



**Supplementary Fig. 4.** Discriminant analysis of principal components (DAPC) using the first 3 principle components. **a.** Case status show a clear separation between the tumor and normal groups. **b.** Genders and **c.** Tumor location do not affect the does not appear to significantly impact the miRNA expression. Statistical significances are tested using two-sample Kolmogorov-Smirnov test, multiple comparisons are adjusted using false discovery rate (FDR) method.