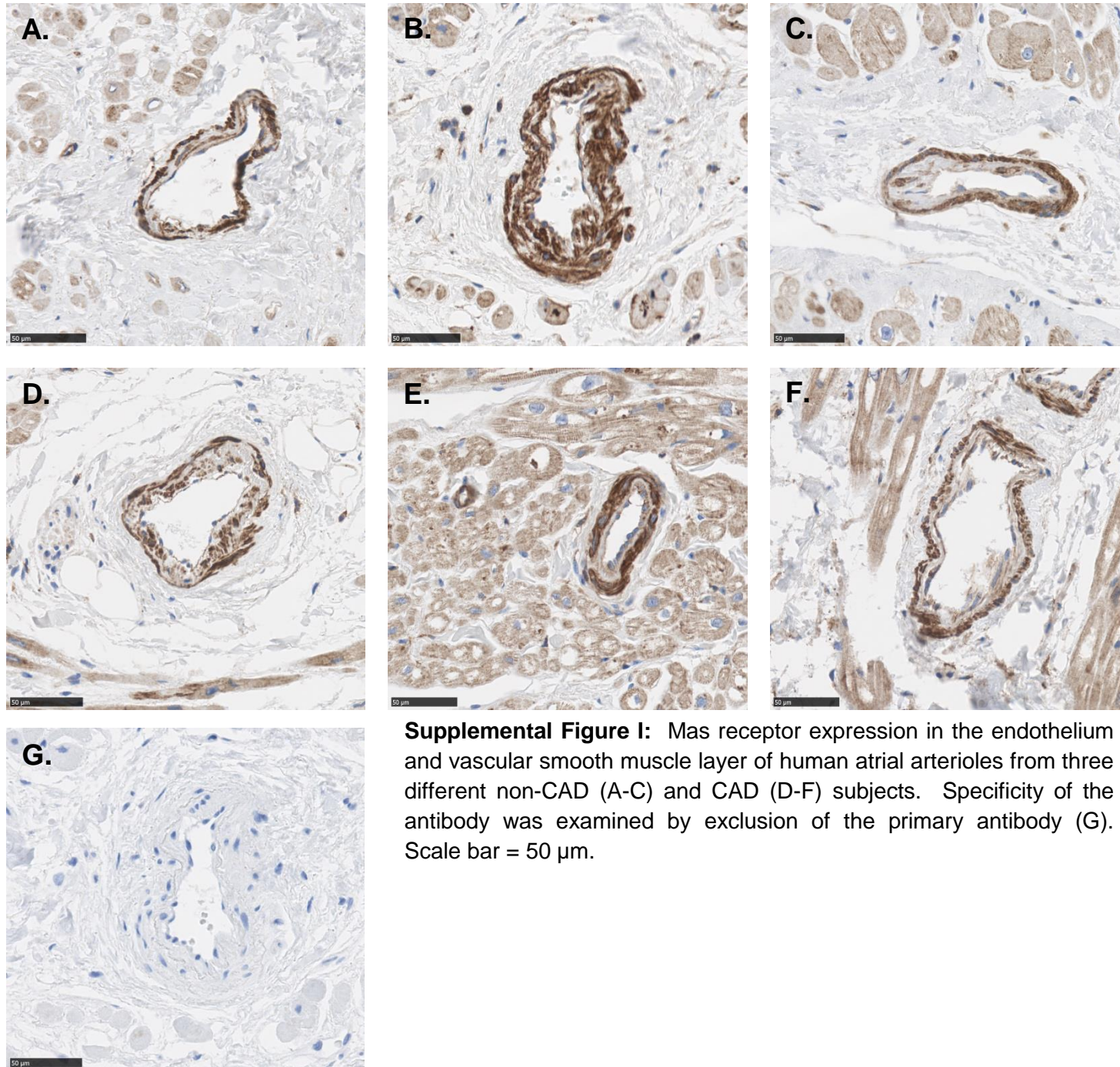
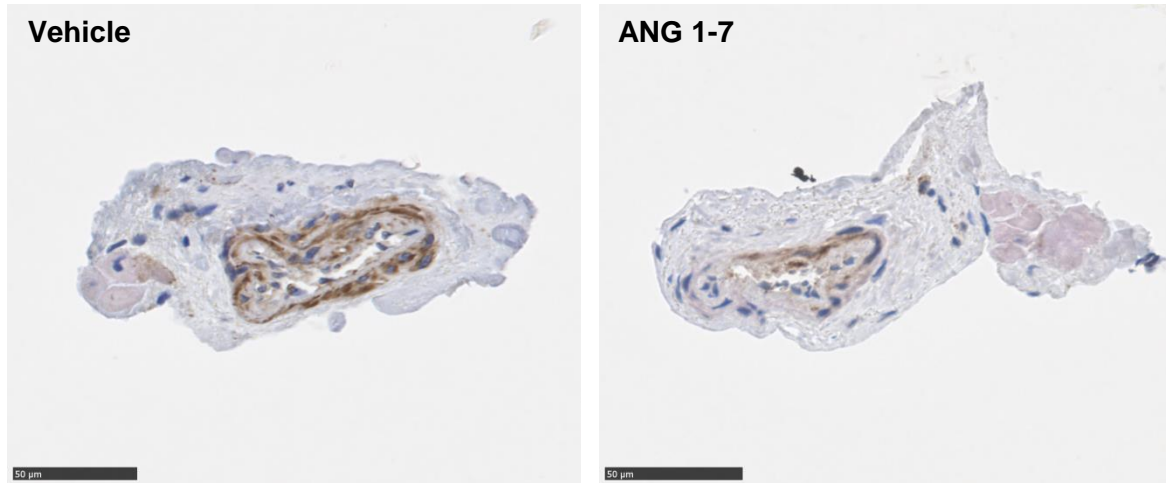


## Supplemental Figure I



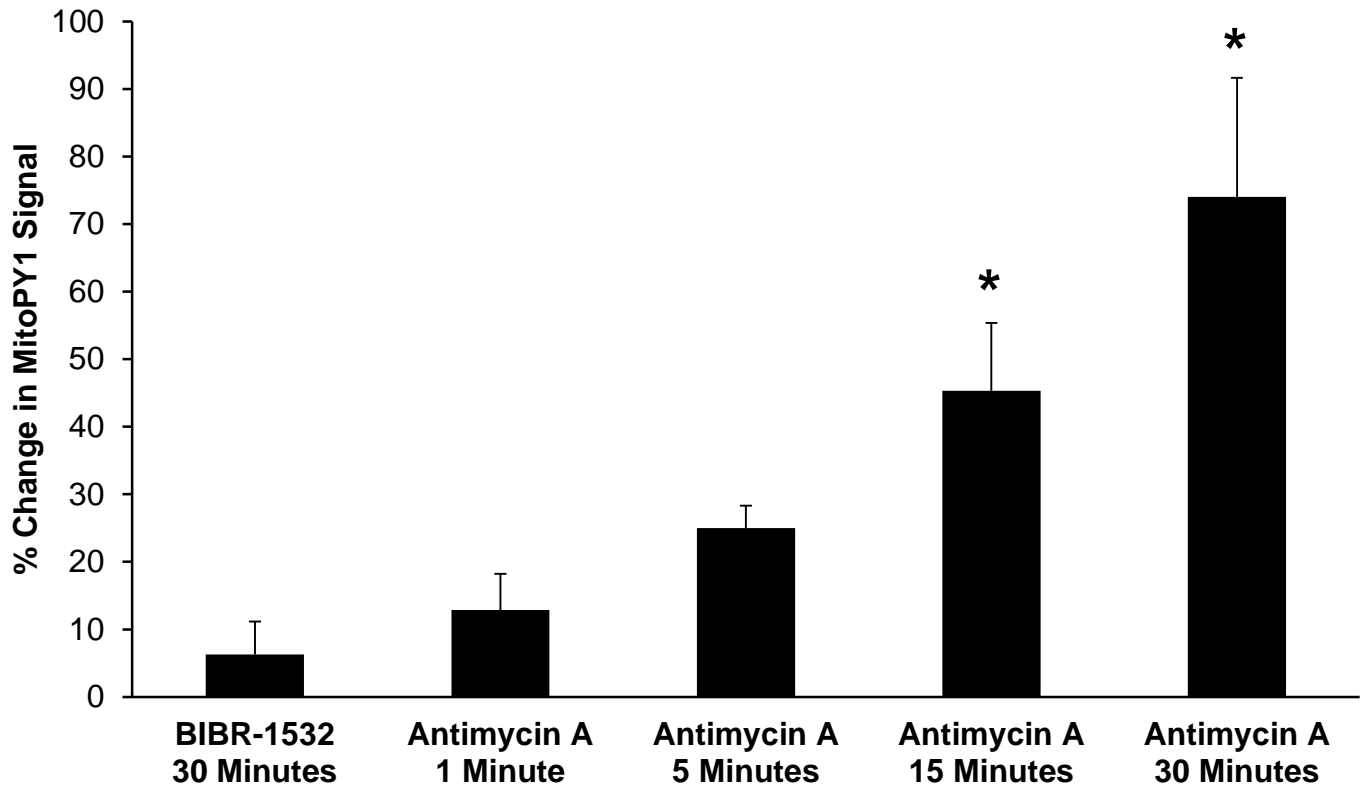
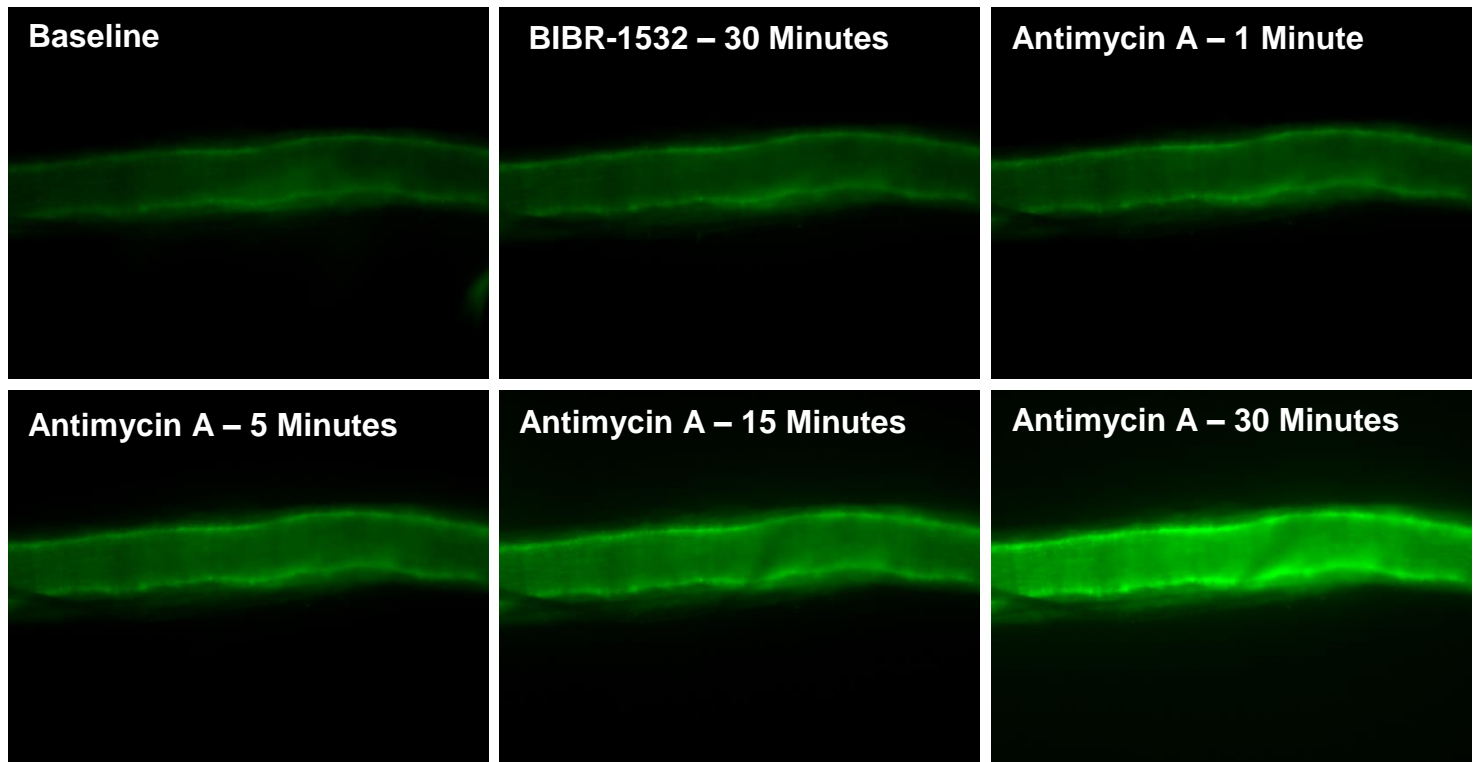
**Supplemental Figure I:** Mas receptor expression in the endothelium and vascular smooth muscle layer of human atrial arterioles from three different non-CAD (A-C) and CAD (D-F) subjects. Specificity of the antibody was examined by exclusion of the primary antibody (G). Scale bar = 50 µm.

## Supplemental Figure II



**Supplemental Figure II:** Mas receptor expression in the endothelium and vascular smooth muscle layer of human atrial arterioles from a single CAD subject treated either with ANG 1-7 ( $10^{-9}$  M) or vehicle overnight. Scale bar = 50 µm.

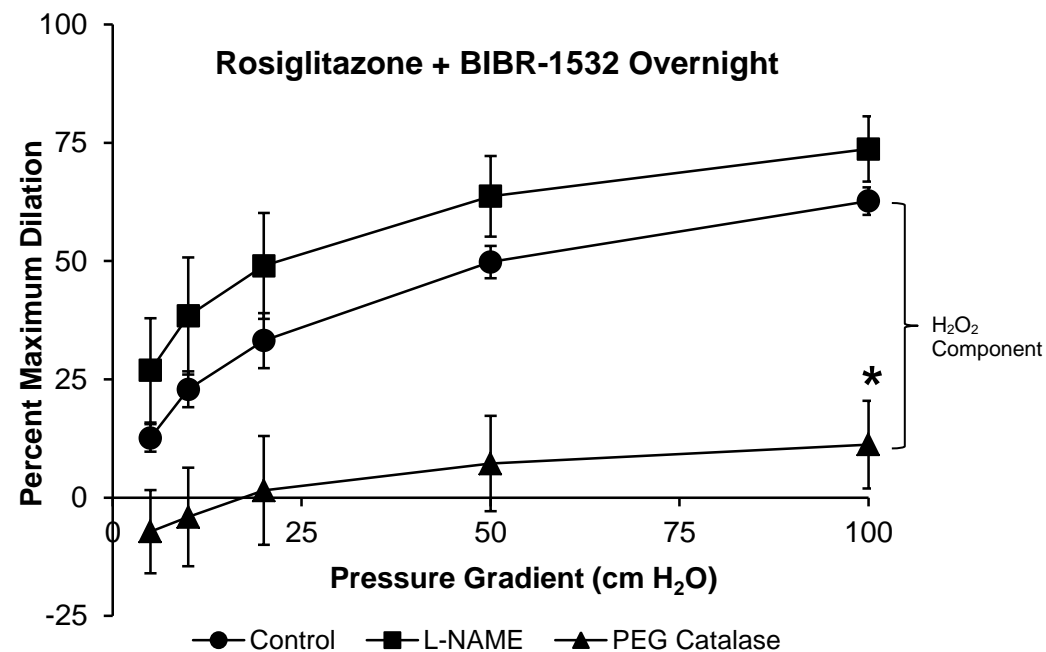
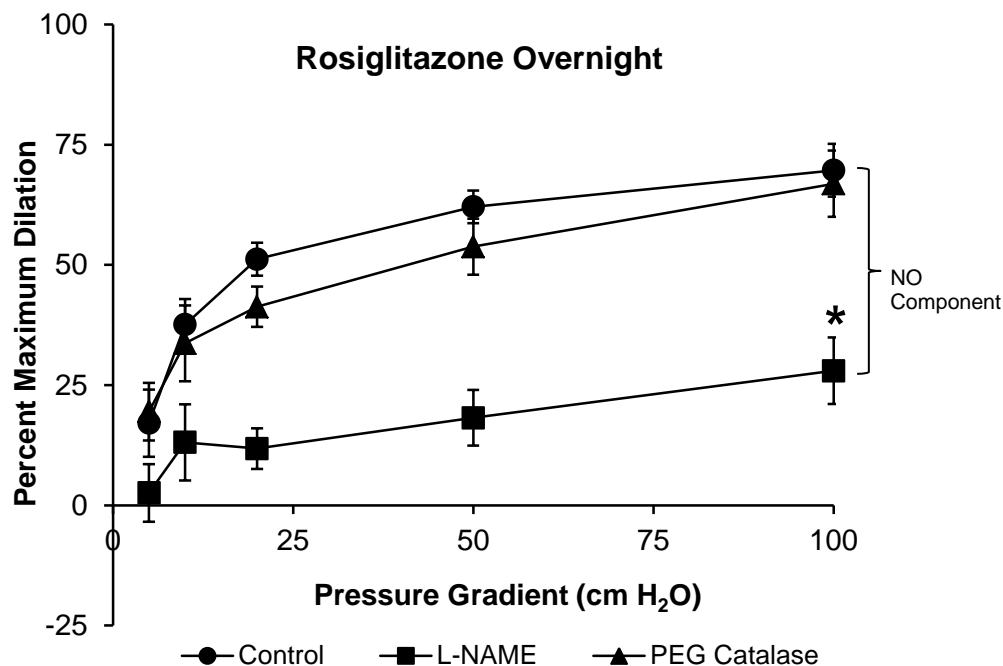
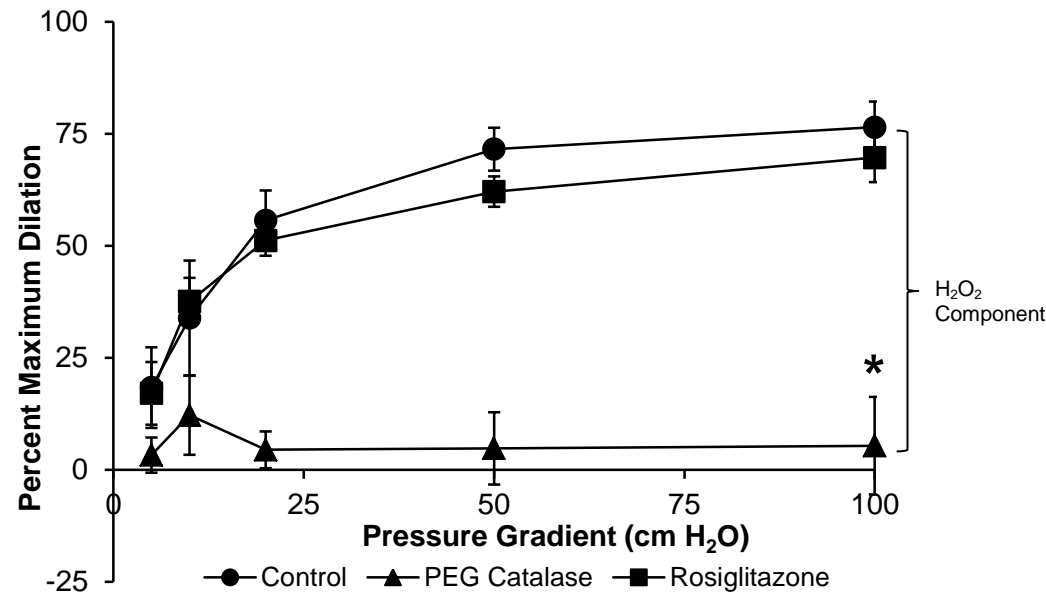
Supplemental Figure III



**Supplemental Figure III.** BIBR-1532 (10  $\mu$ M; n=5) had no effect on mitochondrial  $\text{H}_2\text{O}_2$  levels in isolated human adipose arterioles when it was added to the organ bath for 30 minutes. The mitochondrial electron transport chain uncoupler antimycin A (1  $\mu$ M; n=4) increased mitochondrial  $\text{H}_2\text{O}_2$  in a time-dependent manner. n=number of vessels, each from a different individual. \*P<0.05 vs. BIBR-1532, one-way ANOVA.

# Supplemental Figure IV

15 Subjects	
Age (years)	70±2.6
Male/Female	12/3
Body Mass Index	26±2.5
Underlying Condition	
Coronary Artery Disease	15
Hypertension	14
Valve Disease	2
Atrial Fibrillation	0
Peripheral Vascular Disease	0
Diabetes	2
Hyperlipidemia	8
Tobacco Use	2
Cancer	2
Bowel Disease	1
Adipose Depot	
Esophageal	2
Knee	1
Mesenteric	5
Omental	1
Pericardial	4
Subcutaneous	2



**Supplemental Figure IV.** Tissue from 15 subjects with CAD was used to examine the effects of rosiglitazone (a PPAR $\gamma$  activator) on FMD in adipose arterioles. Overnight rosiglitazone (10  $\mu$ M) treatment had no effect on the magnitude of dilatation (top, right), but restored the NO-component of dilatation in arterioles from subjects with CAD (bottom, left). When the telomerase inhibitor BIBR-1532 (10  $\mu$ M) was co-incubated with rosiglitazone, NO-mediated dilatation was no longer restored (bottom, right). n=4-7, all groups. \*P<0.05 vs. Control.