



ABSTRACT

Angiogenesis, the formation of new blood vessels, is essential in bringing nutrients and oxygen to a cancerous tumor whose growth is not contained within a capsule meanwhile it acts as a therapeutic modality for atherosclerotic arterial disease. At present, due to the increasing rates of those who have acquired cancerous tumors and cardiovascular-related diseases, studies are being done for plants that have the potential to inhibit or promote angiogenesis. In relation to the plants which have therapeutic effects, this study aims to determine if cucumber does have a promising angiogenic potential using the CAM Assay on the 10-day old duck embryo. Different dosages of the fruit juice extract was administered to the eggs with the results to be compared for identifying the angiogenic potential of the two different varieties of cucumber which are *Cucumis sativus* L. var. *hardwickii* and *Cucumis sativus* L. var. *sativus*. As the results were gathered, the anti-angiogenic potential of cucumber was established as the number of collaterals decreased compared to the control group which was treated with phosphate buffer solution (PBS). According to the further analysis of the results, the researchers have found out that there were no significant differences among the varying dosages and found no significant difference between the two different varieties of *Cucumis sativus* L. (Cucumber).