**S5 FIG**



**S5 Fig:** MDS plots. Samples that are less similar are separated by larger distances, whereas samples that are most similar occupy closer positions in the plots. At the gene level, the *cryaa*-R49C-homo samples were clustered together on the x- and y-axes and were separated from the spots corresponding to WT and *cryaa*-R49C-het samples. In contrast, at the transcript level, two of the *cryaa*-R49C-homo samples were separated from the third, demonstrating the biological coefficient of variation between the three replicates. *Cryab*-R120G mouse lenses were separated from the *cryaa*-R49C mouse lenses along the second dimension (y-axis). The *cryab* samples exhibited increased variance between the three genotypes. That is, each of the three WT, heterozygous, and homozygous *cryab*-R120G mutants varied significantly.