



**Supplemental Figure S27.** Further properties of RH growth genes. (A) Increased sensitivity to loss-of-function (LOF) variants (observed/expected) for RH growth genes. (B) Decreased human/mouse functional sequence divergence (dN/dS) of RH growth genes. (C) Increased number of species with orthologs of RH growth genes. (D) Increased gene lengths for coding region (cr) and (E) non-coding (nc) RH growth genes. (F) Increased transcript lengths for cr and (G) nc RH growth genes. (H) Increased exon numbers for cr and (I) nc RH growth genes. (J) Increased coding sequence (cds) lengths for cr RH growth genes. (K) ROC curves for RH growth genes. Area under the curve (AUC) given in brackets.  $P$  values above comparisons, Welch's Two Sample  $t$ -test. All ROC curves  $P < 4.9 \times 10^{-4}$ , Wilcoxon rank sum test.