

What are Cannabinoids?

In 2003, the US federal government obtained US Patent 6630507 titled, "Cannabinoids as antioxidants and neuroprotectants [2]." The patent claims:

“Cannabinoids have been found to have antioxidant properties...useful in the treatment...of [a] wide variety of...diseases, such as... inflammatory and autoimmune diseases...[and] to have...application as neuroprotectants...in the treatment of neurodegenerative diseases...”

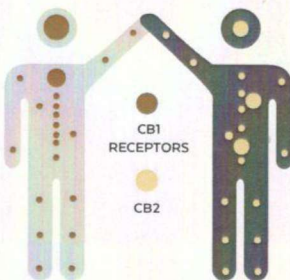


The **Endocannabinoid System** is perhaps the most important physiologic system involved in establishing and maintaining human health. Although the endocannabinoid system affects a wide variety of biological processes, experts believe that its overall function is to regulate **homeostasis**.

Functions of the Endocannabinoid System

Discovered in 1990, the endocannabinoid system (ECS) is located in the brain and throughout the central and peripheral nervous systems consisting of neuromodulatory lipids and their receptors.

APPETITE
ANALGESIA
AUTONOMIC NERVOUS SYSTEM
ENERGY & BALANCE
IMMUNE FUNCTION
MEMORY
METABOLISM
SLEEP
STRESS RESPONSE
THERMOREGULATION



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cannabinoid

noun | can'na'bi'noid
/'kanəbə,noid/

CANNABINOIDS are

A group of closely related compounds that act on cannabinoid receptors in the body, unique to cannabis [or hemp]. The body creates compounds called endocannabinoids, while hemp produces phytocannabinoids.

Medical Properties of Cannabinoids

According to a 2013 review published in the British Journal of Clinical Pharmacology [1], studies have found [cannabinoids] to possess the following medical properties:

- ✓ **Antiemetic**
Reduces nausea and vomiting
- ✓ **Anticonvulsant**
Suppresses seizure activity
- ✓ **Antipsychotic**
Combats psychosis disorders
- ✓ **Anxiolytic/Anti-depressant**
Combats anxiety and depression
- ✓ **Anti-tumoral/Anti-cancer**
Combats tumor and cancer cells
- ✓ **Antioxidant**
Combats free-radical damage
- ✓ **Anti-inflammatory**
Combats inflammatory disorders

2. The United States of America as represented by the Department of Health and Human Services. 2003. Cannabinoids as antioxidants and neuroprotectants. U.S. Patent 6,630,507, filed April 21, 1999, and issued October 7, 2003.

1. Fernández-Ruiz J, Sagredo O, Pazos MR, García C, Pertwee R, Mechoulam R, Martínez-Orgado J. British Journal of Clinical Pharmacology. 2013 Feb;75(2):323-33. doi: 10.1111/j.1365-2125.2012.04341.x. Review.