Conyza canadensis and *Mentha suaveolens* could be new pharmacological targets for covid-19 treatment

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Abstract

Background: Plants have been the ground of folk medicine to treat several diseases and nowadays, plants are still relevant for traditional healing practices and for the identification of phytochemical compounds further optimized by the pharmaceutical industry. Currently, the search to identify treatments and vaccines for novel coronavirus disease (COVID-19) are ongoing including treatment derived from medicinal plant extract.

Material and methods: *Conyza canadensis* and *Mentha suaveolens* were studied for several pharmacological properties in our laboratory including anxiolytic and antidepressant-Like Effects Extract in the Scopolamine Rat Model, anticancer on two cell lines namely, MCF-7 and A375 using MTT assay, antihypertensive effect on rat model , antioxydante property using a variety of antioxidant tests namely lipoxygenase inhibitory potential , DPPH and FRAP assays.

Conclusion: Our findings proved that *Conyza canadensis* and *Mentha suaveolens* affect the A375 and MCF-7 cell lines viability, exhibited significant anxiolytic and antidepressant-like profiles following scopolamine treatment, possess remarkable vasorelaxant effect on rat and have strong antioxidant activity. Therefore we strongly believe that our plant extract could be promising therapy against covid-19.

Keywords: *Conyza canadensis*, *Mentha suaveolens,* covid-19, anxiety, depression, anticancer, antihypertensive antioxidants, anxiety, depression, scopolamine