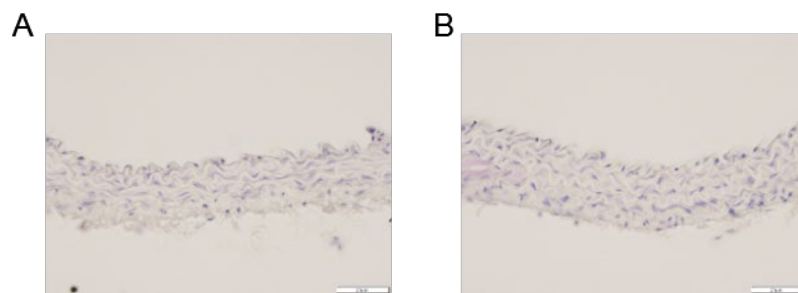


Supplemental Data

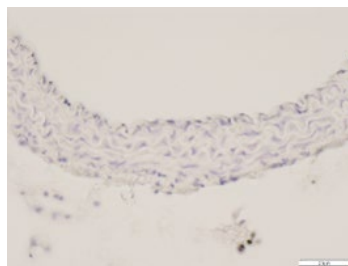
Peroxynitrite-mediated SIRT1 Inactivation Contributes to Nicotine-induced Arterial Stiffness in Mice

Ye Ding, Yi Han, Qiulun Lu, Junqing An, Huaiping Zhu, Zhonglin Xie, Ping Song,
Ming-Hui Zou

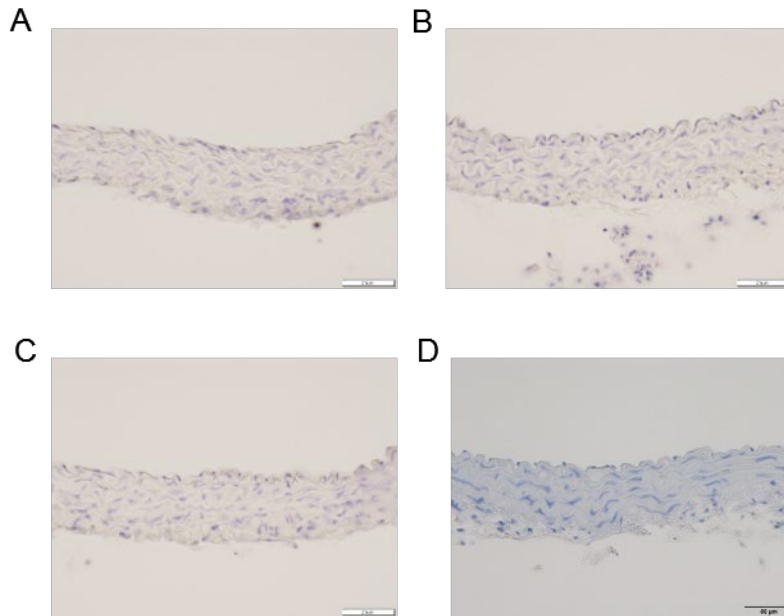
Center for Molecular and Translational Medicine, Georgia State University,
157 Decatur Street SE, Atlanta, GA 30303



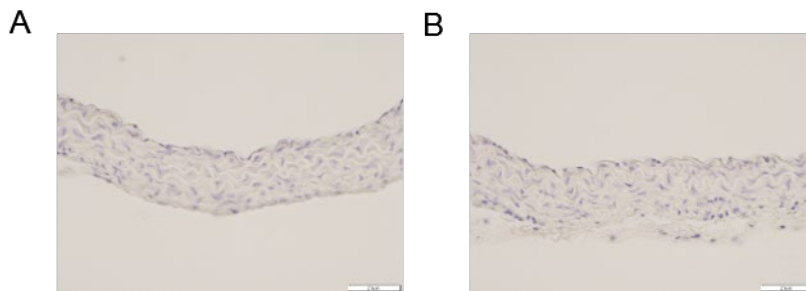
Online Figure I. Representative immunostaining for negative controls. **A**, Negative control for anti-Collagen I staining in Fig. 1F. **B**, Negative control for anti-Fibronectin staining in Fig. 1G.



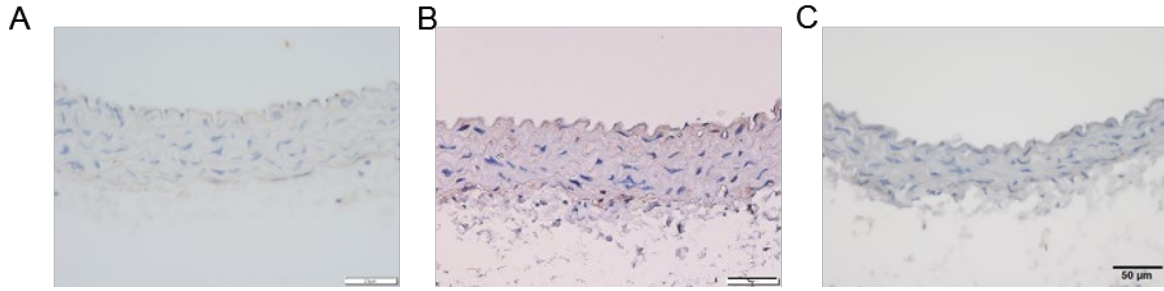
Online Figure II. Representative immunostaining for negative control of anti-SIRT1 staining in Fig. 2E.



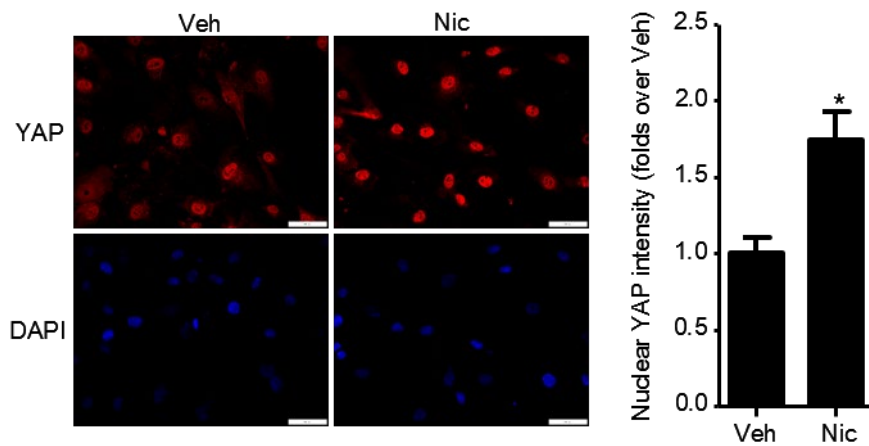
Online Figure III. Representative immunostaining for negative controls. **A**, Negative control for anti-SIRT1 staining in Fig. 4A. **B**, Negative control for anti-Collagen I staining in Fig. 4B. **C**, Negative control for anti-Fibronectin staining in Fig. 4C. **D**, Negative control for anti-MMP2 staining in Fig. 4E.



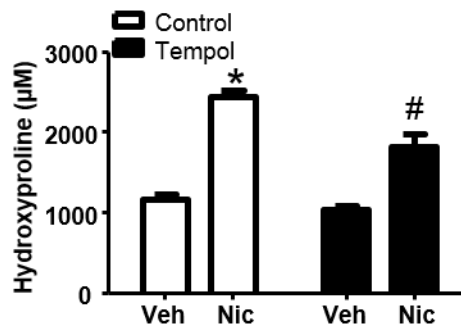
Online Figure IV. Representative immunostaining for negative controls. **A**, Negative control for anti-YAP staining in Fig. 5A. **B**, Negative control for anti-pYAP-S127 staining in Fig. 5B.



Online Figure V. Representative immunostaining for negative controls. **A**, Negative control for anti-iNOS staining in Fig. 6A. **B**, Negative control for anti-3-NT staining in Fig. 6B. **C**, Negative control for anti-3-NT staining in Fig. 6D.



Online Figure VI. Representative immunofluorescence staining of YAP for vehicle or nicotine treated hASMCs. Nicotine (0.5 μM) treatment for 24 hours significantly increased YAP translocation from cytosol to nuclear in hASMCs.



Online Figure VII. Hydroxyproline concentration in aortae from mice with/without nicotine treatment along with control or Tempol treatment (n=4; * $P < 0.01$ vs. Veh; # $P < 0.01$ vs. Nic alone). Veh, vehicle; Nic, nicotine.