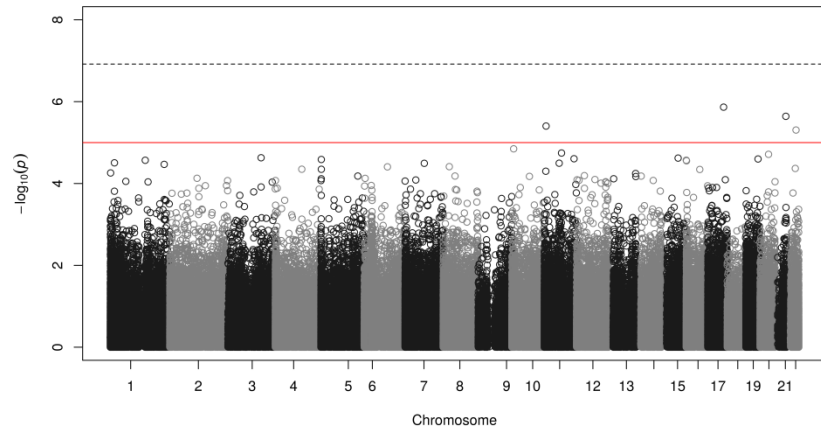**Supplemental Digital Content 9. Manhattan plots and QQ plots of the associations between DNA methylation and PA variables in the discovery stage of model 3.** Plots are given for the linear (a) and non-linear (b) associations between DNA methylation and total PA (TPA) from the main analysis.

a. TPA – linear

b. TPA – non-linear