous groups associated with carbon, nucleotide, and amino acid metabolism was assessed with edgeR across the five amended incubations compared to the no addition control are plotted in opaque grey. The size of the orthologous group marker is proportionate to the log of the mean abundance across the two treatments. Orthologous groups are that are significantly differentially abundant ($FDR < 0.05$) are plotted highlighted in red. Individual transcripts within an orthologous group are plotted in light grey or red to indicate significance of fold change. Genes of interest are labeled with abbreviations as follows, labels in bold indicate significant regulation in two or more conditions.

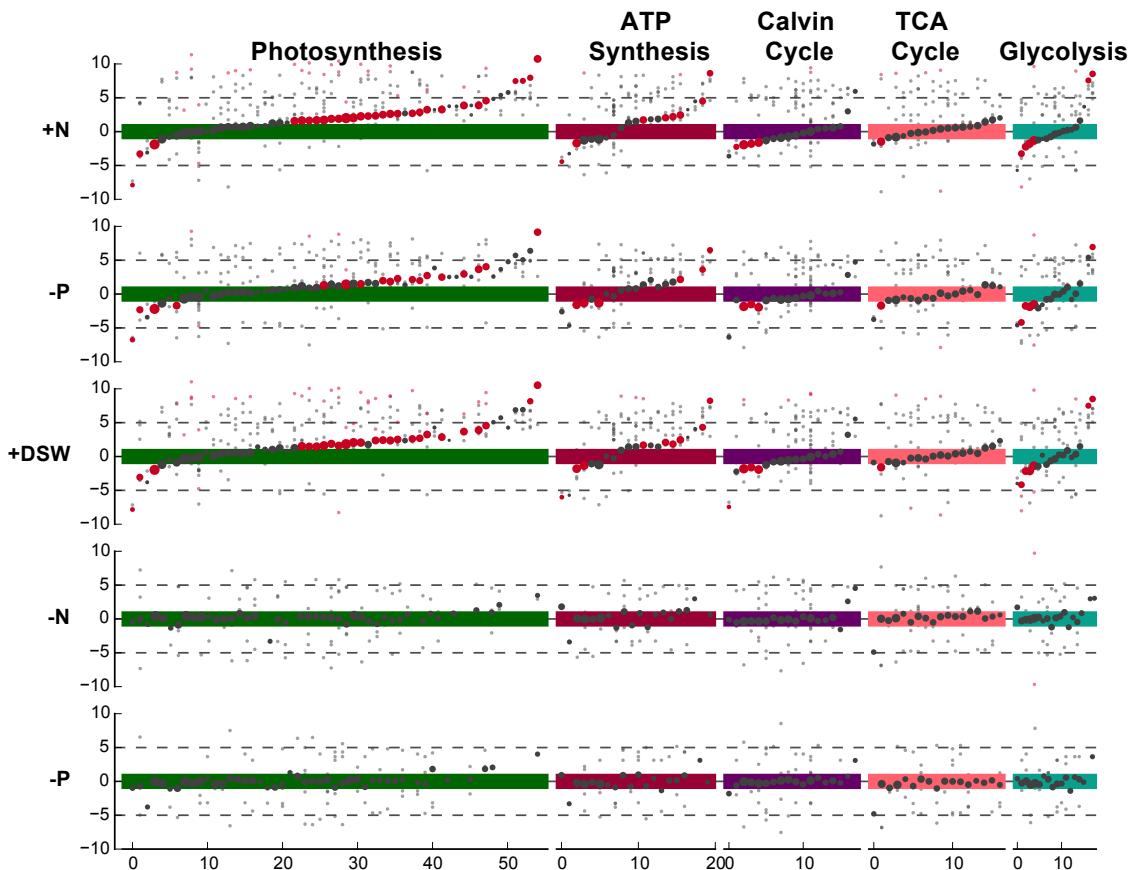


Figure D.8: Fold change of genes associated with photosynthesis, ATP synthesis, Calvin cycle, TCA cycle, and glycolysis across each of the incubation amendments compared to the no addition control. The log fold change of orthologous groups associated with photosynthesis, ATP synthesis, Calvin cycle, TCA cycle, and glycolysis was assessed with edgeR across the five amended incubations compared to the no addition control are plotted in opaque grey. The size of the orthologous group marker is proportionate to the log of the mean abundance across the two treatments. Orthologous groups are those that are significantly differentially abundant ($FDR < 0.05$) are plotted highlighted in red. Individual transcripts within an orthologous group are plotted in light grey or red to indicate significance of fold change. Genes of interest are labeled with abbreviations as follows, labels in bold indicate significant regulation in two or more conditions.

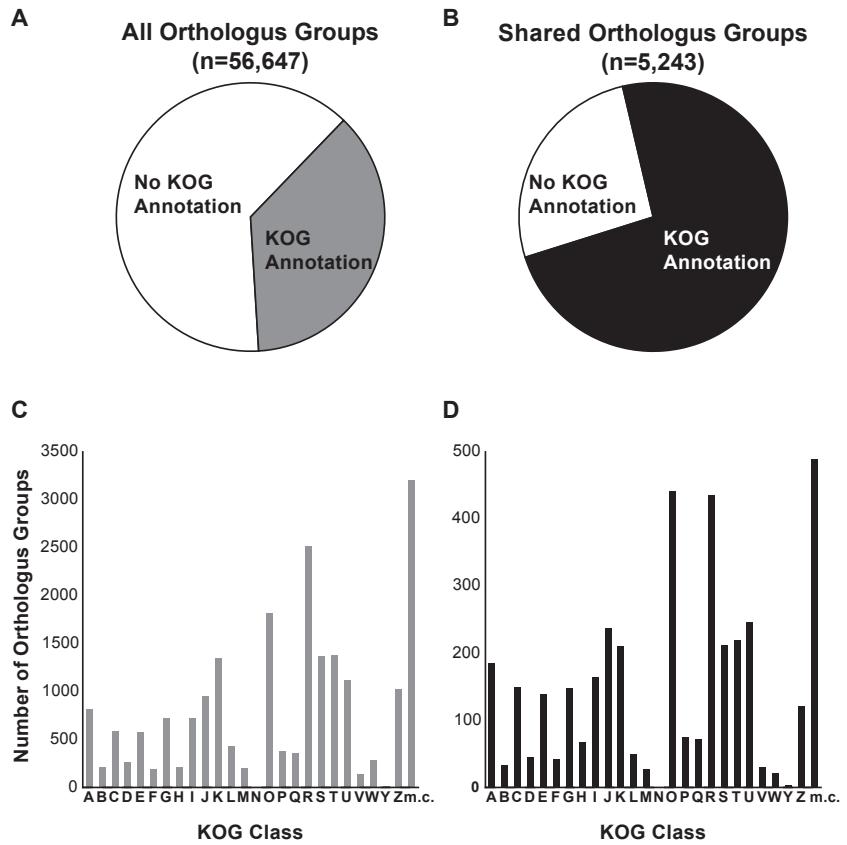
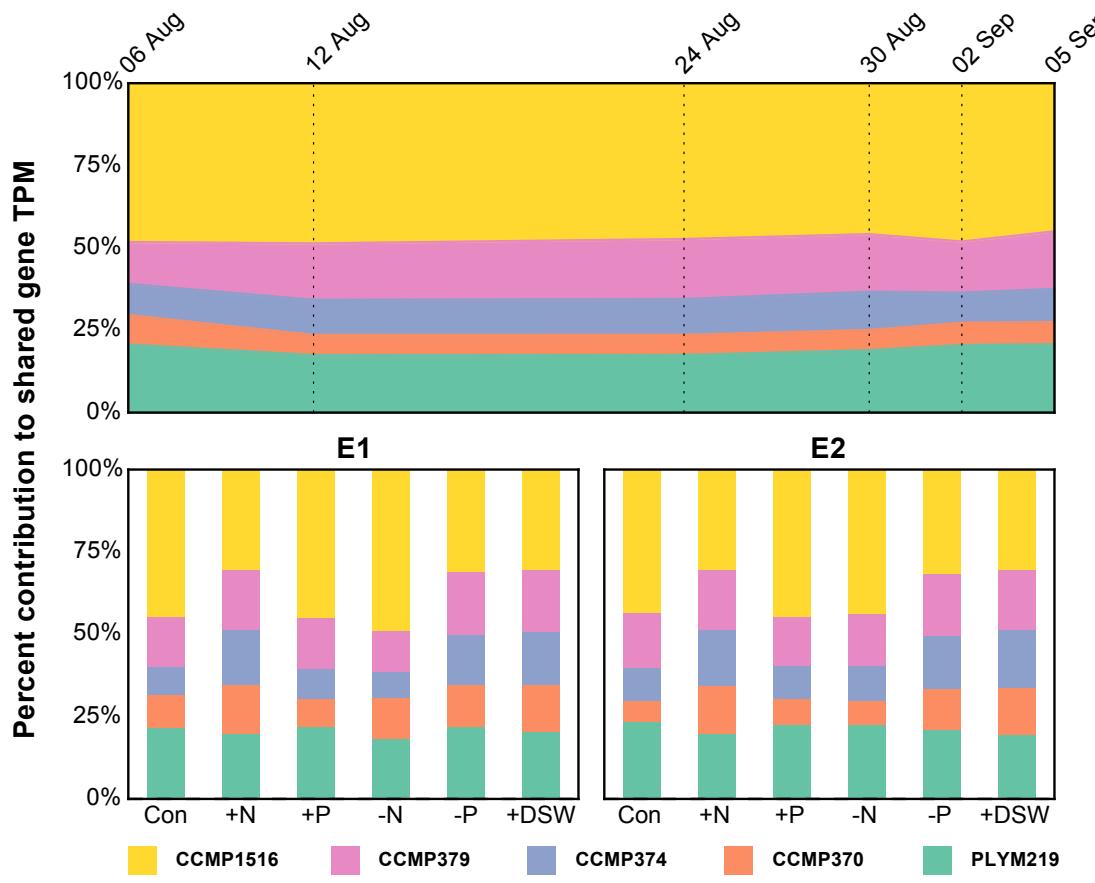


Figure D.9: Annotation of orthologous groups using KOG orthology for all *E. huxleyi* orthologous groups and for shared orthologous groups. The relative percentage of orthologous groups able to be annotated for all orthologous groups (A) and orthologous group shared amongst the five studied strains (B) are shown. The number of orthologous groups falling into each KOG class or multiple classes (m.c.) is shown for both all orthologous groups (C) and shared groups (D).



D.2 Supplemental Tables

Table D.1: Final nutrient concentrations used in nutrient amendment incubations.

Amendment	Control	Treatment				
		+N	+P	-N	-P	+DSW
Nitrate	-	$4\mu M$	-	-	$4\mu M$	-
Phosphate	-	-	$3\mu M$	$3\mu M$	-	-
Silica	-	-	-	$8.7\mu M$	$8.7\mu M$	-
Iron	-	-	-	$5nM$	$5nM$	-
Vitamin B ₁₂	-	-	-	$100pM$	$100pM$	-
Deep Seawater (700m)	-	-	-	-	-	10% v/v

Table D.2: Strain isolation date, synonyms, and transcriptome/genome information for each of the five strains used in this study.

Strain	Isola-tion date	Strain synonyms	Genome or Transcriptome	Predicted proteins	Transcripts passing quality control	Represen-tative orthoMCL orthologus groups	MMETSP Sample IDs	Reference for genome/transcriptome download
CCMP1516	1991	CCMP2090	Genome	33341	32538	23792	N/A	JGI
CCMP370	1959	451B, F451	Transcriptome	38712	33455	29068	MMETSP1154-1157	iMicrobe
CCMP374	1990	89E, CCMP1949	Transcriptome	18859	15728	14628	MMETSP1006-1009	iMicrobe
CCMP379	1957	92A, P-92A, UTEX1061, CCAP/1A, Plymouth 2	Transcriptome	23300	20016	18561	MMETSP0994-0997	iMicrobe
PLYM219	1992	NZEH, CAWPO 6	Transcriptome	36189	31410	27741	MMETSP1150-1153	iMicrobe

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
N0	OG1_5_2165	Bmi379 CAMPEP_0187631064;9.04E+00 Emihu1 102453		6.21E-04	-3.42E+00	5.43E-02	-8.96E+00	6.02E-04	Amidase; ind
N1	OG1_5_3553	Emi374 CAMPEP_0187600766;5.91E+00 Emi370 CAMPEP_0187661076; Emi370 CAMPEP_0187667014; Emihu1 219042; Emihu1 219043; Emihu1 219044		2.46E-03	-3.15E+00	6.48E-02	-6.54E+00	3.27E-03	Acetamidase
N2	OG1_5_1624	Emi374 CAMPEP_0187579668;5.59E+00 Emi379 CAMPEP_0187646452; Emi370 CAMPEP_0187734538; Emi219 CAMPEP_0187763110; Emi219 CAMPEP_0187800878; Emihu1 469992; Emihu1 245832; Emihu1 453687; Emihu1 215750		2.81E-02	-4.24E+00	5.32E-02	-7.88E+00	4.16E-02	Acetamidase
N3	OG1_5_9478	Emi374 CAMPEP_0187586824;4.54E+00 Emi370 CAMPEP_0187667970; Emihu1 452779; Emihu1 451136		7.75E-10	-2.17E+00	1.82E-01	-4.16E+00	3.09E-09	Putative ami
N4	OG1_5_4603	Emi374 CAMPEP_0187581450;3.24E+00 Emi379 CAMPEP_0187621022; Emi219 CAMPEP_0187776116; Emihu1 460408; Emihu1 361445; Emihu1 195544		8.36E-04	-3.25E+00	5.03E-03	-3.75E+00	2.18E-04	Nitrate trans

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
N5	OG1_5_6572	Emi374 CAMPEP_0187606704; Emi379 CAMPEP_0187621972; Emi370 CAMPEP_0187666900; Emi219 CAMPEP_0187750668; Emihu1 73160	3.11E+00	1.12E-01	-4.38E+00	1.05E-01	-3.93E+00	5.67E-02	Nitrate transpo
N6	OG1_5_1952	Emi374 CAMPEP_0187611660; Emi379 CAMPEP_0187642306; Emi370 CAMPEP_0187679516; Emi219 CAMPEP_0187740072; Emihu1 440751; Emihu1 68140; Emihu1 440179; Emihu1 460978	3.10E+00	3.76E-09	-1.26E+00	8.31E-02	-2.83E+00	3.41E-09	Urea transpo
N7	OG1_5_1335	Emi374 CAMPEP_0187611968; Emi379 CAMPEP_0187626060; Emi370 CAMPEP_0187662694; Emihu1 351211	3.07E+00	4.57E-04	-2.21E+00	4.29E-02	-3.53E+00	7.78E-05	Acetyl-CoA o
N8	OG1_5_1394	Emi374 CAMPEP_0187585760; Emihu1 444643; Emihu1 440936	2.35E+00	9.61E-01	3.94E-01	1.00E+00	-3.10E+00	9.39E-01	Formamidase
N9	OG1_5_5714	Emi374 CAMPEP_0187587048; Emi379 CAMPEP_0187621508; Emi370 CAMPEP_0187678374; Emi219 CAMPEP_0187750054; Emihu1 423772	2.25E+00	2.38E-03	-2.05E+00	7.91E-03	-2.09E+00	6.50E-03	Urease

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
N10	OG1_5_1825	Emi370 CAMPEP_0187667966;2.03E+00 Emi219 CAMPEP_0187765940; Emihu1 231096	6.25E-01	3.67E-01	-6.17E+00	1.49E-01	-4.73E+00	6.45E-02	Tentative for
N11	OG1_5_50	40Emi379 CAMPEP_0187644898;1.62E+00 Emi370 CAMPEP_0187696120; Emi219 CAMPEP_0187752584; Emihu1 52323; Emihu1 72956	40.00E+00	1.00E+00	-1.88E+00	1.00E+00	-3.10E+00	1.00E+00	Glutamine sy
N12	OG1_5_2655	55Emi374 CAMPEP_0187590198;1.29E+00 Emi379 CAMPEP_0187655336; Emi379 CAMPEP_0187655236; Emi370 CAMPEP_0187728390; Emi370 CAMPEP_0187734300; Emi219 CAMPEP_0187808162; Emihu1 428968	55.340E-01	3.40E-01	-1.70E+00	6.15E-02	-1.74E+00	6.67E-02	Ferredoxin-n
N13	OG1_5_1326	26Emi374 CAMPEP_0187589938;1.27E+00 Emi374 CAMPEP_0187606110; Emi374 CAMPEP_0187579580; Emi379 CAMPEP_0187646260; Emi379 CAMPEP_0187648788; Emi370 CAMPEP_0187689186; Emi370 CAMPEP_0187698464; Emi219 CAMPEP_0187786666; Emi219 CAMPEP_0187739272; Emihu1 225692; Emihu1 467437	26.467E-02	4.67E-02	-1.30E+00	2.83E-02	-1.22E+00	5.46E-02	ferredoxin-de
N14	OG1_5_3665	Emihu1 470023	-1.10E+00	7.84E-01	-6.79E-01	9.63E-01	-4.60E-01	1.00E+00	glutamine sy

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
N15	OG1_5_2287	Emi374 CAMPEP_0187586322; Emi379 CAMPEP_0187624740; Emi379 CAMPEP_0187656886; Emi370 CAMPEP_0187689050; Emi219 CAMPEP_0187762872; Emi219 CAMPEP_0187808378; Emihu1 69253	7.18E-01	7.85E-01	3.98E-01	1.00E+00	-2.23E-02	1.00E+00	Glutamine sy
N16	OG1_5_5519	Emi379 CAMPEP_0187621864; Emi370 CAMPEP_0187722904; Emi370 CAMPEP_0187701698; Emi219 CAMPEP_0187750040; Emihu1 437187	2.45E-01	1.00E+00	-8.98E-01	6.33E-01	-2.41E-01	1.00E+00	Glutamine sy
N17	OG1_5_1168	Emi374 CAMPEP_0187610426; Emi379 CAMPEP_0187629508; Emi219 CAMPEP_0187742636; Emihu1 201096	1.15E-01	1.00E+00	3.86E-01	1.00E+00	5.06E-01	1.00E+00	putative amn
N18	OG1_5_6398	Emi374 CAMPEP_0187592148; Emi379 CAMPEP_0187621632; Emi370 CAMPEP_0187681132; Emi219 CAMPEP_0187757694; Emihu1 217668	1.60E-02	1.00E+00	4.75E-01	1.00E+00	1.32E-01	1.00E+00	Alipathic am
N19	OG1_5_8043	Emi374 CAMPEP_0187582726; Emi379 CAMPEP_0187618148; Emi370 CAMPEP_0187694666; Emi219 CAMPEP_0187745866; Emihu1 433753	7.22E-01	1.00E+00	-1.91E-01	1.00E+00	9.17E-02	1.00E+00	Glycine cleav

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
N20	OG1_5_4089	Emi374 CAMPEP_01875929064; Emi379 CAMPEP_0187626556; Emi370 CAMPEP_0187679210; Emi370 CAMPEP_0187676248; Emi219 CAMPEP_0187748646; Emihu1 453721	15E-01	1.00E+00	3.22E-02	1.00E+00	1.78E-01	1.00E+00	Glutamine-d
N21	OG1_5_1340	Emi374 CAMPEP_01875795426; Emi379 CAMPEP_0187657778; Emi370 CAMPEP_0187698244; Emihu1 433762	32E-01	6.35E-01	1.02E+00	1.61E-01	9.14E-01	2.54E-01	Glutamate/le
N22	OG1_5_1659	Emi379 CAMPEP_01876246508; Emi379 CAMPEP_0187642912; Emi370 CAMPEP_0187705728; Emi219 CAMPEP_0187806566; Emihu1 74037; Emihu1 444314; Emihu1 441727; Emihu1 200882; Emihu1 61319	23E-01	5.97E-01	1.79E+00	5.62E-04	1.18E+00	8.46E-02	Putative amn
N23	OG1_5_1884	Emi219 CAMPEP_01877520548; Emihu1 471321; Emihu1 49101; Emihu1 71119; Emihu1 456888; Emihu1 234399; Emihu1 193894; Emihu1 415646	49E-01	1.00E+00	-3.02E-01	1.00E+00	2.43E-01	1.00E+00	Putative amn

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
N24	OG1_5_4078	Emihu1 64817	8.87E-01	9.35E-01	1.14E+00	6.33E-01	7.29E-01	1.00E+00	Cystathionin
N25	OG1_5_8600	Emi374 CAMPEP_01875880521; Emi374 CAMPEP_0187638144; Emi370 CAMPEP_0187665342; Emi219 CAMPEP_0187761444; Emihu1 439254	51.31E+00	4.18E-01	1.40E+00	3.65E-01	1.42E+00	3.09E-01	Putative form
N26	OG1_5_2556	Emi379 CAMPEP_01876484741; Emi370 CAMPEP_0187697962; Emi370 CAMPEP_0187689392; Emi370 CAMPEP_0187711782; Emi219 CAMPEP_0187743774; Emihu1 469498; Emihu1 449382	41.43E+00	7.10E-01	2.36E+00	1.72E-01	2.31E+00	1.58E-01	NADH-gluta
N27	OG1_5_2882	Emi374 CAMPEP_01875929001; Emi379 CAMPEP_0187615210; Emi370 CAMPEP_0187692548; Emi370 CAMPEP_0187719132; Emi219 CAMPEP_0187736486; Emihu1 365923; Emihu1 72853	480.48E+00	2.65E-01	1.78E+00	6.03E-02	1.29E+00	3.85E-01	Asparagine s
N28	OG1_5_5439	Emi374 CAMPEP_01875832481; Emi379 CAMPEP_0187621446; Emi370 CAMPEP_0187660622; Emihu1 464017; Emihu1 432660	481.65E+00	8.92E-03	1.86E+00	5.28E-04	1.62E+00	4.44E-03	Tentative am

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
N29	OG1_5_7860	Emi374 CAMPEP_01875913 Emi379 CAMPEP_0187615180; Emi370 CAMPEP_0187686840; Emi219 CAMPEP_0187743664; Emihu1 436026	981.72E+00	4.60E-02	7.93E-01	6.78E-01	1.66E+00	4.73E-02	glutamine sy
N30	OG1_5_6301	Emi374 CAMPEP_0187604472 Emi379 CAMPEP_0187628134; Emi370 CAMPEP_0187702136; Emi219 CAMPEP_0187801324; Emihu1 461482	1.89E+00	7.79E-01	1.11E+00	1.00E+00	1.86E+00	8.69E-01	Oxioreductas
N31	OG1_5_2557	Emi374 CAMPEP_0187578242 Emi379 CAMPEP_0187649242; Emi379 CAMPEP_0187638334; Emi370 CAMPEP_0187683750; Emi219 CAMPEP_0187763438; Emihu1 70117; Emihu1 433750	22.25E+00	4.34E-04	2.16E+00	2.83E-04	2.08E+00	1.08E-03	Putative amn
N32	OG1_5_7463	Emi374 CAMPEP_0187591416 Emi379 CAMPEP_0187615552; Emi370 CAMPEP_0187679244; Emi219 CAMPEP_0187748030; Emihu1 212450	37E+00	1.92E-01	2.49E+00	1.37E-01	2.31E+00	2.12E-01	Ferredoxin-d
N33	OG1_5_1259	Bmi374 CAMPEP_0187588360 Emi370 CAMPEP_0187668054; Emi219 CAMPEP_0187747110; Emihu1 232873	44E+00	3.33E-01	1.76E+00	1.00E+00	2.15E+00	5.17E-01	Thioesterase
N34	OG1_5_3768	Emihu1 225018	3.18E+00	1.00E+00	3.04E+00	1.00E+00	2.83E+00	1.00E+00	Na+/solute s

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
N35	OG1_5_11	71Emi374 CAMPEP_01875990963.29E+00 Emi370 CAMPEP_0187734648; Emi219 CAMPEP_0187770460; Emihu1 422537	963.29E+00	4.38E-02	2.02E+00	7.40E-01	2.89E+00	1.74E-01	Glycine deca
N36	OG1_5_2158	Emihu1 210750	4.50E+00	1.00E+00	2.99E+00	1.00E+00	3.61E+00	1.00E+00	Nitrilase/cya
N37	OG1_5_8516	Emi374 CAMPEP_01875841904.77E+00 Emi379 CAMPEP_0187656468; Emi370 CAMPEP_0187719494; Emi219 CAMPEP_0187806644; Emihu1 212114	904.77E+00	1.00E+00	4.82E+00	6.32E-01	5.13E+00	9.67E-01	Amino acid/
N38	OG1_5_5632	Emi374 CAMPEP_01876122304.90E+00 Emi370 CAMPEP_0187683408; Emi370 CAMPEP_0187725580; Emi219 CAMPEP_0187766518; Emihu1 69206	304.90E+00	1.00E+00	3.52E+00	1.00E+00	3.59E+00	1.00E+00	NADP-specif
N39	OG1_5_2763	Emi379 CAMPEP_01876554645.90E+00 Emihu1 69043	645.90E+00	5.92E-01	4.98E+00	5.73E-01	6.89E+00	1.85E-01	histidine amr
N40	OG1_5_7856	Emi374 CAMPEP_01876074986.75E+00 Emi379 CAMPEP_0187621784; Emi370 CAMPEP_0187718658; Emi219 CAMPEP_0187743450; Emihu1 69646	986.75E+00	1.34E-01	5.21E+00	6.33E-01	6.83E+00	1.16E-01	Cyanase

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
N41	OG1_5_30	19Emi374 CAMPEP_01875877867.50E+00 Emi379 CAMPEP_0187642606; Emi370 CAMPEP_0187660896; Emi219 CAMPEP_0187743856; Emi219 CAMPEP_0187749342; Emihu1 64600	867.50E+00	1.95E-02	5.41E+00	5.21E-01	6.87E+00	1.02E-01	Putative form
N42	OG1_5_77	14Emi374 CAMPEP_01876100887.55E+00 Emi379 CAMPEP_0187624510; Emi370 CAMPEP_0187666880; Emi219 CAMPEP_0187784072; Emihu1 106701	887.55E+00	1.86E-02	5.82E+00	1.91E-01	7.50E+00	1.93E-02	Cystathionin
P0	OG1_5_949	9Emi374 CAMPEP_0187607650;1.65E+00 Emi370 CAMPEP_0187723126; Emihu1 370963; Emihu1 364869	50;1.65E+00	4.46E-01	-2.07E+00	2.90E-01	-2.49E+00	1.02E-01	Hypothetical
P1	OG1_5_243	34Emi374 CAMPEP_01875869943.36E-01 Emi370 CAMPEP_0187667618; Emi219 CAMPEP_0187805514; Emihu1 456911; Emihu1 67455; Emihu1 67879; Emihu1 450989	943.36E-01	1.00E+00	7.69E-02	1.00E+00	-2.54E-01	1.00E+00	Putative inor
P2	OG1_5_734	48Emi374 CAMPEP_01876088168.23E-01 Emi379 CAMPEP_0187657498; Emi370 CAMPEP_0187669144; Emi219 CAMPEP_0187747478; Emihu1 447541	168.23E-01	1.00E+00	5.28E-01	1.00E+00	1.11E+00	6.91E-01	Tetrapeptide

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
P3	OG1_5_3674	Emi374 CAMPEP_01875949; Emi379 CAMPEP_0187621016; Emi370 CAMPEP_0187720180; Emi219 CAMPEP_0187736374; Emihu1 116959; Emihu1 103835	747.45E-01	1.00E+00	6.45E-01	1.00E+00	8.51E-01	1.00E+00	Phosphotyrosine
P4	OG1_5_11629	Emi374 CAMPEP_01875765; Emi370 CAMPEP_0187671318; Emi219 CAMPEP_0187747328; Emihu1 61414	422.01E+00	5.69E-01	1.03E+00	1.00E+00	7.30E-01	1.00E+00	Putative ion channel
P5	OG1_5_6860	Emi374 CAMPEP_01875967; Emi379 CAMPEP_0187622668; Emi370 CAMPEP_0187661946; Emi219 CAMPEP_0187754422; Emihu1 448031	301.72E+00	5.86E-01	1.61E+00	7.89E-01	1.71E+00	5.42E-01	5'-nucleotidase
P6	OG1_5_5394	Emi374 CAMPEP_01875867; Emi379 CAMPEP_0187622756; Emi219 CAMPEP_0187801480; Emihu1 470911; Emihu1 200606	361.98E+00	4.12E-01	1.85E+00	4.28E-01	6.87E-03	1.00E+00	Putative phosphatase
P7	OG1_5_3301	Emihu1 119690; Emihu1 228520; Emihu1 111972; Emihu1 111381; Emihu1 214750; Emihu1 202775	2.06E+00	5.52E-01	1.85E+00	8.68E-01	2.29E+00	5.83E-01	5' nucleotidase

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
P8	OG1_5_1470	Emi370 CAMPEP_01876951; Emi219 CAMPEP_0187749098; Emihu1 433665	702.31E+00	3.79E-03	1.86E+00	2.53E-02	2.25E+00	6.65E-03	Putative alterna
P9	OG1_5_2620	Emi370 CAMPEP_0187676750; Emihu1 52051	4.30E+00	1.00E+00	2.54E+00	1.00E+00	4.71E+00	1.00E+00	5'-nucleotida
P10	OG1_5_6927	Emi379 CAMPEP_01876255664; Emi370 CAMPEP_0187671440; Emi219 CAMPEP_0187739966; Emi219 CAMPEP_0187757248; Emihu1 419488	64.25E+00	1.00E+00	2.54E+00	1.00E+00	4.49E+00	9.67E-01	Putative inor
P11	OG1_5_3470	Emi374 CAMPEP_01875802145; Emi379 CAMPEP_0187645690; Emi370 CAMPEP_0187729752; Emi219 CAMPEP_0187757238; Emihu1 251982; Emihu1 237438	145.18E+00	9.57E-01	2.99E+00	1.00E+00	5.72E+00	6.54E-01	Putative 5'-n
P12	OG1_5_2599	Emi370 CAMPEP_01876675703; Emihu1 434557	703.74E+00	1.00E+00	3.04E+00	1.00E+00	na	na	Hypothetical
P13	OG1_5_2649	Emi370 CAMPEP_01877185642; Emihu1 369509	642.85E+00	1.00E+00	3.33E+00	1.00E+00	na	na	Putative alka
P14	OG1_5_2841	Emi374 CAMPEP_01876051942; Emi374 CAMPEP_0187579208; Emi379 CAMPEP_0187658478; Emi370 CAMPEP_0187686836; Emi219 CAMPEP_0187762370; Emi219 CAMPEP_0187782448; Emihu1 309643	942.98E+00	1.78E-01	3.83E+00	8.67E-03	3.45E+00	4.71E-02	Glycerophosp

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
P15	OG1_5_2902	Emi374 CAMPEP_01876101 Emi379 CAMPEP_0187655556; Emi370 CAMPEP_0187691984; Emi370 CAMPEP_0187682044; Emi219 CAMPEP_0187807232; Emihu1 463311; Emihu1 100428	66.74E+00	1.35E-01	3.96E+00	9.10E-01	6.25E+00	4.93E-01	RNA pseudo
P16	OG1_5_9889	Emi374 CAMPEP_01875814 Emi370 CAMPEP_0187666168; Emi219 CAMPEP_0187748918; Emihu1 202035	46.40E+00	3.43E-01	4.79E+00	9.10E-01	5.18E+00	9.67E-01	Hypothetical
P17	OG1_5_1319	Emi374 CAMPEP_0187589770 Emi370 CAMPEP_0187728656; Emi219 CAMPEP_0187763464; Emihu1 463656	706.52E+00	2.29E-01	4.94E+00	5.74E-01	6.04E+00	3.85E-01	Hypothetical
P18	OG1_5_1943	Emihu1 256008; Emihu1 439624	3.88E+00	1.00E+00	5.09E+00	7.61E-01	na	na	Lipoprotein
P19	OG1_5_4152	Emihu1 462214	5.99E+00	6.89E-01	5.38E+00	7.08E-01	2.37E+00	1.00E+00	Putative inor
P20	OG1_5_9238	Emi370 CAMPEP_0187705632 Emi219 CAMPEP_0187794604; Emihu1 438712; Emihu1 438750	326.04E+00	6.78E-01	5.76E+00	6.32E-01	na	na	Putative inor
P21	OG1_5_4774	Emi370 CAMPEP_0187667798 Emi219 CAMPEP_0187759754; Emi219 CAMPEP_0187805344; Emihu1 414308; Emihu1 433041	15E+00	1.31E-01	6.25E+00	1.21E-06	-2.21E+00	1.00E+00	Alkaline phos

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
P22	OG1_5_2483	Emi219 CAMPEP_01877632 Emihu1 449181	385.36E+00	9.57E-01	6.27E+00	9.48E-02	na	na	Glycerophosp
P23	OG1_5_2746	Emi379 CAMPEP_01876385 Emihu1 237172	466.83E+00	1.12E-01	6.41E+00	4.12E-02	7.42E+00	3.53E-02	Putative 5'-n
P24	OG1_5_3589	Emihu1 123369	8.16E+00	9.09E-02	6.58E+00	4.41E-02	4.90E+00	1.00E+00	Putative pho
P25	OG1_5_2446	Emi219 CAMPEP_01878062 Emihu1 433779	388.21E+00	2.22E-03	8.00E+00	1.18E-04	7.60E+00	1.14E-02	Glycerophosp
P26	OG1_5_4741	Emi379 CAMPEP_01876148 Emi370 CAMPEP_0187687328; Emi219 CAMPEP_0187745962; Emi219 CAMPEP_0187738340; Emihu1 438229	508.83E+00	3.15E-04	8.32E+00	7.00E-06	8.43E+00	4.12E-04	Protein invol
C0	OG1_5_9128	Emihu1 76716; Emihu1 76123; Emihu1 222670; Emihu1 426283	-4.68E+00	2.72E-08	-4.20E+00	9.22E-07	-5.62E+00	9.38E-10	Plasma mem
C1	OG1_5_3737	Emihu1 101130	-4.18E+00	7.96E-01	-1.27E+00	1.00E+00	-4.13E+00	8.36E-01	Ca2+ transp

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C2	OG1_5_1077	Emi374 CAMPEP_01875976;2.53E+00 Emi374 CAMPEP_0187608790; Emi374 CAMPEP_0187611382; Emi374 CAMPEP_0187577448; Emi379 CAMPEP_0187658694; Emi379 CAMPEP_0187656458; Emi370 CAMPEP_0187733070; Emi370 CAMPEP_0187666706; Emi370 CAMPEP_0187676208; Emi370 CAMPEP_0187705782; Emi370 CAMPEP_0187708976; Emi370 CAMPEP_0187701684; Emi219 CAMPEP_0187807982; Emi219 CAMPEP_0187804520; Emi219 CAMPEP_0187782468; Emi219 CAMPEP_0187774244; Emi219 CAMPEP_0187770168; Emihu1 75032; Emihu1 51239; Emihu1 415047	76;2.53E+00	4.39E-04	-2.20E+00	1.93E-03	-2.86E+00	4.36E-05	H+-translocat
C3	OG1_5_7953	Emi374 CAMPEP_0187586262;1.70E+00 Emi379 CAMPEP_0187621740; Emi370 CAMPEP_0187686418; Emi219 CAMPEP_0187743828; Emihu1 435128	62;1.70E+00	6.20E-03	-1.58E+00	5.74E-03	-1.80E+00	2.39E-03	Vacuolar H+

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C4	OG1_5_1072	Emi374 CAMPEP_0187606388;1.54E+00 Emi374 CAMPEP_0187606276; Emi374 CAMPEP_0187607082; Emi374 CAMPEP_0187586422; Emi374 CAMPEP_0187590174; Emi374 CAMPEP_0187609928; Emi379 CAMPEP_0187620568; Emi379 CAMPEP_0187616594; Emi379 CAMPEP_0187649464; Emi379 CAMPEP_0187639224; Emi370 CAMPEP_0187664874; Emi370 CAMPEP_0187688754; Emi370 CAMPEP_0187690606; Emi370 CAMPEP_0187722900; Emi219 CAMPEP_0187806598; Emi219 CAMPEP_0187803184; Emi219 CAMPEP_0187748740; Emihu1 429294; Emihu1 463095; Emihu1 62350	1.42E-01	-1.14E+00	4.06E-01	-1.32E+00	2.79E-01	Calcium ATP	
C5	OG1_5_9313	Emi374 CAMPEP_0187593514;1.48E+00 Emi370 CAMPEP_0187700998; Emihu1 115240; Emihu1 226438	1.00E+00	na	na	na	na	Putative bet	

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C6	OG1_5_1039	Emi374 CAMPEP_0187603734;1.29E+00 Emi370 CAMPEP_0187703142; Emi219 CAMPEP_0187794400; Emihu1 67081		1.00E+00	-2.52E+00	6.32E-01	-1.47E+00	9.58E-01	Plasma mem
C7	OG1_5_3065	Emi374 CAMPEP_0187578120;1.28E+00 Emi379 CAMPEP_0187630360; Emi370 CAMPEP_0187665616; Emi219 CAMPEP_0187784356; Emi219 CAMPEP_0187746464; Emihu1 439740		1.59E-01	-1.29E+00	1.22E-01	-1.25E+00	1.68E-01	H+-translocat
C8	OG1_5_1316	Emi379 CAMPEP_0187656256;1.16E+00 Emi370 CAMPEP_0187732286; Emi219 CAMPEP_0187764242; Emihu1 72273		1.00E+00	-5.80E-01	1.00E+00	-5.35E-01	1.00E+00	H+/Ca2+ ex
C9	OG1_5_2198	Emi374 CAMPEP_0187588656;1.08E+00 Emi379 CAMPEP_0187656068; Emi370 CAMPEP_0187669334; Emi370 CAMPEP_0187715850; Emi219 CAMPEP_0187758176; Emi219 CAMPEP_0187754936; Emihu1 439538		3.71E-01	-1.35E+00	1.55E-01	-1.28E+00	2.34E-01	vacuolar prot
C10	OG1_5_4019	Emi374 CAMPEP_0187589846;1.04E+00 Emi374 CAMPEP_0187603036; Emi370 CAMPEP_0187724276; Emi370 CAMPEP_0187715766; Emi219 CAMPEP_0187743116; Emihu1 447659		1.00E+00	na	na	-7.85E-01	1.00E+00	Na+/H+ ant

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C11	OG1_5_8057	Emi374 CAMPEP_0187587792; Emi379 CAMPEP_0187654872; Emi370 CAMPEP_0187695010; Emi219 CAMPEP_0187771790; Emihu1 449053	2.04E-01	1.00E+00	1.38E-01	1.00E+00	-1.60E-01	1.00E+00	Cation/Ca2+
C12	OG1_5_3561	Emi374 CAMPEP_01876001461 Emi379 CAMPEP_0187618428; Emi370 CAMPEP_0187660780; Emi219 CAMPEP_0187744526; Emihu1 117549; Emihu1 105293	1.93E-01	1.00E+00	-5.52E-02	1.00E+00	-7.11E-02	1.00E+00	Na+/H+ ant
C13	OG1_5_6138	Emi379 CAMPEP_01876473382 Emi379 CAMPEP_0187632584; Emi370 CAMPEP_0187677178; Emi219 CAMPEP_0187804560; Emihu1 465194	9.00E-01	1.00E+00	-5.80E-01	1.00E+00	9.29E-01	1.00E+00	Vacuolar Na+
C14	OG1_5_3989	Emi370 CAMPEP_01877276325 Emi370 CAMPEP_0187713406; Emi370 CAMPEP_0187724936; Emi370 CAMPEP_0187724258; Emi219 CAMPEP_0187776154; Emihu1 456048	5.58E-01	1.00E+00	3.85E-01	1.00E+00	-5.53E-02	1.00E+00	Alpha-type c

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C15	OG1_5_2052	Emi374 CAMPEP_01875749 Emi374 CAMPEP_0187578794; Emi379 CAMPEP_0187621978; Emi370 CAMPEP_0187666518; Emi219 CAMPEP_0187801726; Emi219 CAMPEP_0187801318; Emihu1 436956; Emihu1 438955	226.21E-01	7.40E-01	-6.24E-02	1.00E+00	1.04E-01	1.00E+00	HCO3- trans
C16	OG1_5_3889	Emihu1 416800	6.66E-01	1.00E+00	5.48E-01	1.00E+00	1.01E+00	1.00E+00	H+/Ca2+ ex
C17	OG1_5_1652	Emi370 CAMPEP_01877054747 Emi219 CAMPEP_0187742164; Emihu1 103021	32E-01	1.00E+00	4.53E-01	1.00E+00	5.51E-01	1.00E+00	Ca2+/H+ ar
C18	OG1_5_8809	Emi374 CAMPEP_01875780347 Emi379 CAMPEP_0187618010; Emi370 CAMPEP_0187668546; Emi219 CAMPEP_0187739490; Emihu1 434034	48E-01	9.57E-01	1.31E+00	3.83E-01	1.06E+00	6.36E-01	Sodium/hydri
C19	OG1_5_3380	Emi374 CAMPEP_01875897968 Emi379 CAMPEP_0187625602; Emi219 CAMPEP_0187806128; Emi219 CAMPEP_0187789430; Emihu1 118025; Emihu1 463266	09E-01	4.95E-01	7.00E-01	7.02E-01	6.83E-01	7.82E-01	Hypothetical

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C20	OG1_5_6042	Emi374 CAMPEP_01875928 Emi379 CAMPEP_0187630340; Emi370 CAMPEP_0187672248; Emi219 CAMPEP_0187754958; Emihu1 464767	228.24E-01	1.00E+00	5.49E-01	1.00E+00	8.47E-01	9.89E-01	V-type proto
C21	OG1_5_38449	Emihu1 229394	9.69E-01	8.68E-01	2.28E+00	2.35E-03	1.30E+00	3.42E-01	Putative delta
C22	OG1_5_12339	Emi370 CAMPEP_01876604781 Emi370 CAMPEP_0187679728; Emi219 CAMPEP_0187745942; Emihu1 454623	05E+00	8.18E-01	1.26E+00	7.61E-01	8.77E-01	9.67E-01	Sodium/Calo
C23	OG1_5_13388	Emi374 CAMPEP_01876117401 Emi379 CAMPEP_0187658154; Emi370 CAMPEP_0187663588; Emihu1 219535	1.18E+00	1.00E+00	2.24E+00	6.96E-01	1.58E+00	1.00E+00	Na+/H+ ant
C24	OG1_5_1825	Emi374 CAMPEP_01876053141 Emi374 CAMPEP_0187598634; Emi379 CAMPEP_0187627694; Emi370 CAMPEP_0187683550; Emi219 CAMPEP_0187777538; Emi219 CAMPEP_0187736804; Emihu1 467173; Emihu1 467182	2.25E+00	9.70E-01	6.34E-01	1.00E+00	1.36E+00	9.67E-01	transmembra

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C25	OG1_5_1215	Emi374 CAMPEP_0187609874; Emi379 CAMPEP_0187623526; Emi379 CAMPEP_0187657658; Emi379 CAMPEP_0187657148; Emi379 CAMPEP_0187639348; Emi370 CAMPEP_0187732024; Emi370 CAMPEP_0187728980; Emi370 CAMPEP_0187731788; Emi219 CAMPEP_0187803166; Emi219 CAMPEP_0187770896; Emihu1 114989; Emihu1 449116; Emihu1 448907	741.27E+00	1.32E-01	1.13E+00	2.61E-01	9.85E-01	4.09E-01	voltage-gated
C26	OG1_5_1205	Emi374 CAMPEP_0187582132; Emi379 CAMPEP_0187638814; Emi370 CAMPEP_0187735194; Emi219 CAMPEP_0187804462; Emihu1 460292; Emihu1 50111; Emihu1 45035; Emihu1 372079; Emihu1 249179; Emihu1 107737; Emihu1 355065; Emihu1 208372; Emihu1 45000	321.39E+00	2.03E-02	1.28E+00	2.33E-02	1.36E+00	1.29E-02	Ca2+/Mg2+

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C27	OG1_5_8355	Emi374 CAMPEP_0187577462; Emi379 CAMPEP_0187613902; Emi370 CAMPEP_0187661956; Emi219 CAMPEP_0187761750; Emihu1 431830	1.46E+00	1.60E-02	1.23E+00	6.02E-02	1.19E+00	7.80E-02	polysaccharide
C28	OG1_5_7384	Emi374 CAMPEP_0187611828; Emi370 CAMPEP_0187711426; Emi219 CAMPEP_0187780014; Emi219 CAMPEP_0187776734; Emihu1 223499	1.47E+00	9.57E-01	-1.83E-01	1.00E+00	8.58E-01	1.00E+00	Sodium/calci
C29	OG1_5_2050	Emi374 CAMPEP_0187589380; Emi374 CAMPEP_0187608598; Emi379 CAMPEP_0187641700; Emi379 CAMPEP_0187630002; Emi379 CAMPEP_0187654388; Emi379 CAMPEP_0187630254; Emi370 CAMPEP_0187684492; Emihu1 466232	1.47E+00	1.33E-01	2.33E+00	2.93E-04	2.02E+00	7.88E-03	Na+-independen

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C30	OG1_5_1294	Emi374 CAMPEP_01875814 Emi374 CAMPEP_0187582840; Emi379 CAMPEP_0187616530; Emi379 CAMPEP_0187626358; Emi370 CAMPEP_0187694856; Emi370 CAMPEP_0187718644; Emi219 CAMPEP_0187804412; Emi219 CAMPEP_0187799490; Emi219 CAMPEP_0187772754; Emihu1 413949; Emihu1 104572	741.53E+00	1.35E-01	8.06E-01	8.25E-01	1.44E+00	1.86E-01	Vacuolar H ⁺
C31	OG1_5_4955	Emi374 CAMPEP_0187589426 Emi370 CAMPEP_0187671406; Emi219 CAMPEP_0187736536; Emihu1 460140; Emihu1 466567	261.58E+00	7.87E-01	9.36E-01	1.00E+00	1.45E+00	8.87E-01	Calcium trans
C32	OG1_5_1407	Emi219 CAMPEP_0187777972 Emihu1 74995; Emihu1 214705	721.59E+00	9.70E-01	-1.88E+00	1.00E+00	5.14E-01	1.00E+00	similar to He

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C33	OG1_5_1053	Emi374 CAMPEP_01875783841.63E+00 Emi379 CAMPEP_0187614144; Emi370 CAMPEP_0187734446; Emi370 CAMPEP_0187729574; Emi370 CAMPEP_0187667894; Emi370 CAMPEP_0187689240; Emi370 CAMPEP_0187705278; Emi370 CAMPEP_0187721384; Emi370 CAMPEP_0187710640; Emi219 CAMPEP_0187760732; Emi219 CAMPEP_0187807826; Emi219 CAMPEP_0187804988; Emi219 CAMPEP_0187782280; Emi219 CAMPEP_0187776158; Emi219 CAMPEP_0187783728; Emi219 CAMPEP_0187744154; Emi219 CAMPEP_0187744076; Emi219 CAMPEP_0187747208; Emi219 CAMPEP_0187739788; Emihu1 250817; Emihu1 468587; Emihu1 455760; Emihu1 457495; Emihu1 449985	841.63E+00	1.40E-02	1.13E+00	1.69E-01	1.40E+00	6.98E-02	Ca2+/Mg2+

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C34	OG1_5_1635	Emi374 CAMPEP_01876095 Emi379 CAMPEP_0187621988; Emi370 CAMPEP_0187722868; Emi219 CAMPEP_0187750584; Emi219 CAMPEP_0187744366; Emihu1 120259; Emihu1 99943; Emihu1 200137; Emihu1 198643	241.68E+00	1.07E-01	4.15E-01	1.00E+00	7.28E-01	9.67E-01	Bicarbonate
C35	OG1_5_3318	Emi374 CAMPEP_01875813301 Emi370 CAMPEP_0187733782; Emi370 CAMPEP_0187674834; Emi219 CAMPEP_0187807874; Emihu1 355949; Emihu1 369392	1.72E+00	4.10E-02	1.36E+00	2.27E-01	1.68E+00	4.66E-02	Vacuolar H+
C36	OG1_5_6176	Emi374 CAMPEP_01875911322 Emi379 CAMPEP_0187629728; Emi370 CAMPEP_0187665298; Emi219 CAMPEP_0187759052; Emihu1 433060	0.05E+00	2.24E-02	1.44E+00	2.03E-01	2.08E+00	9.49E-03	Vacuolar H+
C37	OG1_5_7155	Emi374 CAMPEP_01875941722 Emi379 CAMPEP_0187633908; Emi370 CAMPEP_0187730488; Emi219 CAMPEP_0187779406; Emihu1 415715	0.08E+00	2.38E-01	1.73E+00	4.25E-01	1.57E+00	5.04E-01	H+/Ca2+ ex

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C38	OG1_5_1599	Emi374 CAMPEP_01875907662.09E+00 Emi374 CAMPEP_0187598528; Emi374 CAMPEP_0187576676; Emi379 CAMPEP_0187655176; Emi370 CAMPEP_0187681204; Emi219 CAMPEP_0187774822; Emi219 CAMPEP_0187784068; Emi219 CAMPEP_0187747322; Emihu1 450694		6.09E-01	1.28E+00	1.00E+00	2.36E+00	4.71E-01	tentative Ca2+
C39	OG1_5_5840	Emi374 CAMPEP_01875815462.18E+00 Emi379 CAMPEP_0187622518; Emi370 CAMPEP_0187705514; Emi219 CAMPEP_0187750252; Emihu1 436031		4.61E-02	1.33E+00	5.61E-01	1.67E+00	1.74E-01	Delta carbon
C40	OG1_5_2691	Emi379 CAMPEP_01876247162.25E+00 Emi379 CAMPEP_0187624062; Emi379 CAMPEP_0187654576; Emi379 CAMPEP_0187657812; Emi379 CAMPEP_0187658700; Emi379 CAMPEP_0187631098; Emihu1 239690		1.91E-01	3.23E+00	1.02E-03	3.04E+00	1.42E-02	Putative beta
C41	OG1_5_2179	Emi219 CAMPEP_01877907622.42E+00 Emihu1 62679		1.00E+00	2.59E+00	1.00E+00	3.00E+00	1.00E+00	Alpha carbon
C42	OG1_5_1113	Emi374 CAMPEP_01876115742.62E+00 Emi370 CAMPEP_0187666640; Emi219 CAMPEP_0187804586; Emihu1 447939		1.39E-03	1.17E+00	2.97E-01	1.63E+00	1.05E-01	Na+/Ca2+-P

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C43	OG1_5_4593	Emi374 CAMPEP_01875879862.83E+00 Emi379 CAMPEP_0187631630; Emi370 CAMPEP_0187678588; Emi219 CAMPEP_0187773348; Emihu1 354606; Emihu1 205210		4.38E-03	1.59E+00	2.95E-01	2.10E+00	6.53E-02	Na+/Ca2+-I
C44	OG1_5_8891	Emi370 CAMPEP_01876627322.89E+00 Emi219 CAMPEP_0187760174; Emi219 CAMPEP_0187758614; Emihu1 437452		2.33E-01	2.75E+00	2.43E-01	2.63E+00	3.72E-01	carbonic anh
C45	OG1_5_3138	Emi374 CAMPEP_01875823983.03E+00 Emi379 CAMPEP_0187626142; Emi370 CAMPEP_0187667954; Emi219 CAMPEP_0187794790; Emi219 CAMPEP_0187739296; Emihu1 432493		2.39E-02	3.10E+00	1.46E-02	3.30E+00	1.08E-02	Gamma carb
C46	OG1_5_3766	Emihu1 469783	3.29E+00	1.00E+00	na	na	na	na	Bicarbonate
C47	OG1_5_2428	Emi219 CAMPEP_01877421223.52E+00 Emihu1 195575		1.00E+00	na	na	2.53E+00	1.00E+00	Putative delt
C48	OG1_5_1955	Emihu1 315097; Emihu1 66584	3.56E+00	1.00E+00	3.66E+00	1.00E+00	4.21E+00	1.00E+00	H+/Ca2+ ex
C49	OG1_5_5401	Emi379 CAMPEP_01876549303.65E+00 Emi370 CAMPEP_0187670420; Emi219 CAMPEP_0187742238; Emihu1 468996; Emihu1 448526		1.79E-02	3.14E+00	9.10E-02	3.34E+00	4.58E-02	voltage-gated

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C50	OG1_5_2204	Bmi219 CAMPEP_01877535 Emihu1 356859	743.74E+00	1.00E+00	4.27E+00	8.19E-01	4.14E+00	1.00E+00	Putative carb
C51	OG1_5_1330	Emi379 CAMPEP_0187631498 Emi370 CAMPEP_0187694690; Emi219 CAMPEP_0187766682; Emihu1 203920	4.22E+00	1.00E+00	2.58E+00	1.00E+00	2.83E+00	1.00E+00	Cation/Ca2+
C52	OG1_5_3629	Bmihu1 373149	4.65E+00	1.00E+00	na	na	na	na	Gamma carb
C53	OG1_5_8461	Emi379 CAMPEP_0187618850 Emi370 CAMPEP_0187679070; Emi219 CAMPEP_0187761588; Emihu1 196760; Emihu1 196761	505.18E+00	9.57E-01	3.39E+00	1.00E+00	4.94E+00	1.00E+00	HCO3-transp
C54	OG1_5_1850	Emi370 CAMPEP_0187668076 Emi219 CAMPEP_0187765136; Emihu1 63173	55.24E+00	9.57E-01	3.33E+00	1.00E+00	4.06E+00	1.00E+00	Putative carb
C55	OG1_5_3935	Emi374 CAMPEP_0187610370 Emi379 CAMPEP_0187632604; Emi370 CAMPEP_0187704728; Emi370 CAMPEP_0187701064; Emi219 CAMPEP_0187747838; Emihu1 464223	505.53E+00	7.79E-01	4.18E+00	9.10E-01	5.50E+00	9.36E-01	Na+/H+ ant

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
C56	OG1_5_2387	Emi374 CAMPEP_0187585782 Emi379 CAMPEP_0187614328; Emi370 CAMPEP_0187731316; Emi370 CAMPEP_0187699958; Emi219 CAMPEP_0187805666; Emihu1 457487; Emihu1 457738	26.00E+00	3.44E-01	4.75E+00	6.32E-01	6.33E+00	2.54E-01	Riboflavin sp
C57	OG1_5_1708	Emi370 CAMPEP_0187683602 Emi219 CAMPEP_0187746604; Emihu1 196090	26.04E+00	3.44E-01	5.07E+00	8.04E-01	6.26E+00	3.21E-01	Predicted Na
C58	OG1_5_2743	Emi379 CAMPEP_0187617490 Emihu1 352209	906.96E+00	1.54E-01	5.62E+00	2.75E-01	6.09E+00	7.17E-01	ATPase V1 s
C59	OG1_5_1727	Emi374 CAMPEP_0187584770 Emi370 CAMPEP_0187693076; Emihu1 359783	8.62E+00	3.60E-04	6.50E+00	4.43E-02	8.23E+00	1.63E-03	Vacuolar H+

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
H0	OG1_5_1029	Emi379 CAMPEP_0187628532; 2.60E+00 Emi379 CAMPEP_0187626308; Emi379 CAMPEP_0187613134; Emi379 CAMPEP_0187615380; Emi379 CAMPEP_0187654552; Emi379 CAMPEP_0187657590; Emi379 CAMPEP_0187658744; Emi379 CAMPEP_0187655632; Emi379 CAMPEP_0187656722; Emi379 CAMPEP_0187658366; Emi379 CAMPEP_0187636280; Emi379 CAMPEP_0187639760; Emi379 CAMPEP_0187646850; Emi379 CAMPEP_0187648976; Emi379 CAMPEP_0187629846; Emi370 CAMPEP_0187701206; Emihu1 253884; Emihu1 44504; Emihu1 41447; Emihu1 75464; Emihu1 73777; Emihu1 76516; Emihu1 243813; Emihu1 67811; Emihu1 230030; Emihu1 211505; Emihu1 99888; Emihu1 65110; Emihu1 62200	32; 2.60E+00 Emi379 CAMPEP_0187626308; Emi379 CAMPEP_0187613134; Emi379 CAMPEP_0187615380; Emi379 CAMPEP_0187654552; Emi379 CAMPEP_0187657590; Emi379 CAMPEP_0187658744; Emi379 CAMPEP_0187655632; Emi379 CAMPEP_0187656722; Emi379 CAMPEP_0187658366; Emi379 CAMPEP_0187636280; Emi379 CAMPEP_0187639760; Emi379 CAMPEP_0187646850; Emi379 CAMPEP_0187648976; Emi379 CAMPEP_0187629846; Emi370 CAMPEP_0187701206; Emihu1 253884; Emihu1 44504; Emihu1 41447; Emihu1 75464; Emihu1 73777; Emihu1 76516; Emihu1 243813; Emihu1 67811; Emihu1 230030; Emihu1 211505; Emihu1 99888; Emihu1 65110; Emihu1 62200	1.24E-05	-1.44E+00	2.25E-02	-1.88E+00	4.28E-03	Dynein heavy

Table D.3: My caption

ID	Orthologus Group	Transcripts	log2(+N/Control)	FDR	log2(-P/Control)	FDR	log2(+DSW/Control)	FDR	Manu
H1	OG1_5_2483	Emi374 CAMPEP_0187589678; Emi379 CAMPEP_0187646876; Emi370 CAMPEP_0187693628; Emi219 CAMPEP_0187794618; Emihu1 371985; Emihu1 66170; Emihu1 358281	1.52E+00	4.32E-02	-1.84E+00	1.02E-02	-1.66E+00	1.89E-02	putative Hist
H2	OG1_5_4094	Emihu1 211369	1.04E+00	1.00E+00	1.51E+00	8.76E-01	8.54E-01	1.00E+00	hypothetical
H3	OG1_5_1870	Emi374 CAMPEP_01875815061; Emi370 CAMPEP_0187734910; Emihu1 240085	1.25E+00	5.11E-01	1.16E+00	6.60E-01	1.44E+00	3.79E-01	Possible DNA
H4	OG1_5_3429	Emi374 CAMPEP_01875965041; Emi370 CAMPEP_0187736158; Emi370 CAMPEP_0187684086; Emi219 CAMPEP_0187803560; Emihu1 123683; Emihu1 117997	1.61E+00	9.70E-01	1.42E+00	1.00E+00	9.95E-01	1.00E+00	Possible DNA
H5	OG1_5_2778	Emi379 CAMPEP_01876522564; Emihu1 199727	1.19E+00	1.00E+00	4.60E+00	6.51E-01	5.01E+00	1.00E+00	Hypothetical