

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Genome-wide significant cis-mQTL effects.

File Name: Supplementary Data 2

Description: Colocalized MS-mQTL effects.

File Name: Supplementary Data 3

Description: . cis-eQTL effects associated with colocalized MS-cismQTL effects.

File Name: Supplementary Data 4

Description: CpGs affected by MS MHC polygenic score (linear regression modeling t-statistics; two-sided P-values corrected for multiple comparisons).

File Name: Supplementary Data 5

Description: CpGs affected by MS total polygenic score (linear regression modeling t-statistics; two-sided P-values corrected for multiple comparisons).

File Name: Supplementary Data 6

Description: MS susceptibility loci associated with cg16050799 methylation (linear regression modeling t-statistics; two-sided nominal Pvalues).

File Name: Supplementary Data 7

Description: MS polygenic score calculation.

File Name: Supplementary Data 8

Description: EpiTYPER analysis primers.