From old cannabinoids to emerging new synthetic derivatives with potential therapeutic application in neurological disorders.

Abstract

This work aim to provide an up-date of recent studies developed about the endocannabinoid system and neurological disorders. In the first instance, the modulation of this ubiquitary system in main neurological disorders will be discussed. Then except, most common cannabinoid drugs developed in the past years, more recent designed drugs will be discussed considering pros and cons of the application of these novel drugs in neurological disorders. Among these drugs, particular attention will be focused on compounds of organic synthesis and drug of peptide origin acting on cannabinoid receptors. Furthermore, an update on recent patented drugs selected for their applicability in central nervous system disorders will be highlighted. Finally, another chapter of this work will deal with the regulation by cannabimimetic drugs of the immune response in neurological disorders.

Proposed articles:

Endocannabinoid system in neurological disorders. (Malfitano Anna Maria, Bifulco Maurizio)

Synthetic cannabinoid receptor agonists and antagonists: implication in CNS disorders. (Manera Clementina, Chicca Andrea, Arena Chiara)

Synthetic modulators of the endocannabinoid system: implication in CNS disorders. (Manera Clementina, Chicca Andrea, Arena Chiara)

VL8, a novel CB2 receptor agonists: potential application in multiple sclerosis (Malfitano Anna Maria, Manera Clementina, Laezza Chiara, Pisanti Simona, Bifulco Maurizio)

Peptide agonists and antagonists with therapeutical application in neurological disorders. (Marasco Daniela)

Cannabimimetic drugs: recent patents in central nervous system disorders. (Malfitano Anna Maria, Ciaglia Elena)

Cannabinoids and neuroinflammation: regulation of brain immune response. (Malfitano Anna Maria, Pisanti Simona, Bifulco Maurizio)

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