

Supplementary Materials

Table S1. Primers used for quantitative real-time polymerase chain reaction analysis.

Gene symbol and name	QuantiTect Primer Assay name (Qiagen)
<i>APOE</i> rat (apolipoprotein E)	Rn_Apoe_1_SG
<i>APP</i> rat (amyloid precursor protein)	Rn_App_1_SG
<i>COL1a1</i> rat (collagen 1 alpha 1)	Rn_Col1a1_2_SG
<i>COL1a2</i> rat (collagen 1 alpha 2)	Rn_Col1a2_2_SG
<i>COL3a1</i> rat (collagen 3 alpha 1)	Rn_Col3a1_1_SG
<i>COL4a1</i> rat (collagen 4 alpha 1)	Rn_Col4a1_1_SG
<i>COL5a1</i> rat (collagen 5 alpha 1)	Rn_Col5a1_1_SG
<i>CTGF</i> rat (connective tissue growth factor 1)	Rn_Ctgf_1_SG
<i>FLI1</i> rat (Friend leukemia integration 1 transcription factor)	Rn_Fli1_1_SG
<i>FN1</i> rat (fibronectin 1)	Rn_Fn1_1_SG
<i>GAPDH</i> rat (glyceraldehydes-3-phosphate dehydrogenase)	Rn_Gapdh_1_SG
<i>PSEN1</i> rat (presenilin 1)	Rn_PSEN1_1_SG
<i>PSEN2</i> rat (presenilin 2)	Rn_RGD:621060_1_SG
<i>TGFb1</i> rat (transforming growth factor beta 1)	Rn_Tgfb1_1_SG

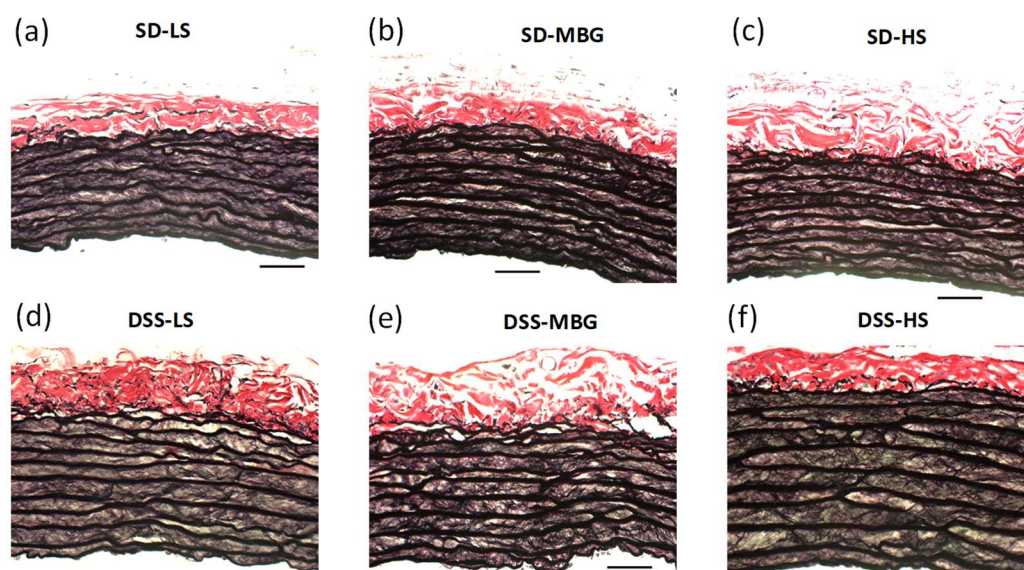


Figure S1. Collagen and elastin in rat aortae. (a–f) The representative photomicrographs of aortae stained by Verhoeff's stain (collagen is stained red, elastin is stained black) from each experimental group: (a) SD-LS; (b) SD-MBG; (c) SD-HS; (d) DSS-LS; (e) DSS-MBG; (f) DSS-HS. The difference in elastin abundance was non-significant between all groups. SD, Sprague-Dawley rats; DSS, Dahl salt sensitive rats; LS, low salt diet; MBG, marinobufagenin; HS, high salt diet. Scale bar is 50 μ m.

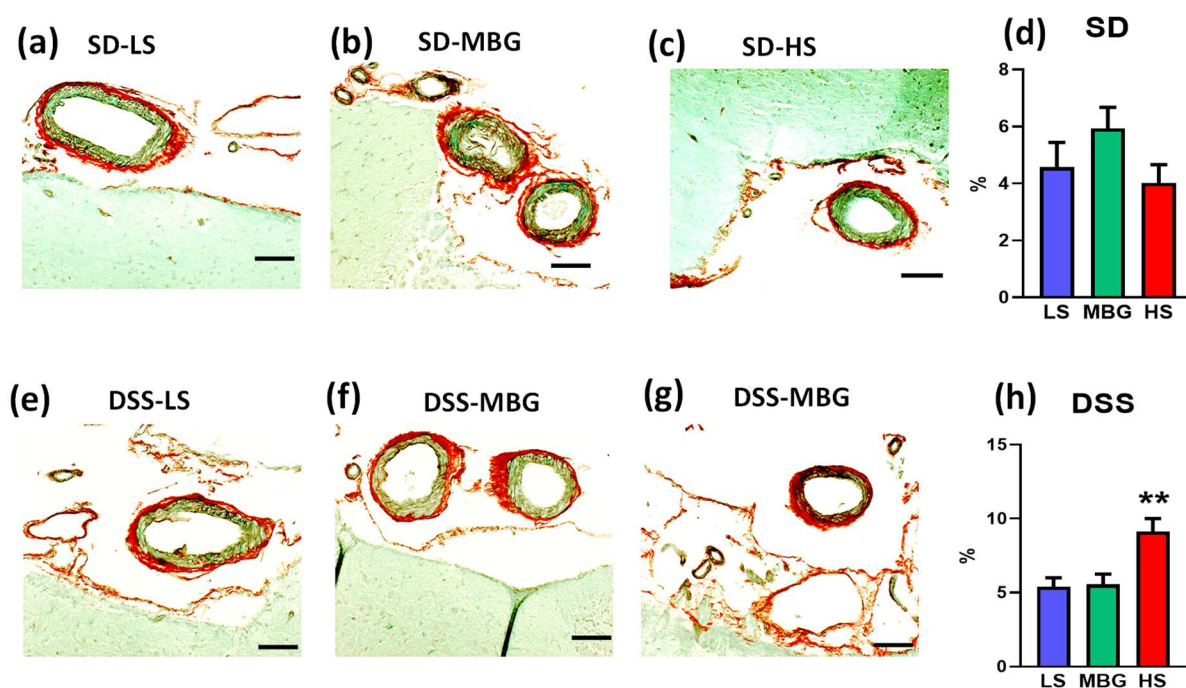


Figure S2. Collagen in arterial media in cerebral arteries. Representative photomicrographs of cerebral arteries from SD (a-c) and DSS (e-g) rats stained with Picro-Sirius Red Fast Green; collagen abundance in the arterial media in SD (d) and DSS (h). Collagen in the aortic wall is stained red; muscle and intracellular fibers are stained green ($n = 6$ rats/group; 2–7 images of arteries per rat). SD-LS (a), SD-MBG (b), SD-HS (c), DSS-LS (e), DSS-MBG (f), DSS-HS (g), SD (d), DSS (h). By 2-way ANOVA: ** $p < 0.01$ vs. LS. SD, Sprague-Dawley rats; DSS, Dahl salt-sensitive rats; LS, low-salt diet; MBG, marinobufagenin; HS, high-salt diet. Scale bar is 100 μm .