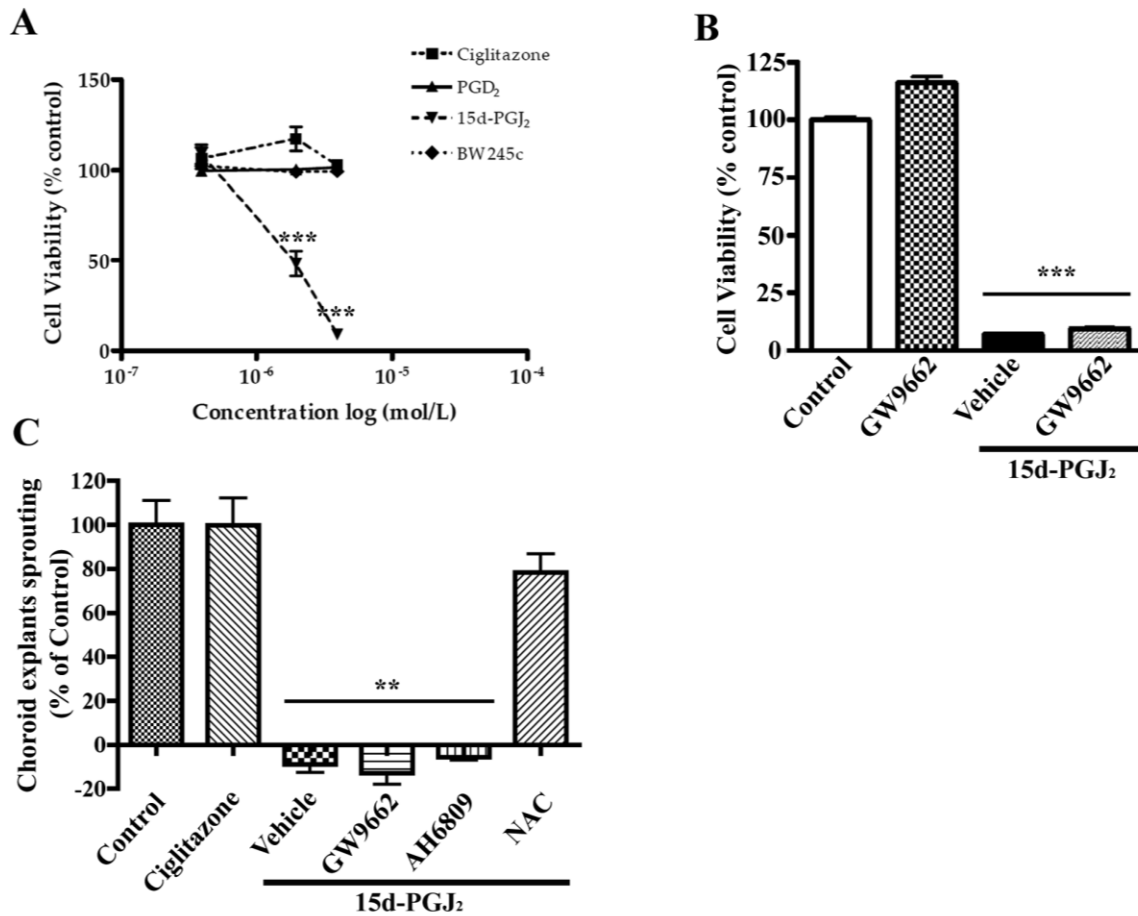


Supplemental Figure 3



Supplemental Figure 3. 15d-PGJ₂ induces apoptosis in endothelial cells independent from PPAR γ or DP1 receptors but dependent on oxidation status. (A) Treatment of ocular endothelial cells with varying concentrations of PGD₂, BW245C (DP receptor agonist), 15d-PGJ₂, or Ciglitazone (PPAR γ agonist); only 15d-PGJ₂ (LD50=1.4 μ mol/L) induced endothelial cell death. Values are mean \pm SEM of 3-4 experiments; ***p<0.001 compared to all other corresponding values without asterisks. (B) Cultured ocular endothelial cell viability in response to 15d-PGJ₂ (5 μ mol/L) in the presence or absence of the irreversible PPAR γ antagonist GW9662 (330 nmol/L); effects of 15d-PGJ₂ are independent of PPAR γ . Values are mean \pm SEM of 3 separate experiments each performed in triplicate; ***p<0.001 compared to other values without asterisks. (C) Quantification of the sprouting area from choroidal explants in Matrigel after 36 h exposure to Ciglitazone (2.8 μ mol/L) or 15d-PGJ₂ (5 μ mol/L) in presence or absence of GW9662 (330 nmol/L), AH6809 (EP1/DP1 receptor antagonist) (30 μ mol/L) or N-acetyl-cysteine (NAC; glutathione precursor) (3 mmol/L); one notes that the vascular sprouting inhibitory effects of 15d-PGJ₂ are only prevented by the anti-oxidant NAC. Values are mean \pm SEM of 4 separate experiments each performed in triplicate; **p<0.01 compared to other values without asterisks.