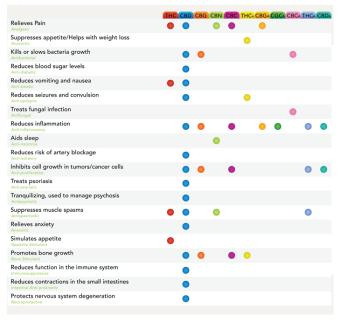
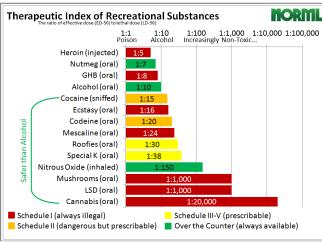
"Marijuana in its natural form is one of the safest therapeutically active substances known to man. By any measure of rational analysis marijuana can be safely used within the supervised routine of medical care." -DEA Administrative Law Judge, Francis Young



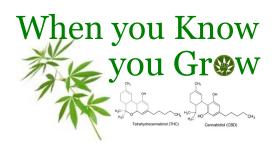


Conduct is justified if: (1) the actor reasonably believes the conduct is immediately necessary to avoid imminent harm; (2) the desirability and urgency of avoiding the harm clearly outweigh, according to ordinary standards of reasonableness, the harm sought to be prevented by the law proscribing the conduct...

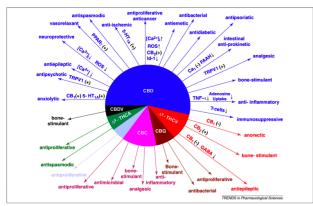
Texas Penal Code § 9.22, Necessity.



"Make the most of the Indian hemp seed and sow it everywhere!" George Washington



"If a law is unjust, a man is not only right to disobey, he is obligated to do so." -Thomas Jefferson



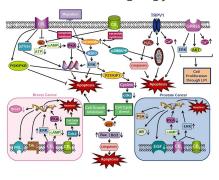
"Unless we put medical freedom into the Constitution, the time will come when medicine will organize into an undercover dictatorship to restrict the art of healing and deny equal privileges to others; the Constitution of the Republic should make a Special privilege for medical freedoms ..." -Benjamin Rush (Declaration of Independence Signer)

"We are all born ignorant, but One must work hard to remain stupid." -Benjamin Franklin

"Tyranny is defined as that which is legal for the government but illegal for the citizenry." -Thomas Jefferson

Schedule 1 drugs have "no currently accepted medical use in treatment in the United States" because "There is a lack of accepted safety for use of the drug or other substance under medical supervision." -Controlled Substances Act, 1970

"Use phytocannabinoids as a prophylactic or in the treatment of prostate, breast, skin, glioma, colon, lung or a bone or lymph metastasis."-US20130059018A1



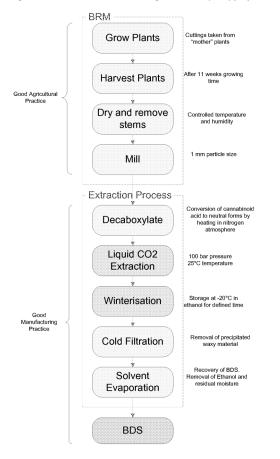
"The ischemic or neurodegenerative disease may be, for example, an ischemic infarct, Alzheimer's disease, Parkinson's disease, Down's syndrome, human immunodeficiency virus (HIV) dementia, myocardial infarction, or treatment and prevention of intraoperative or perioperative hypoxic insults that can leave persistent neurological deficits following open heart surgery requiring heart/lung bypass machines, such as coronary artery bypass grafts (CABG)." US Department of Health and Human Services US6630507

- (19) United States
- (12) Patent Application Publication (10) Pub. No.: US 2013/0059018 A1
 - Mar. 7, 2013 (43) Pub. Date:

PHYTOCANNABINOIDS IN THE TREATMENT OF CANCER

[0001] This invention relates to the use of phytocannabinoids, either in an isolated form or in the form of a botanical drug substance (BDS), as a prophylactic or in the treatment of cancer. Typically the cancer to be treated is a cancer of the: prostate, breast, skin, glioma, colon, lung or a bone or lymph metastasis. The phytocannabinoids may be used in combination with other cancer treatments.

Figure 1: Overview of Botanical Drug Substance (BDS) preparation



(12) United States Patent Hampson et al.

US 6,630,507 B1 (10) Patent No.: (45) Date of Patent: Oct. 7, 2003

CANNABINOIDS AS ANTIOXIDANTS AND NEUROPROTECTANTS

This invention provides antioxidant compounds and compositions, such as pharmaceutical compositions, that include cannabinoids that act as free radical scavengers for use in prophylaxis and treatment of disease. The invention also includes methods for using the antioxidants in prevention and treatment of pathological conditions such as ischemia (tissue hypoxia), and in subjects who have been exposed to oxidant inducing agents such as cancer chemotherapy, toxins, radiation, or other sources of oxidative stress. The compositions and methods described herein are also used for preventing oxidative damage in transplanted organs, for inhibiting reoxygenation injury following reperfusion of ischemic tissues (for example in heart disease), and for any other condition that is mediated by oxidative or free radical mechanisms of injury. In particular embodiments of the invention, the compounds and compositions are used in the treatment of ischemic cardiovascular and neurovascular conditions, and neurodegenerative diseases. However the present invention can also be used as an antioxidant treatment in non-neurological diseases.

ABSTRACT (57)

Cannabinoids have been found to have antioxidant properties, unrelated to NMDA receptor antagonism. This new found property makes cannabinoids useful in the treatment and prophylaxis of wide variety of oxidation associated diseases, such as ischemic, age-related, inflammatory and autoimmune diseases. The cannabinoids are found to have particular application as neuroprotectants, for example in limiting neurological damage following ischemic insults. such as stroke and trauma, or in the treatment of neurodegenerative diseases, such as Alzheimer's disease, Parkinson's disease and HIV dementia. Nonpsychoactive cannabinoids, such as cannabidoil, are particularly advantageous to use because they avoid toxicity that is encountered with psychoactive cannabinoids at high doses useful in the method of the present invention. A particular disclosed class of cannabinoids useful as neuroprotective antioxidants is formula (I) wherein the R group is independently selected from the group consisting of H, CH₃, and COCH₃.