

**Supplementary Information:**

**Targeted apoptosis in ovarian cancer cells through mitochondrial dysfunction in response to *Sambucus nigra* agglutinin**

**Running title: SNA mediates apoptosis through mitochondrial dysfunction**

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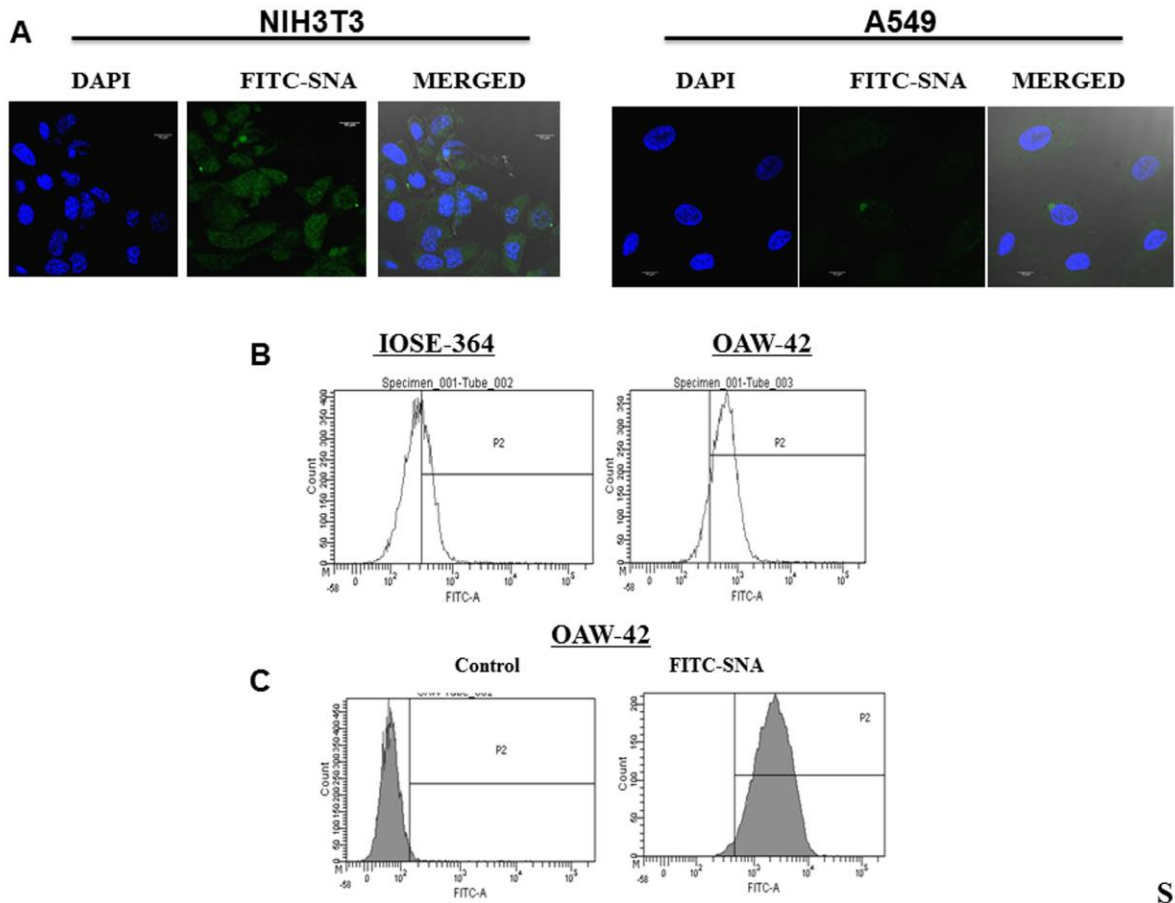
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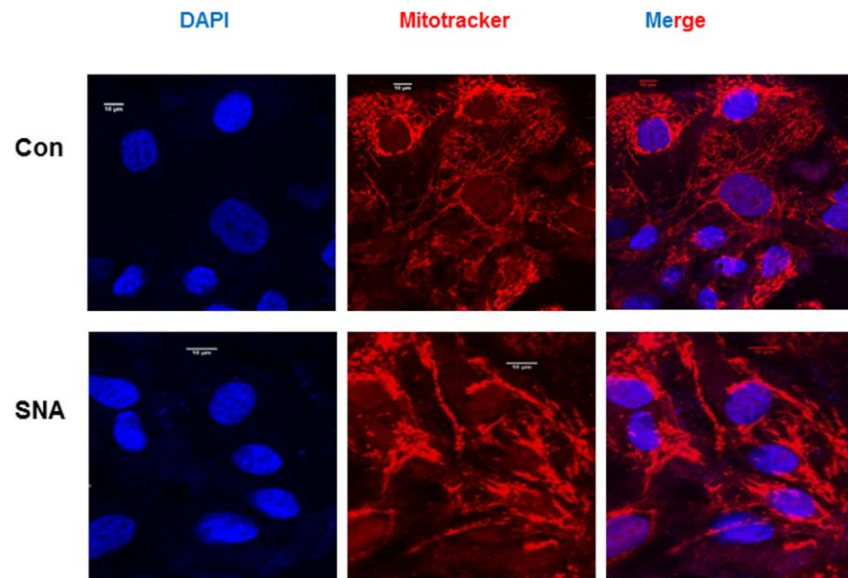


S1

**Supplementary Figure Legends:**

S1: OC cells are associated with enhanced sialylation. (A) Confocal microscopy of NIH3T3 and A549 cells stained with DAPI and FITC-SNA. Scale bar = 10µm. (B) Quantitation of FITC-SNA binding by flow cytometry in IOSE-364 and OAW-42 cells. (C) Surface binding of SNA was quantitated by Flow-cytometry in OAW42 cell lines.

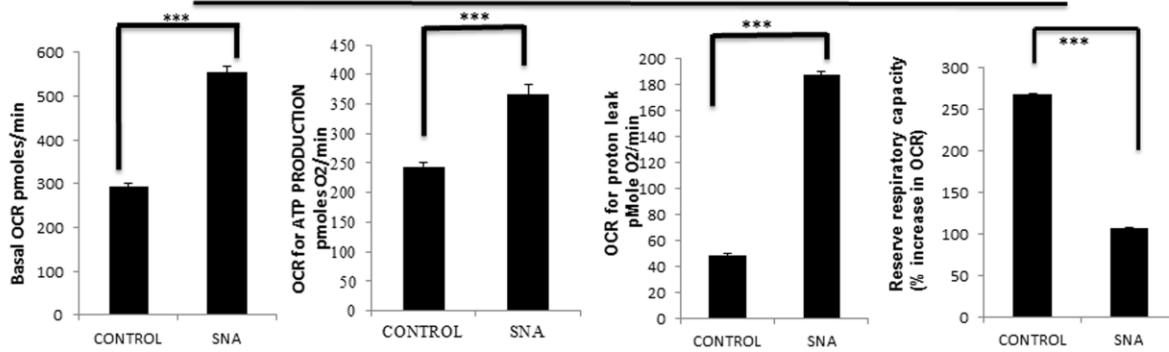
## OAW-42



S2

S2: SNA treatment led to fragmented mitochondrial morphology in OAW-42 cells. OAW-42 cells were stained with MitoTracker Red CMXRos and imaged for mitochondrial morphology by confocal imaging. Scale bar represents 10  $\mu\text{m}$ .

### OAW-42



S3

S3: SNA-treated OC cells exhibited shift in cellular bioenergetics. Oxygen Consumption Rate (OCR) was measured in SNA-treated OAW-42 cells by extracellular flux analyzer (Seahorse Bioscience). The data shown here are mean  $\pm$ SEM for three experiments performed independently.