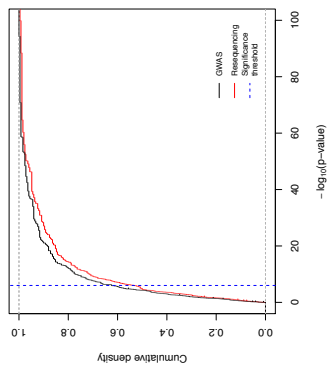
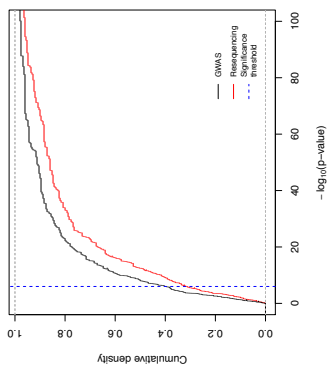


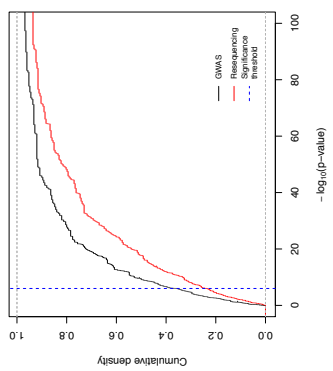
(a) $\lambda = 0$



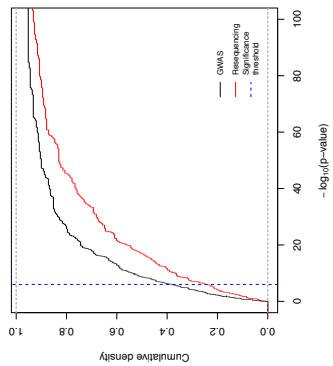
(b) $\lambda = 0.01$



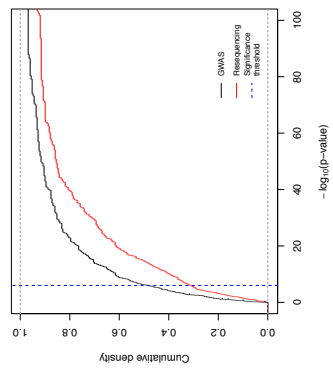
(c) $\lambda = 0.025$



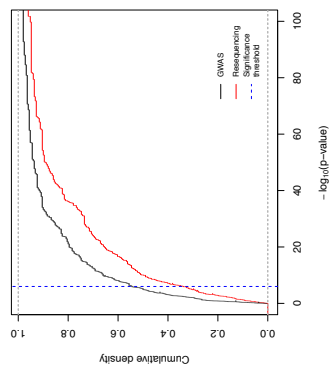
(d) $\lambda = 0.05$



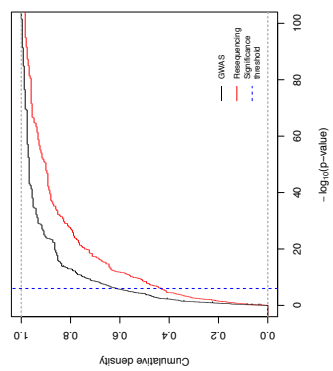
(e) $\lambda = 0.075$



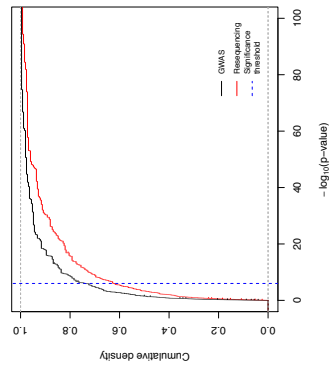
(f) $\lambda = 0.1$



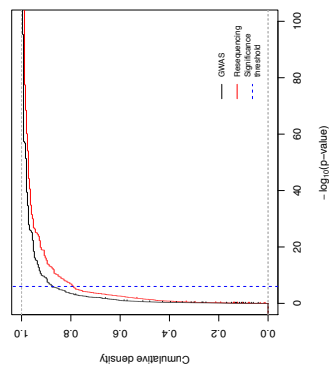
(g) $\lambda = 0.125$



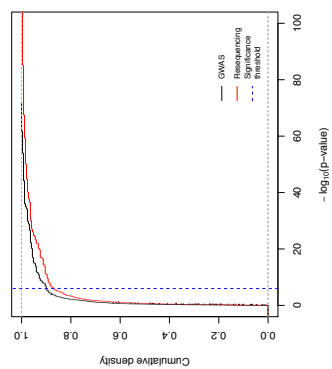
(h) $\lambda = 0.175$



(i) $\lambda = 0.25$



(j) $\lambda = 0.35$



(k) $\lambda = 0.5$

Figure S9: Distributions of $-\log_{10}$ p-values for the ESM statistic (see Methods).