

**Study Design: Melania Capasso 4/6/2016**

**Platform:** Primary metabolism (GCTOF MS)

**Samples:** human multiple myeloma cell lines, 12, 10 million

**Sample Prep:** cells were harvested and washed in PBS three times before being frozen as cell pellets.

**Treatments:** 3 treatment, 4 samples per treatment group, Treatments are cells with a scrambled shRNA, clone 5 HVCN1 shRNA, clone 6 HVCN1 shRNA

**Interest:** our initial data were on glycolysis and TCA cycle substrates

**Notes:**

**Study Design Abstract:** The proton channel HVCN1 is expressed in B cell malignancies at high levels but its role remains unclear. From initial experiments during which HVCN1 was downregulated in human multiple myeloma cell lines, we observed an increase in some glycolytic and TCA metabolites. We want to get a better idea if HVCN1 is playing a role in regulating energy metabolism in multiple myeloma.