



TREE OF LIFE
BOTANICALS

The Endocannabinoid System

The Endocannabinoid System (ECS) is a network of chemical messengers which exists to maintain balance in the body. The ECS is found in humans and all other vertebrate species.

The primary actors of the ECS include cannabinoid receptors, endocannabinoids, and enzymes. Cannabinoid receptors are found on the surface of cells throughout the body. There are two types of receptors: CB1 and CB2. CB1 receptors are located primarily in the brain, vital and reproductive organs, gastrointestinal tract, and vascular system. CB2 receptors are associated with the immune system and can be found in the gastrointestinal tract, bone marrow, vital organs, and skin. Whereas receptors function as “locks” on various cells, cannabinoids work as “keys” and bind to the receptors.

Endocannabinoids are produced naturally by the body. Phytocannabinoids are substances from the cannabis plant which binds to cannabinoid receptors and produce different effects in the body. THC and CBC are examples of phytocannabinoids.

Scientists are studying the effects of what is called “Clinical Endocannabinoid Deficiency”. This occurs when the ECS is not working optimally. Various illnesses and conditions are linked to imbalance of the ECS, and treatment with CBD products are used to restore balance in the body creating homeostasis.