



Figure S1. Targeted metabolome profile of spinal cord from >12-month-old KIN mice is shown. Volcano plot of differentially regulated metabolites, ordered by log₂ fold change on the X-axis versus significance ($-\log_{10} p$ -value) on the Y-axis, using a false discovery rate of 0.05 and an S0 of 0.1. Metabolites above the “volcano” lines were considered significantly dysregulated upon use of the Perseus software (v1.6.6.0). Ceramides are depicted in blue color, sphingomyelins in red, sphingosine in green, and all others in black.