A combination of *Rosa canina* extracts and gold complex favors apoptosis of Caco-2 cells by increasing oxidative stress and mitochondrial dysfunction

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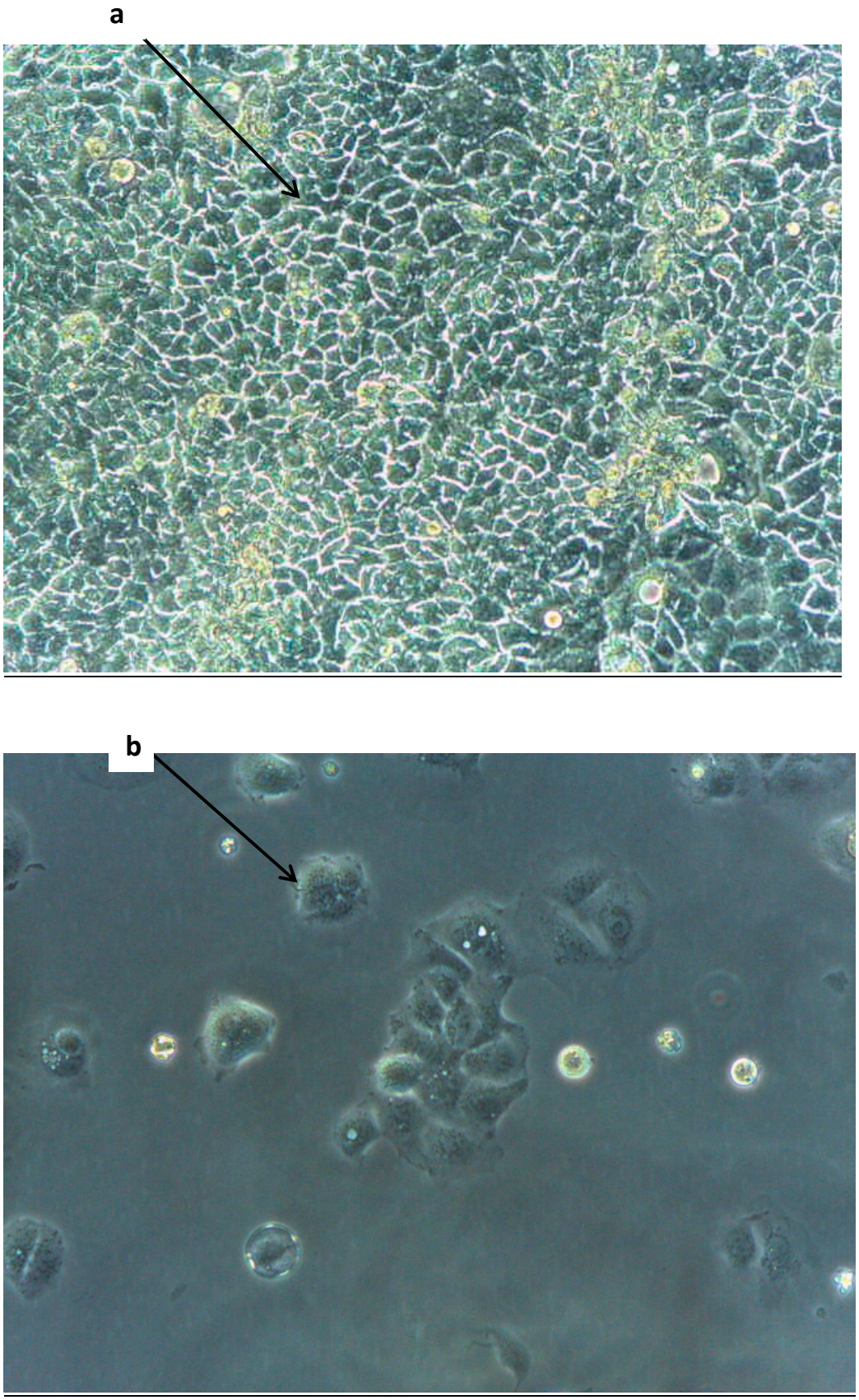

Figure S1. Optical phase contrast microscopy at 20X magnification of Caco-2 cells. Up) Differentiated cells at one week post-seeding, (**a**) definition of cytoplasmic membrane limits and the polygonal shape Down) Undifferentiated cells at 24 h post-seeding., (**b**)

undefined cytoplasmic membrane and round shape. The low density seed cells shows a bigger size than the differenced cells

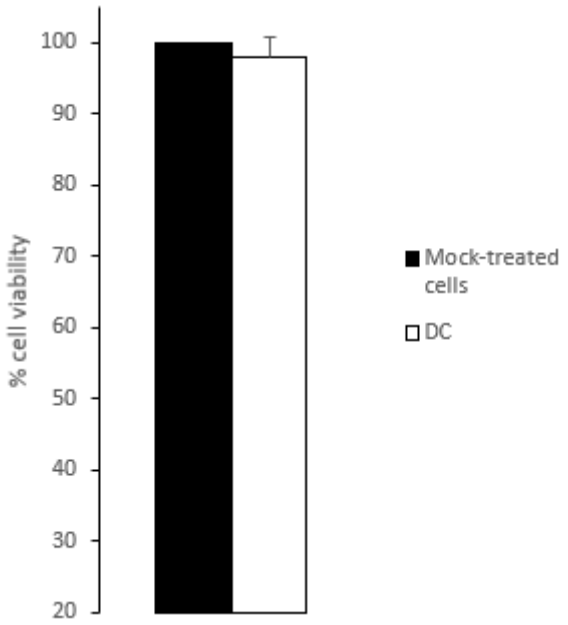

Figure S2. Measurement of differentiated Caco-2 cells viability after 72 h incubation with drug combination (DC). No significant changes were observed in comparison to negative control.

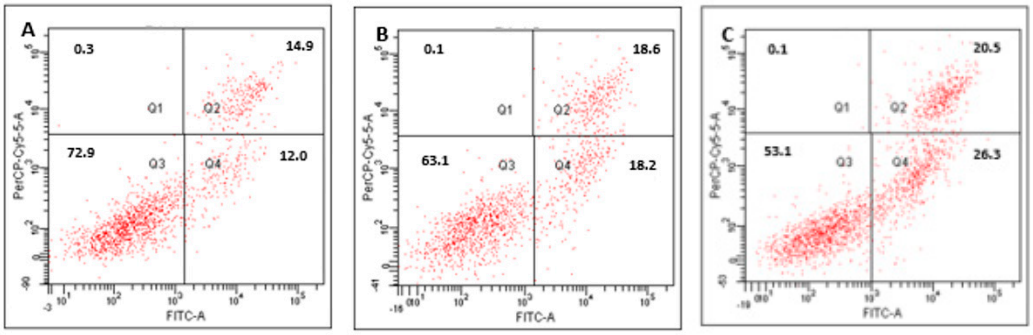

Figure S3. Cell death analysis of Caco-2 cells viability after 48h incubation with A) DMSO (negative control), **B**) gold complex and **C**) acidic polyphenols. Q1: necrotic cells; Q2: late apoptotic cells; Q3: alive cells; Q4: early apoptotic cells. Percentages of cell population on each condition are included.

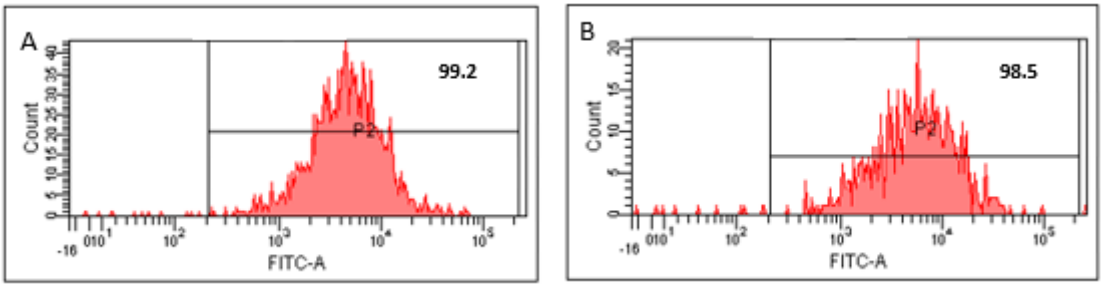

Figure S4. Flow cytometry analysis of the expression levels of RIP-1 on Caco-2 cells after 48h incubation with **A**) DMSO (negative control) or **B**) Drug combination (DC). Percentages of cell population with non-active RIP-1 (P2) are included.

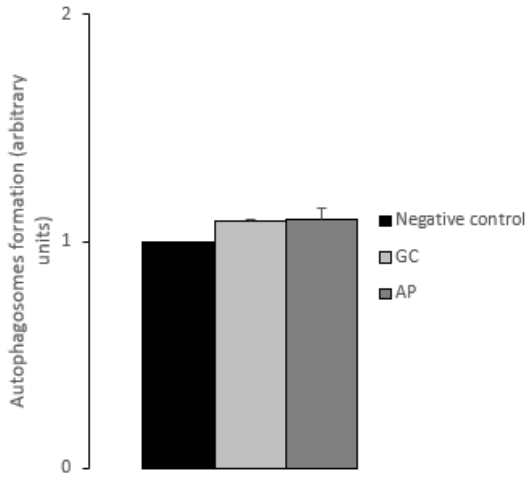

Figure S5. Measurement of changes in the formation of autophagosomes on Caco-2 cells after 24 h incubation with the gold complex (GC) and acidic polyphenols (AP). No significant changes were observed in comparison to negative control.