ABSTRACT

Pain is for mankind necessary tool for survival. Although pain is associated with unpleasant sensoric and emotional experience, its informations about real or potential tissue damage is critical to our well being. If pain becomes long-term and is no longer associated with tissue damage or healing process, then the pain becomes neuropathic pain, which have no physiological meaning and is considered a disease. Endocannabinoids system receptors affect many physiological functions, but they are the most famous for analgesic properties. Phytocannabinoids contained in cannabis plant and synthetic cannabinoids made by people bind to receptors in central nervous system and in body periphery and disrupt transmission of nociceptive signal. This paper reviews basic informations about cannabioids and their role in treatment of neuropathic pain. Understanding of endocannabinoid system mechanisms can lead to better and precisely targeted analgesics.

Key words: neuropathic pain, cannabinoid receptors, natural cannabinoids, endocannabinoids, marijuana