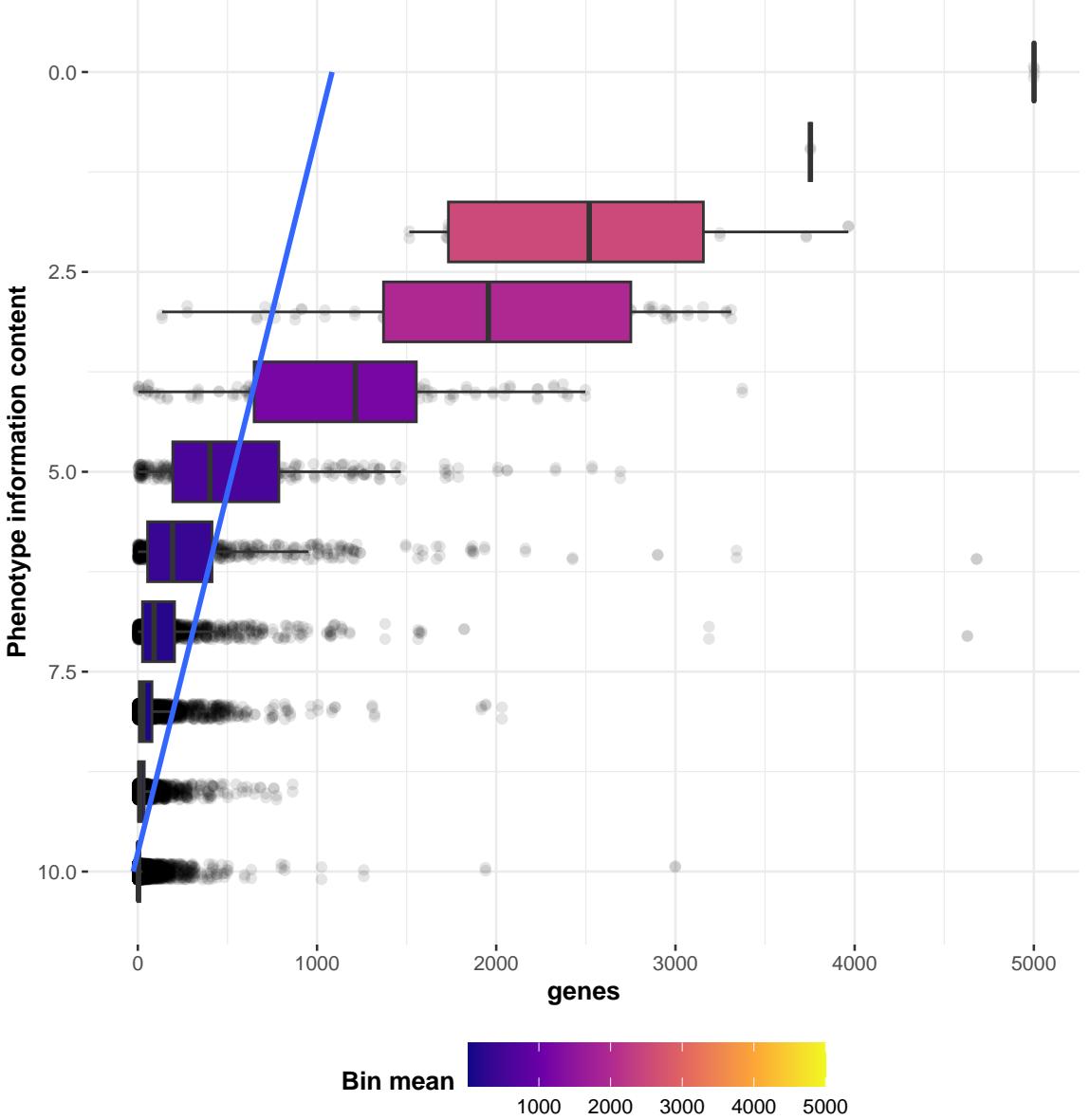
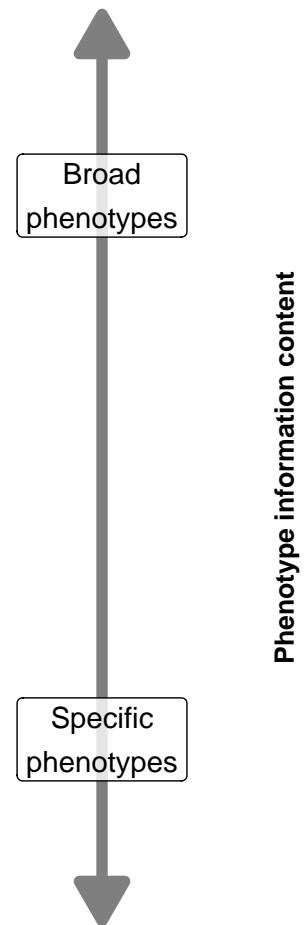


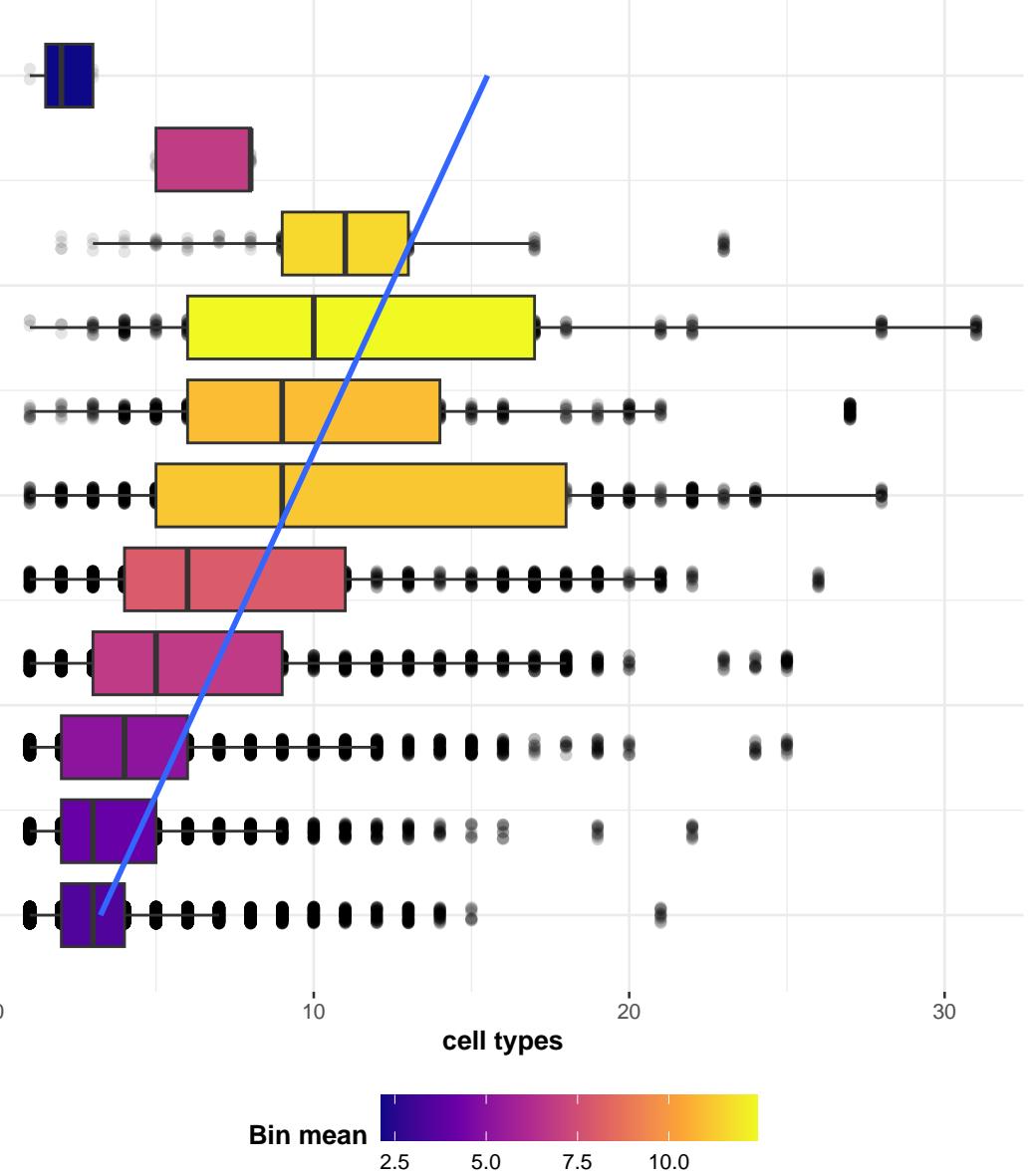
Phenotype level vs. genes

$t_{\text{Student}}(21971) = -101.13, p = 0.00, \hat{r}_{\text{Pearson}} = -0.56, \text{CI}_{95\%} [-0.57, -0.55], n_{\text{pairs}} = 21,973$



Phenotype level vs. cell types (FDR<0.05)

$t_{\text{Student}}(46512) = -119.75, p = 0.00, \hat{r}_{\text{Pearson}} = -0.49, \text{CI}_{95\%} [-0.49, -0.48], n_{\text{pairs}} = 46,514$



Phenotype level vs. estimate (FDR<0.05)

$t_{\text{Student}}(45576) = 27.04, p = 8.30e-160, \hat{r}_{\text{Pearson}} = 0.13, \text{CI}_{95\%} [0.12, 0.13], n_{\text{pairs}} = 45,578$

