**S2 Figure A-J**: Regional association plots for the independent SNPs that are significantly associated with Horvath-EAA. Plots were produced in LocusZoom. The SNP association *P*-value is given on the y-axis, and SNP position, with gene annotation, on the x-axis. LD calculations are taken from hg19/1000 Genomes European build. Individual SNPs are coloured according to the strength of LD (*r2*) with the lead SNP.

**S2A Figure**: Regional association plot for rs1011267, an intronic SNP in C1orf112 on chromosome 1, showing LD with SNPs in the surrounding region.



**S2B Figure**: Regional association plot for rs79070372, a non-coding transcript variant on chromosome 3 (closest genes GATA2/AS1), showing LD with SNPs in the surrounding region.

 

**S2C Figure**: Regional association plot for rs388649, an intronic SNP in PIK3CB on chromosome 3, showing LD with SNPs in the surrounding region.



**S2D Figure**: Regional association plot for rs6440667, an intronic SNP in LINC01214 on chromosome 3, showing LD with SNPs in the surrounding region.



**S2E Figure**: Regional association plot for rs2736099, an intronic SNP in TERT on chromosome 5, showing LD with SNPs in the surrounding region.



**S2F Figure**: Regional association plot for rs7744541, an intergenic variant on chromosome 6 (nearest gene NHLRC1), showing LD with SNPs in the surrounding region.



**S2F Figure**: Regional association plot for rs76244256, an intron variant in TPMT on chromosome 6 and the top ranking SNP for association with Horvath-EAA, showing LD with SNPs in the surrounding region.



**S2G Figure**: Regional association plot for rs4712953, an intronic SNP in SCGN on chromosome 6, showing LD with SNPs in the surrounding region.



**S2H Figure**: Regional association plot for rs10778517, a SNP of unknown function on chromosome 12 (nearest genes RP11-412D9.4 and TMEM263), showing LD with SNPs in the surrounding region.



**S2I Figure**: Regional association plot for rs62078811, an intron variant in STXBP4 on chromosome 17, showing LD with SNPs in the surrounding region.



**S2J Figure**: Regional association plot for the independent significantly associated SNP with Hannum-EAA, rs1005277. The plot was produced in LocusZoom. The SNP association *P-*value is given on the y-axis, and SNP position, with gene annotation, on the x-axis. LD calculations are taken from hg19/1000 Genomes European build. Individual SNPs are coloured according to the strength of LD (*r2*) with the lead SNP. The nearest gene to this SNP is the zinc finger protein ZNF25.

