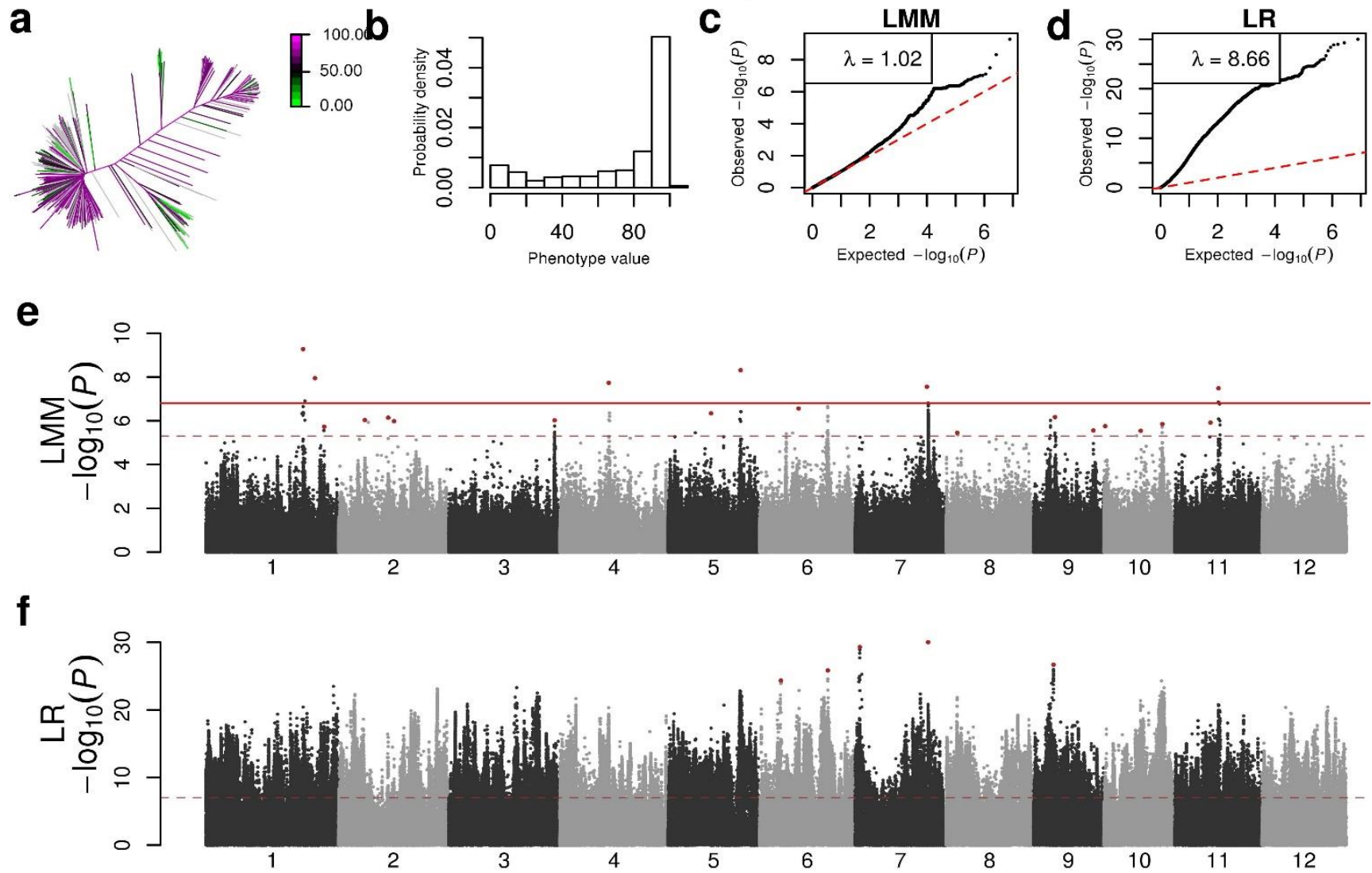
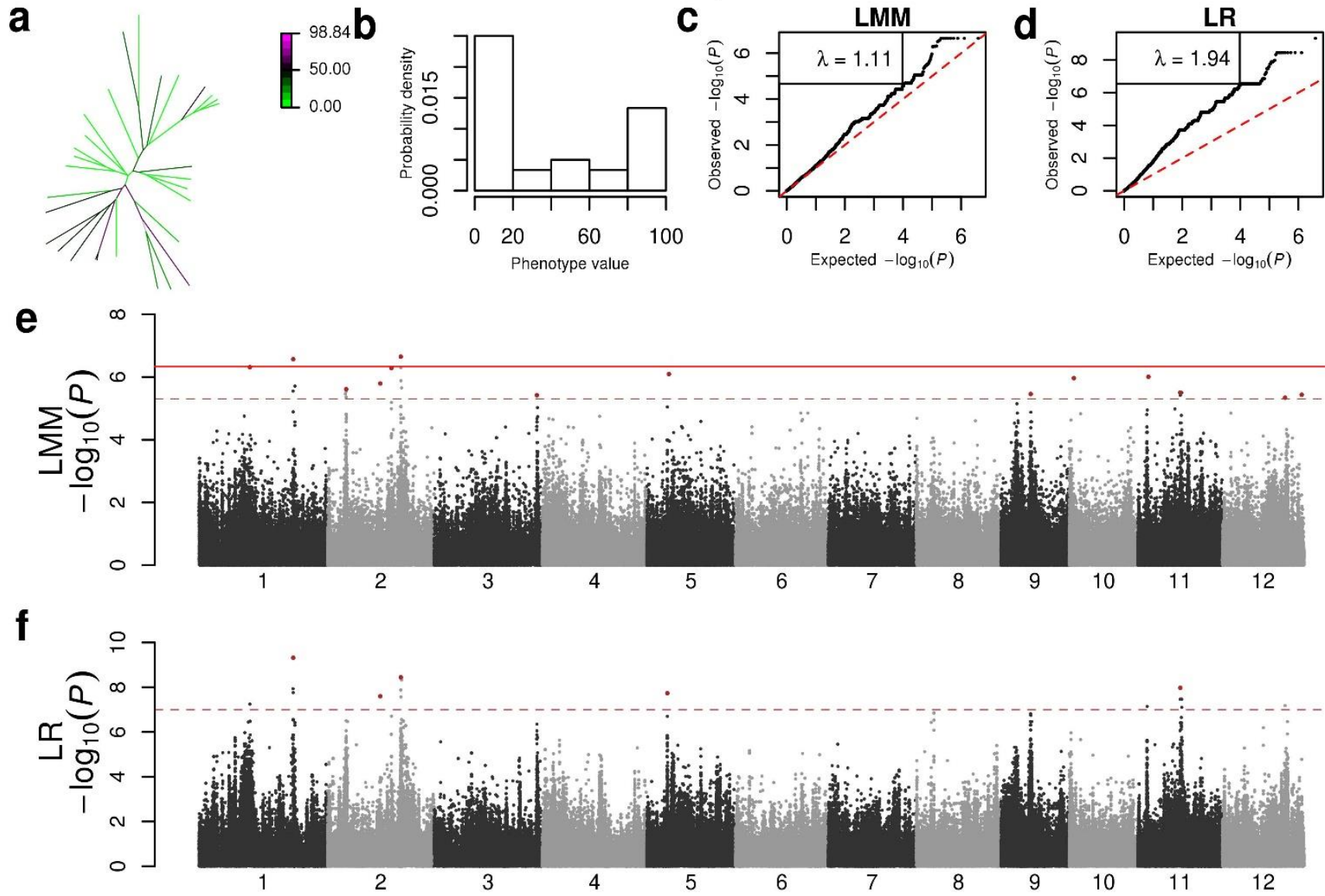


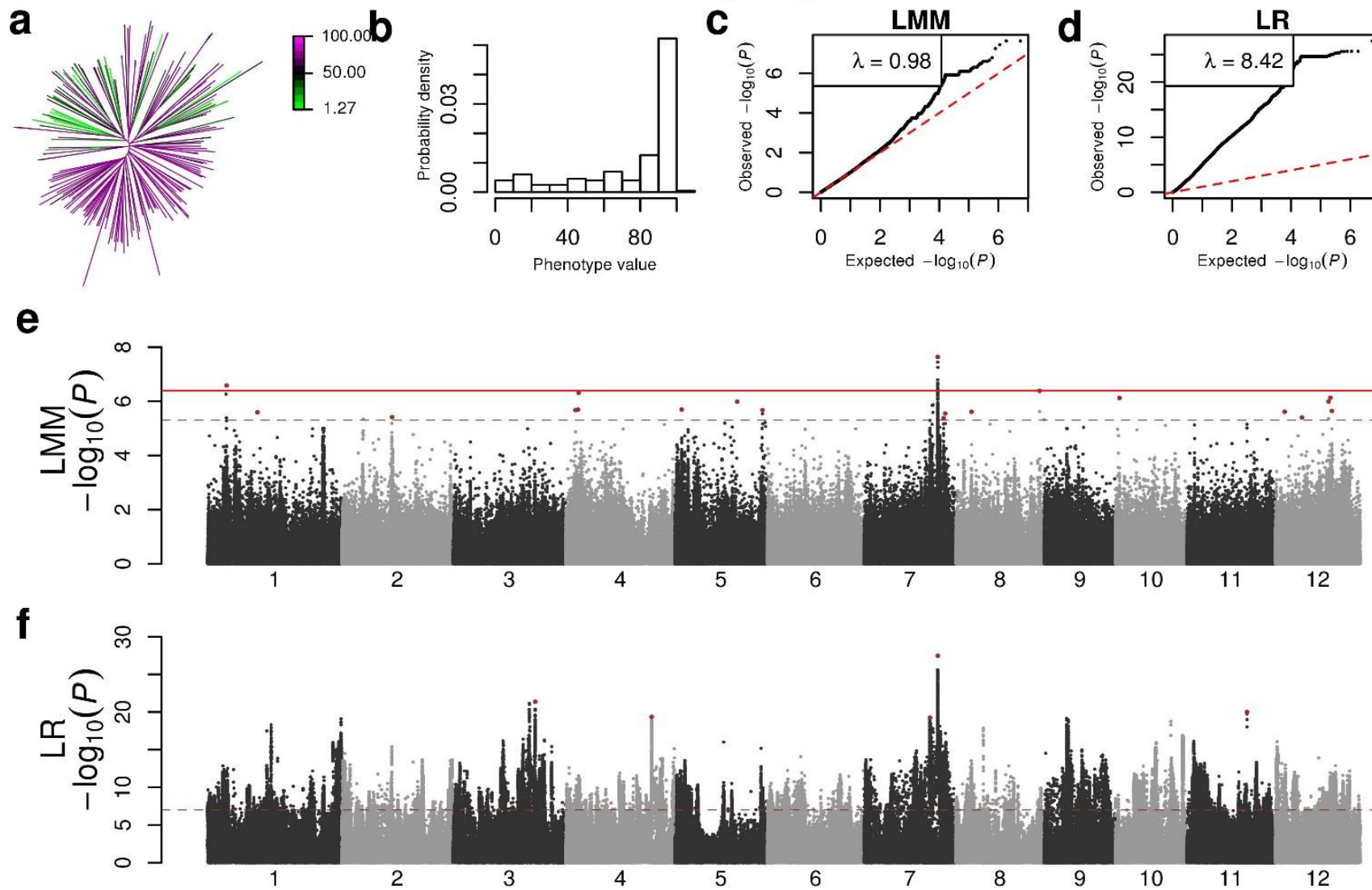
Trait: GP Pop: All

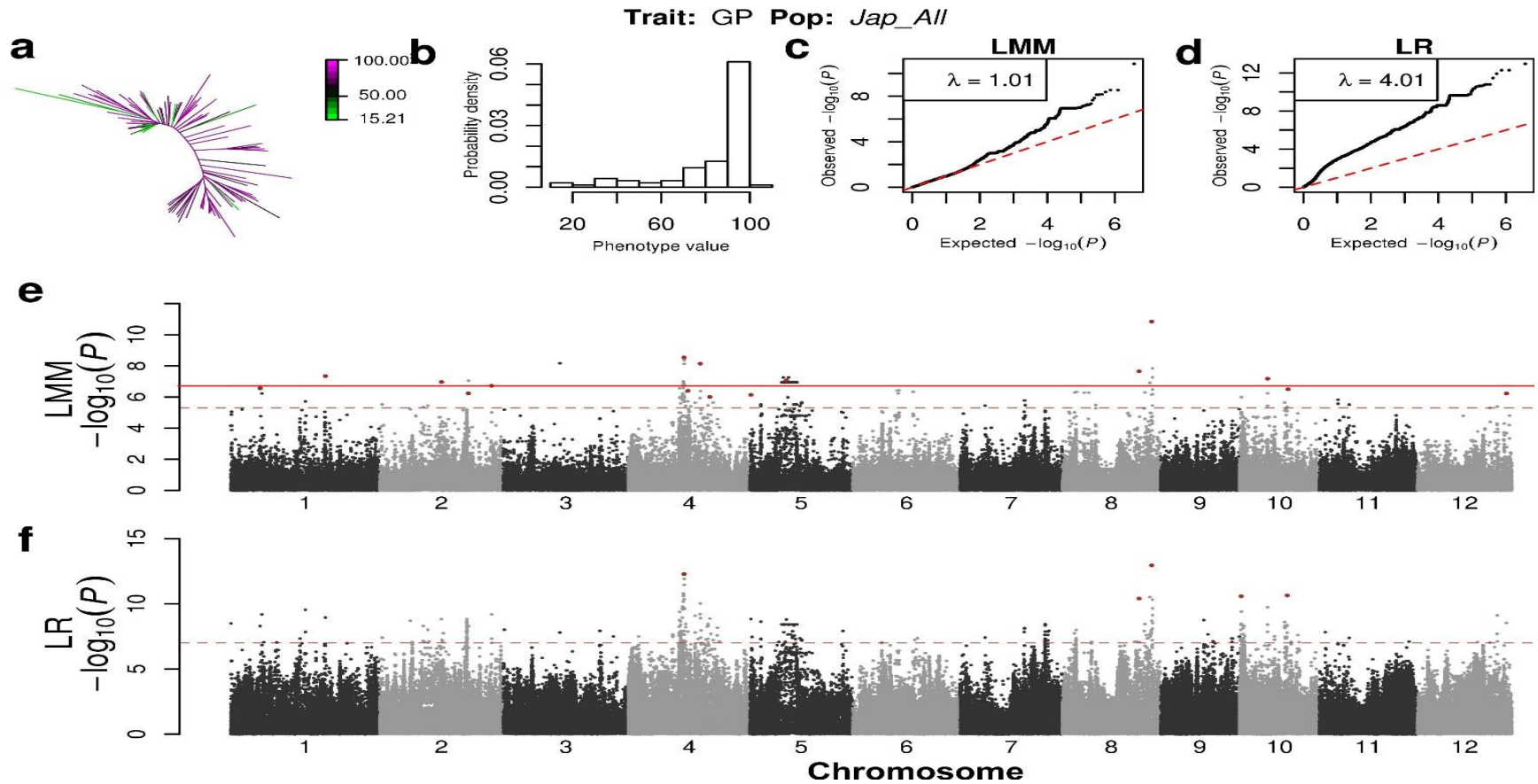


Trait: GP Pop: *Aus*



Trait: GP Pop: *Ind_All*





Additional file 6: The GWAS analysis results and quantile-quantile (Q-Q) plots of p-values for germination percentage (GP) of freshly harvested seeds (FHS) in whole, Aus, indica and japonica populations in our study.

- a)** Neighbor- joining tree of rice varieties in a corresponding population. **(b)** A histogram of the phenotype in the population **(c-d)** Quantile- Quantile plot of the expected null distribution and the observed P-value using the Linear mixed model **(c)** and linear regression model **(d)**. **(e-f)** Genome-wide P-values for the mixed model **(e)** and the simple linear regression model.