

In the current investigation, AgNPs were successfully synthesized using (*Prunus armeniaca* L.) its biological activity was demonstrated against two different types of cancer , two cancer cell lines AgNPs had a significant anticancer effect; In conclusion, the present study could be promising for delivering ecofriendly NPs as anticancer therapies. Furthermore, it is anticipated that the chosen biological synthesis strategy may lessen the well-known toxicity associated with AgNPs. Furthermore, we establish the groundwork for additional research to examine the safety and therapeutic potential of AgNPs as an anticancer drug. The present investigation broadens the corpus of existing research concerning green synthesized AgNP and their use. It is important to note that this is the first study producing AgNPs from the plant *Prunus armeniaca* L. and testing their biological effects. Nevertheless, more research is needed to confirm this assumption.