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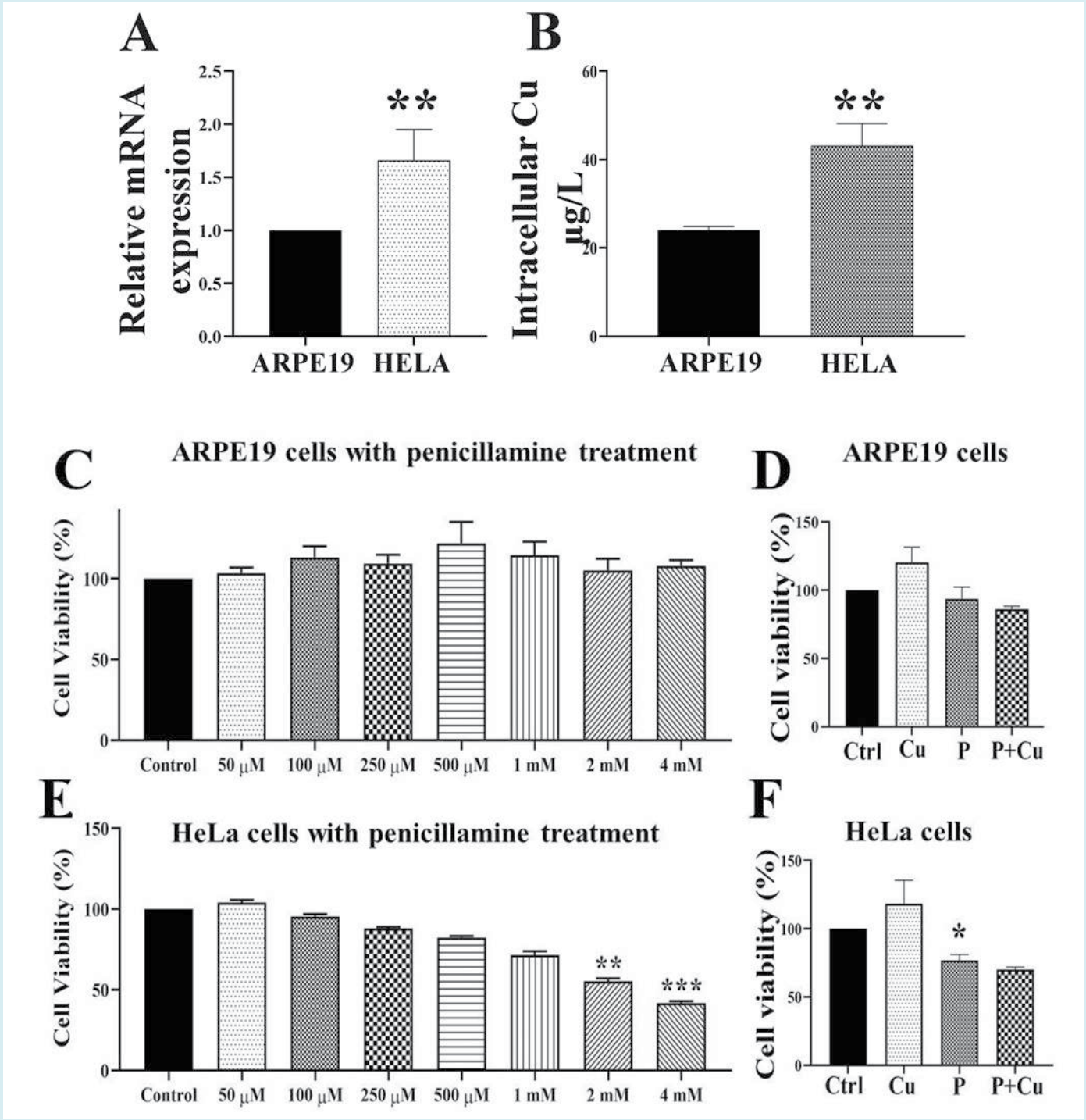


Figure S1: CTR1 expression, Intracellular copper concentration and Cell viability in ARPE19 and HeLa cells: A) mRNA expression of CTR1 compared to ARPE19 cells; B) Intracellular Cu levels in HeLa cells compared to ARPE19 cells measured using AAS; C) Cell viability in % in ARPE19 cells treated with varying concentrations on penicillamine; D) Cell viability in % in ARPE19 cells on treatment with copper and penicillamine; E) Cell viability in % in HeLa cells treated with varying concentrations on penicillamine; F) Cell viability in % in HeLa cells on treatment with copper and penicillamine;** $p < 0.01$; *** $p < 0.001$ when compared to control.

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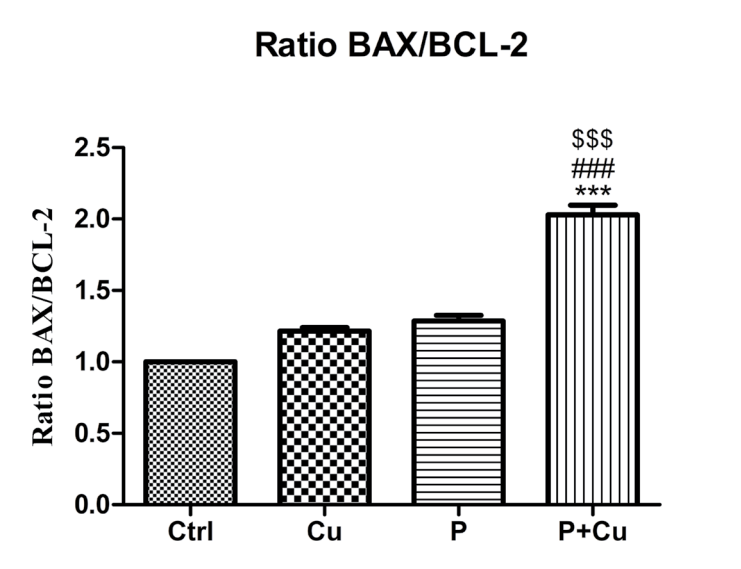


Figure S2: Y79 cell BAX and BCL2 gene mRNA expression in all the treatments, * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$ when compared to control. # $p < 0.05$; when compared Cu. $ $p < 0.05$; when compared to penicillamine.

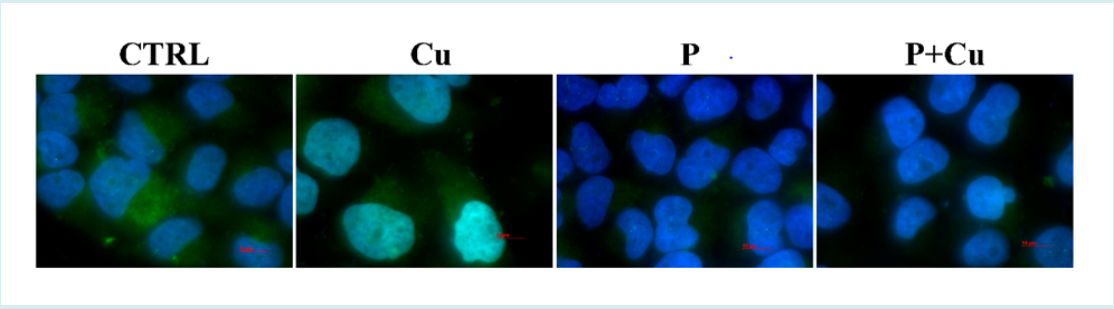


Figure S3: Effect of penicillamine on NRF2 in HeLa cells: NRF2 immunofluorescence showing the nuclear translocation imaged at 100x using Carl ZEISS microscope.

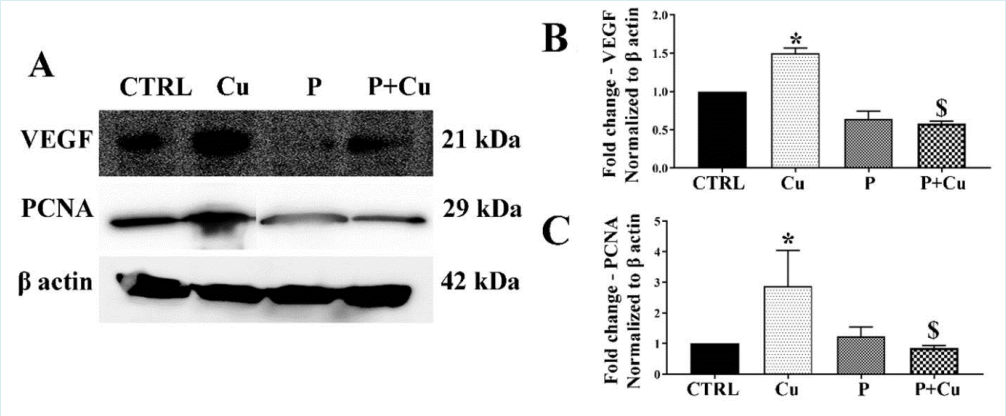


Figure S4: Effect of penicillamine on HO1 and MDM2 in HeLa cells: (a) Western blots for VEGF and PCNA with their respective β actin; (b) VEGF densitogram normalized to β actin; (c) PCNA densitogram normalized to β actin; * $p < 0.05$; when compared to control. # $p < 0.05$; when compared Cu.

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