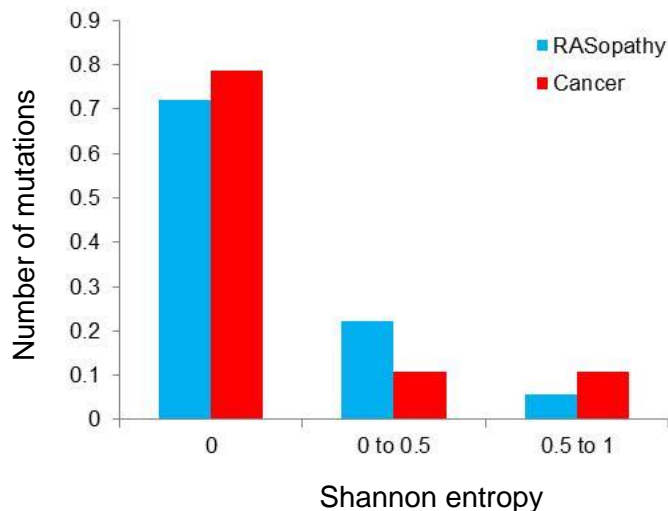
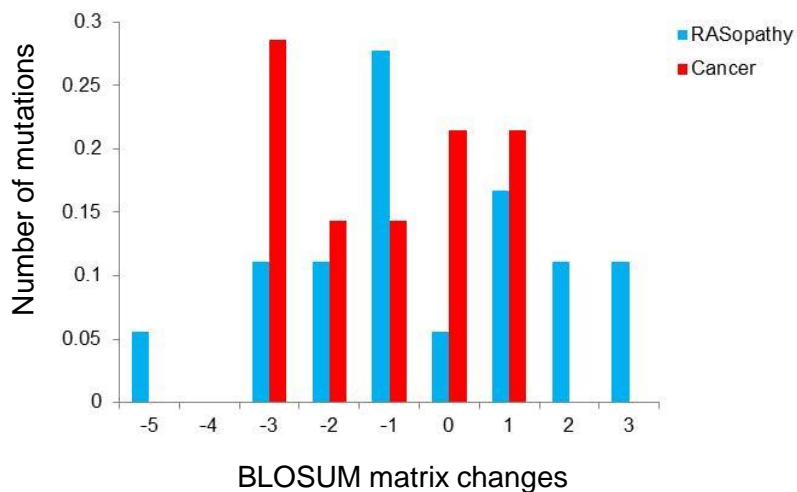


**A**



**B**



**Supplementary Figure S11.** Sequence-based analysis of a gold set of RASopathy and cancer missense mutations. **(A)** Shannon entropy values for amino acid positions. Higher values indicate less evolutionary conserved amino acid positions. **(B)** BLOSUM matrix changes for amino acid substitutions. Higher values indicate substitution with higher similar physiochemical properties of amino acids.