PINK1/Parkin-mediated mitophagy regulation by reactive oxygen species alleviates Rocaglamide A-induced apoptosis in pancreatic cancer cells

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**Supplementary Figure 1. Roc-A inhibits growth of other gastrointestinal tumor cells growth in vitro.**

Cell viability was measured by CCK-8. Data are presented as mean ± SD from three independent experiments. HK-2 (human renal tubular epithelial cell); LO2 (human live cell); TFK-1 (human cholangiocarcinoma cell); HepG2 (human hepatoma carcinoma cell); HCT-116 (human colon cancer cell).



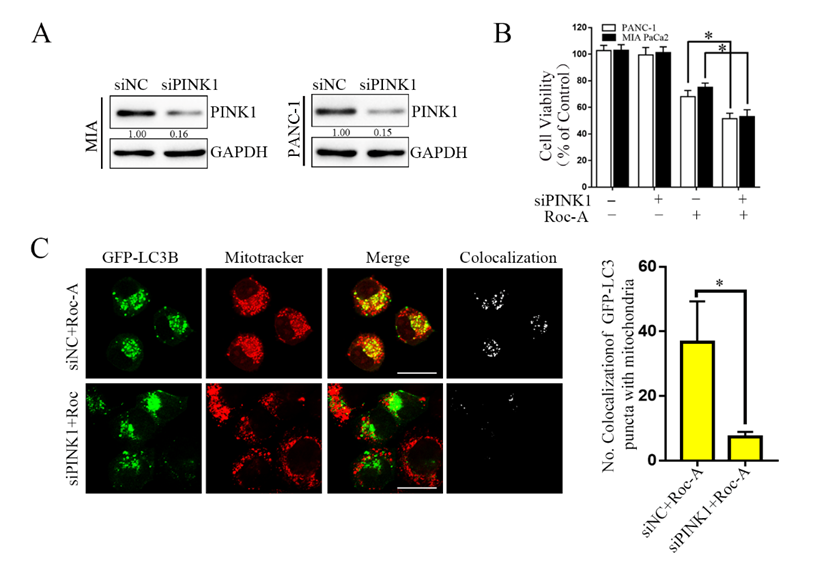
**Supplementary Figure 2. Roc-A induces cell apoptosis is not involved in ferroptosis and pyroptosis.**

Western blot analyzed the levels GPX4 and Caspase-1. Cells were treated with Roc-A at the indicated concentration for 24 hours, and extracted the supernatant for western blot.



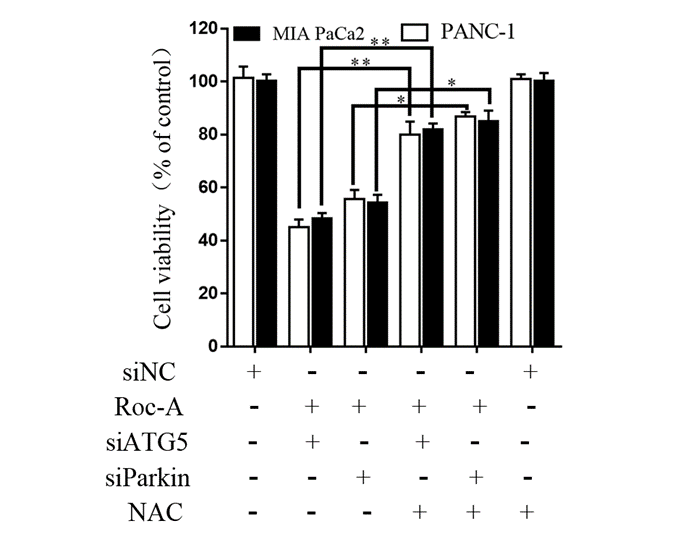
**Supplementary Figure 3. Roc-A promotes mitophagy is not involved in BNIP3L and FUNDC1 in PC cells.**

Western blot analyzed the protein level of BNIP3L and FUNDC1.

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**Supplementary Figure 4. Silenced PINK1 can also reduce Roc-A-induced cell viability and mitophagy.**

Western blotting analyzed the protein level of PINK1 after cells were transfected with siRNA against PINK1. B. CCK-8 assay measured cell viability after cells were transfected with siRNA against PINK1 in the absence or presence with Roc-A (50 nM). Data are presented as mean ± SD from three independent experiments. The asterisks indicate a statistically significant effect of treatment. \*, p <. 05.C. PANC-1 transfected with GFP-LC3B were incubated with or without Roc-A (50 nM) for 24 hours and stained with MitoTracker Red. Confocal microscope was used to observe and photograph images.

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**Supplementary Figure 5.** NAC can decrease Roc-A together with siATG5 and siParkin induced cell death.

CCK-8 assay measured cell viability after cells were treated with Roc-A(50nM) together with siATG5 and siParkin or NAC (5 mM) for 24 hours. Data are presented as mean ± SD from three independent experiments. The asterisks indicate a statistically significant effect of treatment. \*, p <. 05; \*\*, p <. 01.