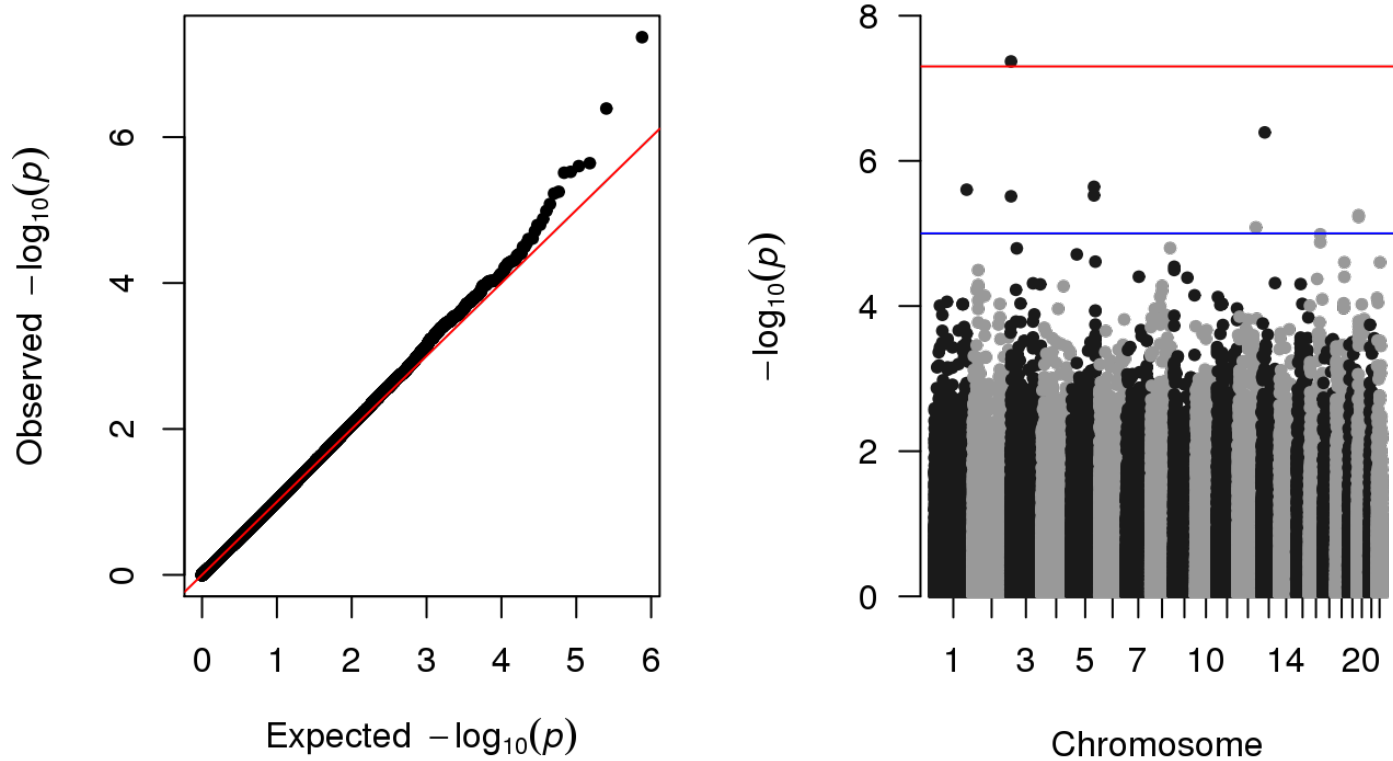
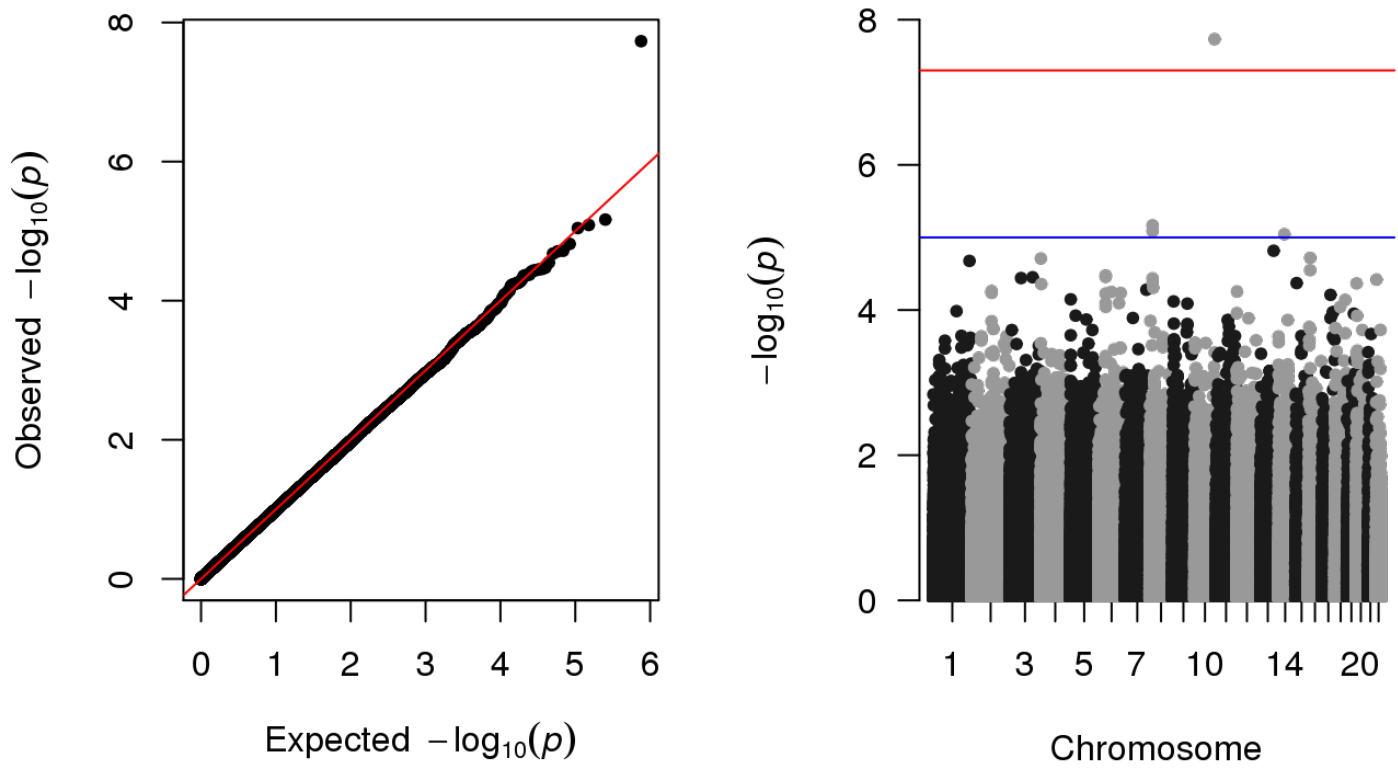


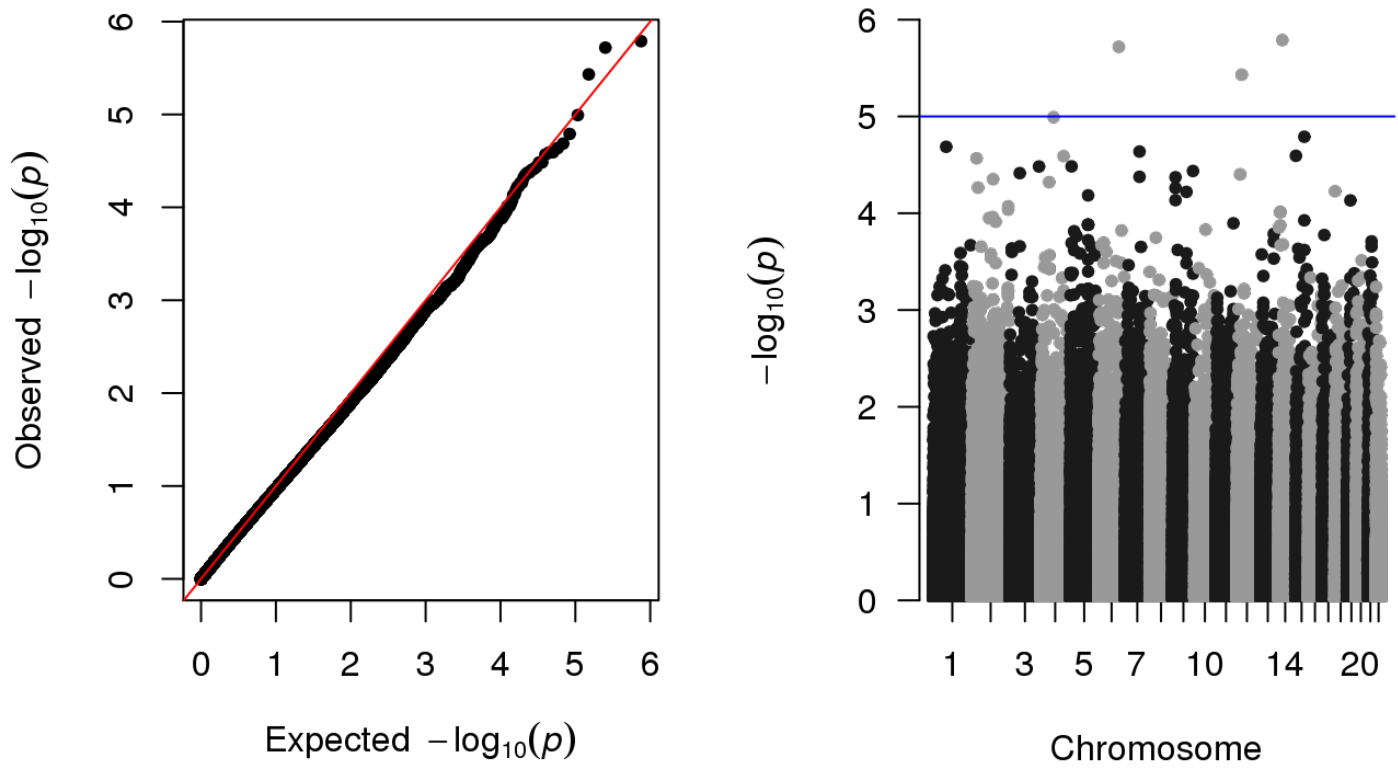
**Supplementary Figure 1:** Quantile-Quantile and Manhattan plots of GWAS results of the FHS  $\Delta$ BMI phenotype in any cancer cases



**Supplementary Figure 2:** Quantile-Quantile and Manhattan plots of GWAS results of the FHS  $\Delta$ BMI phenotype in COPD cases



**Supplementary Figure 3:** Quantile-Quantile and Manhattan plots of GWAS results of the FHS  $\Delta$ BMI phenotype in GI cancer cases



**Supplementary Figure 4:** Quantile-Quantile and Manhattan plots of GWAS results of the FHS  $\Delta$ BMI phenotype in lung cancer case