

HIF2 α Drives ccRCC Metastasis through Transcriptional Activation of Methylation-controlled J Protein and Enhanced Prolegumain Secretion

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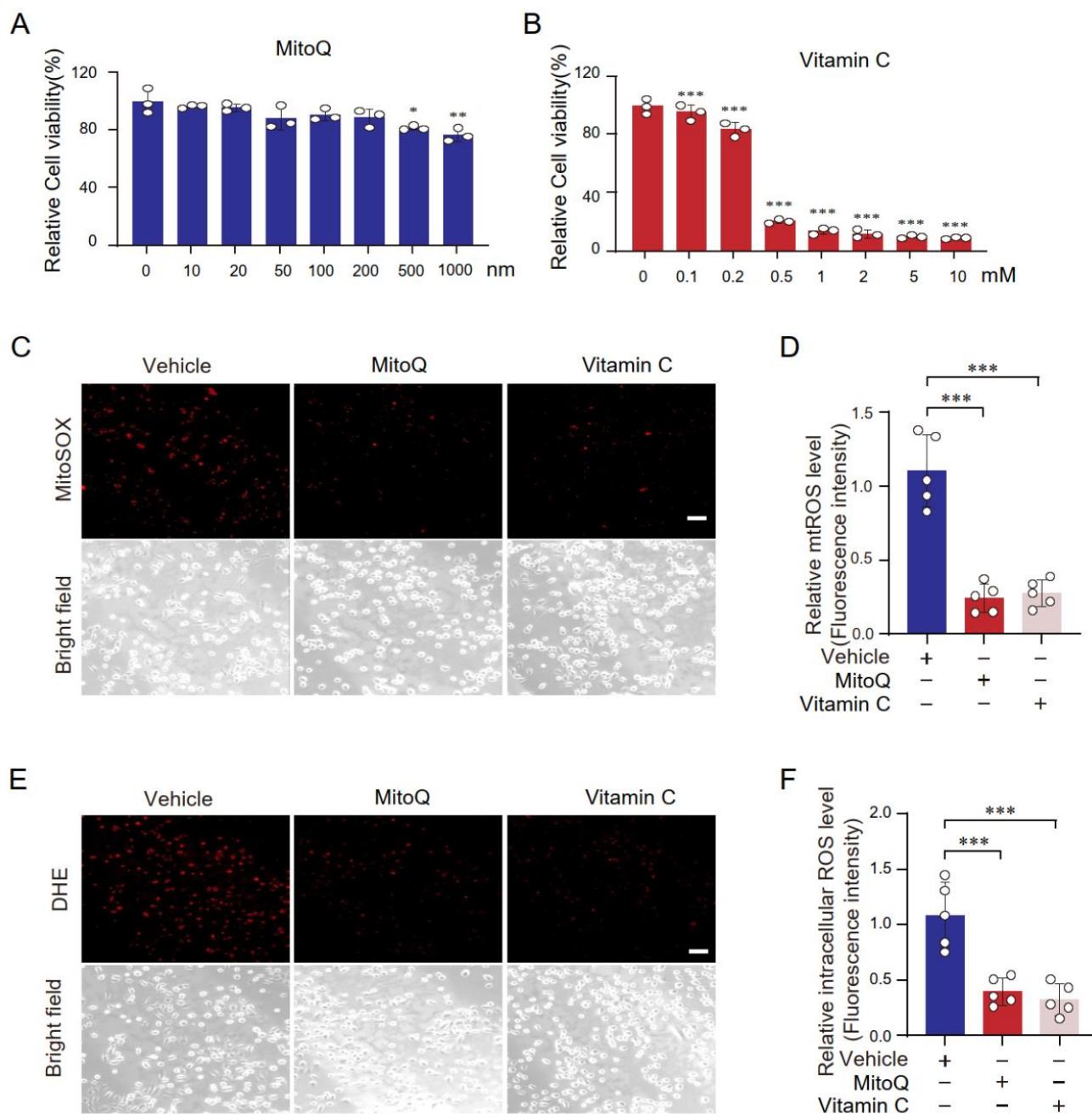
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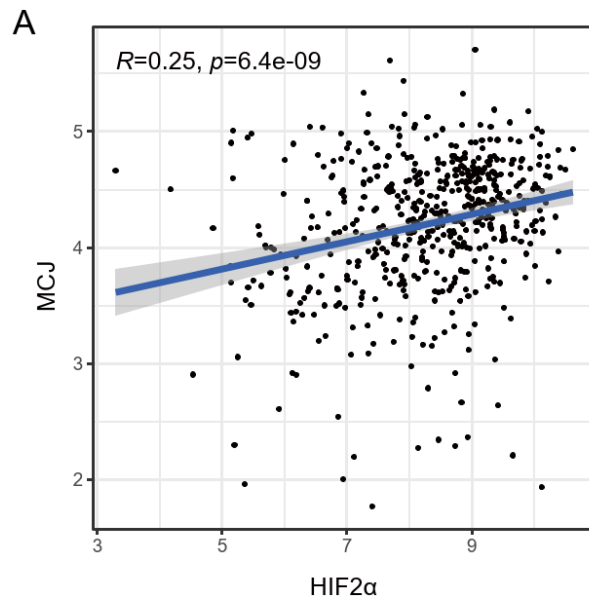
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Key words: Clear cell Renal Cell Carcinoma; Legumain; Hypoxia-inducible factor 2 α ; Methylation-controlled J; Remodeling of extracellular matrix

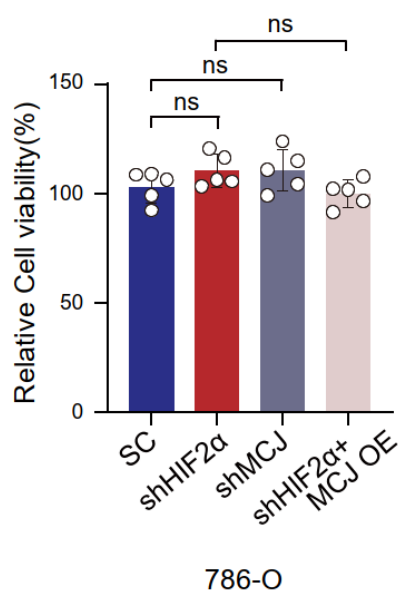


Supplementary Figure 1. Vitamin C or MitoQ reduces the level of ROS in 786-O cells. 786-O was treated with different concentrations of MitoQ and Vitamin C, respectively, for 24 h. (A & B) The CCK-8 assay was used to detect cell viability. (C-F) The DHE probe and MitoSOX probe were labeled to show intracellular total ROS and mitochondrial ROS, respectively. Fluorescence intensity was used as a statistical indicator. All data represent the mean $\pm$ SD. *, $P < 0.05$; **, $P < 0.01$; ***, $P < 0.001$.

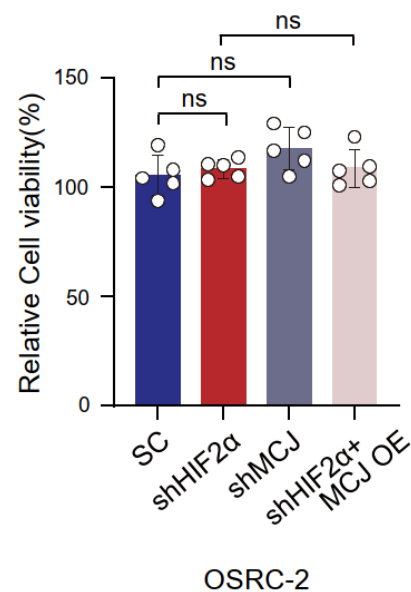


Supplementary Figure 2. The positive correlation between HIF2 and MCJ in ccRCCs. (A) The correlation coefficient between HIF2 α and MCJ was calculated based on data from the TCGA database with Pearson $R=0.25$ and $p=6.4e-09$.

A



B



Supplementary Figure 3. No effect of conditioned medium on HUVEC cell proliferation after altering the levels of HIF2α or MCJ in tumor cells. Stable HIF2α and MCJ knockdown 786-O and OSRC-2 cell lines were established, and MCJ was transiently overexpressed in the stable HIF2α knockdown 786-O cells. Conditioned media of 786-O or OSRC-2 cells were collected and used to stimulate HUVEC. (A & B) The CCK-8 assay was used to detect the cell viability of HUVEC. All data represent the mean $\pm$ SD. ns, $P > 0.05$.