COVID-19 is an emerging, rapidly evolving situation. Get the latest public health information from CDC: <u>https://www.coronavirus.gov</u>. Get the latest research from NIH: <u>https://www.nih.gov/coronavirus</u>.

FULL TEXT LINKS

Full-Text Article

> Curr Neuropharmacol. 2020;18(2):87-96. doi: 10.2174/1570159X17666190903103923.

The "Entourage Effect": Terpenes Coupled With Cannabinoids for the Treatment of Mood Disorders and Anxiety Disorders

Sari Goldstein Ferber ¹ ², Dvora Namdar ³, Danielle Hen-Shoval ¹ ², Gilad Eger ⁴ ⁵, Hinanit Koltai ³, Gal Shoval ⁴ ⁵, Liat Shbiro ⁴, Aron Weller ¹ ²

Affiliations PMID: 31481004 DOI: 10.2174/1570159X17666190903103923

Abstract

Mood disorders are the most prevalent mental conditions encountered in psychiatric practice. Numerous patients suffering from mood disorders present with treatment-resistant forms of depression, co-morbid anxiety, other psychiatric disorders and bipolar disorders. Standardized essential oils (such as that of Lavender officinalis) have been shown to exert clinical efficacy in treating anxiety disorders. As endocannabinoids are suggested to play an important role in major depression, generalized anxiety and bipolar disorders, Cannabis sativa was suggested for their treatment. The endocannabinoid system is widely distributed throughout the body including the brain, modulating many functions. It is involved in mood and related disorders, and its activity may be modified by exogenous cannabinoids. CB1 and CB2 receptors primarily serve as the binding sites for endocannabinoids as well as for phytocannabinoids, produced by cannabis inflorescences. However, 'cannabis' is not a single compound product but is known for its complicated molecular profile, producing a plethora of phytocannabinoids alongside a vast array of terpenes. Thus, the "entourage effect" is the suggested positive contribution derived from the addition of terpenes to cannabinoids. Here, we review the literature on the effects of cannabinoids and discuss the possibility of enhancing cannabinoid activity on psychiatric symptoms by the addition of terpenes and terpenoids. Possible underlying mechanisms for the anti-depressant and anxiolytic effects are reviewed. These natural products may be an important potential source for new medications for the treatment of mood and anxiety disorders.

Keywords: Cannabidiol; anxiety; depression; entourage; mood disorders; terpenes..

Copyright@ Bentham Science Publishers; For any queries, please email at epub@benthamscience.net.

LinkOut - more resources

Full Text Sources Bentham Science Publishers Ltd. Ingenta plc