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Discovery of new antidepressant agents: *In vivo* study on *Anthemis****wiedemanniana* Fisch. & Mey.****Fatma Tuğçe Güragaç Dereli¹¹, Mert Ilhan^{1,22}, Esra Küpeli Akkol^{1*3}**¹Department of Pharmacognosy, Faculty of Pharmacy, Gazi University, Etiler 6330,

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Abstract***Ethnopharmacological relevance:***

Many of the currently available antidepressants have serious adverse effects and are also expensive. Traditional medicines are major sources of original drugs, and their role in effective treatment is remarkable. In Turkish folk medicine, decoctions and infusions are prepared from the flowers of *Anthemis wiedemanniana* Fisch. & Mey. They exert antispasmodic and sedative effects and are also used for treating urinary inflammations. The present study was designed to evaluate the antidepressant activity of *A. wiedemanniana*, which is used against central nervous system disorders in Turkish folk medicine.

Materials and Methods:

n-Hexane, ethyl acetate, and methanol (MeOH) extracts were prepared from the flowers of the plant. The antidepressant potentials of these extracts were evaluated in mouse models using the forced swimming test, tail suspension test, and antagonism of tetrabenazine-induced

¹ *In vivo* studies, Isolation studies, Manuscript writing² *In vivo* studies, Isolation studies, Manuscript writing³ *In vivo* studies, Isolation studies, Manuscript writing, Study design

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