





-	
/	

Protein	P-Value	Fold Change	Function
Hydromethylbilane Synthase (HMBS)	2.06E-05	0.834	Heme production
Carbonic Anhydrase 1 (CA1)	2.95E-05	0.758	Hydration/dehydration of CO2. Promotes calcium precipitation (bone formation)
Carbonic Anhydrase 3 (CA3)	5.66E-04	0.554	Skeletal specific hydration/dehydration of CO2
Carbonic Anhydrase 2 (CA2)	7.71E-05	0.769	Hydration/dehydration of CO2. Defects associated with disease
Biliverdin Reductase B (BLVRB)	2.17E-04	0.695	Reduces biliverdin to bilirubin which acts as an antioxidant
Pyruvate Kinase L/R (PKLR)	4.59E-04	0.776	Last step of the glycolytic pathway
Peroxiredoxin-2 (PRDX2)	1.06E-03	0.702	Acts as an antioxidant by interacting with hydrogen

differences between the AS and HC samples and corresponding p-values. C) A table showing 6 statistically downregulated, and E) significantly upregulated metabolites. Statistical analyses for metabolite plots were performed using Mann-Whitney tests. altered proteins that impact metabolism. Parametric T-tests were performed for statistical analyses.

Search for new biomarkers reveals altered metabolic signature in plasma of axSpA patients Courtney M. Cowan^{1,2}, Andrew Stahly², Adam Lefferts², Emilie H. Regner³, Fatemeh Navid⁴, Robert A. Colbert⁴, Eric M. Pietras¹, Liron Caplan², Kristine A. Kuhn².

Hematology Research