

### **Poster Abstract Submission**

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<b>Research Title</b>	Anti-pancreatic cancer activity of Rhus coriaria (Sumac)

#### **Abstract:**

Cancer is a major health problem and is considered a chronic disease globally. Among the many different therapeutic approaches to treat cancer, it appears that plants have a promising effects to treat cancer, and one of these plants is the Rhus coriaria, known as sumac. Previous studies indicated that sumac plant, which is used in cooking, possesses various therapeutic values, including antioxidants and antibiotics. Due to the curative properties of the sumac plant, we had studied for its anti-cancer effect. we found that sumac plant inhibits the growth and proliferation of breast and colon cancer cell lines. In addition, we have found that the main mechanism of cell death was through the induction of apoptosis, autophagy and induction of senescence, in addition, we showed that sumac prevents the migration invasion and tumor growth of these cancer cells. In this study, we will present the effect of sumac plant extract against pancreatic cancer. Toward this will first assess the effect of sumac on the growth inhibition and proliferation, the distribution of cells in the cell cycle, and we did investigate the death mechanism on pancreatic cancer cell line. The effect of sumac plant on colonies growth from pancreatic cancer cells will also be studied in vitro.