Supplementary materials 3 - Proteomic Analysis of Ammonia-Induced Stress in Chinese Hamster Ovary (CHO) Cell Cultures.

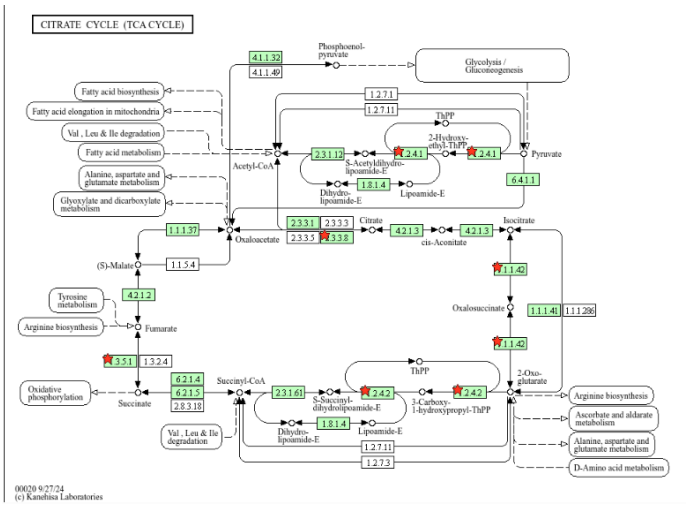
Section 1

Total numbers of proteins identified using SEQUEST HT against a *Cricetulus griseus* protein database, derived from a UniProt repository Taxon – 10029, proteome ID UP001108280 (downloaded September 2024), as described in the methodology section.

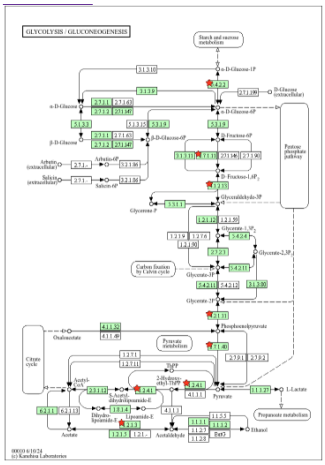
Total Proteins	>= 2 peptides matched	Peptide Spectral Matches	MS/MS
NISTCHO 48hrs 0mM			
5324	3080	56189	202606
NISTCHO 48hrs 10mM			
5282	3062	58221	202305
NISTCHO 48hrs 30mM			
4898	2689	48257	195471
NISTCHO 120hrs 0mM			
5323	3057	57882	193247
NISTCHO 120hrs 10mM			
5001	2813	44339	187266
NISTCHO 120hrs 30mM			
4686	2569	47022	163305

Total Proteins	>= 2 peptides matched	Peptide Spectral Matches	MS/MS
CHO-DP12 48hrs 0mM			
5354	3176	60697	201554
CHO-DP12 48hrs 10mM			
5704	3376	65308	206505
CHO-DP12 48hrs 30mM			
5339	3091	58679	202460
CHO-DP12 120hrs 0mM			
5334	3160	64456	207995
CHO-DP12 120hrs 10mM			
5547	3267	66627	210655
CHO-DP12 120hrs 30mM			
5272	3090	58054	200380

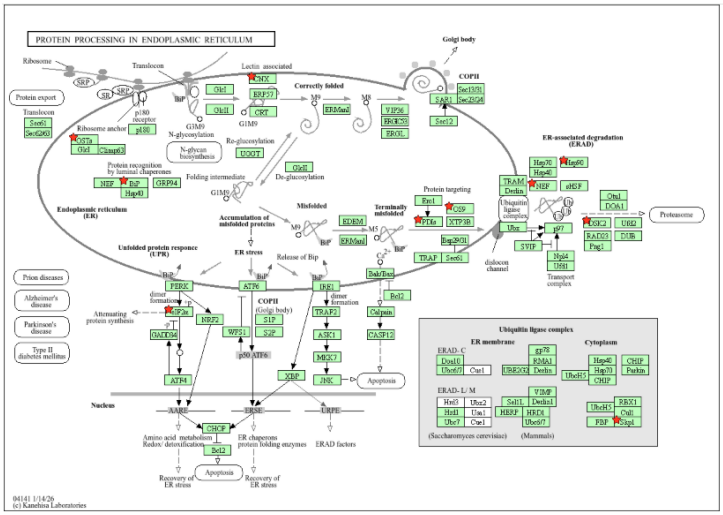
Section 2 Annotated KEGG Pathways



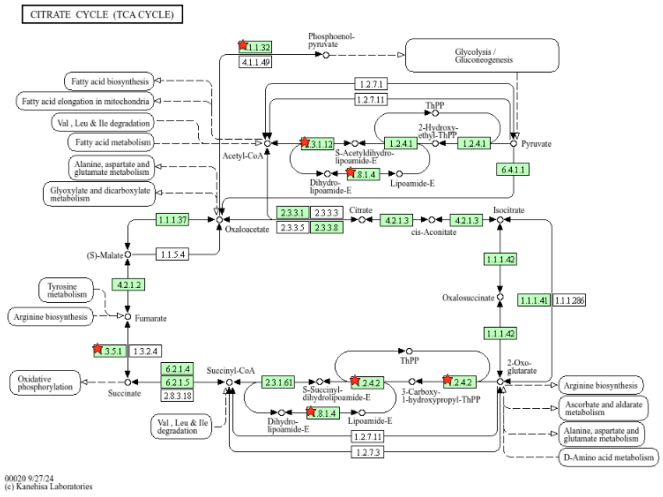
TCA Cycle (cge00020) enrichment from CHO-DP12 cells exposed to 10mM and 30mM ammonia supplementation, 48 hours after supplementation.



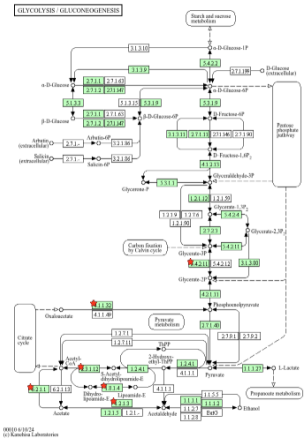
Glycolysis/Gluconeogenesis (cge00010) enrichment from CHO-DP12 cells exposed to 10mM and 30mM ammonia supplementation, 48 hours after supplementation.



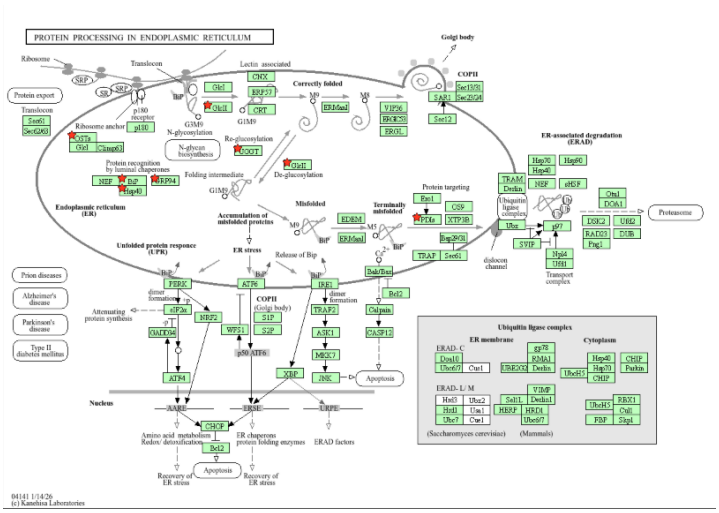
Protein processing in endoplasmic reticulum (cge04141) enrichment from CHO-DP12 cells exposed to 10mM and 30mM ammonia supplementation, 48 hours after supplementation.



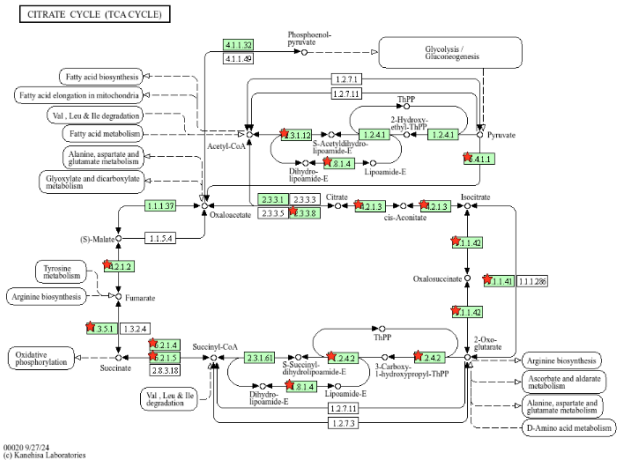
TCA Cycle (cge00020) enrichment from NISTCHO cells exposed to 10mM and 30mM ammonia supplementation, 48 hours after supplementation.



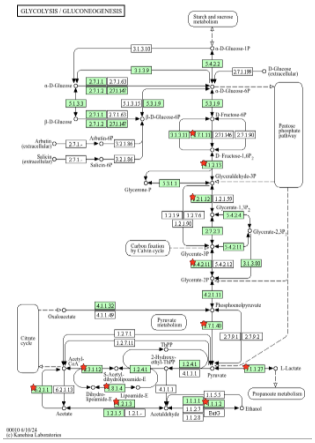
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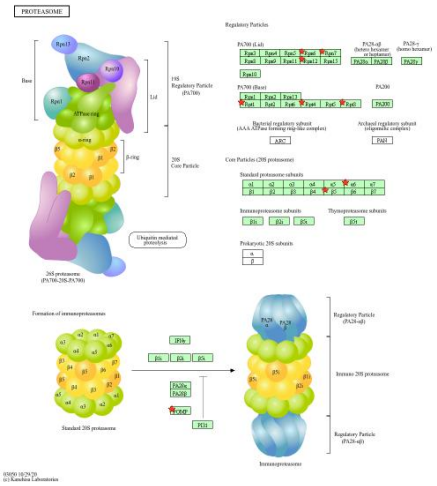
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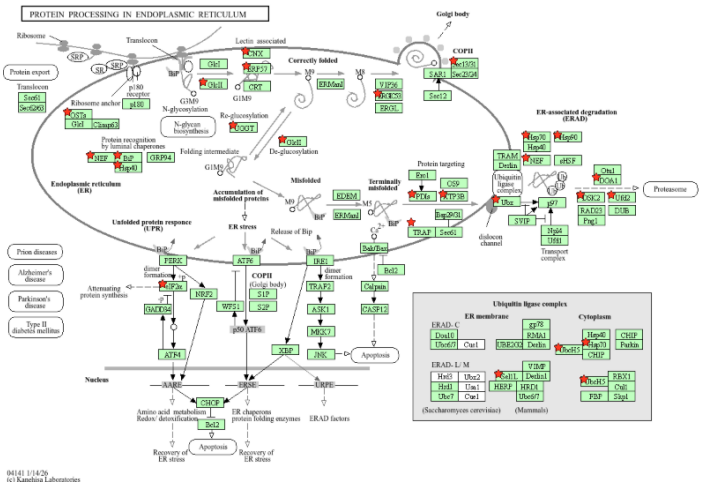
TCA Cycle (cge00020) enrichment from CHO-DP12 cells exposed to 10mM and 30mM ammonia supplementation, 120 hours after supplementation.



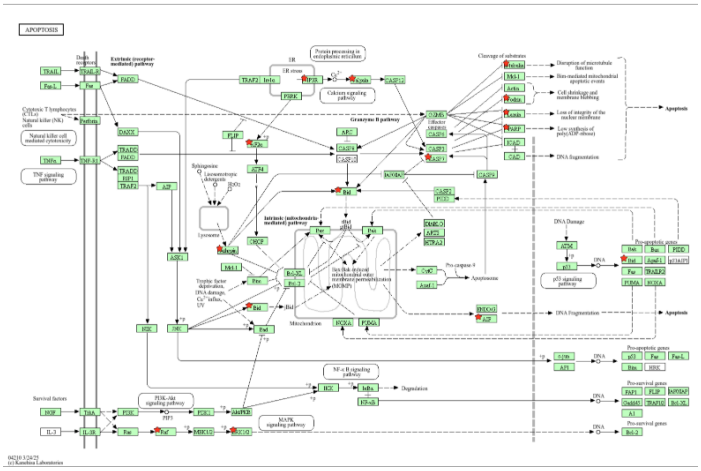
Glycolysis/Gluconeogenesis (cge00010) enrichment from CHO-DP12 cells exposed to 10mM and 30mM ammonia supplementation, 120 hours after supplementation.



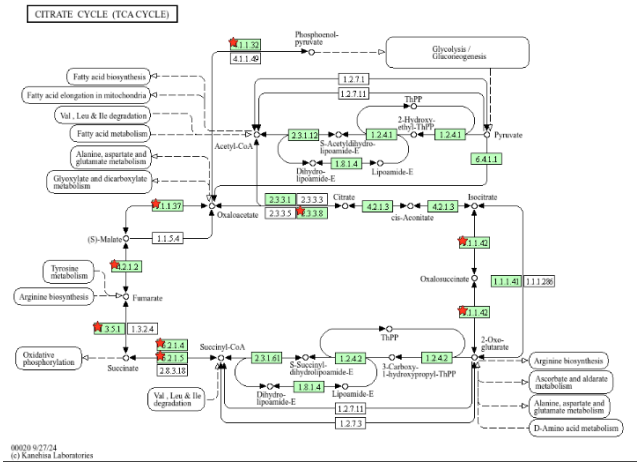
Proteasome (cge03050) enrichment from CHO-DP12 cells exposed to 10mM and 30mM ammonia supplementation, 120 hours after supplementation.



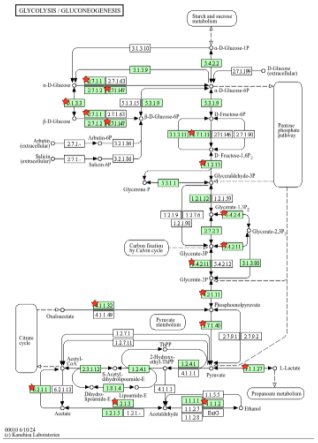
Protein processing in endoplasmic reticulum (cge04141) enrichment from CHO-DP12 cells exposed to 10mM and 30mM ammonia supplementation, 120 hours after supplementation.



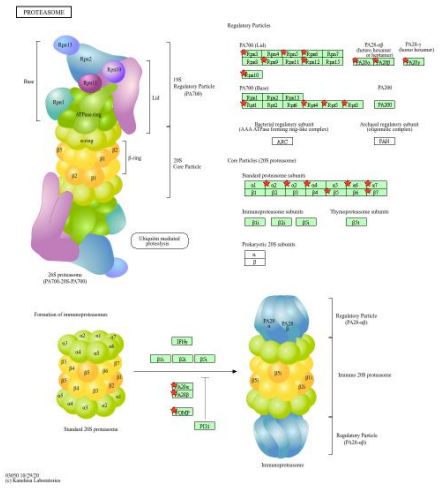
Apoptosis (cge04210) enrichment from NISTCHO cells exposed to 10mM and 30mM ammonia supplementation, 120 hours after supplementation.



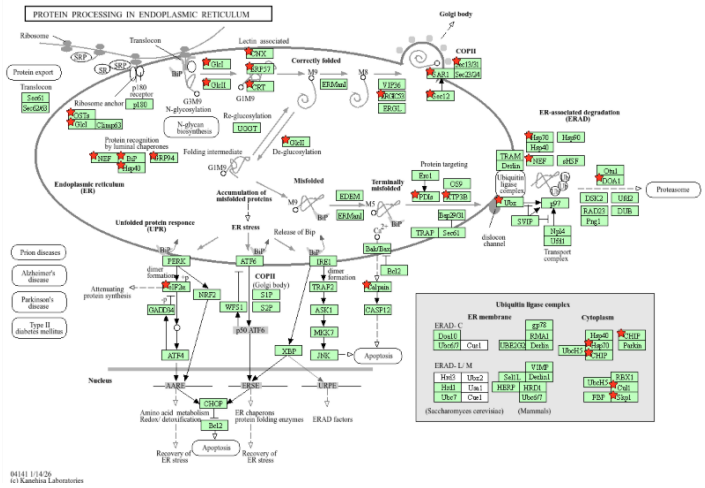
TCA Cycle (cge00020) enrichment from NISTCHO cells exposed to 10mM and 30mM ammonia supplementation, 120 hours after supplementation.



Glycolysis/Gluconeogenesis (cge00010) enrichment from NISTCHO cells exposed to 10mM and 30mM ammonia supplementation, 120 hours after supplementation.



Proteasome (cge03050) enrichment from NISTCHO cells exposed to 10mM and 30mM ammonia supplementation, 120 hours after supplementation.



Protein processing in endoplasmic reticulum (cge04141) enrichment from NISTCHO cells exposed to 10mM and 30mM ammonia supplementation, 120 hours after supplementation.