**Supplementary Figure 1** Manhattan plot of conjunction  $-\log_{10}$  ccFDR values for potential pleiotropic SNPs. The red line marking the conditional  $-\log_{10}$  ccFDR value of 1.3 corresponds to ccFDR < 0.05. The figure represents genomic locations of potential pleiotropic SNPs associated with both ALM and BMD. Details of the potential pleiotropic SNPs are listed in Supplementary Table 1.

