

## Granny Storm Crow's List - January 2014

### PHYTOCANNABINOIDS and RELATED COMPOUNDS

**AMYRINS** – phytochemicals that inhibit the breakdown of 2-AG,

Mechanisms underlying the inhibitory actions of the pentacyclic triterpene  $\alpha$ -amyrin in the mouse skin inflammation induced by phorbol ester 12-O-tetradecanoylphorbol-13-acetate (abst – 2006) <http://www.sciencedirect.com/science/article/pii/S0014299906014014>

Activation of cannabinoid receptors by the pentacyclic triterpene  $\alpha,\beta$ -amyrin inhibits inflammatory and neuropathic persistent pain in mice. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21620566>

The antinociceptive triterpene  $\beta$ -amyrin inhibits 2-arachidonoylglycerol (2-AG) hydrolysis without directly targeting CB receptors. (full – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2012.02059.x/pdf>

Antihyperglycemic and hypolipidemic effects of  $\alpha$ ,  $\beta$ -amyrin, a triterpenoid mixture from *Protium heptaphyllum* in mice (full – 2012)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3484111/>

Adult mortality and blood feeding behavioral effects of  $\alpha$ -amyrin acetate, a novel bioactive compound on in vivo exposed females of *Anopheles stephensi* Liston (Diptera: Culicidae). (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22167372>

Amyrin and the endocannabinoid system (news – 2012)  
<http://gertschgroup.com/blog/entry/3188293/amyrin-and-the-endocannabinoid-system>

Transcriptional Profiles of the Response of Methicillin-Resistant *Staphylococcus aureus* to Pentacyclic Triterpenoids (full – 2013)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3577688/>

Preventive and therapeutic oral administration of the pentacyclic triterpene  $\alpha,\beta$ -amyrin ameliorates dextran sulfate sodium-induced colitis in mice: The relevance of cannabinoid system. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23454360>

**ANTHOCYANINS/ ANTHOCYADINS** – plant pigments, moderately activate CB1 & CB2 receptors

Human tumor cell growth inhibition by nontoxic anthocyanidins, the pigments in fruits and vegetables. (abst – 2005) <http://www.ncbi.nlm.nih.gov/pubmed/15680311>

An examination of anthocyanins' and anthocyanidins' affinity for cannabinoid receptors.  
(abst – 2009) <http://www.ncbi.nlm.nih.gov/pubmed/20041802>

**BETA-CARYOPHYLLENE/ (E)-BCP** \* – CB2 agonist, also see TRANS-CARYOPHYLLENE

Potentiating effect of beta-caryophyllene on anticancer activity of alpha-humulene, isocaryophyllene and paclitaxel. (abst – 2007)  
<http://www.ncbi.nlm.nih.gov/pubmed/18053325>

Beta-caryophyllene is a dietary cannabinoid (full - 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2449371/?tool=pmcentrez>

Anti-inflammatory cannabinoids in diet (full - 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2633791/?tool=pmcentrez>

Discovery of a novel cannabinoid in food (abst – 2008)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0028-1083900>

Salutary pizza spice (news – 2008)  
[http://www.eurekalert.org/pub\\_releases/2008-06/uob-sps062508.php](http://www.eurekalert.org/pub_releases/2008-06/uob-sps062508.php)

Cannabinoids, Endocannabinoids, and Related Analogs in Inflammation (full - 2009)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2664885/?tool=pmcentrez>

Terpenes, Terpenoids and Cannabis (news – 2010)  
<http://berkeleypatientscare.com/2010/10/08/terpenes-terpenoids-and-cannabis/>

Screening for Antiviral Activities of Isolated Compounds from Essential Oils  
(full - 2011) <http://www.hindawi.com/journals/ecam/2011/253643/>

Taming THC: potential cannabis synergy and phytocannabinoid-terpenoid entourage effects. (full - 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165946/>

$\beta$ -Caryophyllene inhibits dextran sulfate sodium-induced colitis in mice through CB2 receptor activation and PPAR $\gamma$  pathway. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21356367>

Terpenoids, 'minor' cannabinoids contribute to 'entourage effect' of cannabis-based medicines (news – 2011)  
<http://www.scribd.com/doc/73090396/Terpenoids-%E2%80%98minor%E2%80%99-cannabinoids-contribute-to-%E2%80%98entourage-effect%E2%80%99-of-cannabis-based-medicines-O-Shaughnessy-s-Autumn-2011>

$\beta$ -Caryophyllene ameliorates cisplatin-induced nephrotoxicity in a cannabinoid 2 receptor-dependent manner. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22326488>

Involvement of peripheral cannabinoid and opioid receptors in  $\beta$ -caryophyllene-induced antinociception. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23138934>

Getting the Flax Straight about Cannabidiol (news – 2012)  
<http://www.examiner.com/article/getting-the-flax-straight-about-cannabidiol>

The cannabinoid CB2 receptor-selective phytocannabinoid beta-caryophyllene exerts analgesic effects in mouse models of inflammatory and neuropathic pain.  
(full – 2013)  
<http://www.europeanneuropsychopharmacology.com/article/S0924-977X%2813%2900302-7/fulltext>

$\beta$ -Caryophyllene causes regression of endometrial implants in a rat model of endometriosis without affecting fertility. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23353590>

Activation of Cannabinoid CB2 Receptor-Mediated AMPK/CREB Pathway Reduces Cerebral Ischemic Injury. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23414569>

$\beta$ -Caryophyllene ameliorates cisplatin-induced nephrotoxicity in a cannabinoid 2 receptor-dependent manner (abst – 2013)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/27/1\\_MeetingAbstracts/704.3?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad](http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/704.3?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad)

Towards a better Cannabis drug. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24024867>

The endocannabinoid system, cannabinoids, and pain (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24228165>

Activation of cortical type 2 cannabinoid receptors ameliorates ischemic brain injury  
(news – 2013) <http://www.sciencedaily.com/releases/2013/02/130221141140.htm>

## **CANNABINOIDS IN OTHER PLANTS** - also see MAGNOLOL, CHOCOLATE, ECHINACEA, TEA

CB receptor ligands from plants. (abst – 2008)  
<http://www.ncbi.nlm.nih.gov/pubmed/18289087>

Immunomodulatory Lipids in Plants: Plant Fatty Acid Amides and the Human Endocannabinoid System (abst – 2008)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-2008-1034302>

Phytocannabinoids beyond the Cannabis plant – do they exist? (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931553/?tool=pubmed>

Marine Cyanobacterial Fatty Acid Amides Acting on Cannabinoid Receptors.

(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23143757?dopt=Abstract>

The CB(1) Receptor-Mediated Endocannabinoid Signaling and NGF: The Novel Targets of Curcumin. (turmeric) (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22311129>

New cannabinoid-like chromane and chromene derivatives from *Rhododendron anthopogonoides*. (full – 2013)  
[https://www.jstage.jst.go.jp/article/cpb/59/11/59\\_11\\_1409/pdf](https://www.jstage.jst.go.jp/article/cpb/59/11/59_11_1409/pdf)

Secondary Metabolites from *Eupenicillium parvum* and Their in Vitro Binding Affinity for Human Opioid and Cannabinoid Receptors. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24288291>

Indoloditerpenes from a Marine-Derived Fungal Strain of *Dichotomomyces cejpui* with Antagonistic Activity at GPR18 and Cannabinoid Receptors. (abst – 2014)  
<http://www.ncbi.nlm.nih.gov/pubmed/24471526>

### **CANNADOR** – a cannabis extract in pill form

Cannabis trial on Parkinson's (news - 2003)  
[http://news.bbc.co.uk/2/hi/uk\\_news/england/devon/2956273.stm](http://news.bbc.co.uk/2/hi/uk_news/england/devon/2956273.stm)

A multicenter dose-escalation study of the analgesic and adverse effects of an oral cannabis extract (Cannador) for postoperative pain management. (full - 2006)  
[http://journals.lww.com/anesthesiology/Fulltext/2006/05000/A\\_Multicenter\\_Dose\\_escalation\\_Study\\_of\\_the\\_21.aspx](http://journals.lww.com/anesthesiology/Fulltext/2006/05000/A_Multicenter_Dose_escalation_Study_of_the_21.aspx)

Analgesic and adverse effects of an oral cannabis extract (Cannador) for postoperative pain (abst - 2006) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=184](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=184)

Cannabis effective at relieving pain after major surgery (news - 2006)  
<http://www.news-medical.net/news/2006/05/17/17995.aspx>

Cannabis 'reduces surgery pain' (news – 2006) <http://news.bbc.co.uk/2/hi/health/5040960.stm>

Cannador: Drug from cannabis plant-extract to reduce surgery pain (news/ forum repost - 2006)  
<http://www.420magazine.com/forums/cannador/150843-cannador-drug-cannabis-plant-extract-reduce-surgery-pain.html>

Cannabinoids for Postoperative Pain (letter – 2007)  
[http://journals.lww.com/anesthesiology/Fulltext/2007/02000/Cannabinoids\\_for\\_Postoperative\\_Pain.29.aspx](http://journals.lww.com/anesthesiology/Fulltext/2007/02000/Cannabinoids_for_Postoperative_Pain.29.aspx)

Cannabinoids as pharmacotherapies for neuropathic pain: from the bench to the bedside.

(full – 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2755639/>

Clinical phase III study with the cannabis extract Cannador successful in multiple sclerosis (news - 2009)

[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=300](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=300)

Marijuana Helps Ease MS Symptoms, Study Finds (news – 2012)

<http://www.healthline.com/health-blogs/study-roundup/marijuana-multiple-sclerosis-101112>

Medical Marijuana: Consortium of Multiple Sclerosis Centers (news – 2013)

<http://www.msviews.org/msviewsandnews4/index.php/2012-05-28-00-15-54/2012-07-04-00-19-28/610-medical-marijuana-consortium-of-multiple-sclerosis-centers>

### **CANNAFLAVIN-A/ CANNAFLAVIN-B** - non-cannabinoid compounds from cannabis

Microbial metabolism of cannflavin A and B isolated from Cannabis sativa.

(abst – 2008) <http://www.ncbi.nlm.nih.gov/pubmed/20223485>

Non-cannabinoid constituents from a high potency Cannabis sativa variety.

(abst – 2008) <http://www.ncbi.nlm.nih.gov/pubmed/18774146>

Cytotoxic and NF- $\kappa$ B-modulating effects of cannabis constituents (abst – 2008)

<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0028-1084227>

Neuritogenic Effects of Cannabinoids with Nerve Growth Factor (NGF) on PC12 Cells

(abst – 2013) <https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1336533>

### **CBC/ CANNABICHROMENE** \* - phytocannabinoid, unknown receptor

Phytocannabinoids (news – undated)

<http://www.news-medical.net/health/Phytocannabinoids.aspx>

Antibacterial cannabinoids from Cannabis sativa: a structure-activity study. (full - 2008)

<http://www.scribd.com/doc/7718968/Antibacterial-Cannabinoids-From-Cannabis-Sativa-A-StructureActivity-Study>

Plant-derived cannabinoids modulate the activity of transient receptor potential channels of ankyrin type-1 and melastatin type-8. (full - 2008)

<http://jpet.aspetjournals.org/content/325/3/1007.long>

Evaluation of Prevalent Phytocannabinoids in the Acetic Acid Model of Visceral Nociception (full – 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2765124/?tool=pubmed>

TRB3 links ER stress to autophagy in cannabinoid anti-tumoral action. (full – 2009) <http://www.landesbioscience.com/journals/autophagy/SalazarAUTO5-7.pdf>

Antidepressant-like effect of Delta(9)-tetrahydrocannabinol and other cannabinoids isolated from Cannabis sativa L. (full - 2010) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2866040/?tool=pubmed>

Disposition of Cannabichromene, Cannabidiol, and  $\Delta^9$ -Tetrahydrocannabinol and its Metabolites in Mouse Brain following Marijuana Inhalation Determined by High-Performance Liquid Chromatography-Tandem Mass Spectrometry (full - 2010) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3023979/>

Pharmacological evaluation of the natural constituent of Cannabis sativa, cannabichromene and its modulation by  $\Delta^9$ -tetrahydrocannabinol (full - 2010) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2967639/>

Assessment of the Genetic Stability of Micropropagated Plants of Cannabis sativa by ISSR Markers (abst – 2010) <https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0029-1185945>

The endocannabinoid system and cancer: therapeutic implication (full – 2011) <http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2011.01327.x/full>

Effects of cannabinoids and cannabinoid-enriched Cannabis extracts on TRP channels and endocannabinoid metabolic enzymes. (full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165957/pdf/bph0163-1479.pdf>

CANNABIS SATIVA PLANTS RICH IN CANNABICHRUMENE AND ITS ACID, EXTRACTS THEREOF AND METHODS OF OBTAINING EXTRACTS THEREFROM (full – 2011) <http://www.faqs.org/patents/app/20110098348>

Non-psychoactive cannabinoids modulate the descending pathway of antinociception in anaesthetized rats through several mechanisms of action (full– 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3041249/>

Phytocannabinoids for use in the treatment of cancer - Patent GB2478595 (A) — 2011-09-14 (full – 2011) [http://worldwide.espacenet.com/publicationDetails/biblio?CC=GB&NR=2478595A&KC=A&FT=D&ND=&date=20110914&DB=&locale=en\\_EP](http://worldwide.espacenet.com/publicationDetails/biblio?CC=GB&NR=2478595A&KC=A&FT=D&ND=&date=20110914&DB=&locale=en_EP)

The intersection between cannabis and cancer in the United States. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/22019199>

Cannabinoids in children (abst – 2011) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=295](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=295)

Cannabis Science Reports: National Cancer Institute Updates Confirm Successful Cancer Treatments with Medical Cannabis. (news - 2011)

<http://www.thefreelibrary.com/Cannabis+Science+Reports%3a+National+Cancer+Institute+Updates+Conf+irm...-a0252875363>

Inhibitory effect of cannabichromene, a major non-psychoactive cannabinoid extracted from Cannabis sativa, on inflammation-induced hypermotility in mice. (full – 2012)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3417459/>

Analysis of cannabinoids in laser-microdissected trichomes of medicinal Cannabis sativa using LCMS and cryogenic NMR. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/23280038>

5 Marijuana Compounds That Could Help Combat Cancer, Alzheimers, Parkinsons (If Only They Were Legal) (news – 2012)

<http://www.alternet.org/drugs/5-marijuana-compounds-could-help-combat-cancer-alzheimers-parkinsons-if-only-they-were-legal>

The cannabinoid TRPA1 agonist cannabichromene inhibits nitric oxide production in macrophages and ameliorates murine colitis. (abst – 2013)

<http://www.ncbi.nlm.nih.gov/pubmed/23373571>

The effect cannabichromene on adult neural stem/progenitor cells. (abst – 2013)

<http://www.ncbi.nlm.nih.gov/pubmed/23941747>

The cannabinoid TRPA1 agonist cannabichromene inhibits nitric oxide production in macrophages and ameliorates murine colitis. (abst – 2013)

<http://www.ncbi.nlm.nih.gov/pubmed/23373571>

5 Health Benefits Of Cannabichromene (CBC) (news – 2013)

<http://www.leafscience.com/2013/09/21/5-health-benefits-of-cannabichromene-cbc/>

**CBD/ CANNABIDIOL/ GWP- 42004** \* antagonist of CB1 and CB2, GPR – 55 and GPR- 18

Phytocannabinoids (news – undated)

<http://www.news-medical.net/health/Phytocannabinoids.aspx>

ACCESSING 0.5 to 2.0 GRAMS CBD FRACTIONATING THE PHYTOCANNABINOIDS BY THEIR VAPORIZATION POINTS (article - undated )

<http://forum.grasscity.com/medical-marijuana/610429-need-cbd.html>

Effects of cannabidiol derivatives on intestinal motility (abst - undated)

<http://www.docstoc.com/docs/26071658/Effects-of-cannabidiol-derivatives-on-intestinal-motility->

Cannabinoids might reduce spasticity in multiple sclerosis (full - 2000)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1117698/?tool=pmcentrez>

The nonpsychoactive cannabis constituent cannabidiol is an oral anti-arthritic therapeutic in murine collagen-induced arthritis (full - 2000)

<http://www.pnas.org/cgi/content/full/97/17/9561>

Advantages of polypharmaceutical herbal cannabis compared to single ingredient, synthetic tetrahydrocannabinol (full - 2000)

<http://cannabismovement.org/docs/cannabis%20terpenes.pdf>

Variations of D9-THC content in single plants of hemp varieties (full - 2000)

<http://www.ukcia.org/research/VariationOfTHCContent.pdf>

Neuroprotective Antioxidants from Marijuana (abst – 2000)

<http://onlinelibrary.wiley.com/doi/10.1111/j.1749-6632.2000.tb06193.x/abstract;jsessionid=2FC02E954345A713B5843BEE89616F4F.d02t01>

Different effects of nabilone and cannabidiol on binocular depth inversion in Man.

(abst – 2000) <http://www.ncbi.nlm.nih.gov/pubmed/10837858>

Synthesis of a primary metabolite of cannabidiol. (abst – 2000)

<http://www.ncbi.nlm.nih.gov/pubmed/11029195>

Cannabinoids in clinical practice. (abst - 2000)

<http://www.ncbi.nlm.nih.gov/pubmed/11152013>

Marijuana Extract Helps Arthritis Pain (news - 2000)

<http://www.prohealth.com/library/showArticle.cfm?libid=552>

Cannabinoid effects on anxiety-related behaviours and hypothalamic neurotransmitters.

(abst - 2001) <http://www.ncbi.nlm.nih.gov/pubmed/11566149>

Cannabis and the brain. (full - 2003)

<http://brain.oxfordjournals.org/cgi/content/full/126/6/1252>

Neuroprotective Effect of(–)Δ9-Tetrahydrocannabinol and Cannabidiol in N-Methyl-d-Aspartate-Induced Retinal Neurotoxicity - Involvement of Peroxynitrite (full - 2003)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1892413/?tool=pmcentrez>

Composition of the essential oils and extracts of two populations of Cannabis sativa L. ssp. spontanea from Austria (full/ forum repost - 2003)

<http://www.420magazine.com/forums/chemical-composition/150878-composition-essential-oils-extracts-two-populations-cannabis-sativa.html>

Pharmacokinetics and pharmacodynamics of cannabinoids. (abst – 2003)

<http://www.ncbi.nlm.nih.gov/pubmed/12648025>

Post-ischemic Treatment with Cannabidiol Prevents Electroencephalographic Flattening, Hyperlocomotion and Neuronal Injury in Gerbils. (abst – 2003)

<http://www.sciencedirect.com/science/article/pii/S030439400300569X>



Therapeutic potential of cannabinoids in CNS disease. (abst - 2003)

<http://www.ncbi.nlm.nih.gov/pubmed/12617697>

Gamma-irradiation enhances apoptosis induced by cannabidiol, a non-psychotropic cannabinoid, in cultured HL-60 myeloblastic leukemia cells. (abst - 2003)

[http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list\\_uids=14692532&dopt=abstractplus](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list_uids=14692532&dopt=abstractplus)

Cannabidiol-transdermal delivery and anti-inflammatory effect in a murine model.

(abst - 2003) <http://www.ncbi.nlm.nih.gov/pubmed/14644587>

Initial experiences with medicinal extracts of cannabis for chronic pain: Results from 34 'N of 1' studies (full - 2004) <http://www.ukcia.org/research/InitialExperiencesChronicPain.pdf>

Neuroprotective effect of cannabidiol, a non-psychoactive component from Cannabis sativa, on  $\beta$ -amyloid-induced toxicity in PC12 cells (full - 2004)

<http://www3.interscience.wiley.com/cgi-bin/fulltext/118757302/HTMLSTART>

Antitumor effects of cannabidiol, a nonpsychoactive cannabinoid, on human glioma cell lines. (full - 2004) <http://jpet.aspetjournals.org/content/308/3/838.long>

Cannabidiol prevents infarction via the non-CB1 cannabinoid receptor mechanism.

(abst - 2004) <http://www.ncbi.nlm.nih.gov/pubmed/15640760>

Cannabidiol Preserves Retinal Neurons and Reduces Vascular Permeability in Experimental Diabetes (abst - 2004)

<http://abstracts.iovs.org/cgi/content/abstract/45/5/860?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=1760&resourcetype=HWCIT>

Effect of Delta-9-tetrahydrocannabinol and cannabidiol on nocturnal sleep and early-morning behavior in young adults. (abst - 2004)

<http://www.ncbi.nlm.nih.gov/pubmed/15118485?dopt=Abstract>

Marijuana-like compounds may aid array of debilitating conditions ranging from Parkinson's to pain (news - 2004)

[http://www.eurekalert.org/pub\\_releases/2004-10/sfn-mcm102604.php](http://www.eurekalert.org/pub_releases/2004-10/sfn-mcm102604.php)

Comparison of Cannabidiol, Antioxidants, and Diuretics in Reversing Binge Ethanol-Induced Neurotoxicity (full - 2005) <http://jpet.aspetjournals.org/content/314/2/780.full>

Cannabidiol inhibits human glioma cell migration through a cannabinoid receptor-independent mechanism (full - 2005)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1576089/?tool=pmcentrez>

Cannabidiol Prevents Cerebral Infarction Via a Serotonergic 5-Hydroxytryptamine<sub>1A</sub> Receptor-Dependent Mechanism (full - 2005)

<http://stroke.ahajournals.org/cgi/content/full/36/5/1071>

Cannabidiol lowers incidence of diabetes in non-obese diabetic mice (full - 2005)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2270485/?tool=pmcentrez>

Cannabidiol as an antipsychotic. A double-blind, controlled clinical trial on cannabidiol vs. amisulpride in acute schizophrenia. (full - 2005)  
<http://www.nature.com/tp/journal/v2/n3/full/tp201215a.html>

Cannabinol delays symptom onset in SOD1 (G93A) transgenic mice without affecting survival. (abst - 2005)  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=Abstract&list\\_uids=16183560](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=16183560)

Peripheral, but not central effects of cannabidiol derivatives: mediation by CB(1) and unidentified receptors. (abst - 2005) <http://www.ncbi.nlm.nih.gov/pubmed/15910887>

Treatment with CBD in oily solution of drug-resistant paediatric epilepsies. (abst - 2005)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=173&&search\\_pattern=EPILEPSY](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=173&&search_pattern=EPILEPSY)

Cannabinoids provide neuroprotection against 6-hydroxydopamine toxicity in vivo and in vitro: relevance to Parkinson's disease. (abst - 2005)  
<http://www.ncbi.nlm.nih.gov/pubmed/15837565?dopt=Abstract>

Pharmacokinetics and metabolism of the plant cannabinoids, delta9-tetrahydrocannabinol, cannabidiol and cannabinol. (abst - 2005)  
<http://www.ncbi.nlm.nih.gov/pubmed/16596792>

Chemicals in Cannabis may help mentally ill (news - 2005)  
<http://www.news-medical.net/news/2005/06/06/10716.aspx>

Neuroprotective and Blood-Retinal Barrier-Preserving Effects of Cannabidiol in Experimental Diabetes (full - 2006)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1592672/?tool=pubmed>

Role of the Cannabinoid System in Pain Control and Therapeutic Implications for the Management of Acute and Chronic Pain Episodes (full - 2006)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2430692/?tool=pubmed>

A tale of two cannabinoids: The therapeutic rationale for combining tetrahydrocannabinol and cannabidiol. (full - 2006)  
[http://mcforadhd.free.fr/Russo\\_Tale\\_of\\_Two\\_Cannabinoids\\_Med\\_Hypoth\\_2006.pdf](http://mcforadhd.free.fr/Russo_Tale_of_Two_Cannabinoids_Med_Hypoth_2006.pdf)

Cannabidiol, a Cannabis sativa constituent, as an antipsychotic drug (full - 2006)  
[http://www.scielo.br/scielo.php?pid=S0100-879X2006000400001&script=sci\\_arttext#Text](http://www.scielo.br/scielo.php?pid=S0100-879X2006000400001&script=sci_arttext#Text)

Cannabidiol-Induced Apoptosis in Human Leukemia Cells: A Novel Role of Cannabidiol in the Regulation of p22phox and Nox4 Expression (full - 2006)  
<http://molpharm.aspetjournals.org/content/70/3/897.long>

Antitumor Activity of Plant Cannabinoids with Emphasis on the Effect of Cannabidiol on Human Breast Carcinoma (full - 2006) <http://jpet.aspetjournals.org/content/318/3/1375.full>

The effects of cannabinoids on P-glycoprotein transport and expression in multidrug resistant cells. (abst - 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16458258>

Cannabidiol, a constituent of Cannabis sativa, modulates sleep in rats. (abst - 2006)  
<http://www.ncbi.nlm.nih.gov/pubmed/16844117>

Anxiolytic-like effect of cannabidiol in the rat Vogel conflict test. (abst - 2006)  
<http://www.ncbi.nlm.nih.gov/pubmed/16876926>

Differential effects of cannabis extracts and pure plant cannabinoids on hippocampal neurones and glia. (abst - 2006)  
<http://www.ncbi.nlm.nih.gov/pubmed/16997463?dopt=Abstract>

The non-psychoactive cannabidiol triggers caspase activation and oxidative stress in human glioma cells. (abst - 2006)  
<http://www.ihop-net.org/UniPub/iHOP/pm/12214911.html?pmid=16909207>

The marijuana component cannabidiol inhibits beta-amyloid-induced tau protein hyperphosphorylation through Wnt/beta-catenin pathway rescue in PC12 cells. (abst - 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16389547>

Cannabidiol inhibits inducible nitric oxide synthase protein expression and nitric oxide production in beta-amyloid stimulated PC12 neurons through p38 MAP kinase and NF-kappaB involvement. (abst - 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16490313>

Cannabidiol inhibits tumour growth in leukaemia and breast cancer (news - 2006)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=220#2](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=220#2)

Compound found in marijuana may defend against diabetic retinopathy (news - 2006)  
<http://www.news-medical.net/news/2006/03/01/16284.aspx>

Cannabidiol as a novel inhibitor of Id-1 gene expression in aggressive breast cancer cells. (full - 2007) <http://mct.aacrjournals.org/content/6/11/2921.long>

The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids: Δ9-tetrahydrocannabinol, cannabidiol and Δ9-tetrahydrocannabivarin (full - 2007)  
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2219532&tool=pmcentrez>

Cannabidiol attenuates high glucose-induced endothelial cell inflammatory response and barrier disruption (full - 2007)  
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2228254&tool=pmcentrez>

Cannabidiol in vivo blunts  $\beta$ -amyloid induced neuroinflammation by suppressing IL-1 $\beta$  and iNOS expression (full - 2007)

<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2189818&tool=pmcentrez>

Cannabidiol, a nonpsychoactive Cannabis constituent, protects against myocardial ischemic reperfusion injury (full - 2007)

<http://ajpheart.physiology.org/cgi/content/full/293/6/H3602>

Cannabidiol displays unexpectedly high potency as an antagonist of CB1 and CB2 receptor agonists in vitro (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189767/?tool=pubmed>

Delayed treatment with cannabidiol has a cerebroprotective action via a cannabinoid receptor-independent myeloperoxidase-inhibiting mechanism. (full - 2007)

<http://www3.interscience.wiley.com/cgi-bin/fulltext/118484119/HTMLSTART>

Nonpsychoactive Cannabidiol Prevents Prion Accumulation and Protects Neurons against Prion Toxicity (full - 2007)

<http://www.jneurosci.org/cgi/content/full/27/36/9537>

Cannabidiol, unlike synthetic cannabinoids, triggers activation of RBL-2H3 mast cells (full - 2007)

<http://www.jleukbio.org/content/early/2007/03/05/jlb.1206738.full.pdf+html>

The multidrug transporter ABCG2 (BCRP) is inhibited by plant-derived cannabinoids. (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190019/?tool=pubmed>

US Patent Application 20070099987 - Treating or preventing diabetes with cannabidiol (full - 2007)

<http://www.patentstorm.us/applications/20070099987/fulltext.html>

Repeated Treatment with Cannabidiol but Not Delta9-tetrahydrocannabinol Has a Neuroprotective Effect Without the Development of Tolerance (abst - 2007)

<http://www.ncbi.nlm.nih.gov/pubmed/17320118>

Interactions of cannabidiol with endocannabinoid signalling in hippocampal tissue. (abst - 2007)

<http://www.ncbi.nlm.nih.gov/pubmed/17419758>

Cannabidiol--recent advances. (abst - 2007)

<http://www.ncbi.nlm.nih.gov/pubmed/17712814>

Who's Afraid of Cannabidiol? (news - 2007)

<http://www.counterpunch.org/2007/07/14/who-s-afraid-of-cannabidiol/>

Cannabidiol May be Effective in Preventing Bovine Spongiforme Enzcephalopathy (Mad Cow Disease) (news - 2007)

<http://www.letfreedomgrow.com/articles/fr070916.htm>

Marijuana Compound Shows Promise In Fighting Breast Cancer (news - 2007)

<http://www.sciencedaily.com/releases/2007/11/071123211703.htm>

Cannabis compound cannabidiol CBD 'halts cancer' (news - 2007)

<http://news.bbc.co.uk/2/hi/health/7098340.stm>

Cannabis compound stops spread of breast cancer: researchers (news - 2007)  
<http://www.cbc.ca/news/technology/cannabis-compound-stops-spread-of-breast-cancer-researchers-1.675379>

Divergent effects of cannabidiol on the discriminative stimulus and place conditioning effects of  $\Delta^9$ -tetrahydrocannabinol (full - 2008)  
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2279017>

Mediation of Cannabidiol anti-inflammation in the Retina by Equilibrative Nucleoside Transporter and A2A Adenosine Receptor (full - 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2588644/?tool=pmcentrez>

Antibacterial cannabinoids from Cannabis sativa: a structure-activity study. (full - 2008)  
<http://www.scribd.com/doc/7718968/Antibacterial-Cannabinoids-From-Cannabis-Sativa-A-StructureActivity-Study>

Cannabidiol, extracted from Cannabis sativa, selectively inhibits inflammatory hypermotility in mice (full - 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2451037/?tool=pmcentrez>

Neuroprotective effects of cannabidiol in endotoxin-induced uveitis: critical role of p38 MAPK activation. (full - 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2592995/?tool=pubmed>

Effects of cannabidiol on schizophrenia-like symptoms in people who use cannabis (full - 2008)  
<http://bjp.rcpsych.org/cgi/content/full/192/4/306?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=1200&resource-type=HWCIT>

Cannabidiol: from an inactive cannabinoid to a drug with wide spectrum of action. (full - 2008) <http://www.finola.com/CBDreview2008.pdf>

Plant-derived cannabinoids modulate the activity of transient receptor potential channels of ankyrin type-1 and melastatin type-8. (full - 2008)  
<http://jpet.aspetjournals.org/content/325/3/1007.long>

Inhibition of human neutrophil chemotaxis by endogenous cannabinoids and phytocannabinoids: evidence for a site distinct from CB1 and CB2. (full - 2008)  
<http://molpharm.aspetjournals.org/content/73/2/441.long>

US Patent Application 20080262099 - Inhibition of Tumour Cell Migration (full - 2008) <http://www.patentstorm.us/applications/20080262099/fulltext.html>

The nonpsychoactive cannabis constituent cannabidiol is a wake-inducing agent. (abst - 2008) <http://www.ncbi.nlm.nih.gov/pubmed/19045957>

The role of the endocannabinoid system in Alzheimer's disease: facts and hypotheses.  
(abst - 2008) <http://www.ncbi.nlm.nih.gov/pubmed/18781980>

A comparative study on cannabidiol-induced apoptosis in murine thymocytes and EL-4 thymoma cell (abst - 2008)  
<http://www.greenmedinfo.com/article/cannabinoids-may-have-therapeutic-role-play-treating-thyoma>

5-Lipoxygenase and anandamide hydrolase (FAAH) mediate the antitumor activity of cannabidiol, a non-psychoactive cannabinoid. (abst – 2008)  
<http://www.ncbi.nlm.nih.gov/pubmed/18028339>

Cannabidiol in medicine: a review of its therapeutic potential in CNS disorders.  
(abst - 2008)  
[http://www.unboundmedicine.com/medline/ebm/record/18844286/abstract/Cannabidiol in medicine: a review of its therapeutic potential in CNS disorders](http://www.unboundmedicine.com/medline/ebm/record/18844286/abstract/Cannabidiol_in_medicine:_a_review_of_its_therapeutic_potential_in_CNS_disorders)

Cytotoxic and NF- $\kappa$ B-modulating effects of cannabis constituents (abst – 2008)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0028-1084227>

Inhibition of Breast Cancer Aggressiveness by Cannabidiol (abst - 2008)  
[http://cbrp.org.127.seekdotnet.com/research/PageGrant.asp?grant\\_id=4903](http://cbrp.org.127.seekdotnet.com/research/PageGrant.asp?grant_id=4903)

Scheduling process at DEA - the example of cannabidiol (abst – 2008)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/22/1\\_MeetingAbstracts/711.1](http://www.fasebj.org/cgi/content/meeting_abstract/22/1_MeetingAbstracts/711.1)

Therapeutic time window of cannabidiol treatment on delayed ischemic damage via high-mobility group box 1-inhibiting mechanism. (full – 2009)  
[https://www.jstage.jst.go.jp/article/bpb/32/9/32\\_9\\_1538/\\_pdf](https://www.jstage.jst.go.jp/article/bpb/32/9/32_9_1538/_pdf)

Cannabinoids  $\Delta$ 9-Tetrahydrocannabinol and Cannabidiol Differentially Inhibit the Lipopolysaccharide-activated NF- $\kappa$ B and Interferon- $\beta$ /STAT Proinflammatory Pathways in BV-2 Microglial Cells (full – 2009)  
<http://www.jbc.org/content/285/3/1616.full?sid=43211ca4-a4aa-4182-a554-d15e2835e288>

Non-psychotropic plant cannabinoids: new therapeutic opportunities from an ancient herb (full - 2009 )  
<http://www.onlinepot.org/medical/Izzo%20Plant%20Cannabinoids%20Therapeutic%20Opportunities%20TIPS%202009.pdf>

Cannabinoids, Endocannabinoids, and Related Analogs in Inflammation (full - 2009)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2664885/?tool=pubmed>

Evaluation of Prevalent Phytocannabinoids in the Acetic Acid Model of Visceral Nociception (full – 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2765124/?tool=pubmed>

The putative cannabinoid receptor GPR55 affects osteoclast function in vitro and bone mass in vivo (full – 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2737440/?tool=pubmed>

Cannabinoids as novel anti-inflammatory drugs. (full - 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2828614/?tool=pubmed>

Cannabidiol, a Nonpsychotropic Component of Cannabis, Inhibits Cue-Induced Heroin Seeking and Normalizes Discrete Mesolimbic Neuronal Disturbances (full - 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2829756/?tool=pmcentrez>

Opposite Effects of Delta-9-Tetrahydrocannabinol and Cannabidiol on Human Brain Function and Psychopathology. (full - 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3055598/pdf/npp2009184a.pdf>

Cannabidiol As a Putative Novel Therapy for Diabetic Retinopathy: A Postulated Mechanism of Action as an Entry Point for Biomarker-Guided Clinical Development.

(full - 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2955420/?tool=pubmed>

Non-psychotropic plant cannabinoids: new therapeutic opportunities from an ancient herb (full - 2009)

<http://www.onlinepot.org/medical/Izzo%20Plant%20Cannabinoids%20Therapeutic%20Opportunities%20TIPS%202009.pdf>

Cannabidiol: a promising drug for neurodegenerative disorders? (full - 2009)

<http://onlinelibrary.wiley.com/doi/10.1111/j.1755-5949.2008.00065.x/full>

Cannabidiol Attenuates Cisplatin-Induced Nephrotoxicity by Decreasing Oxidative/Nitrosative Stress, Inflammation, and Cell Death (full - 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2682269/>

Cannabidiol-induced lymphopenia does not involve NKT and NK cells.

(full - 2009) [http://www.jpp.krakow.pl/journal/archive/10\\_09\\_s3/pdf/99\\_10\\_09\\_s3\\_article.pdf](http://www.jpp.krakow.pl/journal/archive/10_09_s3/pdf/99_10_09_s3_article.pdf)

Cannabidiol-2',6'-Dimethyl Ether, a Cannabidiol Derivative, Is a Highly Potent and Selective 15-Lipoxygenase Inhibitor. (full - 2009)

<http://dmd.aspetjournals.org/content/37/8/1733.long>

Cannabidiol targets mitochondria to regulate intracellular Ca<sup>2+</sup> levels. (full - 2009)

<http://www.jneurosci.org/content/29/7/2053.long>

Effects of cannabidiol on amphetamine-induced oxidative stress generation in an animal

model of mania (abst - 2009) <http://jop.sagepub.com/content/25/2/274.abstract>

The nonpsychotropic cannabinoid cannabidiol modulates and directly activates alpha-1 and alpha-1-Beta glycine receptor function (abst - 2009)

<http://content.karger.com/produktedb/produkte.asp?DOI=000201556&typ=pdf>

Cannabidiol Attenuates Myocardial Dysfunction, Fibrosis, Inflammation, Cell Death and Interrelated Signaling Pathways Associated With Diabetic Cardiomyopathy

(abst - 2009)

[http://circ.ahajournals.org/cgi/content/meeting\\_abstract/120/18\\_MeetingAbstracts/S868?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=1680&resourcetype=HWCIT](http://circ.ahajournals.org/cgi/content/meeting_abstract/120/18_MeetingAbstracts/S868?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=1680&resourcetype=HWCIT)

Cannabidiol decreases bone resorption by inhibiting RANK/RANKL expression and pro-inflammatory cytokines during experimental periodontitis in rats. (abst - 2009)

<http://www.ncbi.nlm.nih.gov/pubmed/19070683>

Time-dependent vascular actions of cannabidiol in the rat aorta. (abst – 2009)

<http://www.ncbi.nlm.nih.gov/pubmed/19285060>

Beneficial effects of a Cannabis sativa extract treatment on diabetes-induced neuropathy and oxidative stress. (abst - 2009)

<http://www.unboundmedicine.com/medline/ebm/record/19441010/abstract/>

Cannabidiol, a safe and non-psychoactive ingredient of the marijuana plant Cannabis sativa, is protective in a murine model of colitis. (abst - 2009)

[http://www.unboundmedicine.com/medline/ebm/record/19690824/abstract/Cannabidiol\\_a\\_safe\\_and\\_non\\_psychoactive\\_ingredient\\_of\\_the\\_marijuana\\_plant\\_Cannabis\\_sativa\\_is\\_protective\\_in\\_a\\_murine\\_model\\_of\\_colitis](http://www.unboundmedicine.com/medline/ebm/record/19690824/abstract/Cannabidiol_a_safe_and_non_psychoactive_ingredient_of_the_marijuana_plant_Cannabis_sativa_is_protective_in_a_murine_model_of_colitis)

Cannabidiol ameliorates cognitive and motor impairments in mice with bile duct ligation. (abst - 2009)

[http://www.unboundmedicine.com/medline/ebm/record/19596476/abstract/Cannabidiol\\_ameliorates\\_cognitive\\_and\\_motor\\_impairments\\_in\\_mice\\_with\\_bile\\_duct\\_ligation](http://www.unboundmedicine.com/medline/ebm/record/19596476/abstract/Cannabidiol_ameliorates_cognitive_and_motor_impairments_in_mice_with_bile_duct_ligation)

Cannabidiol for the treatment of psychosis in Parkinson's disease (abst - 2009)

<http://jop.sagepub.com/cgi/content/abstract/23/8/979?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=1920&resourcetype=HWCIT>

Modulation of effective connectivity during emotional processing by Delta9-tetrahydrocannabinol and cannabidiol. (abst - 2009)

[http://www.ncbi.nlm.nih.gov/pubmed/19775500?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_DefaultReportPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/19775500?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)

Cannabidiol reverses the reduction in social interaction produced by low dose Delta(9)-tetrahydrocannabinol in rats. (abst – 2009)

<http://www.ncbi.nlm.nih.gov/pubmed/19393686>

Cannabis compound can help cells (news – 2009)

<http://www.physorg.com/news154280470.html>

Cannabis plant extracts could potentially form the basic ingredients for a market-leading diabetes drug (news – 2009)

<http://www.thefreelibrary.com/Cannabis+plant+extracts+could+potentially+form+the+basic+ingredients...-a0202701009>

Marijuana Chemicals Ease MS Symptoms, Review Confirms (news - 2009)

<http://www.drugfree.org/uncategorized/marijuana-chemicals-ease-ms>

Cannabis by product helps reduce effects of Parkinson disease medication

(news - 2009) <http://en.mercoress.com/2009/12/30/cannabis-by-product-helps-reduce-effects-of-parkinson-disease-medication/>



International Union of Basic and Clinical Pharmacology. LXXIX. Cannabinoid Receptors and Their Ligands: Beyond CB1 and CB2 (full – 2010)  
<http://pharmrev.aspetjournals.org/content/62/4/588.full.pdf+html>

Antidepressant-like effects of cannabidiol in mice: possible involvement of 5-HT1A receptors (full – 2010) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2823358/?tool=pubmed>

Cannabinoid-mediated modulation of neuropathic pain and microglial accumulation in a model of murine type I diabetic peripheral neuropathic pain (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2845559/?tool=pmcentrez>

Cannabinoid receptor CB1 mediates baseline and activity-induced survival of new neurons in adult hippocampal neurogenesis (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2898685/?tool=pmcentrez>

Therapeutical use of the cannabinoids in psychiatry (full – 2010)  
[http://www.scielo.br/scielo.php?script=sci\\_arttext&pid=S1516-44462010000500009&lng=en&nrm=iso&tlng=en](http://www.scielo.br/scielo.php?script=sci_arttext&pid=S1516-44462010000500009&lng=en&nrm=iso&tlng=en)

Cannabidiol protects retinal neurons by preserving glutamine synthetase activity in diabetes. (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2925907/?tool=pubmed>

Cannabidiol Displays Antiepileptiform and Antiseizure Properties In Vitro and In Vivo (full - 2010) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2819831/?tool=pmcentrez>

Acute administration of cannabidiol in vivo suppresses ischaemia-induced cardiac arrhythmias and reduces infarct size when given at reperfusion. (full – 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2936031/?tool=pubmed>

Antitumorigenic Effects of Cannabinoids beyond Apoptosis (full - 2010)  
<http://jpet.aspetjournals.org/content/332/2/336.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17>

Cannabidiol Attenuates Cardiac Dysfunction, Oxidative Stress, Fibrosis, and Inflammatory and Cell Death Signaling Pathways in Diabetic Cardiomyopathy (full - 2010) <http://www.natap.org/2010/newsUpdates/marijuana.pdf>

Antidepressant-like effect of Delta(9)-tetrahydrocannabinol and other cannabinoids isolated from Cannabis sativa L. (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2866040/?tool=pubmed>

Cannabidiol ameliorates cognitive and motor impairments in bile-duct ligated mice via 5-HT1A receptor activation. (full – 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2829220/?tool=pubmed>

Diabetic retinopathy: Role of inflammation and potential therapies for anti-inflammation. (full– 2010) <http://www.wjgnet.com/1948-9358/full/v1/i1/12.htm>

Regulation of nausea and vomiting by cannabinoids (full - 2010)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2010.01176.x/pdf>

Cannabidiol Enhances the Inhibitory Effects of  $\Delta$ 9-Tetrahydrocannabinol on Human Glioblastoma Cell Proliferation and Survival (full - 2010)  
<http://mct.aacrjournals.org/content/9/1/180.full>

Cannabidiol Attenuates the Appetitive Effects of  $\Delta$ 9-Tetrahydrocannabinol in Humans Smoking Their Chosen Cannabis (full - 2010)  
<http://www.nature.com/npp/journal/v35/n9/full/npp201058a.html>

Impact of cannabidiol on the acute memory and psychotomimetic effects of smoked cannabis: naturalistic study. (full - 2010) <http://bjp.repsych.org/content/197/4/285.long>

Anti-tumoural effects of cannabinoid combinations - Patent TW201002315 (A) — 2010-01-16 (full – 2010)  
[http://worldwide.espacenet.com/publicationDetails/description?CC=TW&NR=201002315A&KC=A&FT=D&ND=3&date=20100116&DB=EPODOC&locale=en\\_EP](http://worldwide.espacenet.com/publicationDetails/description?CC=TW&NR=201002315A&KC=A&FT=D&ND=3&date=20100116&DB=EPODOC&locale=en_EP)

Therapeutic Potential of Non-Psychotropic Cannabidiol in Ischemic Stroke (link to PDF – 2010) <http://www.mdpi.com/1424-8247/3/7/2197>

A behavioural comparison of acute and chronic Delta9-tetrahydrocannabinol and cannabidiol in C57BL/6JArc mice. (abst – 2010)  
[http://www.unboundmedicine.com/medline/ebm/record/19785914/abstract/A\\_behavioural\\_comparison\\_of\\_acute\\_and\\_chronic\\_Delta9\\_tetrahydrocannabinol\\_and\\_cannabidiol\\_in\\_C57BL/6JArc\\_mice](http://www.unboundmedicine.com/medline/ebm/record/19785914/abstract/A_behavioural_comparison_of_acute_and_chronic_Delta9_tetrahydrocannabinol_and_cannabidiol_in_C57BL/6JArc_mice)

Assessment of the Genetic Stability of Micropropagated Plants of Cannabis sativa by ISSR Markers (abst – 2010)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0029-1185945>

Intra-dorsal periaqueductal gray administration of cannabidiol blocks panic-like response by activating 5-HT1A receptors. (abst – 2010)  
[http://www.unboundmedicine.com/medline/ebm/record/20457188/abstract/Intra\\_dorsal\\_periaqueductal\\_gray\\_administration\\_of\\_cannabidiol\\_blocks\\_panic\\_like\\_response\\_by\\_activating\\_5-HT1A\\_receptors](http://www.unboundmedicine.com/medline/ebm/record/20457188/abstract/Intra_dorsal_periaqueductal_gray_administration_of_cannabidiol_blocks_panic_like_response_by_activating_5-HT1A_receptors)

Decrease of plasminogen activator inhibitor-1 may contribute to the anti-invasive action of cannabidiol on human lung cancer cells. (abst - 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20668920>

Characterization of major phytocannabinoids, cannabidiol and cannabinol, as isoform-selective and potent inhibitors of human CYP1 enzymes. (abst – 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20117100>

Cannabidiol bioavailability after nasal and transdermal application: effect of permeation enhancers. (abst - 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20545522>

Cannabidiol inhibits cancer cell invasion via upregulation of tissue inhibitor of matrix metalloproteinases-1. (abst - 2010) <http://www.ncbi.nlm.nih.gov/pubmed/19914218>

Effects of cannabidiol on amphetamine-induced oxidative stress generation in an animal model of mania. (abst - 2010)  
[http://www.unboundmedicine.com/medline/ebm/record/19939866/full\\_citation/Effects\\_of\\_cannabidiol\\_on\\_amphetamine\\_induced\\_oxidative\\_stress\\_generation\\_in\\_an\\_animal\\_model\\_of\\_mania](http://www.unboundmedicine.com/medline/ebm/record/19939866/full_citation/Effects_of_cannabidiol_on_amphetamine_induced_oxidative_stress_generation_in_an_animal_model_of_mania)

Cannabidiol inhibitory effect on marble-burying behaviour: involvement of CB1 receptors. (abst - 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20695034>

Cannabidiol attenuates delayed-type hypersensitivity reactions via suppressing T-cell and macrophage reactivity. (abst - 2010) <http://www.ncbi.nlm.nih.gov/pubmed/21042286>

Multicenter, double-blind, randomized, placebo-controlled, parallel-group study of the efficacy, safety, and tolerability of THC:CBD extract and THC extract in patients with intractable cancer-related pain. (abst - 2010) <http://www.ncbi.nlm.nih.gov/pubmed/19896326>

Disposition of Cannabichromene, Cannabidiol, and  $\Delta^9$ -Tetrahydrocannabinol and its Metabolites in Mouse Brain following Marijuana Inhalation Determined by High-Performance Liquid Chromatography-Tandem Mass Spectrometry (abst - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3023979/>

Treatment with cannabidiol reverses oxidative stress parameters, cognitive impairment and mortality in rats submitted to sepsis by cecal ligation and puncture. (abst - 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20561509>

Anticonvulsant effects of GWP42006 in vitro and in vivo in rat (abst - 2010)  
<http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2019C117>

The neuroprotective effect of cannabidiol in an in vitro model of newborn hypoxic-ischemic brain damage in mice is mediated by CB(2) and adenosine receptors. (abst - 2010)  
[http://www.unboundmedicine.com/medline/ebm/record/19900555/abstract/The\\_neuroprotective\\_effect\\_of\\_cannabidiol\\_in\\_an\\_in\\_vitro\\_model\\_of\\_newborn\\_hypoxic\\_ischemic\\_brain\\_damage\\_in\\_mice\\_is\\_mediated\\_by\\_CB\\_2\\_and\\_adenosine\\_receptors](http://www.unboundmedicine.com/medline/ebm/record/19900555/abstract/The_neuroprotective_effect_of_cannabidiol_in_an_in_vitro_model_of_newborn_hypoxic_ischemic_brain_damage_in_mice_is_mediated_by_CB_2_and_adenosine_receptors)

Neural basis of anxiolytic effects of cannabidiol (CBD) in generalized social anxiety disorder: a preliminary report (abst - 2010) <http://jop.sagepub.com/content/25/1/121>

Non-psychoactive cannabis to be unveiled at Annual National Clinical Conference on Cannabis Therapeutics (news - 2010)  
<http://www.news-medical.net/news/20100409/Non-psychoactive-cannabis-to-be-unveiled-at-Annual-National-Clinical-Conference-on-Cannabis-Therapeutics.aspx>

Prescription Marijuana Without "Intoxicating" Effect in Research Stage (news - 2010)  
<http://www.nbclosangeles.com/news/health/Scientists-Aim-to-Make-Marijuana-Perscription-Drug-108736999.html>

Key ingredient staves off marijuana memory loss (news - 2010)

[http://www.nature.com/news/2010/101001/full/news.2010.508.html?s=news\\_rss](http://www.nature.com/news/2010/101001/full/news.2010.508.html?s=news_rss)

Science: Cannabidiol enhances the anti-cancer effects of THC on human brain cancer cells (news – 2010)

[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=313#3](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=313#3)

Pot Compound Mitigates Diabetic Cardiomyopathy (news - 2010)

[http://www.norml.org/index.cfm?Group\\_ID=8424](http://www.norml.org/index.cfm?Group_ID=8424)

Cannabinoids inhibit and may prevent neuropathic pain in diabetes. (news - 2010)

<http://medigardens.blogspot.com/2010/04/march-2010-cannabinoids-inhibit-and-may.html>

Lab Notes: Pot Has Benefits for Diabetic Hearts (news - 2010)

<http://www.medpagetoday.com/LabNotes/LabNotes/23853>

Cannabidiol (CBD) as an Anti-Arrhythmic – the Role of the CB1 Receptors (news – 2010)

<http://cannabisclinicians.org/2011/cannabidiol-cbd-as-an-anti-arrhythmic-the-role-of-the-cb1-receptors/>

Old Hippy's Definitive Guide To CBD (news – 2010)

<http://beyondchronic.com/2010/12/old-hippie-definitive-guide-cbd-medical-marijuana/>

The potential for clinical use of cannabinoids in treatment of cardiovascular diseases.

(full – 2011) <http://onlinelibrary.wiley.com/doi/10.1111/j.1755-5922.2010.00233.x/pdf>

Cannabidiol reduces lipopolysaccharide-induced vascular changes and inflammation in the mouse brain: an intravital microscopy study (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3034694/?tool=pmcentrez>

Pathways mediating the effects of cannabidiol on the reduction of breast cancer cell proliferation, invasion, and metastasis. (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3410650/>

Cannabidiol Reduces A $\beta$ -Induced Neuroinflammation and Promotes Hippocampal Neurogenesis through PPAR $\gamma$  Involvement (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3230631/?tool=pubmed>

Cannabidiol and other cannabinoids reduce microglial activation in vitro and in vivo: relevance to Alzheimers' disease (full – 2011)

<http://molpharm.aspetjournals.org/content/early/2011/02/24/mol.111.071290.long>

Evaluation of the Cyclooxygenase Inhibiting Effects of Six Major Cannabinoids Isolated from Cannabis sativa (full – 2011)

[https://www.jstage.jst.go.jp/article/bpb/34/5/34\\_5\\_774/pdf](https://www.jstage.jst.go.jp/article/bpb/34/5/34_5_774/pdf)

Cannabidiol, a major phytocannabinoid, as a potent atypical inhibitor for CYP2D6.

(full – 2011) <http://dmd.aspetjournals.org/content/39/11/2049.full.pdf+html>

Role of Myeloid-Derived Suppressor Cells in Amelioration of Experimental Autoimmune Hepatitis Following Activation of TRPV1 Receptors by Cannabidiol (full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3069975/?tool=pmcentrez>

Cannabidiol protects against hepatic ischemia/reperfusion injury by attenuating inflammatory signaling and response, oxidative/nitrative stress, and cell death. (full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3081988/pdf/nihms278422.pdf>

Cannabidiol causes activated hepatic stellate cell death through a mechanism of endoplasmic reticulum stress-induced apoptosis. (full – 2011) <http://www.nature.com/cddis/journal/v2/n6/pdf/cddis201152a.pdf>

Brief Report: Cannabidiol Prevents the Development of Cold and Mechanical Allodynia in Paclitaxel-Treated Female C57Bl6 Mice. (full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3249239/>

Cannabidiol Reduces Intestinal Inflammation through the Control of Neuroimmune Axis (full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3232190/?tool=pubmed>

Prospects for cannabinoid therapies in basal ganglia disorders. (full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165947/>

Influence of agroclimatic conditions on content of main cannabinoids in industrial hemp (*Cannabis sativa* L.) (full– 2011) <http://www.doiserbia.nb.rs/img/doi/0534-0012/2011/0534-00121103449S.pdf>

Modulation of Auditory and Visual Processing by Delta-9-Tetrahydrocannabinol and Cannabidiol: an fMRI Study. (full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3096803/>

Cannabidiol induces programmed cell death in breast cancer cells by coordinating the crosstalk between apoptosis and autophagy. (full – 2011) <http://mct.aacrjournals.org/content/10/7/1161.long>

Heterogeneity in the composition of marijuana seized in California. (full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3118261/pdf/nihms-271313.pdf>

Differential transcriptional profiles mediated by exposure to the cannabinoids cannabidiol and  $\Delta(9)$ -tetrahydrocannabinol in BV-2 microglial cells (full – 2011) <http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2011.01461.x/pdf>

Non-psychoactive cannabinoids modulate the descending pathway of antinociception in anaesthetized rats through several mechanisms of action (full– 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3041249/>

Plasma cannabinoid pharmacokinetics following controlled oral delta9-tetrahydrocannabinol and oromucosal cannabis extract administration. (full– 2011) <http://www.clinchem.org/content/57/1/66.long>

The endocannabinoid system in the regulation of emotions throughout lifespan: a discussion on therapeutic perspectives. (full – 2011)

<http://jop.sagepub.com/content/26/1/150.full.pdf+html>

Endocannabinoid system and psychiatry: in search of a neurobiological basis for detrimental and potential therapeutic effects. (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3186912/pdf/fnbeh-05-00063.pdf>

Cannabidiol inhibits lung cancer cell invasion and metastasis via intercellular adhesion molecule-1. (full – 2011)

<http://www.fasebj.org/content/26/4/1535.long>

Phytocannabinoids for use in the treatment of cancer - Patent GB2478595 (A) — 2011-09-14 (full – 2011)

[http://worldwide.espacenet.com/publicationDetails/biblio?CC=GB&NR=2478595A&KC=A&FT=D&ND=&date=20110914&DB=&locale=en\\_EP](http://worldwide.espacenet.com/publicationDetails/biblio?CC=GB&NR=2478595A&KC=A&FT=D&ND=&date=20110914&DB=&locale=en_EP)

US Patent Application 20110257256 - CANNABINOIDS FOR USE IN TREATING OR PREVENTING COGNITIVE IMPAIRMENT AND DEMENTIA (full - 2011)

<http://www.patentstorm.us/applications/20110257256/fulltext.html>

Identification of cytochrome P450 enzymes responsible for metabolism of cannabidiol by human liver microsomes. (abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21704641/abstract/Identification\\_of\\_cytochrome\\_P450\\_enzymes\\_responsible\\_for\\_metabolism\\_of\\_cannabidiol\\_by\\_human\\_liver\\_microsomes](http://www.unboundmedicine.com/medline/ebm/record/21704641/abstract/Identification_of_cytochrome_P450_enzymes_responsible_for_metabolism_of_cannabidiol_by_human_liver_microsomes)

Safety and Side Effects of Cannabidiol, a Cannabis sativa Constituent. (abst - 2011)

[http://www.unboundmedicine.com/medline/ebm/record/22129319/abstract/Safety\\_and\\_Side\\_Effects\\_of\\_Cannabidiol\\_a\\_Cannabis\\_sativa\\_Constituent](http://www.unboundmedicine.com/medline/ebm/record/22129319/abstract/Safety_and_Side_Effects_of_Cannabidiol_a_Cannabis_sativa_Constituent)

Cannabidiol as an anti-arrhythmic, the role of the CB1 receptors. (abst – 2011)

<http://heart.bmj.com/content/97/24/e8.9.abstract>

The Non-Psychoactive Plant Cannabinoid, Cannabidiol Affects Cholesterol Metabolism-Related Genes in Microglial Cells. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21533611>

Cannabidiol decreases body weight gain in rats: Involvement of CB2 receptors.

(abst - 2011)

<http://marijuana.researchtoday.net/archive/8/1/3517.htm>

Cannabidiol improves brain and liver function in a fulminant hepatic failure-induced model of hepatic encephalopathy in mice. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21182490>

Effects of intracisternal administration of cannabidiol on the cardiovascular and behavioral responses to acute restraint stress. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21771609>

CANNABIDIOL INHIBITS PATHOGENIC T-CELLS, DECREASES SPINAL MICROGLIAL ACTIVATION AND AMELIORATES MULTIPLE SCLEROSIS-LIKE DISEASE IN C57BL/6 MICE. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21449980>

Anti-Aversive Effects of Cannabidiol on Innate Fear-Induced Behaviors Evoked by an Ethological Model of Panic Attacks Based on a Prey vs the Wild Snake Epicrates cenchria crassus Confrontation Paradigm. (abst - 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21918503>

Interaction between non-psychotropic cannabinoids in marijuana: effect of cannabigerol (CBG) on the anti-nausea or anti-emetic effects of cannabidiol (CBD) in rats and shrews. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21243485>

Cannabidiol, a Non-Psychotropic Component of Cannabis, Attenuates Vomiting and Nausea-like Behaviour via Indirect Agonism of 5-HT(1A) Somatodendritic: Autoreceptors in the Dorsal Raphe Nucleus. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21827451>

A novel CB receptor GPR55 and its ligands are involved in regulation of gut movement in rodents. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21726355>

Cannabidiol inhibits the hyperphagia induced by cannabinoid-1 or serotonin-1A receptor agonists. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21238476>

Cannabidiol potentiates  $\Delta(9)$ -tetrahydrocannabinol (THC) behavioural effects and alters THC pharmacokinetics during acute and chronic treatment in adolescent rats.

(abst - 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21667074>

Inhibitory Effect of Standardized Cannabis sativa Extract and Its Ingredient Cannabidiol on Rat and Human Bladder Contractility. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21310467>

Cannabidiol reduces the anxiety induced by simulated public speaking in treatment-naïve social phobia patients. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21307846>

Effects on sleep and dopamine levels of microdialysis perfusion of cannabidiol into the lateral hypothalamus of rats. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21262236>

Effect of cannabidiol on sleep disruption induced by the repeated combination tests consisting of open field and elevated plus-maze in rats. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21867717>

Cannabidiol, a Non-Psychotropic Component of Cannabis, Attenuates Vomiting and Nausea-like Behaviour via Indirect Agonism of 5-HT(1A) Somatodendritic: Autoreceptors in the Dorsal Raphe Nucleus. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21827451>

The effects of cannabidiolic acid and cannabidiol on contractility of the gastrointestinal tract of *Suncus murinus*. (abst – 2011)  
[http://www.unboundmedicine.com/medline/ebm/record/21975813/abstract/The\\_effects\\_of\\_cannabidiolic\\_acid\\_and\\_cannabidiol\\_on\\_contractility\\_of\\_the\\_gastrointestinal\\_tract\\_of\\_Suncus\\_murinus](http://www.unboundmedicine.com/medline/ebm/record/21975813/abstract/The_effects_of_cannabidiolic_acid_and_cannabidiol_on_contractility_of_the_gastrointestinal_tract_of_Suncus_murinus)

Cannabidiol Dampens Streptozotocin-Induced Retinal Inflammation by Targeting of Microglial Activation (abst - 2011)  
<http://abstracts.iovs.org/cgi/content/abstract/52/6/1002?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcetype=HWCIT>

Plasma and brain pharmacokinetic profile of cannabidiol (CBD), cannabidivarin (CBDV),  $\Delta(9)$ -tetrahydrocannabivarin (THCV) and cannabigerol (CBG) in rats and mice following oral and intraperitoneal administration and CBD action on obsessive-compulsive behaviour. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21796370>

Cannabis with high cannabidiol content is associated with fewer psychotic experiences. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21592732>

A novel CB receptor GPR55 and its ligands are involved in regulation of gut movement in rodents. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21726355>

Sub-chronic impact of cannabinoids in street cannabis on cognition, psychotic-like symptoms and psychological well-being. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21798112>

Neural basis of anxiolytic effects of cannabidiol (CBD) in generalized social anxiety disorder: a preliminary report. (abst – 2011)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=315](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=315)

Cannabidiol protects against hepatic ischemia/reperfusion injury by attenuating oxidative stress, inflammatory response, and cell death (abst – 2011)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/25/1\\_MeetingAbstracts/639.12?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&sortspec=date&resourcetype=HWCIT](http://www.fasebj.org/cgi/content/meeting_abstract/25/1_MeetingAbstracts/639.12?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&sortspec=date&resourcetype=HWCIT)

Therapeutic potential of cannabidiol against ischemia/reperfusion liver injury in rats. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21930120>

Cannabidiol as an emergent therapeutic strategy for lessening the impact of inflammation on oxidative stress. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21238581>

Cannabidiol reduces brain damage and improves functional recovery after acute hypoxia-ischemia in newborn pigs. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21654550>

Cannabidiol-treated Rats Exhibited Higher Motor Score After Cryogenic Spinal Cord Injury. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21915768>



THC and CBD oromucosal spray (Sativex®) in the management of spasticity associated with multiple sclerosis. (abst - 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21456949/abstract/THC\\_and\\_CBD\\_oromucosal\\_spray\\_Sativex%C2%AE\\_in\\_the\\_management\\_of\\_spasticity\\_associated\\_with\\_multiple\\_sclerosis](http://www.unboundmedicine.com/medline/ebm/record/21456949/abstract/THC_and_CBD_oromucosal_spray_Sativex%C2%AE_in_the_management_of_spasticity_associated_with_multiple_sclerosis)

Memory-rescuing effects of cannabidiol in an animal model of cognitive impairment relevant to neurodegenerative disorders. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21870037>

The interplay of cannabinoid and NMDA glutamate receptor systems in humans: preliminary evidence of interactive effects of cannabidiol and ketamine in healthy human subjects. (abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21062637/abstract/The\\_interplay\\_of\\_cannabinoid\\_and\\_NMDA\\_glutamate\\_receptor\\_systems\\_in\\_humans:\\_preliminary\\_evidence\\_of\\_interactive\\_effects\\_of\\_cannabidiol\\_and\\_ketamine\\_in\\_healthy\\_human\\_subjects](http://www.unboundmedicine.com/medline/ebm/record/21062637/abstract/The_interplay_of_cannabinoid_and_NMDA_glutamate_receptor_systems_in_humans:_preliminary_evidence_of_interactive_effects_of_cannabidiol_and_ketamine_in_healthy_human_subjects)

Induction of apoptosis by cannabinoids in prostate and colon cancer cells is phosphatase dependent. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/22110202>

Cannabidiol induced a contrasting pro-apoptotic effect between freshly isolated and precultured human monocytes. (abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/20471992/abstract/Cannabidiol\\_induced\\_a\\_contrasting\\_pro\\_apoptotic\\_effect\\_between\\_freshly\\_isolated\\_and\\_precultured\\_human\\_monocytes](http://www.unboundmedicine.com/medline/ebm/record/20471992/abstract/Cannabidiol_induced_a_contrasting_pro_apoptotic_effect_between_freshly_isolated_and_precultured_human_monocytes)

A synthetic cannabinoid, CP55940, inhibits lipopolysaccharide-induced cytokine mRNA expression in a cannabinoid receptor-independent mechanism in rat cerebellar granule cells. (abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21492165/abstract/A\\_synthetic\\_cannabinoid\\_CP55940\\_inhibits\\_lipopolysaccharide\\_induced\\_cytokine\\_mRNA\\_expression\\_in\\_a\\_cannabinoid\\_receptor\\_independent\\_mechanism\\_in\\_rat\\_cerebellar\\_granule\\_cells](http://www.unboundmedicine.com/medline/ebm/record/21492165/abstract/A_synthetic_cannabinoid_CP55940_inhibits_lipopolysaccharide_induced_cytokine_mRNA_expression_in_a_cannabinoid_receptor_independent_mechanism_in_rat_cerebellar_granule_cells)

Cannabis could help treat epilepsy #1 (news – 2011)

<http://www.newkerala.com/news/world/fullnews-186693.html>

Cannabis could be used to treat epilepsy #2 (news – 2011)

<http://www.telegraph.co.uk/science/science-news/8440303/Cannabis-could-be-used-to-treat-epilepsy.html>

Marijuana Extract Might Help Prevent Chemotherapy-Related Nerve Pain (news – 2011)

<http://www.newswise.com/articles/marijuana-extract-might-help-prevent-chemotherapy-related-nerve-pain>

Marijuana component could ease pain from chemotherapy drugs (news – 2011)

<http://medicalxpress.com/news/2011-10-marijuana-component-ease-pain-chemotherapy.html>

Another Study Confirms Anti-Cancer Effects of THC and CBD (news – 2011)

<http://www.examiner.com/medical-marijuana-in-philadelphia/another-study-confirms-anti-cancer-effects-of-thc-and-cbd-1>

Cannabinoid 'Completely' Prevents Chemotherapy-Induced Neuropathy, Study Says (news – 2011) [http://www.norml.org/index.cfm?Group\\_ID=8710](http://www.norml.org/index.cfm?Group_ID=8710)

Cannabidiol May Fight Alzheimer's Disease (news - 2011)  
[http://www.examiner.com/medical-marijuana-in-philadelphia/cannabidiol-may-fight-alzheimer-s-disease?fb\\_comment=31078356](http://www.examiner.com/medical-marijuana-in-philadelphia/cannabidiol-may-fight-alzheimer-s-disease?fb_comment=31078356)

Marijuana Compound Induces Cell Death In Hard-To-Treat Brain Cancer (news – 2011) [http://www.norml.org/index.cfm?Group\\_ID=8459](http://www.norml.org/index.cfm?Group_ID=8459)

Marijuana component may ease pain from chemo therapy drugs (news – 2011)  
<http://www.jpost.com/Health/Article.aspx?id=241299>

Pot Compound Exerts Anticonvulsant Effects In Animal Models Of Epilepsy (news - 2011) [http://www.norml.org/index.cfm?Group\\_ID=8458](http://www.norml.org/index.cfm?Group_ID=8458)

CBD: Marijuana Compound Has No High, But Relieves Pain (news – 2011)  
[http://www.tokeofthetown.com/2011/10/cbd\\_marijuana\\_compound\\_has\\_no\\_high\\_but\\_relieves\\_pa.php](http://www.tokeofthetown.com/2011/10/cbd_marijuana_compound_has_no_high_but_relieves_pa.php)

New research provides hope for those with epilepsy (news - 2011)  
<http://medicalxpress.com/news/2011-04-epilepsy.html>

Cannabis Compound Induces Death Of Cells Associated With Liver Fibrosis (news – 2011) [http://www.norml.org/index.cfm?Group\\_ID=8615](http://www.norml.org/index.cfm?Group_ID=8615)

CBD Tops The Chart (news - 2011)  
<http://morganlesko.com/cbd/2011/12/23/cbd-tops-the-chart/>

Cannabidiol may help prevent paclitaxel-induced peripheral neuropathy (news – 2011)  
<http://www.news-medical.net/news/20110926/Cannabidiol-may-help-prevent-paclitaxel-induced-peripheral-neuropathy.aspx>

Cannabidiol, a Cannabis sativa constituent, as an anxiolytic drug. (full – 2012)  
[http://www.scielo.br/scielo.php?script=sci\\_arttext&pid=S1516-44462012000500008&lng=en&nrm=iso&tlng=en](http://www.scielo.br/scielo.php?script=sci_arttext&pid=S1516-44462012000500008&lng=en&nrm=iso&tlng=en)

Topical and Systemic Cannabidiol Improves Trinitrobenzene Sulfonic Acid Colitis in Mice. (full - 2012) <http://content.karger.com/produktedb/produkte.asp?DOI=000336871&typ=pdf>

Towards the use of non-psychoactive cannabinoids for prostate cancer. (full – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2012.02121.x/pdf>

Cannabidiol protects oligodendrocyte progenitor cells from inflammation-induced apoptosis by attenuating endoplasmic reticulum stress. (full – 2012)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3388241/>

Medical use of cannabis. Cannabidiol: A new light for schizophrenia? (full - 2012)  
<http://onlinelibrary.wiley.com/doi/10.1002/dta.1425/full>

Cannabidiol inhibits growth and induces programmed cell death in kaposi sarcoma-associated herpesvirus-infected endothelium. (full – 2012)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3527984/>

Endocannabinoids in nervous system health and disease: the big picture in a nutshell

(full – 2012) <http://rstb.royalsocietypublishing.org/content/367/1607/3193.full>

Cannabidiol enhances anandamide signaling and alleviates psychotic symptoms of schizophrenia. (full – 2012)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3316151/?tool=pubmed>

The Therapeutic Potential of Cannabis and Cannabinoids (full – 2012)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3442177/>

Pharmacological interventions in the treatment of the acute effects of cannabis: a systematic review of literature (full – 2012)

<http://www.harmreductionjournal.com/content/9/1/7>

GW Pharma Investment Summary (shows GW42004 is CBD) (report - 2012)

[https://docs.google.com/viewer?a=v&q=cache%3AFaPqL-KYKUQJ%3Awww.gwpharm.com%2Fuploads%2Fgwpharma290312update.pdf+&hl=en&gl=uk&pid=bl&srcid=ADGEESjz6IaINgQZ30IRSDA1hR\\_oT0Ee2y9cv7Lja4mG0T53YknfusaXFUs\\_IWaOOBaROUjdkIgPxnt0GHmvW04DdDuIht7fwVf5ia-BIj3lM3YNBbXhQxa1lg-XJW\\_1AnHLnvTXMXem&sig=AHIEtbTKgja5QaLtUOv4IHtkp8ajDt5G0A](https://docs.google.com/viewer?a=v&q=cache%3AFaPqL-KYKUQJ%3Awww.gwpharm.com%2Fuploads%2Fgwpharma290312update.pdf+&hl=en&gl=uk&pid=bl&srcid=ADGEESjz6IaINgQZ30IRSDA1hR_oT0Ee2y9cv7Lja4mG0T53YknfusaXFUs_IWaOOBaROUjdkIgPxnt0GHmvW04DdDuIht7fwVf5ia-BIj3lM3YNBbXhQxa1lg-XJW_1AnHLnvTXMXem&sig=AHIEtbTKgja5QaLtUOv4IHtkp8ajDt5G0A)

Islet protection and amelioration of diabetes type 2 in Psammomys obesus by treatment with cannabidiol (link to PDF - 2012)

<http://www.scirp.org/searchResult/Index.aspx?searchCode=Islet+protection+and+amelioration+of+diabetes+type+2+in+Psammomys+obesus+by+treatment+with+cannabidiol>

Cannabidiol inhibits THC-elicited paranoid symptoms and hippocampal-dependent memory impairment. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23042808>

Cannabis derivatives therapy for a seronegative stiff-person syndrome: a case report.

(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22726074>

Id-1 is a Key Transcriptional Regulator of Glioblastoma Aggressiveness and a Novel Therapeutic Target. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23243024>

Multiple mechanisms involved in the large-spectrum therapeutic potential of cannabidiol in psychiatric disorders. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23108553>

Chemopreventive effect of the non-psychotropic phytocannabinoid cannabidiol on experimental colon cancer. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22231745>

Cannabidiol, a non-psychotropic plant-derived cannabinoid, decreases inflammation in a murine model of acute lung injury: Role for the adenosine A<sub>2A</sub> receptor.

(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22265864>

Heat Exposure of Cannabis sativa Extracts Affects the Pharmacokinetic and Metabolic Profile in Healthy Male Subjects. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22411724>

The therapeutic potential of the endocannabinoid system for Alzheimer's disease.

(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22448595>

On Disruption of Fear Memory by Reconsolidation Blockade: Evidence from

Cannabidiol Treatment. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22549120>

Cannabinol and cannabidiol exert opposing effects on rat feeding patterns.

(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22543671>

Cannabidiol for neurodegenerative disorders: important new clinical applications for this phytocannabinoid? (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22625422>

Cannabidiol inhibits angiogenesis by multiple mechanisms.

(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22624859>

Cannabinoids suppress inflammatory and neuropathic pain by targeting  $\alpha 3$  glycine receptors. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22585736>

Poly- $\epsilon$ -caprolactone microspheres as a drug delivery system for cannabinoid administration: Development, characterization and in vitro evaluation of their antitumoral efficacy. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22580111>

Effects of cannabinoids  $\Delta(9)$ -tetrahydrocannabinol,  $\Delta(9)$ -tetrahydrocannabinolic acid and cannabidiol in MPP(+) affected murine mesencephalic cultures. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22571976>

Antipsychotic Profile of Cannabidiol and Rimonabant in an Animal Model of Emotional Context Processing in Schizophrenia. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22716146>

Cannabidiol enhances anandamide signaling and alleviates psychotic symptoms of

schizophrenia. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22832859?dopt=Abstract>

Cannabidiol-induced apoptosis in murine microglial cells through lipid raft

(abst – 2012) <http://onlinelibrary.wiley.com/doi/10.1002/glia.22345/abstract>

A critical review of the antipsychotic effects of Cannabidiol: 30 years of a translational investigation. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22716160>

Acute effects of a single, oral dose of d9-tetrahydrocannabinol (THC) and cannabidiol (CBD) administration in healthy volunteers. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22716148>

Cannabidiol exerts anti-convulsant effects in animal models of temporal lobe and partial seizures. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22520455>

The potential use of cannabidiol in the therapy of metabolic syndrome (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22430005>

Cannabinoid-like anti-inflammatory compounds from flax fiber. (abst – 2012) <http://link.springer.com/article/10.2478%2Fs11658-012-0023-6>

Cannabidiol in Inflammatory Bowel Diseases: A Brief Overview. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22815234>

Cannabidiol treatment ameliorates ischemia/reperfusion renal injury in rats. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22877651>

Cannabidiol inhibits the reward-facilitating effect of morphine: involvement of 5-HT<sub>1A</sub> receptors in the dorsal raphe nucleus. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22862835>

Phytocannabinoids as novel therapeutic agents in CNS disorders (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/21924288>

Cannabidiol blocks long-lasting behavioral consequences of predator threat stress: Possible involvement of 5HT<sub>1A</sub> receptors. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22979992>

Involvement of serotonin-mediated neurotransmission in the dorsal periaqueductal gray matter on cannabidiol chronic effects in panic-like responses in rats. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23007604>

Cannabidiol exhibits anxiolytic but not antipsychotic property evaluated in the social interaction test. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23127569>

Endocannabinoid system and mood disorders: Priming a target for new therapies. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23261685>

Analysis of cannabinoids in laser-microdissected trichomes of medicinal Cannabis sativa using LCMS and cryogenic NMR. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23280038>

A double-blind, randomized, placebo-controlled, parallel-group study of THC/CBD oromucosal spray in combination with the existing treatment regimen, in the relief of central neuropathic pain in patients with multiple sclerosis. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23180178>

What place for cannabis extract in MS? (abst – 2012) <http://dtb.bmj.com/content/50/12/141.abstract>

Cannabidiol (CBD) enhances lipopolysaccharide (LPS)-induced pulmonary inflammation in C57BL/6 mice. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23173851>

Cannabidiol for the treatment of cannabis withdrawal syndrome: a case report (abst – 2012) <http://onlinelibrary.wiley.com/doi/10.1111/jcpt.12018/abstract>

Would some cannabinoids ameliorate symptoms of autism? (abst - 2012) <http://www.thctotalhealthcare.com/would-some-cannabinoids-ameliorate-symptoms-of-autism/>

Cannabidiol and clozapine reverse MK-801-induced deficits in social interaction and hyperactivity in Sprague-Dawley rats. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22495620>

MicroRNAs and their role in the generation of myeloid derived suppressor cells (MDSC) by cannabidiol in vivo (abst – 2012) [http://www.jimmunol.org/cgi/content/meeting\\_abstract/188/1\\_MeetingAbstracts/48.16?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf](http://www.jimmunol.org/cgi/content/meeting_abstract/188/1_MeetingAbstracts/48.16?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf)

Cannabidiol reduces host immune response and prevents cognitive impairments in Wistar rats submitted to pneumococcal meningitis (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23085269>

Triggering of the TRPV2 channel by cannabidiol sensitizes glioblastoma cells to cytotoxic chemotherapeutic agents. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23079154>

Study on Non-Psychotropic Cannabinoid Proves to be Safe in Humans (news – 2012) <http://www.opposingviews.com/i/society/drug-law/study-non-psychotropic-cannabinoid-proven-be-safe-humans>

Marijuana Compound May Beat Antipsychotics at Treating Schizophrenia (news – 2012) <http://psychcentral.com/news/2012/06/07/marijuana-compound-may-beat-antipsychotics-at-treating-schizophrenia/39803.html>

Getting the Flax Straight about Cannabidiol (news – 2012) <http://www.examiner.com/article/getting-the-flax-straight-about-cannabidiol>

Medical Marijuana: A "Cure" for Autism? (news – 2012) <http://bigbudsmag.com/lifestyle/medicine/article/medical-marijuana-cure-autism-january-2012>

How marijuana could help cure obesity-related diseases (news – 2012) <http://news.yahoo.com/marijuana-could-help-cure-obesity-related-diseases-175900182.html>

Cannabis can help treat obesity (news – 2012) <http://in.news.yahoo.com/cannabis-help-treat-obesity-121931025.html>

Study: Cannabis Use Associated With Decreased Prevalence Of Diabetes  
(news – 2012)

<http://norml.org/news/2012/12/20/study-cannabis-use-associated-with-decreased-prevalence-of-diabetes>

Researchers study neuroprotective properties in cannabis (news - 2012)

<http://www.foxnews.com/health/2012/03/20/researchers-study-neuroprotective-properties-in-cannabis/>

How Medical Marijuana Is Giving a Six-Year-Old Boy New Life (news – 2012)

<http://thinkprogress.org/justice/2012/09/18/854811/how-medical-marijuana-is-giving-a-six-year-old-boy-new-life/?mobile=nc>

Marijuana compound could stop aggressive cancer metastasis (news - 2012)

<http://in.news.yahoo.com/marijuana-compound-could-stop-aggressive-cancer-metastasis-064950912.html>

Marijuana And Cancer: Scientists Find Cannabis Compound Stops Metastasis In Aggressive Cancers (news – 2012)

[http://www.huffingtonpost.com/2012/09/19/marijuana-and-cancer\\_n\\_1898208.html](http://www.huffingtonpost.com/2012/09/19/marijuana-and-cancer_n_1898208.html)

Can marijuana stop cancer? (news – 2012)

<http://www.examiner.com/article/can-marijuana-stop-cancer>

Cannabis For Infant's Brain Tumor, Doctor Calls Child "A Miracle Baby" (news – 2012)

[http://www.huffingtonpost.com/2012/12/01/cannabis-for-infants-brain\\_tumor\\_n\\_2224898.html](http://www.huffingtonpost.com/2012/12/01/cannabis-for-infants-brain_tumor_n_2224898.html)

Buy It Now, It's Legal – Medical Marijuana Cannabidiol (CBD from Industrial Hemp)

(news - 2012) <http://beforeitsnews.com/health/2012/10/buy-it-now-its-legal-medical-marijuana-cannabidiol-cbd-from-industrial-hemp-2453866.html>

Israel pushing ahead in medical marijuana industry (news – 2012)

[http://news.yahoo.com/israel-pushing-ahead-medical-marijuana-industry-180817891.html;\\_ylt=A2KJjz3o5RQ4BcAYprQtDMD](http://news.yahoo.com/israel-pushing-ahead-medical-marijuana-industry-180817891.html;_ylt=A2KJjz3o5RQ4BcAYprQtDMD)

Marijuana Compound Treats Schizophrenia with Few Side Effects: Clinical Trial

(news – 2012) <http://www.mhhub.com/archives/16603>

5 Marijuana Compounds That Could Help Combat Cancer, Alzheimers, Parkinsons (If Only They Were Legal) (news – 2012)

<http://www.alternet.org/drugs/5-marijuana-compounds-could-help-combat-cancer-alzheimers-parkinsons-if-only-they-were-legal>

Encouraging anti-diabetic results for new cannabinoid drug (news – 2012)

<http://www.diabetes.co.uk/news/2012/Dec/encouraging-anti-diabetic-results-for-new-cannabinoid-drug-99996010.html>

Study: Marijuana Could Stop Growth of Colon Cancer Cells (news – 2012)

<http://www.opposingviews.com/i/society/drug-law/latest-science-non-psychotropic-cannabinoid-inhibits-colon-cancer-cell>

Is Marijuana the Cancer Cure We've Waited For? (news – 2012)

<http://www.empowher.com/cancer/content/marijuana-cancer-cure-we-ve-waited>

The Amazing Health Benefits of Juicing Raw Cannabis Leaves (news – 2012)  
<http://www.wakingtimes.com/2012/05/09/the-amazing-health-benefits-of-juicing-raw-cannabis-leaves/>

Weaker Hemp Derivatives Can't Compare to Full-Spectrum Marijuana Pills  
(news/ad- 2012) <http://www.prweb.com/releases/marijuanapills/cannabispill/prweb10099535.htm>

Simple Method: Isolating & Extracting INDIVIDUAL Cannabinoids... from  
BadKittySmiles (forum post – 2012)  
<http://forum.grasscity.com/incredible-edible-herb/1051569-simple-method-isolating-extracting-individual-cannabinoids-badkittysmiles.html>

Non-THC cannabinoids inhibit prostate carcinoma growth in vitro and in vivo: pro-  
apoptotic effects and underlying mechanisms. (full – 2013)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2012.02027.x/full>

Local delivery of cannabinoid-loaded microparticles inhibits tumor growth in a murine  
xenograft model of glioblastoma multiforme. (full – 2013)  
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0054795>

Direct modulation of the outer mitochondrial membrane channel, voltage-dependent  
anion channel 1 (VDAC1) by cannabidiol: a novel mechanism for cannabinoid-induced  
cell death. (full – 2013) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3877544/>

Cannabinoid- and lysophosphatidylinositol-sensitive receptor GPR55 boosts  
neurotransmitter release at central synapses. (full – 2013)  
<http://www.pnas.org/content/early/2013/03/06/1211204110.full.pdf+html>

Magnitude of stimulation dictates the cannabinoid-mediated differential T cell response  
to HIVgp120 (full – 2013) <http://www.jleukbio.org/content/92/5/1093.full>

Modulating the endocannabinoid system in human health and disease: successes and  
failures (full – 2013) <http://onlinelibrary.wiley.com/doi/10.1111/febs.12260/pdf>

Cannabidiol as potential anticancer drug (full – 2013)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2125.2012.04298.x/pdf>

Natural Cannabinoids Improve Dopamine Neurotransmission and Tau and Amyloid  
Pathology in a Mouse Model of Tauopathy. (full – 2013)  
<http://iospress.metapress.com/content/4j61942x88175321/fulltext.html>

A Phase I, open-label, randomized, crossover study in three parallel groups to evaluate  
the effect of Rifampicin, Ketoconazole, and Omeprazole on the pharmacokinetics of  
THC/CBD oromucosal spray in healthy volunteers (full – 2013)  
<http://www.springerplus.com/content/2/1/236>

Is the cardiovascular system a therapeutic target for cannabidiol? (full – 2013)



<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2125.2012.04351.x/full>

Role of endogenous cannabinoid system in the gut. (full - 2013)

<http://www.actaps.com.cn/qikan/manage/wenzhang/2013-4-12.pdf>

Cannabidiol, a Non-Psychoactive Cannabinoid Compound, Inhibits Proliferation and Invasion in U87-MG and T98G Glioma Cells through a Multitarget Effect.

(full – 2013) <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0076918>

Is the cardiovascular system a therapeutic target for cannabidiol? (full – 2013)

<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2125.2012.04351.x/full>

Acute and chronic administration of cannabidiol increases mitochondrial complex and creatine kinase activity in the rat brain. (full – 2013)

[http://www.scielo.br/scielo.php?script=sci\\_arttext&pid=S1516-44462013000400380&lng=en&nrm=iso&tlng=en](http://www.scielo.br/scielo.php?script=sci_arttext&pid=S1516-44462013000400380&lng=en&nrm=iso&tlng=en)

Transdermal delivery of cannabidiol Patent 8435556 (full – 2013)

<http://www.patentstorm.us/patents/8435556/fulltext.html>

US Patent Application 20130245110 - USE FOR CANNABINOIDS (CBD/ THCV for cholesterol control) (full – 2013)

<http://www.patentstorm.us/applications/20130245110/fulltext.html>

Understanding the Molecular Aspects of Tetrahydrocannabinol and Cannabidiol as Antioxidants (link to PDF - 2013)

<http://www.mdpi.com/1420-3049/18/10/12663>

Industrial hemp decreases intestinal motility stronger than indian hemp in mice.

(link to PDF – 2013) <http://www.europeanreview.org/article/3266>

Report of a parent survey of cannabidiol-enriched cannabis use in pediatric treatment-resistant epilepsy (abst – 2013)

<http://www.sciencedirect.com/science/article/pii/S1525505013004629>

Cannabidiol enhances consolidation of explicit fear extinction in humans.

(abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23307069>

The anxiolytic effect of cannabidiol on chronically stressed mice depends on hippocampal neurogenesis: involvement of the endocannabinoid system.

(abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23298518>

Effects of acute systemic administration of cannabidiol on sleep-wake cycle in rats.

(abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23343597>

COX-2 and PPAR- $\gamma$  Confer Cannabidiol-Induced Apoptosis of Human Lung Cancer Cells. (abst – 2013)

<http://www.ncbi.nlm.nih.gov/pubmed/23220503>

Endocannabinoid system modulator use in everyday clinical practice in the UK and Spain. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23369054>

A new multiple sclerosis spasticity treatment option: effect in everyday clinical practice and cost-effectiveness in Germany. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23369055>

The effects of cannabidiol on the antigen-induced contraction of airways smooth muscle in the guinea-pig. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23428645>

Impact of enzymatic and alkaline hydrolysis on CBD concentration in urine. (abst – 2013) <http://link.springer.com/article/10.1007%2Fs00216-013-6837-x>

Cannabidiol attenuates deficits of visuo-spatial associative memory induced by  $\Delta 9$  tetrahydrocannabinol. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23550724>

Mechanisms Of Cannabidiol Neuroprotection In Hypoxic-Ischemic Newborn Pigs: Role Of 5HT1A And CB2 Receptors. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23587650>

The role of potassium BK channels in anticonvulsant effect of cannabidiol in pentylenetetrazole and maximal electroshock models of seizure in mice. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23644464>

Infusion of cannabidiol into infralimbic cortex facilitates fear extinction via CB1 receptors. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23643693>

Cannabidiol reduces cigarette consumption in tobacco smokers: Preliminary findings. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23685330>

Cannabidiol attenuates the long lasting cognitive deficits and anxiogenic-like behaviors promoted by murine cerebral malaria (abst – 2013)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/27/1\\_MeetingAbstracts/1097.9?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad](http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1097.9?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad)

Interrogating Therapeutic Manipulation of the Endocannabinoid System in Human Colon (abst – 2013)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/26/1\\_MeetingAbstracts/1123.1?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad](http://www.fasebj.org/cgi/content/meeting_abstract/26/1_MeetingAbstracts/1123.1?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad)

Cardioprotective effect of cannabidiol in rats exposed to doxorubicin toxicity. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23721741>

Cannabidiol attenuates catalepsy induced by distinct pharmacological mechanisms via 5-HT1A receptors activation in mice. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23791616>

CHANGES ON METABOLIC PARAMETERS INDUCED BY ACUTE CANNABINOID ADMINISTRATION (CBD, THC) IN A RAT EXPERIMENTAL MODEL OF NUTRITIONAL VITAMIN A DEFICIENCY. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23848113>

Epigenetic Control of Skin Differentiation Genes by Phytocannabinoids (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23869687>

Cannabinoids Decrease the Th17 Inflammatory Autoimmune Phenotype. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23892791>

Motor effects of the non-psychotropic phytocannabinoid cannabidiol that are mediated by 5-HT<sub>1A</sub> receptors. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23924692>

Neuroprotection and reduction of glial reaction by cannabidiol treatment after sciatic nerve transection in neonatal rats. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23981015>

Therapeutic potential of cannabinoid medicines. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24006213>

Cannabinoid Effects on  $\beta$  Amyloid Fibril and Aggregate Formation, Neuronal and Microglial-Activated Neurotoxicity In Vitro (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24030360>

Protective effect of cannabidiol against cadmium hepatotoxicity in rats. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23993482>

Clinical experiences with cannabinoids in spasticity management in multiple sclerosis. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24035293>

A review of the cultivation and processing of cannabis (*Cannabis sativa* L.) for production of prescription medicines in the UK. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24115748>

Enhancing the Activity of Cannabidiol and Other Cannabinoids In Vitro Through Modifications to Drug Combinations and Treatment Schedules. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24123005>

CANNABINOIDS ALTER ENDOTHELIAL FUNCTION IN THE ZUCKER RAT MODEL OF TYPE 2 DIABETES. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24120371>

Cannabidiol inhibits paclitaxel-induced neuropathic pain through 5-HT<sub>1A</sub> receptors without diminishing nervous system function or chemotherapy efficacy. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24117398>

Effects of cannabidiol on the function of  $\alpha$ 7-nicotinic acetylcholine receptors.

(abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24140434>

Exogenous cannabinoids as substrates, inhibitors, and inducers of human drug metabolizing enzymes: a systematic review. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24160757>

Nasal administration of drugs as a new non-invasive strategy for efficient treatment of multiple sclerosis. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23517929>

Cannabidiol in inflammatory bowel diseases: a brief overview. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/22815234>

Effects of acute systemic administration of cannabidiol on sleep-wake cycle in rats. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23343597>

Cannabidiol reverses the mCPP-induced increase in marble-burying behavior. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24118015>

Medicinal chemistry and pharmacology focused on cannabidiol, a major component of the fiber-type cannabis. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24088353>

Transdermal delivery of cannabidiol attenuates binge alcohol-induced neurodegeneration in a rodent model of an alcohol use disorder. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24012796>

The role of 5-HT1A receptors in the anti-aversive effects of cannabidiol on panic attack-like behaviors evoked in the presence of the wild snake *Epicrates cenchria crassus* (Reptilia, Boidae). (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23926240>

Cannabidiol Normalizes Capase 3, Synatophsin, and Mitochondrial Fission Protein DNM1L Expression Levels in Rats with Brain Iron Overload: Implications for Neuroprotection (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23893294>

Cannabidiol provides long-lasting protection against the deleterious effects of inflammation in a viral model of multiple sclerosis: a role for A2A receptors. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23851307>

The endocannabinoid system, cannabinoids, and pain (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24228165>

Interleukin 17A evoked mucosal damage is attenuated by cannabidiol and anandamide in a human colonic explant model. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24238999>

Cannabidiol Promotes Amyloid Precursor Protein Ubiquitination and Reduction of Beta Amyloid Expression in SHSY5YAPP+ Cells Through PPAR $\gamma$  Involvement. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24288245>

Increase of mesenchymal stem cell migration by Cannabidiol via activation of p42/44 MAPK. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24304686>

Advances in the management of multiple sclerosis spasticity: experiences from recent studies and everyday clinical practice. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24289844>

Effects of intra-prelimbic prefrontal cortex injection of cannabidiol on anxiety-like behavior: Involvement of 5HT1A receptors and previous stressful experience. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24321837>

Cannabidiol as a potential treatment for psychosis. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24309088>

The effects of cannabidiol and its synergism with bortezomib in multiple myeloma cell lines. A role for transient receptor potential vanilloid type-2 (abst – 2013)  
<http://onlinelibrary.wiley.com/doi/10.1002/ijc.28591/abstract>

A Multiple-Dose, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group QT/QTc Study to Evaluate the Electrophysiologic Effects of THC/CBD Spray (abst – 2013) <http://onlinelibrary.wiley.com/doi/10.1002/cpdd.36/abstract>

LCMS Spectral Evidence of the Occurrence of Cannabinoid in Cannabis sativa Cell Cultures (abst – 2013)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1352335>

Inhibition of colon carcinogenesis by a standardized Cannabis sativa extract with high content of cannabidiol. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24373545>

INTERVIEW : Martin Lee of Project CBD (interview – 2013)  
<http://www.ladybud.com/2013/11/12/interview-martin-lee-of-project-cbd/>

Marijuana Verses Leading Pharmaceuticals In The Treatment of Colon Cancer (news – 2013)  
<http://www.wakingtimes.com/2013/05/06/marijuana-verses-leading-pharmaceuticals-in-the-treatment-of-colon-cancer/>

High on Health: Cannabinoids in the Food Supply (news – 2013)  
<http://www.wakingtimes.com/2013/04/25/high-on-health-cbd-in-the-food-supply/>

Fighting Cancer: Another Study Reveals the Cannabis and Cancer Link (news – 2013)  
<http://www.wakingtimes.com/2012/10/05/fighting-cancer-another-study-reveals-the-cannabis-and-cancer-link/>

Parents of epileptic N.J. tot lament medical marijuana delays (news – 2013)  
[http://articles.philly.com/2013-06-24/news/40148313\\_1\\_marijuana-law-marijuana-card-dispensary](http://articles.philly.com/2013-06-24/news/40148313_1_marijuana-law-marijuana-card-dispensary)

Charlotte's Web Of Suffering: Six-Year-Old Colorado Girl With Dravet Syndrome Finds Relief From Marijuana High In CBD (news – 2013)

<http://www.marijuana.com/news/2013/06/charlottes-web-of-suffering-six-year-old-colorado-girl-with-dravet-syndrome-finds-relief-from-marijuana-high-in-cbd/>

Toronto family hopes for access to controversial treatment to cure baby's rare epilepsy (news – 2013)

<http://globalnews.ca/news/714104/toronto-family-hopes-for-access-to-controversial-treatment-to-cure-babys-rare-epilepsy/>

Cannabis may help reverse dementia: study (news – 2013)

<http://www.bordermail.com.au/story/1283217/cannabis-may-help-reverse-dementia-study/?cs=7>

Mother Investigated After Opting For Marijuana Over Chemotherapy (news – 2013)

<http://denver.cbslocal.com/2013/09/27/springs-mother-investigated-after-opting-for-marijuana-over-chemotherapy/>

Sending multiple sclerosis up in smoke (news – 2013)

[http://www.eurekalert.org/pub\\_releases/2013-10/afot-sms100713.php](http://www.eurekalert.org/pub_releases/2013-10/afot-sms100713.php)

Chemicals in marijuana 'protect nervous system' against MS (news – 2013)

<http://www.medicalnewstoday.com/articles/267161.php>

Families migrate to Colorado for marijuana miracle (news – 2013)

[http://www.denverpost.com/fitness/ci\\_24498723/families-migrate-colorado-marijuana-miracle?source=rss](http://www.denverpost.com/fitness/ci_24498723/families-migrate-colorado-marijuana-miracle?source=rss)

Comes Now Epidiolex (FDA approves IND studies of CBD) (news – 2013)

<http://www.beyondthc.com/comes-now-epidiolex-fda-approves-ind-studies-of-cbd/>

Epidiolex (news – 2013)

<http://www.gwpharm.com/Epidiolex.aspx>

Pharmaceuticals Provides Update on Orphan Program in Childhood Epilepsy for Epidiolex® (news – 2013)

<http://www.gwpharm.com/GW%20Pharmaceuticals%20Provides%20Update%20on%20Orphan%20Program%20in%20Childhood%20Epilepsy%20for%20Epidiolex.aspx>

Cannabis-Based Epilepsy Drug Approved For Clinical Trials (news – 2013)

<http://www.medicaljane.com/2013/10/23/cannabis-based-epilepsy-drug-approved-for-clinical-trials/>

OBTAINING EPIDIOLEX™ IN THE U.S. (news – 2013)

<http://www.dravetfoundation.org/dravet-syndrome/consider-dravet/obtaining-epidiolex>

Can Marijuana Help You Quit Cigarettes? Study Says Yes (news – 2013)

<http://www.leafscience.com/2013/11/01/can-marijuana-help-quit-cigarettes-study-says-yes/>

Can The Cannabis Component Cannabidiol (CBD) Cure Schizophrenia? (news – 2013)

<http://www.examiner.com/article/can-the-cannabis-component-cannabidiol-cbd-cure-schizophrenia?cid=PROD-redesign-right-next>

Study shows non-hallucinogenic cannabinoids are effective anti-cancer drugs

(news – 2013) <http://www.alphagalileo.org/ViewItem.aspx?ItemId=135404&CultureCode=en>

New Study Proves Cannabinoids Have Cancer Fighting Properties (news – 2013)  
<http://www.opposingviews.com/i/society/drug-law/new-study-proves-cannabinoids-have-cancer-fighting-properties>

Marijuana Extract Holds Promise as Diabetes Treatment (news – 2013)  
<http://www.newsmax.com/Health-News/Type-2-diabetes-diabetes-drugs-marijuana-experimental-drug-GWP42004/2013/07/19/id/516015>

Marijuana May Protect Liver Against Toxic Pesticide (news – 2013)  
<http://www.leafscience.com/2013/09/07/marijuana-may-protect-liver-against-toxic-pesticide/>

$\Delta(9)$ -THC and N-arachidonoyl glycine regulate BV-2 microglial morphology and cytokine release plasticity: implications for signaling at GPR18. (full - 2014)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3877838/>

Who Benefits Most from THC:CBD Spray? Learning from Clinical Experience.  
(full – 2014) <http://www.karger.com/Article/FullText/357743>

THC:CBD Spray and MS Spasticity Symptoms: Data from Latest Studies.  
(full – 2014) <http://www.karger.com/Article/FullText/357742>

Clinical experience with THC:CBD oromucosal spray in patients with multiple sclerosis-related spasticity. (abst – 2014) <http://www.ncbi.nlm.nih.gov/pubmed/24392812>

Physiological intestinal oxygen modulates the Caco-2 cell model and increases sensitivity to the phytocannabinoid cannabidiol. (abst – 2014)  
<http://www.ncbi.nlm.nih.gov/pubmed/24464350>

Cannabidiol protects liver from binge alcohol-induced steatosis by mechanisms including inhibition of oxidative stress and increase in autophagy (abst – 2014)  
<http://www.ncbi.nlm.nih.gov/pubmed/24398069>

### **CBDA/ CANNABIDIOLIC ACID** \* - precursor to Cannabidiol

Cannabidiolic-acid synthase, the chemotype-determining enzyme in the fiber-type Cannabis sativa (full – 2007)  
<http://www.sciencedirect.com/science/article/pii/S0014579307005728>

Cannabidiolic acid as a selective cyclooxygenase-2 inhibitory component in cannabis.  
(full – 2008) <http://dmd.aspetjournals.org/content/36/9/1917.long>

Plant-derived cannabinoids modulate the activity of transient receptor potential channels of ankyrin type-1 and melastatin type-8. (full - 2008)  
<http://jpet.aspetjournals.org/content/325/3/1007.long>

Cannabis as a Unique Functional Food (full – 2011)  
[http://apothecary-genetics.spruz.com/gfile/75r4!-!HLKELE!-!svyr5/cannabis\\_as\\_a\\_unique\\_functional\\_food.pdf](http://apothecary-genetics.spruz.com/gfile/75r4!-!HLKELE!-!svyr5/cannabis_as_a_unique_functional_food.pdf)

Effects of cannabinoids and cannabinoid-enriched Cannabis extracts on TRP channels and endocannabinoid metabolic enzymes. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165957/pdf/bph0163-1479.pdf>

Phytocannabinoids for use in the treatment of cancer - Patent GB2478595 (A) — 2011-09-14 (full – 2011)  
[http://worldwide.espacenet.com/publicationDetails/biblio?CC=GB&NR=2478595A&KC=A&FT=D&ND=&date=20110914&DB=&locale=en\\_EP](http://worldwide.espacenet.com/publicationDetails/biblio?CC=GB&NR=2478595A&KC=A&FT=D&ND=&date=20110914&DB=&locale=en_EP)

The effects of cannabidiolic acid and cannabidiol on contractility of the gastrointestinal tract of *Suncus murinus*. (abst – 2011)  
[http://www.unboundmedicine.com/medline/ebm/record/21975813/abstract/The\\_effects\\_of\\_cannabidiolic\\_acid\\_and\\_cannabidiol\\_on\\_contractility\\_of\\_the\\_gastrointestinal\\_tract\\_of\\_Suncus\\_murinus](http://www.unboundmedicine.com/medline/ebm/record/21975813/abstract/The_effects_of_cannabidiolic_acid_and_cannabidiol_on_contractility_of_the_gastrointestinal_tract_of_Suncus_murinus)

Cannabidiol May Fight Alzheimer's Disease (news – 2011)  
<http://www.examiner.com/medical-marijuana-in-philadelphia/cannabidiol-may-fight-alzheimer-s-disease>

Contrasting protective effects of cannabinoids against oxidative stress and amyloid- $\beta$  evoked neurotoxicity in vitro. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22233683>

Heat Exposure of Cannabis sativa Extracts Affects the Pharmacokinetic and Metabolic Profile in Healthy Male Subjects. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22411724>

Cannabidiolic acid, a major cannabinoid in fiber-type cannabis, is an inhibitor of MDA-MB-231 breast cancer cell migration. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22963825>

Analysis of cannabinoids in laser-microdissected trichomes of medicinal Cannabis sativa using LCMS and cryogenic NMR. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/23280038>

Cannabidiolic acid prevents vomiting in *Suncus murinus* and nausea-induced behaviour in rats by enhancing 5-HT(1A) receptor activation. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/23121618>

Effect of low doses of cannabidiolic acid and ondansetron on LiCl-induced conditioned gaping (a model of nausea-induced behaviour) in rats. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23488964>



Medicinal chemistry and pharmacology focused on cannabidiol, a major component of the fiber-type cannabis. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24088353>

Suppression of lithium chloride-induced conditioned gaping (a model of nausea-induced behaviour) in rats (using the taste reactivity test) with metoclopramide is enhanced by cannabidiolic acid. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24012649>

### **CBDV/ CANNABIDIVARIN** – unknown receptor

A chemotaxonomic analysis of cannabinoid variation in Cannabis (Cannabaceae) (full - 2004) <http://www.amjbot.org/cgi/content/full/91/6/966>

Flavonoid glycosides and cannabinoids from the pollen of Cannabis sativa L. (abst – 2005) [http://www.ncbi.nlm.nih.gov/pubmed/15688956?ordinalpos=50&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_DefaultReportPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/15688956?ordinalpos=50&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)

Cannabidivarin is anticonvulsant in mouse and rat. (full – 2012) <http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2012.02207.x/full>

Use of the phytocannabinoid cannabidivarin (cbdv) in the treatment of epilepsy - Patent Applicaton #: #20120004251 (full – 2012) <http://www.freshpatents.com/-dt20120105ptan20120004251.php>

Phytocannabinoids as novel therapeutic agents in CNS disorders. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/21924288>

Science/UK: Antiepileptic efficacy of cannabidivarin will be tested in clinical studies (news – 2012) [http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=382](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=382)

Cannabidivarin (CBDV) suppresses pentylenetetrazole (PTZ)-induced increases in epilepsy-related gene expression. (full – 2013) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3840466/>

Epigenetic Control of Skin Differentiation Genes by Phytocannabinoids (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23869687>

Evaluation of the potential of the phytocannabinoids, cannabidivarin (CBDV) and  $\Delta^9$ -tetrahydrocannabivarin (THCV), to produce CB1 receptor inverse agonism symptoms of nausea in rats. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23902479>

Cannabidivarin-rich cannabis extracts are anticonvulsant in mouse and rat via a CB1 receptor-independent mechanism. (abst – 2013)

<http://www.ncbi.nlm.nih.gov/pubmed/23902406>

Cannabis Anti-Convulsant Shakes up Epilepsy Treatment (news – 2013)

<http://www.thecompassionchronicles.com/2013/01/26/cannabis-anti-convulsant-shakes-up-epilepsy-treatment/>

New cannabis discovery could lead to better treatments for epilepsy (news – 2013)

<http://www.reading.ac.uk/news-and-events/releases/PR464765.aspx>

New Study: Cannabinoids Protect the Brain and Heart From Injury (news – 2013)

[http://www.science20.com/news\\_articles/thc\\_can\\_prevent\\_brain\\_damage\\_study-113512](http://www.science20.com/news_articles/thc_can_prevent_brain_damage_study-113512)

### **CBG/ CANNABIGEROL** \* - CB2 agonist

Phytocannabinoids (news – undated)

<http://www.news-medical.net/health/Phytocannabinoids.aspx>

Cannabinoids in clinical practice. (abst - 2000)

<http://www.ncbi.nlm.nih.gov/pubmed/11152013>

Antibacterial cannabinoids from Cannabis sativa: a structure-activity study. (full - 2008)

<http://www.scribd.com/doc/7718968/Antibacterial-Cannabinoids-From-Cannabis-Sativa-A-StructureActivity-Study>

Plant-derived cannabinoids modulate the activity of transient receptor potential channels of ankyrin type-1 and melastatin type-8. (full - 2008)

<http://jpet.aspetjournals.org/content/325/3/1007.long>

Cytotoxic and NF- $\kappa$ B-modulating effects of cannabis constituents (abst – 2008)

<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0028-1084227>

Patent application title: THERAPEUTIC USES OF CANNABIGEROL (full - 2010)

<http://www.faqs.org/patents/app/20100292345>

Evidence that the plant cannabinoid cannabigerol is a highly potent alpha2-adrenoceptor agonist and moderately potent 5HT1A receptor antagonist. (full - 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2823359/?tool=pubmed>

Antidepressant-like effect of Delta(9)-tetrahydrocannabinol and other cannabinoids isolated from Cannabis sativa L. (full - 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2866040/?tool=pubmed>

Detection of cannabigerol and its presumptive metabolite in human urine after Cannabis consumption. (abst - 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20614687>

Assessment of the Genetic Stability of Micropropagated Plants of Cannabis sativa by ISSR Markers (abst – 2010)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0029-1185945>

Evaluation of the Cyclooxygenase Inhibiting Effects of Six Major Cannabinoids Isolated from Cannabis sativa (full – 2011)  
[https://www.jstage.jst.go.jp/article/bpb/34/5/34\\_5\\_774/\\_pdf](https://www.jstage.jst.go.jp/article/bpb/34/5/34_5_774/_pdf)

Effects of cannabinoids and cannabinoid-enriched Cannabis extracts on TRP channels and endocannabinoid metabolic enzymes. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165957/pdf/bph0163-1479.pdf>

Phytocannabinoids for use in the treatment of cancer - Patent GB2478595 (A) — 2011-09-14 (full – 2011)  
[http://worldwide.espacenet.com/publicationDetails/biblio?CC=GB&NR=2478595A&KC=A&FT=D&ND=&date=20110914&DB=&locale=en\\_EP](http://worldwide.espacenet.com/publicationDetails/biblio?CC=GB&NR=2478595A&KC=A&FT=D&ND=&date=20110914&DB=&locale=en_EP)

Interaction between non-psychotropic cannabinoids in marijuana: effect of cannabigerol (CBG) on the anti-nausea or anti-emetic effects of cannabidiol (CBD) in rats and shrews. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21243485>

Plasma and brain pharmacokinetic profile of cannabidiol (CBD), cannabidivarin (CBDV),  $\Delta(9)$ -tetrahydrocannabivarin (THCV) and cannabigerol (CBG) in rats and mice following oral and intraperitoneal administration and CBD action on obsessive-compulsive behaviour. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21796370>

Bioactive prenylogous cannabinoid from fiber hemp (Cannabis sativa). (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21902175>

Phytocannabinoids as novel therapeutic agents in CNS disorders (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/21924288>

A Cannabigerol Quinone Alleviates Neuroinflammation in a Chronic Model of Multiple Sclerosis. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22971837>

Analysis of cannabinoids in laser-microdissected trichomes of medicinal Cannabis sativa using LCMS and cryogenic NMR. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/23280038>

5 Marijuana Compounds That Could Help Combat Cancer, Alzheimers, Parkinsons (If Only They Were Legal) (news – 2012)  
<http://www.alternet.org/drugs/5-marijuana-compounds-could-help-combat-cancer-alzheimers-parkinsons-if-only-they-were-legal>

Beneficial effect of the non-psychotropic plant cannabinoid cannabigerol on experimental inflammatory bowel disease. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23415610>

The effect of CBG (BDS) botanical cannabinoid extract on MCF-7 human breast carcinoma cells (abst – 2013)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/27/1\\_MeetingAbstracts/1105.21?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad](http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1105.21?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad)

Epigenetic Control of Skin Differentiation Genes by Phytocannabinoids  
(abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23869687>

LCMS Spectral Evidence of the Occurrence of Cannabinoid in Cannabis sativa Cell Cultures (abst – 2013)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1352335>

Neuritogenic Effects of Cannabinoids with Nerve Growth Factor (NGF) on PC12 Cells (abst – 2013) <https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1336533>

Study shows non-hallucinogenic cannabinoids are effective anti-cancer drugs (news – 2013) <http://www.alphagalileo.org/ViewItem.aspx?ItemId=135404&CultureCode=en>

New Study Proves Cannabinoids Have Cancer Fighting Properties (news – 2013)  
<http://www.opposingviews.com/i/society/drug-law/new-study-proves-cannabinoids-have-cancer-fighting-properties>

### **CBN/ CANNABINOL** - CB2 agonist, weak CB1 agonist

Pharmacokinetics and metabolism of the plant cannabinoids, delta9-tetrahydrocannabinol, cannabidiol and cannabiol. (abst – 2005)  
<http://www.ncbi.nlm.nih.gov/pubmed/16596792>

Cytotoxic and NF- $\kappa$ B-modulating effects of cannabis constituents (abst – 2008)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0028-1084227>

Characterization of major phytocannabinoids, cannabidiol and cannabiol, as isoform-selective and potent inhibitors of human CYP1 enzymes. (abst – 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20117100>

Assessment of the Genetic Stability of Micropropagated Plants of Cannabis sativa by ISSR Markers (abst – 2010)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0029-1185945>

Cannabiol and cannabidiol exert opposing effects on rat feeding patterns. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22543671>

Analysis of cannabinoids in laser-microdissected trichomes of medicinal Cannabis sativa using LCMS and cryogenic NMR. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/23280038>

5 Marijuana Compounds That Could Help Combat Cancer, Alzheimers, Parkinsons (If Only They Were Legal) (news – 2012)

<http://www.alternet.org/drugs/5-marijuana-compounds-could-help-combat-cancer-alzheimers-parkinsons-if-only-they-were-legal>

Hair analysis for THCA-A, THC and CBN after passive in vivo exposure to marijuana smoke. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23589391>

Exogenous cannabinoids as substrates, inhibitors, and inducers of human drug metabolizing enzymes: a systematic review. (abst – 2013)

<http://www.ncbi.nlm.nih.gov/pubmed/24160757>

LCMS Spectral Evidence of the Occurrence of Cannabinoid in Cannabis sativa Cell Cultures (abst – 2013)

<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1352335>

Neuritogenic Effects of Cannabinoids with Nerve Growth Factor (NGF) on PC12 Cells (abst – 2013) <https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1336533>

**CHOCOLATE** \* - contains a tiny amount of Anandamide and compounds that block its breakdown

Cannabinoid mimics in chocolate utilized as an argument in court (abst – 2000)

<http://chocolate.org/chocdefence.html>

Prescription Chocolate (news – 2004) <http://chocolate.org/health/chocprescribe.html>

Anandamide in Chocolate (news – 2005) <http://chocolate-chemistry.com/anandamide.php>

Desiring Chocolate (article – 2009) <http://chocolatebook.info/consumption/desiring-chocolate/>

Chocolate: The Good, the Bad and the Angry (news - 2010)

<http://www.psychologytoday.com/blog/your-brain-food/201011/chocolate-the-good-the-bad-and-the-angry>

Cocoa and the Search for Dietary Cannabinoids (news – 2010)

<http://www.examiner.com/article/cocoa-and-the-search-for-dietary-cannabinoids>

The Effects of Chocolate on the Body (news – 2010)

<http://www.livestrong.com/article/121084-effects-chocolate-body/>

Migraines, Marijuana, and Chocolate (article – 2011)

<http://www.psychologytoday.com/blog/your-brain-food/201109/migraines-marijuana-and-chocolate>

Chocolate & marijuana: chemical cousins (news – 2011)  
<http://www.examiner.com/drug-policy-in-reno/chocolate-marijuana-chemical-cousins>

Sexuality, heart and chocolate (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23547364>

Your Brain On Chocolate: Marijuana-Like Chemicals Explain Why We Crave It  
(news – 2013)  
<http://www.truthonpot.com/2013/07/28/your-brain-on-chocolate-marijuana-like-chemicals-explain-why-we-crave-it/>

### **ECHINACEA** - contains CB 2 agonists and inverse agonists

The endocannabinoid system as a target for alkamides from *Echinacea angustifolia* roots.  
(abst – 2005) <http://www.ncbi.nlm.nih.gov/pubmed/16142631>

Alkylamides from *Echinacea* Are a New Class of Cannabinomimetics (full – 2006)  
<http://www.jbc.org/content/281/20/14192.full>

The Role of Alkamides as an Active Principle of *Echinacea* (abst – 2007)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-2007-981531>

CB receptor ligands from plants. (abst – 2008)  
<http://www.ncbi.nlm.nih.gov/pubmed/18289087>

Analgesic and neuropsychological effects of *Echinacea* N-alkylamides (abst – 2008)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0028-1084300>

Synthesis and cannabinoid receptor activity of ketoalkenes from *Echinacea pallida* and nonnatural analogues. (abst - 2008) <http://www.ncbi.nlm.nih.gov/pubmed/18979494>

Immunomodulatory Lipids in Plants: Plant Fatty Acid Amides and the Human Endocannabinoid System (abst – 2008)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-2008-1034302>

Role for PPARgamma in IL-2 inhibition in T cells by *Echinacea*-derived undeca-2E-ene-8,10-diynoic acid isobutylamide. (abst – 2009)  
<http://www.ncbi.nlm.nih.gov/pubmed/19712756>

Synergistic immunopharmacological effects of N-alkylamides in *Echinacea purpurea* herbal extracts (abst – 2009)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0029-1234654>

Alkamides and a neolignan from Echinacea purpurea roots and the interaction of alkamides with G-protein-coupled cannabinoid receptors. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21764086>

**EPIDIOLEX** - a CBD-based RSO used for epilepsy

Epidiolex - GW Pharmaceuticals (drug development page – 2013)

<http://www.gwpharm.com/Epidiolex.aspx>

Pharmaceuticals Provides Update on Orphan Program in Childhood Epilepsy for Epidiolex® (news – 2013)

<http://www.gwpharm.com/GW%20Pharmaceuticals%20Provides%20Update%20on%20Orphan%20Program%20in%20Childhood%20Epilepsy%20for%20Epidiolex.aspx>

Comes Now Epidiolex (FDA approves IND studies of CBD) (news – 2013)

<http://www.beyondthc.com/comes-now-epidiolex-fda-approves-ind-studies-of-cbd/>

Cannabis-Based Epilepsy Drug Approved For Clinical Trials (news – 2013)

<http://www.medicaljane.com/2013/10/23/cannabis-based-epilepsy-drug-approved-for-clinical-trials/>

OBTAINING EPIDIOLEX™ IN THE U.S. (news – 2013)

<http://www.dravetfoundation.org/dravet-syndrome/consider-dravet/obtaining-epidiolex>

**GW-42004** - see CBD/CANNABIDIOL

**GWP- 42006** - see THC/ TETRAHYDROCANNBIVARIN

**HONKIOL** - from magnolia trees, CB1 agonist, CB2 antagonist, also see 4'-O-METHYLHONOKIOL, MAGNOLOL

Magnolia officinalis is a Traditional Chinese Medicine (article – undated)

<http://examine.com/supplements/Magnolia+officinalis/>

MAGNOLIA BARK (article – 2001)

<http://www.itmonline.org/arts/magnolia.htm>

Honokiol, a natural plant product, inhibits inflammatory signals and alleviates inflammatory arthritis. (full – 2007) <http://www.jimmunol.org/content/179/2/753.long>

Neuro-modulating effects of honokiol: a review. (full - 2013)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3769637/>

Honokiol-induced apoptosis and autophagy in glioblastoma multiforme cells.  
(full - 2013) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3813738/>

Anti-proliferative effect of honokiol in oral squamous cancer through the regulation of specificity protein 1. (full – 2013)  
<http://www.spandidos-publications.com/ijo/43/4/1103?text=fulltext>

Honokiol, a low molecular weight natural product, prevents inflammatory response and cartilage matrix degradation in human osteoarthritis chondrocytes. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24375705>

Honokiol as a Radiosensitizing Agent for Colorectal cancers. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24307888>

Honokiol inhibits U87MG human glioblastoma cell invasion through endothelial cells by regulating membrane permeability and the epithelial-mesenchymal transition.  
(full – 2014)  
<http://www.spandidos-publications.com/ijo/44/1/187;jsessionid=D37A8D6D01845D28427059EB11FE132D?text=fulltext>

Magnolia dealbata seeds extract exert cytotoxic and chemopreventive effects on MDA-MB231 breast cancer cells. (abst – 2014) <http://www.ncbi.nlm.nih.gov/pubmed/24400594>

Honokiol nanosuspensions: Preparation, increased oral bioavailability and dramatically enhanced biodistribution in the cardio-cerebro-vascular system. (abst – 2014)  
<http://www.ncbi.nlm.nih.gov/pubmed/24448177>

Honokiol inhibits androgen receptor activity in prostate cancer cells (abst – 2014)  
<http://www.ncbi.nlm.nih.gov/pubmed/24338950>

**IDRASIL** – a natural, phytocannabinoid pill, available only in California so far

Introducing Idrasil - The Marijuana Pill (ad – undated) <http://idrasil.info/>

New Cannabis Pill On Track for 2012 Debut (news – 2011)  
<http://www.theweedblog.com/new-cannabis-pill-on-track-for-2012-debut/>

A legit cannabis pill!? You don't say! (news – 2011)  
<http://hailmaryjane.com/a-legit-cannabis-pill-you-dont-say/>



Cannabis Effective for Easing MS Symptoms, but Not for Slowing Progression  
(news – 2012)  
<http://www.prweb.com/releases/-medical-marijuana/-information-san-francisc/prweb9568927.htm>

European Medical Marijuana product Sativex is challenged by North America's New  
Cannabis Pill Idrasil, Says Doobons (news/ad- 2012)  
<http://www.prweb.com/releases/-medical-marijuana/-information-san-francisc/prweb9525356.htm>

Weaker Hemp Derivatives Can't Compare to Full-Spectrum Marijuana Pills  
(news/ad- 2012) <http://www.prweb.com/releases/marijuanapills/cannabispill/prweb10099535.htm>

**MAGNOLOL** - from magnolia trees, CB2 agonist, and GPR-55 antagonist

MAGNOLIA BARK (article – 2001)  
<http://www.itmonline.org/arts/magnolia.htm>

The Natural Product Magnolol as a Lead Structure for the Development of Potent  
Cannabinoid Receptor Agonists (full – 2013)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3813752/>

Chemopreventive effects of combination of honokiol and magnolol with  $\alpha$ -santalol on  
skin cancer developments. (full – 2013)  
<http://www.ddtjournal.com/action/downloaddoc.php?docid=687>

Magnolol Ameliorates Ligature-Induced Periodontitis in Rats and Osteoclastogenesis: In  
Vivo and In Vitro Study (full – 2013) <http://www.hindawi.com/journals/ecam/2013/634095/>

Effects of magnolol on impairment of learning and memory abilities induced by  
scopolamine in mice. (full – 2013)  
[https://www.jstage.jst.go.jp/article/bpb/36/5/36\\_b12-00880/html](https://www.jstage.jst.go.jp/article/bpb/36/5/36_b12-00880/html)

Magnolol suppresses vascular endothelial growth factor-induced angiogenesis by  
inhibiting ras-dependent mitogen-activated protein kinase and phosphatidylinositol 3-  
kinase/akt signaling pathways. (abst + 1<sup>st</sup> page - 2013)  
[http://www.tandfonline.com/doi/abs/10.1080/01635581.2013.828082?url\\_ver=Z39.88-2003&rfr\\_id=ori:rid:crossref.org&rfr\\_dat=cr\\_pub%3dpubmed&#preview](http://www.tandfonline.com/doi/abs/10.1080/01635581.2013.828082?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%3dpubmed&#preview)

Protective effect of magnolol on lipopolysaccharide-induced acute lung injury in mice.  
(abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23053725>

Magnolia extract, magnolol and metabolites: activation of cannabinoid CB2 receptors  
and blockade of the related GPR55 (abst – 2013)  
<http://pubs.acs.org/doi/abs/10.1021/ml300235q>

The natural compound magnolol inhibits invasion and exhibits potential in human breast cancer therapy. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24226295>

Autophagy triggered by magnolol derivative negatively regulates angiogenesis. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24176847>

Magnolol induces apoptosis in MCF-7 human breast cancer cells through G2/M phase arrest and caspase-independent pathway. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24147344>

Magnolol inhibits colonic motility through down-regulation of voltage-sensitive L-type Ca(2+) channels of colonic smooth muscle cells in rats. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23972358>

Magnolol induces apoptosis via caspase-independent pathways in non-small cell lung cancer cells. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23943503>

Magnolol inhibits migration of vascular smooth muscle cells via cytoskeletal remodeling pathway to attenuate neointima formation. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23906924>

Long-term supplementation of honokiol and magnolol ameliorates body fat accumulation, insulin resistance, and adipose inflammation in high-fat fed mice. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23901038>

Resuscitation from experimental traumatic brain injury by magnolol therapy. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23721932>

Magnolol inhibits angiogenesis by regulating ROS-mediated apoptosis and the PI3K/AKT/mTOR signaling pathway in mES/EB-derived endothelial-like cells. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23708970>

Magnolol inhibits LPS-induced inflammatory response in uterine epithelial cells : magnolol inhibits LPS-induced inflammatory response. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23515857>

Anti-hepatitis B virus lignans from the root of *Streblus asper*. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23434030>

Magnolol suppresses hypoxia-induced angiogenesis via inhibition of HIF-1 $\alpha$ /VEGF signaling pathway in human bladder cancer cells (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23416116>

Synthesis of Tetrahydrohonokiol Derivates and Their Evaluation for Cytotoxic Activity against CCRF-CEM Leukemia, U251 Glioblastoma and HCT-116 Colon Cancer Cells. (link to PDF – 2014) <http://www.mdpi.com/1420-3049/19/1/1223>

Magnolia dealbata seeds extract exert cytotoxic and chemopreventive effects on MDA-MB231 breast cancer cells. (abst – 2014) <http://www.ncbi.nlm.nih.gov/pubmed/24400594>

### **NAMISOL** – a THC tablet

Holland: Echo Pharmaceuticals develops THC tablet Namisol (news – 2008)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=265&search\\_pattern=vaporizer](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=265&search_pattern=vaporizer)

Novel  $\Delta(9)$ -tetrahydrocannabinol formulation Namisol® has beneficial pharmacokinetics and promising pharmacodynamic effects. (full – 2012)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3394127/>

### **4'-O-METHYLHONOKIOL** - from magnolia trees, CB2 agonist, also see MAGNOLOL, HONOKIOL

Magnolia officinalis is a Traditional Chinese Medicine (article – undated)  
<http://examine.com/supplements/Magnolia+officinalis/>

MAGNOLIA BARK (article – 2001)  
<http://www.itmonline.org/arts/magnolia.htm>

Protective effect of the ethanol extract of Magnolia officinalis and 4-O-methylhonokiol on scopolamine-induced memory impairment and the inhibition of acetylcholinesterase activity. (full – 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2690856/>

Inhibitory effect of ethanol extract of Magnolia officinalis and 4-O-methylhonokiol on memory impairment and neuronal toxicity induced by beta-amyloid. (abst – 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20004682>

4-O-Methylhonokiol attenuates memory impairment in presenilin 2 mutant mice through reduction of oxidative damage and inactivation of astrocytes and the ERK pathway. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/20974250>

Methylhonokiol attenuates neuroinflammation: a role for cannabinoid receptors? (full – 2012) <http://www.jneuroinflammation.com/content/9/1/135>

Inhibitory effect of 4-O-methylhonokiol on lipopolysaccharide-induced neuroinflammation, amyloidogenesis and memory impairment via inhibition of nuclear factor-kappaB in vitro and in vivo models. (full – 2012)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3323460/>

4-O-methylhonokiol prevents memory impairment in the Tg2576 transgenic mice model of Alzheimer's disease via regulation of  $\beta$ -secretase activity. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22330831?dopt=Abstract&holding=f1000.f1000m.isrctn>

## **PHYTOCANNABINOIDS/ PLANT EXTRACTS \***

Phytocannabinoids (news – undated)  
<http://www.news-medical.net/health/Phytocannabinoids.aspx>

Introduction to the Endocannabinoid System (news – undated)  
<http://norml.org/library/item/introduction-to-the-endocannabinoid-system>

ACCESSING 0.5 to 2.0 GRAMS CBD FRACTIONATING THE PHYTOCANNABINOIDS BY THEIR VAPORIZATION POINTS (article - undated)  
<http://forum.grasscity.com/medical-marijuana/610429-need-cbd.html>

Cannabinoids (encyclopedia entry) <http://www.chemie.de/lexikon/e/Cannabinoids/>

Advantages of polypharmaceutical herbal cannabis compared to single ingredient, synthetic tetrahydrocannabinol (full - 2000)  
<http://cannabismovement.org/docs/cannabis%20terpenes.pdf>

Immunoactive cannabinoids: Therapeutic prospects for marijuana constituents (full - 2000) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC34030/?tool=pubmed>

Variations of D9-THC content in single plants of hemp varieties (full - 2000)  
<http://www.ukcia.org/research/VariationOfTHCCContent.pdf>

Cannabinoids in clinical practice. (abst - 2000)  
<http://www.ncbi.nlm.nih.gov/pubmed/11152013>

Cannabis and Cannabis Extracts: Greater Than the Sum of Their Parts? (full - 2001)  
<http://www.cannabis-med.org/membersonly/mo.php?aid=2001-03-04&fid=2001-03-04-7&mode=p&sid=>

Chapter 3: Cannabis and Marinol Compared (book excerpt - 2001)  
[http://www.or-coast.net/contigo/PDF%201%20Files/chpt\\_3.pdf](http://www.or-coast.net/contigo/PDF%201%20Files/chpt_3.pdf)

Natural cannabis 'better than extracts' (news - 2001)  
<http://news.bbc.co.uk/2/hi/health/1261737.stm>

Whether whole plant Cannabis extracts can improve intractable neurogenic symptoms? (full - 2003) <http://www.ukcia.org/research/WholePlantExtractsImproveNeurogenicSymptoms.pdf>

Cannabis can help MS sufferers (news - 2003) (may need registration)  
<http://www.newscientist.com/article/dn4356-cannabis-can-help-ms-sufferers.html>

Efficacy, safety and tolerability of an orally administered cannabis extract in the treatment of spasticity in patients with multiple sclerosis: a randomized, double-blind, placebo-controlled, crossover study. (full - 2004)  
<http://www.ukcia.org/research/EfficacySafetyTolerabilityInMSSpasticityTreatment.pdf>

Initial experiences with medicinal extracts of cannabis for chronic pain: Results from 34 'N of 1' studies (full - 2004) <http://www.ukcia.org/research/InitialExperiencesChronicPain.pdf>

Efficacy of two cannabis based medicinal extracts for relief of central neuropathic pain from brachial plexus avulsion: results of a randomised controlled trial (full - 2004)  
<http://www.ukcia.org/research/CentralNeuropathicPainEfficacy.pdf>

Cannabis truly helps multiple sclerosis sufferers (news - 2004) (may need registration)  
<http://www.newscientist.com/article/dn6387-cannabis-truly-helps-multiple-sclerosis-sufferers.html>

Plant cannabinoids: a neglected pharmacological treasure trove. (full - 2005)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751232/?tool=pubmed>

Chemical constituents of marijuana: the complex mixture of natural cannabinoids. (full - 2005) <http://www.scribd.com/doc/46441536/Chem-Constitutes-of-Marijuana>

A tale of two cannabinoids: The therapeutic rationale for combining tetrahydrocannabinol and cannabidiol. (full - 2006)  
[http://mcforadhd.free.fr/Russo\\_Tale\\_of\\_Two\\_Cannabinoids\\_Med\\_Hypoth\\_2006.pdf](http://mcforadhd.free.fr/Russo_Tale_of_Two_Cannabinoids_Med_Hypoth_2006.pdf)

Unheated Cannabis sativa extracts and its major compound THC-acid have potential immuno-modulating properties not mediated by CB1 and CB2 receptor coupled pathways. (full - 2006)  
<https://openaccess.leidenuniv.nl/bitstream/handle/1887/3744/07.pdf?sequence=6>

The multidrug transporter ABCG2 (BCRP) is inhibited by plant-derived cannabinoids. (full - 2007) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190019/?tool=pubmed>

The psychoactive plant cannabinoid, Delta9-tetrahydrocannabinol, is antagonized by Delta8- and Delta9-tetrahydrocannabivarin in mice in vivo. (full - 2007)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189766/?tool=pubmed>

Endocannabinoids and Related Compounds: Walking Back and Forth between Plant Natural Products and Animal Physiology (full - 2007)  
<http://www.sciencedirect.com/science/article/pii/S1074552107002062>

Medicinal chemistry endeavors around the phytocannabinoids. (abst - 2007)  
<http://www.ncbi.nlm.nih.gov/pubmed/17712816>

Cannabis tinctures and extracts – in vitro profiling for cytotoxic and anti-inflammatory effects (abst – 2007)

<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-2007-986840>

The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids:  $\Delta$ 9-tetrahydrocannabinol, cannabidiol and  $\Delta$ 9-tetrahydrocannabivarin (full - 2008)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219532/>

Antibacterial cannabinoids from *Cannabis sativa*: a structure-activity study. (full - 2008)

<http://www.scribd.com/doc/7718968/Antibacterial-Cannabinoids-From-Cannabis-Sativa-A-StructureActivity-Study>

Plant-derived cannabinoids modulate the activity of transient receptor potential channels of ankyrin type-1 and melastatin type-8. (full - 2008)

<http://jpet.aspetjournals.org/content/325/3/1007.long>

Pain relief with cannabinoids-- the importance of endocannabinoids and cannabinoids for pain therapy (abst - 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18671173>

Antihyperalgesic effect of a *Cannabis sativa* extract in a rat model of neuropathic pain: mechanisms involved. (abst - 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18618522>

Interaction of plant cannabinoids with the multidrug transporter ABCC1 (MRP1).

(abst - 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18619955>

Immunomodulatory lipids in plants: plant fatty acid amides and the human

endocannabinoid system. (abst – 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18275004>

PKS activities and biosynthesis of cannabinoids and flavonoids in *Cannabis sativa* L.

plants (abst - 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18854334>

Non-psychotropic plant cannabinoids: new therapeutic opportunities from an ancient herb (full - 2009)

<http://www.onlinepub.org/medical/Izzo%20Plant%20Cannabinoids%20Therapeutic%20Opportunities%20TIPS%202009.pdf>

Synthetic and plant-derived cannabinoid receptor antagonists show hypophagic properties in fasted and non-fasted mice (full - 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697695/?tool=pubmed>

Evaluation of prevalent phytocannabinoids in the acetic acid model of visceral nociception (full - 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2765124/?tool=pubmed>

Phytocannabinoids and endocannabinoids. (abst - 2009)

<http://www.ncbi.nlm.nih.gov/pubmed/19630737>

Pharmacological and therapeutic secrets of plant and brain (endo)cannabinoids.

(abst - 2009) <http://www.ncbi.nlm.nih.gov/pubmed/18777572>

Fungal biotransformation of cannabinoids: potential for new effective drugs.

(abst – 2009) <http://www.ncbi.nlm.nih.gov/pubmed/19333876>

Phytocannabinoid scientists unveils lozenge to treat H1N1 swine flu and H5N1 bird flu  
(news/ad - 2009)

<http://www.examiner.com/examiner/x-7002-Pittsburgh-History-Examiner~y2009m6d11-Phytocannabinoid-scientists-unveils-lozenge-to-treat--H1N1-swine-flu-and-H5N1-bird-flu#comments>

Antidepressant-like effect of delta9-tetrahydrocannabinol and other cannabinoids isolated from Cannabis sativa L. (full – 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2866040/?tool=pubmed>

The plant cannabinoid Delta9-tetrahydrocannabivarin can decrease signs of inflammation and inflammatory pain in mice. (full – 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931567/?tool=pubmed>

Phytocannabinoids beyond the Cannabis plant – do they exist? (full - 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931553/?tool=pubmed>

Preliminary efficacy and safety of an oromucosal standardized cannabis extract in chemotherapy-induced nausea and vomiting (full - 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2997305/pdf/bcp0070-0656.pdf>

AMELIORATIVE POTENTIAL OF CANNABIS SATIVA EXTRACT ON DIABETES INDUCED NEUROPATHIC PAIN IN RATS (full – 2010)

<http://www.ijpsr.com/V11I11/11%20Vol%201,%20Issue%2011,%20IJPSR,%20Paper%206.pdf>

Antibacterial analysis of crude extracts from the leaves of Tagetes erecta and Cannabis sativa (full – 2010)

<http://www.ipublishing.co.in/ijesarticles/twelve/articles/voltwo/EIJES3150.pdf>

Non-CB1, non-CB2 receptors for endocannabinoids, plant cannabinoids, and synthetic cannabimimetics: focus on G-protein-coupled receptors and transient receptor potential channels. (abst – 2010)

[http://www.unboundmedicine.com/medline/ebm/record/19847654/abstract/Non\\_CB1\\_non\\_CB2\\_receptors\\_for\\_endocannabinoids\\_plant\\_cannabinoids\\_and\\_synthetic\\_cannabimimetics\\_focus\\_on\\_G\\_protein\\_coupled\\_receptors\\_and\\_transient\\_receptor\\_potential\\_channels](http://www.unboundmedicine.com/medline/ebm/record/19847654/abstract/Non_CB1_non_CB2_receptors_for_endocannabinoids_plant_cannabinoids_and_synthetic_cannabimimetics_focus_on_G_protein_coupled_receptors_and_transient_receptor_potential_channels)

A low- $\Delta^9$ tetrahydrocannabinol cannabis extract induces hyperphagia in rats.

(abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20975531>

Cannabis constituents modulate  $\delta^9$ -tetrahydrocannabinol-induced hyperphagia in rats.

(abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20349049>

Characterization of major phytocannabinoids, cannabidiol and cannabinol, as isoform-selective and potent inhibitors of human CYP1 enzymes. (abst – 2010)

<http://www.ncbi.nlm.nih.gov/pubmed/20117100>

Scientists Find New Sources of Plant Cannabinoids Other than Medical Marijuana?  
(news – 2010)

<http://montanabiotech.wordpress.com/2011/03/26/scientists-find-new-sources-of-plant-cannabinoids-other-than-medical-marijuana/>

Nature's (Legal) Cannabinoids (news - 2010)

<http://www.mapinc.org/drugnews/v10/n126/a04.html?1194>

Gut feelings about the endocannabinoid system (full – 2011)

<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2982.2011.01689.x/full>

Evaluation of the Cyclooxygenase Inhibiting Effects of Six Major Cannabinoids Isolated from Cannabis sativa (full – 2011)

[https://www.jstage.jst.go.jp/article/bpb/34/5/34\\_5\\_774/\\_pdf](https://www.jstage.jst.go.jp/article/bpb/34/5/34_5_774/_pdf)

Taming THC: potential cannabis synergy and phytocannabinoid-terpenoid entourage effects. (full - 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165946/>

Prospects for cannabinoid therapies in basal ganglia disorders. (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165947/>

Treatment of Crohn's disease with cannabis: an observational study. (full – 2011)

<http://www.ima.org.il/FilesUpload/IMAJ/0/39/19985.pdf>

The Endocannabinoid System: Plant-Derived Cannabinoids in Diabetes and Diabetic Complications. (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3349875/>

Effects of cannabinoids and cannabinoid-enriched Cannabis extracts on TRP channels and endocannabinoid metabolic enzymes. (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165957/pdf/bph0163-1479.pdf>

Cannabinoid-containing plant extracts as neuroprotective agents - Patent

EP2332533 (A1) — 2011-06-15 (full – 2011)

[http://worldwide.espacenet.com/publicationDetails/description?CC=EP&NR=2332533A1&KC=A1&FT=D&ND=3&date=20110615&DB=EPODOC&locale=en\\_EP](http://worldwide.espacenet.com/publicationDetails/description?CC=EP&NR=2332533A1&KC=A1&FT=D&ND=3&date=20110615&DB=EPODOC&locale=en_EP)

Phytocannabinoids for use in the treatment of cancer - Patent GB2478595 (A) — 2011-09-14 (full – 2011)

[http://worldwide.espacenet.com/publicationDetails/biblio?CC=GB&NR=2478595A&KC=A&FT=D&ND=&date=20110914&DB=&locale=en\\_EP](http://worldwide.espacenet.com/publicationDetails/biblio?CC=GB&NR=2478595A&KC=A&FT=D&ND=&date=20110914&DB=&locale=en_EP)

Neuroprotective effects of phytocannabinoid-based medicines in experimental models of Huntington's disease. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21674569>

The role of phytochemicals in the treatment and prevention of dementia. (abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21639405/abstract/The\\_role\\_of\\_phytochemicals\\_in\\_the\\_treatment\\_and\\_prevention\\_of\\_dementia](http://www.unboundmedicine.com/medline/ebm/record/21639405/abstract/The_role_of_phytochemicals_in_the_treatment_and_prevention_of_dementia)



Cannabinoids: occurrence and medicinal chemistry. (abst – 2011)  
[http://www.unboundmedicine.com/medline/ebm/record/21254969/abstract/Cannabinoids: occurrence and medicinal chemistry](http://www.unboundmedicine.com/medline/ebm/record/21254969/abstract/Cannabinoids:_occurrence_and_medicinal_chemistry)

Acute and chronic cannabinoid extracts administration affects motor function in a CREAE model of multiple sclerosis. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21094240>

Cannabis sativa and the endogenous cannabinoid system: therapeutic potential for appetite regulation. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21213357>

Non- $\Delta^9$ tetrahydrocannabinol phytocannabinoids stimulate feeding in rats. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/22157176>

Marijuana, endocannabinoids, and epilepsy: Potential and challenges for improved therapeutic intervention. (abst - 2011) <http://www.ncbi.nlm.nih.gov/pubmed/22178327>

Natural Herbs That Increase Serotonin (news – 2011)  
<http://www.livestrong.com/article/53343-natural-herbs-increase-serotonin/>

CBD Tops The Chart (news - 2011)  
<http://morganlesko.com/cbd/2011/12/23/cbd-tops-the-chart/>

Marijuana (Cannabis sativa) Mayo Clinic (news – 2011)  
[http://www.mayoclinic.com/health/marijuana/NS\\_patient-marijuana/DSECTION=evidence](http://www.mayoclinic.com/health/marijuana/NS_patient-marijuana/DSECTION=evidence)

The Endocannabinoid System and Plant-Derived Cannabinoids in Diabetes and Diabetic Complications (full – 2012) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3349875/>

Cannabis Responsive Head Injury Induced Multiple Disabilities: A Case Report (full - 2012) [http://file.scirp.org/Html/9-2500130\\_16958.htm](http://file.scirp.org/Html/9-2500130_16958.htm)

Phytocannabinoids as novel therapeutic agents in CNS disorders. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/21924288>

Heat Exposure of Cannabis sativa Extracts Affects the Pharmacokinetic and Metabolic Profile in Healthy Male Subjects. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22411724>

Phytocannabinoids as novel therapeutic agents in CNS disorders. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/21924288>

Nature Against Depression. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22414105>

Cannabis exposure associated with weight reduction and  $\beta$ -cell protection in an obese rat model. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22421529>

Cannabinoid-associated cell death mechanisms in tumor models (Review). (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22614735>

Differential migratory properties of monocytes isolated from human subjects naïve and non-naïve to Cannabis. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22492174>

Effect of extraction conditions on total polyphenol contents, antioxidant and antimicrobial activities of *Cannabis sativa* L (abst – 2012)  
<http://www.cabdirect.org/abstracts/20123212113.html;jsessionid=DDBC2FF41C8322957AD4B468D3785A59?gitCommit=4.13.20-5-ga6ad01a>

Multiple Sclerosis and Extract of Cannabis: results of the MUSEC trial. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22791906>

Non- $\Delta^9$ tetrahydrocannabinol phytocannabinoids stimulate feeding in rats. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22157176>

Sativex-like Combination of Phytocannabinoids is Neuroprotective in Malonate-Lesioned Rats, an Inflammatory Model of Huntington's Disease: Role of CB(1) and CB(2) Receptors. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22860209>

Marijuana: modern medical chimaera. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22873011>

Weaker Hemp Derivatives Can't Compare to Full-Spectrum Marijuana Pills  
(news/ad- 2012) <http://www.prweb.com/releases/marijuanapills/cannabispill/prweb10099535.htm>

Natural Cannabinoids Improve Dopamine Neurotransmission and Tau and Amyloid Pathology in a Mouse Model of Tauopathy. (full – 2013)  
<http://iospress.metapress.com/content/4j61942x88175321/fulltext.html>

Non-THC cannabinoids inhibit prostate carcinoma growth in vitro and in vivo: pro-apoptotic effects and underlying mechanisms. (full – 2013)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2012.02027.x/full>

Neuroprotective effects of Cannabis sativa leaves extracts on  $\alpha$ -Motoneurons density after sciatic nerve injury in rats (full – 2013)  
[http://www.lifesciencesite.com/lj/life1005s/113\\_15973life1005s\\_644\\_648.pdf](http://www.lifesciencesite.com/lj/life1005s/113_15973life1005s_644_648.pdf)

Cannabis, a complex plant: different compounds and different effects on individuals (full – 2013) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3736954/>

US Patent Application 20130059018 - PHYTOCANNABINOIDS IN THE TREATMENT OF CANCER (full – 2013)  
<http://www.patentstorm.us/applications/20130059018/fulltext.html>

Synthetic cannabis: A comparison of patterns of use and effect profile with natural cannabis in a large global sample. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23291209>

The pharmacologic and clinical effects of medical cannabis. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23386598>

Cannabis Induces a Clinical Response in Patients with Crohn's Disease: a Prospective Placebo-Controlled Study. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23648372>

The effect of CBG (BDS) botanical cannabinoid extract on MCF-7 human breast carcinoma cells (abst – 2013)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/27/1\\_MeetingAbstracts/1105.21?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad](http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1105.21?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad)

Pro-resolution, protective and anti-nociceptive effects of a cannabis extract in the rat gastrointestinal tract. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23756391>

Epigenetic Control of Skin Differentiation Genes by Phytocannabinoids (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23869687>

Towards a better Cannabis drug. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24024867>

A review of the cultivation and processing of cannabis (*Cannabis sativa* L.) for production of prescription medicines in the UK. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24115748>

Enhancing the Activity of Cannabidiol and Other Cannabinoids In Vitro Through Modifications to Drug Combinations and Treatment Schedules. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24123005>

Molecular Mechanisms Involved in the Antitumor Activity of Cannabinoids on Gliomas: Role for Oxidative Stress. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24281104>

Cannabidivarin-rich cannabis extracts are anticonvulsant in mouse and rat via a CB1 receptor-independent mechanism. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23902406>

The medicinal use of cannabis and cannabinoids--an international cross-sectional survey on administration forms. (abst – 2013)  
[http://www.unboundmedicine.com/medline/citation/24175484/The\\_medical\\_use\\_of\\_cannabis\\_and\\_cannabinoids--an\\_international\\_cross-sectional\\_survey\\_on\\_administration\\_forms.](http://www.unboundmedicine.com/medline/citation/24175484/The_medical_use_of_cannabis_and_cannabinoids--an_international_cross-sectional_survey_on_administration_forms.)

Inhibition of colon carcinogenesis by a standardized Cannabis sativa extract with high content of cannabidiol. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24373545>

LCMS Spectral Evidence of the Occurrence of Cannabinoid in Cannabis sativa Cell Cultures (abst – 2013)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1352335>

Neuritogenic Effects of Cannabinoids with Nerve Growth Factor (NGF) on PC12 Cells  
(abst – 2013) <https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1336533>

Study shows non-hallucinogenic cannabinoids are effective anti-cancer drugs  
(news – 2013) <http://www.alphagalileo.org/ViewItem.aspx?ItemId=135404&CultureCode=en>

New Study Proves Cannabinoids Have Cancer Fighting Properties (news – 2013)  
<http://www.opposingviews.com/i/society/drug-law/new-study-proves-cannabinoids-have-cancer-fighting-properties>

High on Health: Cannabinoids in the Food Supply (news – 2013)  
<http://www.wakingtimes.com/2013/04/25/high-on-health-cbd-in-the-food-supply/>

Cannabis fractions: Separating cannabinoids from terpenoids (news – 2013)  
<http://www.separationsnow.com/details/ezone/13ec7586bd2/Cannabis-fractions-Separating-cannabinoids-from-terpenoids.html?tzcheck=1>

**SATIVEX / NABIXIMOLS** - a THC/CBD cannabis extract oral spray, legal in the UK, but not the USA

Preliminary assessment of the efficacy, tolerability and safety of a cannabis-based medicine (Sativex) in the treatment of pain caused by rheumatoid arthritis (full - 2005)  
<http://rheumatology.oxfordjournals.org/cgi/content/full/45/1/50>

Sativex Drug Monograph (monograph – 2005)  
<http://www.ukcia.org/research/SativexMonograph.pdf>

Sativex: Fact Sheet (full - 2005) [http://www.bayer.ca/files/sativex\\_fs\\_fd\\_091289\\_e.pdf](http://www.bayer.ca/files/sativex_fs_fd_091289_e.pdf)

Sativex: Health Care Professional letter (letter - 2005)  
[http://www.bayer.ca/files/sativex\\_dhcpl\\_lapds\\_091289\\_e.pdf](http://www.bayer.ca/files/sativex_dhcpl_lapds_091289_e.pdf)

Sativex produced significant improvements in a subjective measure of spasticity  
(abst - 2005) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=170](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=170)

Cannabis-based medicinal extract (Sativex) produced significant improvements in a subjective measure of spasticity which were maintained on long-term treatment with no evidence of tolerance. (abst - 2005)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=170](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=170)

Conditional okay for cannabis prescription drug (news - 2005)  
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1150250&tool=pmcentrez>

Cannabis-Based Drug Relieves Arthritis Pain (news - 2005)  
<http://www.medpagetoday.com/Rheumatology/Arthritis/2097>

Cannabis-based medicine relieves the pain of rheumatoid arthritis and suppresses the disease (news – 2005) [http://www.eurekalert.org/pub\\_releases/2005-11/oup-cmr110705.php](http://www.eurekalert.org/pub_releases/2005-11/oup-cmr110705.php)

Preliminary assessment of the efficacy, tolerability and safety of a cannabis-based medicine (Sativex) in the treatment of pain caused by rheumatoid arthritis (full - 2006) <http://rheumatology.oxfordjournals.org/cgi/content/full/45/1/50?maxtoshow=&hitqs=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=2240&resourcetype=HWCIT>

Cannabinoids In Medicine: A Review Of Their Therapeutic Potential (full – 2006) <http://www.doctordeluca.com/Library/WOD/WPS3-MedMj/CannabinoidsMedMetaAnalysis06.pdf>

The use of a cannabis-based medicine (Sativex) in the treatment of pain caused by rheumatoid arthritis (letter - 2006) <http://rheumatology.oxfordjournals.org/cgi/content/full/45/6/781>

Long-term use of a cannabis-based medicine in the treatment of spasticity and other symptoms in multiple sclerosis. (abst – 2006) <http://www.ncbi.nlm.nih.gov/pubmed/17086911>

Randomised controlled study of cannabis-based medicine (Sativex®) in patients suffering from multiple sclerosis associated detrusor overactivity (abst - 2006) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=168](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=168)

Sativex® in patients with symptoms of spasticity due to multiple sclerosis (abst - 2006) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=169](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=169)

Combined cannabinoid therapy via an oromucosal spray (abst – 2006) [http://journals.prous.com/journals/servlet/xmlxsl/pk\\_journals.xml\\_summaryn\\_pr?p\\_JournalId=4&p\\_RefId=1021517](http://journals.prous.com/journals/servlet/xmlxsl/pk_journals.xml_summaryn_pr?p_JournalId=4&p_RefId=1021517)

Sativex showed positive effects in 65 per cent of patients with chronic diseases (news - 2006) [http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=230#4](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=230#4)

Sativex: Fact Sheet (full - 2007) [http://www.bayer.ca/files/sativex\\_fs\\_fd\\_109461\\_e%20GW\\_.pdf](http://www.bayer.ca/files/sativex_fs_fd_109461_e%20GW_.pdf)

Cannabinoids as therapeutic agents in cardiovascular disease: a tale of passions and illusions. (full - 2007) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2013961/pdf/0707261a.pdf>

Sativex: Health Care Professional letter (letter - 2007) [http://www.bayer.ca/files/sativex\\_dhcpl\\_lapds\\_109461\\_e%20GW\\_-2.pdf](http://www.bayer.ca/files/sativex_dhcpl_lapds_109461_e%20GW_-2.pdf)

Letter: Cannabinoid medicines and the need for the scientific method (letter – 2007) [http://www.cannabis-med.org/data/pdf/en\\_2007\\_02\\_3.pdf](http://www.cannabis-med.org/data/pdf/en_2007_02_3.pdf)

- Letter: The herbal way - a response to Ethan Russo (letter – 2007)  
[http://www.cannabis-med.org/data/pdf/en\\_2007\\_03\\_1.pdf](http://www.cannabis-med.org/data/pdf/en_2007_03_1.pdf)
- Cannabis; adverse effects from an oromucosal spray. (abst - 2007)  
<http://www.nature.com/bdj/journal/v203/n6/abs/bdj.2007.749.html>
- Cannabis, pain, and sleep: lessons from therapeutic clinical trials of Sativex, a cannabis-based medicine. (abst - 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17712817>
- Symptomatic treatment of multiple sclerosis using cannabinoids: recent advances. (abst - 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17868014>
- Sativex successfully treats neuropathic pain characterised by allodynia: A randomised, double-blind, placebo-controlled clinical trial (abst - 2007)  
<http://www.ncbi.nlm.nih.gov/pubmed/17997224>
- Oromucosal delta9-tetrahydrocannabinol/cannabidiol for neuropathic pain associated with multiple sclerosis: an uncontrolled, open-label, 2-year extension trial. (abst – 2007) <http://www.ncbi.nlm.nih.gov/pubmed/18035205>
- Cannabinoids Associated With "More Restful Sleep," Study Says (news - 2007)  
<http://www.illinoisnorml.org/content/view/648/2/>
- Cannabinoids in the management of difficult to treat pain (full - 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2503660/?tool=pmcentrez>
- Emerging strategies for exploiting cannabinoid receptor agonists as medicines. (full – 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697681/>
- Cannabinoids as pharmacotherapies for neuropathic pain: from the bench to the bedside. (full – 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2755639/>
- Summary of Product Characteristics- Sativex Oromucosal Spray (full – 2010)  
<http://www.medicines.org.uk/EMC/medicine/23262/SPC/Sativex+Oromucosal+Spray/>
- Meta-analysis of the efficacy and safety of Sativex (nabiximols), on spasticity in people with multiple sclerosis (abst - 2010)  
<http://msj.sagepub.com/cgi/content/abstract/16/6/707?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=0&sortspec=date&resourcetype=HWCIT>
- Randomized controlled trial of Sativex to treat detrusor overactivity in multiple sclerosis. (abst – 2010) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=314](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=314)
- Medical marijuana aka Sativex now available in UK (news – 2010)  
<http://www.examiner.com/article/medical-marijuana-aka-sativex-now-available-uk>
- Plasma cannabinoid pharmacokinetics following controlled oral delta9-tetrahydrocannabinol and oromucosal cannabis extract administration. (full– 2011)

<http://www.clinchem.org/content/57/1/66.long>

Emerging treatment options for spasticity in multiple sclerosis; clinical utility of cannabinoids (link to PDF – 2011) [http://www.dovepress.com/articles.php?article\\_id=7675](http://www.dovepress.com/articles.php?article_id=7675)

Abuse potential and psychoactive effects of  $\delta$ -9-tetrahydrocannabinol and cannabidiol oromucosal spray (Sativex), a new cannabinoid medicine. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21542664>

Subjective and physiological effects after controlled Sativex and oral THC administration. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21289620>

A randomized, double-blind, placebo-controlled, crossover study to evaluate the subjective abuse potential and cognitive effects of nabiximols oromucosal spray in subjects with a history of recreational cannabis use. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21671456>

A randomized, double-blind, placebo-controlled, parallel-group, enriched-design study of nabiximols\* (Sativex®), as add-on therapy, in subjects with refractory spasticity caused by multiple sclerosis. (abst – 2011)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=322](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=322)

THC and CBD oromucosal spray (Sativex®) in the management of spasticity associated with multiple sclerosis. (abst - 2011)  
[http://www.unboundmedicine.com/medline/evidence/record/21456949/abstract/THC\\_and\\_CBD\\_oromucosal\\_spray\\_Sativex%C2%AE\\_in\\_the\\_management\\_of\\_spasticity\\_associated\\_with\\_multiple\\_sclerosis](http://www.unboundmedicine.com/medline/evidence/record/21456949/abstract/THC_and_CBD_oromucosal_spray_Sativex%C2%AE_in_the_management_of_spasticity_associated_with_multiple_sclerosis)

Neuroprotective effects of phytocannabinoid-based medicines in experimental models of Huntington's disease. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21674569>

Is Pot Good For You? (news – 2011)  
[http://www.maps.org/media/view/is\\_pot\\_good\\_for\\_you/](http://www.maps.org/media/view/is_pot_good_for_you/)

The Therapeutic Potential of Cannabis and Cannabinoids (full – 2012)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3442177/>

Evaluation of the Effects of Sativex (THC BDS: CBD BDS) on Inhibition of Spasticity in a Chronic Relapsing Experimental Allergic Autoimmune Encephalomyelitis: A Model of Multiple Sclerosis. (full – 2012)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3423911/pdf/ISRN.NEUROLOGY2012-802649.pdf>

Towards the use of non-psychoactive cannabinoids for prostate cancer. (full – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2012.02121.x/pdf>

Endocannabinoids in nervous system health and disease: the big picture in a nutshell (full – 2012) <http://rstb.royalsocietypublishing.org/content/367/1607/3193.full>

Treatment of Tourette syndrome with cannabinoids. (link to PDF – 2012)

<http://www.hindawi.com/journals/bn/2013/294264/abs/>

Cannabis derivatives therapy for a seronegative stiff-person syndrome: a case report.  
(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22726074>

Cannabinoids: Novel Medicines for the Treatment of Huntington's Disease.  
(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22280340>

Nabiximols for Opioid-Treated Cancer Patients With Poorly-Controlled Chronic Pain: A  
Randomized, Placebo-Controlled, Graded-Dose Trial. (abst - 2012)  
<http://www.sciencedirect.com/science/article/pii/S1526590012000193>

A questionnaire survey of patients and carers of patients prescribed Sativex as an  
unlicensed medicine. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22784399>

Subjective and Physiological Effects of Oromucosal Sprays Containing Cannabinoids  
(Nabiximols): Potentials and Limitations for Psychosis Research. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22716155>

Potential Control of Multiple Sclerosis by Cannabis and the Endocannabinoid System.  
(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22583441>

Clinical efficacy and effectiveness of Sativex, a combined cannabinoid medicine, in  
multiple sclerosis-related spasticity. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22509985>

Evaluation of the safety and tolerability profile of Sativex: is it reassuring enough?  
(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22509986>

Nabiximols in the treatment of spasticity, pain and urinary symptoms due to multiple  
sclerosis. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22954177>

Symptomatic therapy in multiple sclerosis: the role of cannabinoids in treating spasticity.  
(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22973422>

Treatment of spasticity in multiple sclerosis: new perspectives regarding the use of  
cannabinoids (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23011861>

Cost Effectiveness of Oromucosal Cannabis-Based Medicine (Sativex®) for Spasticity in  
Multiple Sclerosis. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23072659>

Can oral fluid cannabinoid testing monitor medication compliance and/or cannabis  
smoking during oral THC and oromucosal Sativex administration? (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/23146820>

A double-blind, randomized, placebo-controlled, parallel-group study of THC/CBD  
oromucosal spray in combination with the existing treatment regimen, in the relief of  
central neuropathic pain in patients with multiple sclerosis. (abst – 2012)



<http://www.ncbi.nlm.nih.gov/pubmed/23180178>

Treatment of spasticity in multiple sclerosis: new perspectives regarding the use of cannabinoids (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23011861?dopt=Abstract>

What place for cannabis extract in MS? (abst – 2012)  
<http://dtb.bmj.com/content/50/12/141.abstract>

Neuromodulators for pain management in rheumatoid arthritis (abst – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1002/14651858.CD008921.pub2/abstract>

Cannabinoid formulation benefits opioid-refractory pain (news – 2012)  
<http://medicalxpress.com/news/2012-06-cannabinoid-benefits-opioid-refractory-pain.html>

Cannabinoid Shown Effective as Adjuvant Analgesic for Cancer Pain (news - 2012)  
<http://www.sciencedaily.com/releases/2012/06/120604142426.htm>

Pot-based prescription drug looks for FDA OK (news - 2012)  
<http://medicalxpress.com/news/2012-01-pot-based-prescription-drug-fda.html>

Cannabinoid therapy helps provide effective analgesia for cancer patients with pain (news – 2012)  
<http://www.news-medical.net/news/20120605/Cannabinoid-therapy-helps-provide-effective-analgesia-for-cancer-patients-with-pain.aspx>

Marijuana Mouth Spray: Will It Be Abused? (news – 2012)  
<http://news.discover.com/human/medical-marijuana-spray-120131.htm>

Can medical marijuana help rheumatoid arthritis? (news – 2012)  
<http://healthyliving.msn.com/diseases/rheumatoid-arthritis/can-medical-marijuana-help-rheumatoid-arthritis-1>

Natural Cannabinoids Improve Dopamine Neurotransmission and Tau and Amyloid Pathology in a Mouse Model of Tauopathy. (full – 2013)  
<http://iospress.metapress.com/content/4j61942x88175321/fulltext.html>

Treatment failure of intrathecal baclofen and supra-additive effect of nabiximols in multiple sclerosis-related spasticity: a case report (full – 2013)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3625014/>

A Phase I, open-label, randomized, crossover study in three parallel groups to evaluate the effect of Rifampicin, Ketoconazole, and Omeprazole on the pharmacokinetics of THC/CBD oromucosal spray in healthy volunteers (full – 2013)  
<http://www.springerplus.com/content/2/1/236>

Endocannabinoid system modulator use in everyday clinical practice in the UK and Spain. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23369054>

The pharmacologic and clinical effects of medical cannabis. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23386598>

A new multiple sclerosis spasticity treatment option: effect in everyday clinical practice and cost-effectiveness in Germany. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23369055>

Multiple sclerosis and the blood-central nervous system barrier. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23401746>

Pharmacokinetic evaluation of nabiximols for the treatment of multiple sclerosis pain. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23621668>

A Double-Blind, Placebo-Controlled, Crossover Pilot Trial With Extension Using an Oral Mucosal Cannabinoid Extract for Treatment of Chemotherapy-Induced Neuropathic Pain. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23742737>

A review of the cultivation and processing of cannabis (*Cannabis sativa* L.) for production of prescription medicines in the UK. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24115748>

Advances in the management of multiple sclerosis spasticity: experiences from recent studies and everyday clinical practice. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24289844>

A Multiple-Dose, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group QT/QTc Study to Evaluate the Electrophysiologic Effects of THC/CBD Spray (abst – 2013) <http://onlinelibrary.wiley.com/doi/10.1002/cpdd.36/abstract>

"Miracle" Cannabis Oil: May Treat Cancer, But Money and the Law Stand in the Way of Finding Out (news – 2013)  
<http://www.sfwkly.com/2013-04-24/news/key-words-cannabis-oil-cure-cancer-constance-finley/>

Medical Marijuana: Consortium of Multiple Sclerosis Centers (news – 2013)  
<http://www.msviews.org/msviewsandnews4/index.php/2012-05-28-00-15-54/2012-07-04-00-19-28/610-medical-marijuana-consortium-of-multiple-sclerosis-centers>

Aylsham multiple sclerosis sufferer says cannabis-based drug ‘changed my life’ (news - 2013)  
[http://www.eveningnews24.co.uk/news/aylsham\\_multiple\\_sclerosis\\_sufferer\\_says\\_cannabis\\_based\\_drug\\_changed\\_my\\_life\\_1\\_2276182](http://www.eveningnews24.co.uk/news/aylsham_multiple_sclerosis_sufferer_says_cannabis_based_drug_changed_my_life_1_2276182)

The Great GW Pharma Confidence Trick. (news – 2013)  
<http://www.clear-uk.org/the-great-gw-pharma-confidence-trick/>

Who Benefits Most from THC:CBD Spray? Learning from Clinical Experience. (full – 2014) <http://www.karger.com/Article/FullText/357743>

THC:CBD Spray and MS Spasticity Symptoms: Data from Latest Studies. (full – 2014) <http://www.karger.com/Article/FullText/357742>

Clinical experience with THC:CBD oromucosal spray in patients with multiple sclerosis-related spasticity. (abst – 2014) <http://www.ncbi.nlm.nih.gov/pubmed/24392812>

A double-blind, randomized, placebo-controlled, parallel group study of THC/CBD spray in peripheral neuropathic pain treatment. (abst – 2014)  
<http://www.ncbi.nlm.nih.gov/pubmed/24420962>

Nabiximols as an Agonist Replacement Therapy During Cannabis Withdrawal: A Randomized Clinical Trial. (abst – 2014) <http://www.ncbi.nlm.nih.gov/pubmed/24430917>

### **TEA- (*Camellia sinensis* (L.)** –weakly activates CB1 and CB2 receptors

Synthesis of potential theanine metabolites, related structures and their affinity for CB receptors (abst – 2007)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-2007-986803>

Catechin-derivates affinity for human cannabinoid receptors (abst – 2009)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0029-1234837>

Tea catechins' affinity for human cannabinoid receptors. (full– 2010)  
<http://www.thefreelibrary.com/Tea+catechins%27+affinity+for+human+cannabinoid+receptors.-a0221094461>

### **TERPINOIDS/ TERPENES** \* - help cannabinoids work better, also see Beta Carophyllene

THC (TETRAHYDROCANNABINOL) ACCUMULATION IN GLANDS OF CANNABIS (CANNABACEAE) (full – undated)  
<http://www.hempreport.com/issues/17/malbody17.html>

“Why Does My Beer Smell Like Weed?” (news – 2007)  
<http://cannabis-science.com/papers/Beersmellikeweed.pdf>

Cannabinoid Receptor 1 Binding Activity and Quantitative Analysis of Cannabis sativa L. Smoke and Vapor (full – 2009) [https://www.jstage.jst.go.jp/article/cpb/58/2/58\\_2\\_201/\\_pdf](https://www.jstage.jst.go.jp/article/cpb/58/2/58_2_201/_pdf)

Terpenes, Terpenoids and Cannabis (news – 2010)  
<http://berkeleypatientscare.com/2010/10/08/terpenes-terpenoids-and-cannabis/>

Taming THC: potential cannabis synergy and phytocannabinoid-terpenoid entourage effects. (full - 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165946/>

Terpenoids, ‘minor’ cannabinoids contribute to ‘entourage effect’ of cannabis-based medicines (news – 2011)

<http://www.scribd.com/doc/73090396/Terpenoids-%E2%80%98minor%E2%80%99-cannabinoids-contribute-to-%E2%80%98entourage-effect%E2%80%99-of-cannabis-based-medicines-O-Shaughnessy-s-Autumn-2011>

The Importance Of Matured Cannabis (news – 2011)

<http://www.clear-uk.org/the-importance-of-matured-cannabis/>

Terpenoid biosynthesis in trichomes—current status and future opportunities

(full – 2012) <http://onlinelibrary.wiley.com/doi/10.1111/j.1467-7652.2012.00737.x/full>

High on Health: Cannabinoids in the Food Supply (news – 2013)

<http://www.wakingtimes.com/2013/04/25/high-on-health-cbd-in-the-food-supply/>

Cannabis fractions: Separating cannabinoids from terpenoids (news – 2013)

<http://www.separationsnow.com/details/ezone/13ec7586bd2/Cannabis-fractions-Separating-cannabinoids-from-terpenoids.html?tzcheck=1>

## **THC/ TETRAHYDROCANNABINOL \* CB1 & 2 agonist**

Phytocannabinoids (news – undated)

<http://www.news-medical.net/health/Phytocannabinoids.aspx>

Tetrahydrocannabinol- an interview with Akshat Rathi (interview - undated)

<http://www.rsc.org/chemistryworld/podcast/CIIEcompounds/transcripts/THC.asp>

Advantages of polypharmaceutical herbal cannabis compared to single ingredient, synthetic tetrahydrocannabinol (full - 2000)

<http://cannabismovement.org/docs/cannabis%20terpenes.pdf>

Anti-tumoral action of cannabinoids: involvement of sustained ceramide accumulation and extracellular signal-regulated kinase activation. (full - 2000)

<http://depts.washington.edu/stellalb/images/Nature2000.pdf>

Cannabinoids might reduce spasticity in multiple sclerosis (full - 2000)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1117698/?tool=pmcentrez>

Variations of D9-THC content in single plants of hemp varieties (full - 2000)

<http://www.ukcia.org/research/VariationOfTHCContent.pdf>

GC-MS analysis of the total delta9-THC content of both drug- and fiber-type cannabis seeds. (abst – 2000) <http://www.ncbi.nlm.nih.gov/pubmed/11110027>

Endogenous cannabinoids and appetite. (abst – 2000)  
<http://www.ncbi.nlm.nih.gov/pubmed/19087417>

Cannabinoids in clinical practice. (abst - 2000)  
<http://www.ncbi.nlm.nih.gov/pubmed/11152013>

Delta(9)-tetrahydrocannabinol and synthetic cannabinoids prevent emesis produced by the cannabinoid CB(1) receptor antagonist/inverse agonist SR 141716A. (full – 2001)  
<http://www.nature.com/npp/journal/v24/n2/full/1395605a.html>

Neuroprotection by Delta 9-Tetrahydrocannabinol, the Main Active Compound in Marijuana, against Ouabain-Induced In Vivo Excitotoxicity (full - 2001)  
<http://www.jneurosci.org/content/21/17/6475.full>

Tetrahydrocannabinol for treatment of chronic pain (abst - 2001)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=147](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=147)

Clinical investigation of delta-9-tetrahydrocannabinol (THC) as an alternative therapy for overactive bladders in spinal cord injury (SCI) patients. (abst - 2001)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=102](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=102)

Targeting CB2 cannabinoid receptors as a novel therapy to treat malignant lymphoblastic disease (full - 2002)  
<http://bloodjournal.hematologylibrary.org/cgi/content/full/100/2/627?ijkey=eb71d6d7a06f311440761cfac6a7d081bcc2771d>

Evidence for functional CB1 cannabinoid receptor expressed in the rat thyroid (full – 2002) <http://www.eje-online.org/content/147/2/255.full.pdf+html>

The potent emetogenic effects of the endocannabinoid, 2-AG (2-arachidonoylglycerol) are blocked by delta(9)-tetrahydrocannabinol and other cannabinoids. (full – 2002)  
<http://jpet.aspetjournals.org/content/300/1/34.long>

De novo-synthesized ceramide is involved in cannabinoid-induced apoptosis. (full - 2002) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1222465/pdf/11903061.pdf>

Cannabinoids and multiple sclerosis. (abst - 2002)  
<http://www.ncbi.nlm.nih.gov/pubmed/12182963>

Cannabinoids in the treatment of pain and spasticity in multiple sclerosis. (abst - 2002)  
[http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list\\_uids=12137404&dopt=abstractplus](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list_uids=12137404&dopt=abstractplus)

Natural High Erases Bad Memories (news - 2002)  
<http://www.cbsnews.com/news/natural-high-erases-bad-memories/>

Cannabinoid CB2 receptor activation reduces mouse myocardial ischemia-reperfusion injury: involvement of cytokine/chemokines and PMN (full - 2003)

<http://www.jleukbio.org/cgi/content/full/75/3/453?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT>

The Endogenous Cannabinoid System Regulates Seizure Frequency and Duration in a Model of Temporal Lobe Epilepsy (full - 2003)

<http://jpet.aspetjournals.org/content/307/1/129.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT>

Inhibition of tumor angiogenesis by cannabinoids (full - 2003)

<http://www.fasebj.org/cgi/reprint/02-0795fjev1?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=20&sortspec=relevance&resourcetype=HWCIT>

Effects of THC on Behavioral Measures of Impulsivity in Humans (full - 2003)

<http://www.nature.com/npp/journal/v28/n7/full/1300176a.html>

Cannabis and the brain. (full - 2003) <http://brain.oxfordjournals.org/cgi/content/full/126/6/1252>

Treatment of Tourette Syndrome with Delta-9-Tetrahydrocannabinol (Delta9-THC): No Influence on Neuropsychological Performance (full - 2003)

<http://www.nature.com/npp/journal/v28/n2/abs/1300047a.html>

Cannabinoids: Potential Anticancer Agents (full - 2003)

<http://americanmarijuana.org/Guzman-Cancer.pdf>

Cannabis use for chronic non-cancer pain: results of a prospective survey. (abst - 2003)

[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=91](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=91)

The treatment of spasticity with D9-THC) in patients with spinal cord injury (abst - 2003)

[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=79](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=79)

Cannabinoid influences on palatability: microstructural analysis of sucrose drinking after delta(9)-tetrahydrocannabinol, anandamide, 2-arachidonoyl glycerol and SR141716.

(abst - 2003) <http://www.ncbi.nlm.nih.gov/pubmed/12447606>

Delta 9-tetrahydrocannabinol (THC) is effective in the treatment of tics in Tourette syndrome: a 6-week randomized trial. (abst - 2003)

[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=146#1](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=146#1)

The endocannabinoid system as a target for the development of new drugs for cancer therapy. (abst - 2003)

<http://www.ncbi.nlm.nih.gov/pubmed/12723496>

Pharmacokinetics and pharmacodynamics of cannabinoids. (abst - 2003)

<http://www.ncbi.nlm.nih.gov/pubmed/12648025>

Cannabis can help MS sufferers (news - 2003) (may need registration)

<http://www.newscientist.com/article/dn4356-cannabis-can-help-ms-sufferers.html>

Differential Effects of THC or CBD-rich Cannabis Extracts on Working Memory in Rats (full - 2004) <http://www.ukcia.org/research/THCCBDWorkingMemory.pdf>

Cannabinoids: Defending the Epileptic Brain (full - 2004)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1176332/?tool=pmcentrez>

Evidence for an Interaction between CB1 Cannabinoid and Melanocortin MCR-4 Receptors in Regulating Food Intake (full – 2004)  
<http://press.endocrine.org/doi/full/10.1210/en.2004-0059>

Initial experiences with medicinal extracts of cannabis for chronic pain: Results from 34 ‘N of 1’ studies (full - 2004) <http://www.ukcia.org/research/InitialExperiencesChronicPain.pdf>

The Procoagulatory Effects of Delta-9-Tetrahydrocannabinol in Human Platelets (full - 2004) (funky link- says “404”, delete the “404” and it comes up)  
<http://journals.lww.com/anesthesia-analgesia/pages/articleviewer.aspx?year=2004&issue=10000&article=00031&type=Fulltext>

The good and the bad effects of (–) trans-delta-9-tetrahydrocannabinol ( $\Delta$ 9-THC) on humans (abst - 2004)  
[http://www.sciencedirect.com/science?\\_ob=ArticleURL&\\_udi=B6TCS-4CSG2C4-2&\\_user=10&\\_rdoc=1&\\_fmt=&\\_orig=search&\\_sort=d&\\_view=c&\\_acct=C000050221&\\_version=1&\\_urlVersion=0&\\_userid=10&md5=99df29b0ce94c395c01f5aad8825d28b](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TCS-4CSG2C4-2&_user=10&_rdoc=1&_fmt=&_orig=search&_sort=d&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=99df29b0ce94c395c01f5aad8825d28b)

Very low doses of delta 8-THC increase food consumption and alter neurotransmitter levels following weight loss. (abst – 2004) <http://www.ncbi.nlm.nih.gov/pubmed/15099912>

Effect of Delta-9-tetrahydrocannabinol and cannabidiol on nocturnal sleep and early-morning behavior in young adults. (abst - 2004)  
<http://www.ncbi.nlm.nih.gov/pubmed/15118485?dopt=Abstract>

[123I]AM281 single-photon emission computed tomography imaging of central cannabinoid CB1 receptors before and after Delta9-tetrahydrocannabinol therapy and whole-body scanning for assessment of radiation dose in tourette patients. (abst – 2004) <http://www.ncbi.nlm.nih.gov/pubmed/15110734>

THC in marijuana may block the spread of forms of cancer causing herpes viruses (news - 2004) <http://www.news-medical.net/news/2004/09/22/4990.aspx>

Cannabis truly helps multiple sclerosis sufferers (news - 2004)  
(may need registration)  
<http://www.newscientist.com/article/dn6387-cannabis-truly-helps-multiple-sclerosis-sufferers.html>

Marijuana-like compounds may aid array of debilitating conditions ranging from Parkinson's to pain (news – 2004)  
[http://www.eurekalert.org/pub\\_releases/2004-10/sfn-mcm102604.php](http://www.eurekalert.org/pub_releases/2004-10/sfn-mcm102604.php)

Low dose oral cannabinoid therapy reduces progression of atherosclerosis in mice

(full - 2005) <http://www.nature.com/nature/journal/v434/n7034/full/nature03389.html>

Synergistic Interactions between Cannabinoids and Environmental Stress in the Activation of the Central Amygdala (full - 2005)  
<http://www.nature.com/npp/journal/v30/n3/full/1300535a.html>

Protective effects of  $\Delta$ 9-tetrahydrocannabinol against N-methyl-D-aspartate-induced AF5 cell death (full - 2005)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1824211/?tool=pmcentrez>

Cannabinoids and cancer: potential for colorectal cancer therapy. (full - 2005)  
<http://www.biochemsoctrans.org/bst/033/0712/bst0330712.htm>

The effects of  $\Delta$ 9-tetrahydrocannabinol in rat mesenteric vasculature, and its interactions with the endocannabinoid anandamide (full - 2005)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1576168/?tool=pmcentrez>

p38 MAPK is involved in CB2 receptor-induced apoptosis of human leukaemia cells. (full - 2005) <http://www.sciencedirect.com/science/article/pii/S0014579305010057>

Pharmacokinetics and metabolism of the plant cannabinoids, delta9-tetrahydrocannabinol, cannabidiol and cannabinol. (abst - 2005)  
<http://www.ncbi.nlm.nih.gov/pubmed/16596792>

Vascular effects of delta 9-tetrahydrocannabinol (THC), anandamide and N-arachidonoyldopamine (NADA) in the rat isolated aorta. (abst - 2005)  
<http://www.ncbi.nlm.nih.gov/pubmed/15659311>

Targeting cannabinoid receptors to treat leukemia: role of cross-talk between extrinsic and intrinsic pathways in Delta9-tetrahydrocannabinol (THC)-induced apoptosis of Jurkat cells (abst - 2005) <http://www.ncbi.nlm.nih.gov/pubmed/15978942>

Treatment of Tourette-syndrome with cannabinoids: results from clinical and neuroimaging studies (abst - 2005)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-2005-918789>

Cannabis may help keep arteries clear (news - 2005) (may need registration)  
<http://www.newscientist.com/article/mg18624956.000>

Medical marijuana: study shows that THC slows atherosclerosis (news - 2005)  
[http://thenexthurrah.typepad.com/the\\_next\\_hurrah/2005/04/medical\\_marijua.html](http://thenexthurrah.typepad.com/the_next_hurrah/2005/04/medical_marijua.html)

Science: THC slows development of atherosclerosis in animal study (news - 2005)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=190#1](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=190#1)

Cannabis Spray for Bipolar (news - 2005)  
<http://www.prohealth.com/me-cfs/blog/boardDetail.cfm?id=565511>



Chemicals in Cannabis may help mentally ill (news - 2005)  
<http://www.news-medical.net/news/2005/06/06/10716.aspx>

THC effective in appetite and weight loss in severe lung disease (COPD) (news - 2005)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=191#2](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=191#2)

New Synthetic Delta-9-THC Inhaler Offers Safe, Rapid Delivery , Phase I Study  
(news - 2005) <http://www.medicalnewstoday.com/articles/22937.php>

A pilot clinical study of Delta(9)-tetrahydrocannabinol in patients with recurrent glioblastoma multiforme. (full - 2006)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2360617/>

A tale of two cannabinoids:The therapeutic rationale for combining tetrahydrocannabinol and cannabidiol. (full - 2006)  
[http://mcforadhd.free.fr/Russo\\_Tale\\_of\\_Two\\_Cannabinoids\\_Med\\_Hypoth\\_2006.pdf](http://mcforadhd.free.fr/Russo_Tale_of_Two_Cannabinoids_Med_Hypoth_2006.pdf)

Comparison of orally administered cannabis extract and delta-9-tetrahydrocannabinol in treating patients with cancer-related anorexia-cachexia syndrome: a multicenter, phase III, randomized, double-blind, placebo-controlled clinical trial from the Cannabis-In-Cachexia-Study-Group (full - 2006) <http://jco.ascopubs.org/content/24/21/3394.long>

A Molecular Link between the Active Component of Marijuana and Alzheimer's Disease Pathology (full - 2006)  
<http://www.ukcia.org/research/AlzheimersDiseasePathology.pdf>

{Delta}9-Tetrahydrocannabinol Inhibits Cell Cycle Progression in Human Breast Cancer Cells through Cdc2 Regulation (full - 2006)  
<http://cancerres.aacrjournals.org/cgi/content/full/66/13/6615>

$\Delta$ 9-Tetrahydrocannabinol-Induced Apoptosis in Jurkat Leukemia T Cells Is Regulated by Translocation of Bad to Mitochondria (full - 2006)  
<http://mcr.aacrjournals.org/content/4/8/549.full>

Further Characterization of the Time-Dependent Vascular Effects of  $\Delta$ 9-Tetrahydrocannabinol (full - 2006) <http://jpet.aspetjournals.org/content/317/1/428.full>

Cannabinoids and the Endocannabinoid System (full - 2006)  
[http://www.cannabis-med.org/english/journal/en\\_2006\\_01\\_2.pdf](http://www.cannabis-med.org/english/journal/en_2006_01_2.pdf)

An Experimental Study of Catechol-O-Methyltransferase Val(158)Met Moderation of Delta-9-Tetrahydrocannabinol-Induced Effects on Psychosis and Cognition. (full - 2006) <http://www.nature.com/npp/journal/v31/n12/full/1301197a.html>

The Cannabinoid Cb1 Receptor Antagonist Rimonabant Attenuates the Hypotensive Effect of Smoked Marijuana in Male Smokers. (full - 2006)  
<http://www.ahjonline.com/article/S0002-8703%2805%2901013-6/fulltext>

Delta-9-tetrahydrocannabinol for nighttime agitation in severe dementia  
(full/ forum repost - 2006) <http://www.420magazine.com/forums/antiolytic-effects/149595-delta-9-tetrahydrocannabinol-nighttime-agitation-severe-dementia.html>

Differential effects of cannabis extracts and pure plant cannabinoids on hippocampal neurones and glia. (abst - 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16997463?dopt=Abstract>

Delta-9-THC based monotherapy in fibromyalgia patients on experimentally induced pain, axon reflex flare, and pain relief (abst - 2006)  
<http://www.ncbi.nlm.nih.gov/pubmed/16834825>

Delta(9)-Tetrahydrocannabinol protects hippocampal neurons from excitotoxicity  
(abst - 2006)  
[http://www.unboundmedicine.com/medline/ebm/record/17140550/abstract/Delta\\_9\\_Tetrahydrocannabinol\\_protects\\_hippocampal\\_neurons\\_from\\_excitotoxicity](http://www.unboundmedicine.com/medline/ebm/record/17140550/abstract/Delta_9_Tetrahydrocannabinol_protects_hippocampal_neurons_from_excitotoxicity)

The effects of cannabinoids on P-glycoprotein transport and expression in multidrug resistant cells. (abst - 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16458258>

The treatment of spasticity with Delta(9)-tetrahydrocannabinol in persons with spinal cord injury. (abst - 2006)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=166](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=166)

Methods evaluating cannabinoid and endocannabinoid effects on gastrointestinal functions. (abst - 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16506408>

Safety and efficacy of a novel cannabinoid chemotherapeutic, KM-233, for the treatment of high-grade glioma. (abst - 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16314952>

THC and prochlorperazine effective in reducing vomiting in women following breast surgery (news - 2006)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=219#1](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=219#1)

Marijuana's Active Ingredient Shown to Inhibit Primary Marker of Alzheimer's Disease (news - 2006) [http://www.scripps.edu/newsandviews/e\\_20060828/news.html](http://www.scripps.edu/newsandviews/e_20060828/news.html)

THC inhibits primary marker of Alzheimer's disease (news - 2006)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=225#3](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=225#3)

Cannabis destroys cancer cells (news - 2006)  
<http://www.news-medical.net/news/2006/03/01/16340.aspx>

Cesamet, THC and chemotherapy (news - 2006)  
<http://www.sciencebase.com/science-blog/cesamet-thc.html>

The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids:  $\Delta$ 9-tetrahydrocannabinol, cannabidiol and  $\Delta$ 9-tetrahydrocannabivarin (full - 2007)

[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219532/?tool=pubmed&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_SingleItemSupl.Pubmed\\_DiscoveryDbLinks&ordinalpos=1](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219532/?tool=pubmed&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_SingleItemSupl.Pubmed_DiscoveryDbLinks&ordinalpos=1)

Cross-sensitization and cross-tolerance between exogenous cannabinoid antinociception and endocannabinoid-mediated stress-induced analgesia (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2771679/?tool=pubmed>

The Endogenous Cannabinoid Anandamide Produces  $\delta$ -9-Tetrahydrocannabinol-Like Discriminative and Neurochemical Effects That Are Enhanced by Inhibition of Fatty Acid Amide Hydrolase but Not by Inhibition of Anandamide Transport (full - 2007)

<http://jpet.aspetjournals.org/content/321/1/370.full>

Opioid Antagonism of Cannabinoid Effects: Differences between Marijuana Smokers and Nonmarijuana Smokers (full - 2007)

<http://www.nature.com/npp/journal/v32/n6/full/1301243a.html>

The psychoactive plant cannabinoid, Delta9-tetrahydrocannabinol, is antagonized by Delta8- and Delta9-tetrahydrocannabivarin in mice in vivo. (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189766/?tool=pubmed>

Anandamide and Delta9-tetrahydrocannabinol directly inhibit cells of the immune system via CB2 receptors. (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2083705/?tool=pubmed>

CB2 receptors in the brain: role in central immune function (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219530/?tool=pmcentrez>

$\Delta$ 9-Tetrahydrocannabinol (THC) and AM 404 protect against cerebral ischaemia in gerbils through a mechanism involving cannabinoid and opioid receptors (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189998/?tool=pmcentrez>

Low dose combination of morphine and  $\Delta$ 9-tetrahydrocannabinol circumvents antinociceptive tolerance and apparent desensitization of receptors (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2040345/>

The cannabinoid delta(9)-tetrahydrocannabinol inhibits RAS-MAPK and PI3K-AKT survival signalling and induces BAD-mediated apoptosis in colorectal cancer cells.

(full - 2007) <http://onlinelibrary.wiley.com/doi/10.1002/ijc.22917/pdf>

On the pharmacological properties of Delta9-tetrahydrocannabinol (THC).

(abst - 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17712813>

The antinociceptive effect of Delta9-tetrahydrocannabinol in the arthritic rat involves the CB(2) cannabinoid receptor. (abst - 2007)

[http://www.unboundmedicine.com/medline/ebm/record/17588560/abstract/The\\_antinociceptive\\_effect\\_of\\_Delta9\\_tetrahydrocannabinol\\_in\\_the\\_arthritic\\_rat\\_involves\\_the\\_CB\\_2\\_cannabinoid\\_receptor](http://www.unboundmedicine.com/medline/ebm/record/17588560/abstract/The_antinociceptive_effect_of_Delta9_tetrahydrocannabinol_in_the_arthritic_rat_involves_the_CB_2_cannabinoid_receptor)

THC improves appetite and reverses weight loss in AIDS patients (abst - 2007)

[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=189](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=189)

Repeated Treatment with Cannabidiol but Not Delta9-tetrahydrocannabinol Has a Neuroprotective Effect Without the Development of Tolerance (abst - 2007)  
<http://www.ncbi.nlm.nih.gov/pubmed/17320118>

Synergy between Delta(9)-tetrahydrocannabinol and morphine in the arthritic rat (abst - 2007)  
[http://www.unboundmedicine.com/medline/ebm/record/17498686/abstract/Synergy\\_between\\_Delta\\_9\\_tetrahydrocannabinol\\_and\\_morphine\\_in\\_the\\_arthritic\\_rat](http://www.unboundmedicine.com/medline/ebm/record/17498686/abstract/Synergy_between_Delta_9_tetrahydrocannabinol_and_morphine_in_the_arthritic_rat)

Delta(9)-tetrahydrocannabinol (Delta(9)-THC) prevents cerebral infarction via hypothalamic-independent hypothermia. (abst - 2007)  
[http://www.unboundmedicine.com/medline/ebm/record/17289082/abstract/Delta\\_9\\_tetrahydrocannabinol\\_Delta\\_9\\_THC\\_prevents\\_cerebral\\_infarction\\_via\\_hypothalamic\\_independent\\_hypothermia](http://www.unboundmedicine.com/medline/ebm/record/17289082/abstract/Delta_9_tetrahydrocannabinol_Delta_9_THC_prevents_cerebral_infarction_via_hypothalamic_independent_hypothermia)

Symptomatic treatment of multiple sclerosis using cannabinoids: recent advances. (abst - 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17868014>

Medicinal chemistry endeavors around the phytocannabinoids. (abst - 2007)  
<http://www.ncbi.nlm.nih.gov/pubmed/17712816>

Effects of a Selective Cannabinoid Agonist and Antagonist on Body Temperature in Rats (abst - 2007)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/21/5/A409?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourceType=HWCIT](http://www.fasebj.org/cgi/content/meeting_abstract/21/5/A409?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourceType=HWCIT)

Cannabinoid receptor agonists are mitochondrial inhibitors: a unified hypothesis of how cannabinoids modulate mitochondrial function and induce cell death. (abst - 2007)  
<http://www.ncbi.nlm.nih.gov/pubmed/17931597>

Pot's Active Ingredient Halts Lung Cancer Growth, Study Says (news - 2007)  
<http://www.illinoisnorml.org/content/view/529/27/>

The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids:  $\Delta$ 9-tetrahydrocannabinol, cannabidiol and  $\Delta$ 9-tetrahydrocannabivarin (full - 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219532/>

$\Delta$ 9-Tetrahydrocannabinol Content of Commercially Available Hemp Products (full - 2008) [https://secure.manitobaharvest.com/images/uploads/pages/File/thc\\_study\\_jat\\_2008.pdf](https://secure.manitobaharvest.com/images/uploads/pages/File/thc_study_jat_2008.pdf)

Divergent effects of cannabidiol on the discriminative stimulus and place conditioning effects of  $\Delta$ 9-tetrahydrocannabinol (full - 2008)  
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2279017>

Attenuation of Experimental Autoimmune Hepatitis by Exogenous and Endogenous Cannabinoids: Involvement of Regulatory T Cells (full - 2008)  
<http://molpharm.aspetjournals.org/content/74/1/20.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourceType=HWCIT#content-block>

Cannabinoids in the management of difficult to treat pain (full - 2008)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2503660/?tool=pmcentrez>

Cannabinoid receptors in acute and chronic complications of atherosclerosis

(full - 2008) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219535/?tool=pmcentrez>

Antibacterial cannabinoids from Cannabis sativa: a structure-activity study. (full - 2008)

<http://www.scribd.com/doc/7718968/Antibacterial-Cannabinoids-From-Cannabis-Sativa-A-StructureActivity-Study>

The cannabinoid delta-9-tetrahydrocannabinol mediates inhibition of macrophage chemotaxis to RANTES/CCL5: linkage to the CB2 receptor. (full – 2008)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2677557/>

Plant-derived cannabinoids modulate the activity of transient receptor potential channels of ankyrin type-1 and melastatin type-8. (full - 2008)

<http://jpet.aspetjournals.org/content/325/3/1007.long>

Delta-9-tetrahydrocannabinol pharmacokinetics (abst - 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18847571>

Cytotoxic and NF- $\kappa$ B-modulating effects of cannabis constituents (abst – 2008)

<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0028-1084227>

High concentrations of cannabinoids activate apoptosis in human U373MG glioma cells.

(abst - 2008) <http://www.ncbi.nlm.nih.gov/pubmed/18615640>

Effect of intrapulmonary tetrahydrocannabinol administration in humans. (abst - 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18515447>

Down-regulation of tissue inhibitor of metalloproteinases-1 in gliomas: a new marker of cannabinoid antitumoral activity? (abst - 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/17675107>

Science: THC reduces reflux of acid from the stomach (news – 2008)

[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=285](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=285)

CSI: fingerprinting and drug detection in one (news – 2008)

<http://arstechnica.com/science/2008/12/csi-fingerprinting-and-drug-detection-in-one/>

Synthetic and plant-derived cannabinoid receptor antagonists show hypophagic properties in fasted and non-fasted mice (full - 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697695/?tool=pubmed>

Delta 9-tetrahydrocannabinol induces dopamine release in the human striatum.

(full - 2009) <http://www.nature.com/npp/journal/v34/n3/full/npp2008138a.html>

Cannabinoids  $\Delta$ 9-Tetrahydrocannabinol and Cannabidiol Differentially Inhibit the Lipopolysaccharide-activated NF- $\kappa$ B and Interferon- $\beta$ /STAT Proinflammatory Pathways in BV-2 Microglial Cells (full – 2009)

<http://www.jbc.org/content/285/3/1616.full?sid=43211ca4-a4aa-4182-a554-d15e2835e288>

Hydroxylation and Further Oxidation of  $\Delta$ 9-Tetrahydrocannabinol by Alkane-Degrading Bacteria (full - 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2786519/?tool=pmcentrez>

Cannabinoids, Endocannabinoids, and Related Analogs in Inflammation (full - 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2664885/?tool=pubmed>

Cannabinoid Receptor 1 Binding Activity and Quantitative Analysis of Cannabis sativa L. Smoke and Vapor (full – 2009) [https://www.jstage.jst.go.jp/article/cpb/58/2/58\\_2\\_201/\\_pdf](https://www.jstage.jst.go.jp/article/cpb/58/2/58_2_201/_pdf)

Opposite Effects of Delta-9-Tetrahydrocannabinol and Cannabidiol on Human Brain Function and Psychopathology. (full - 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3055598/pdf/npp2009184a.pdf>

Evaluation of Prevalent Phytocannabinoids in the Acetic Acid Model of Visceral Nociception (full – 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2765124/?tool=pubmed>

Tetrahydrocannabinol (Delta 9-THC) Treatment in Chronic Central Neuropathic Pain and Fibromyalgia Patients: Results of a Multicenter Survey (full - 2009)

<http://www.hindawi.com/journals/arp/2009/827290.html>

Actions of delta-9-tetrahydrocannabinol in cannabis (full - 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2731700/?tool=pmcentrez>

Cannabinoid receptor 1 is a potential drug target for treatment of translocation-positive rhabdomyosarcoma (full - 2009) <http://mct.aacrjournals.org/content/8/7/1838.full>

TRB3 links ER stress to autophagy in cannabinoid anti-tumoral action. (full – 2009)

<http://www.landesbioscience.com/journals/autophagy/SalazarAUTO5-7.pdf>

Cannabinoid action induces autophagy-mediated cell death through stimulation of ER stress in human glioma cells. (full - 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2673842/pdf/JCI37948.pdf>

THC can improve symptoms of schizophrenia (article– 2009)

[http://www.cannabis-med.org/data/pdf/en\\_2009\\_04\\_1\\_0.pdf](http://www.cannabis-med.org/data/pdf/en_2009_04_1_0.pdf)

Cannabidiol reverses the reduction in social interaction produced by low dose Delta(9)-tetrahydrocannabinol in rats. (abst – 2009) <http://www.ncbi.nlm.nih.gov/pubmed/19393686>

Neurocognitive performance during acute THC intoxication in heavy and occasional cannabis users. (abst - 2009)

[http://www.ncbi.nlm.nih.gov/pubmed/18719045?ordinalpos=44&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_DefaultReportPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/18719045?ordinalpos=44&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)

Central side-effects of therapies based on CB1 cannabinoid receptor agonists and antagonists: focus on anxiety and depression. (abst – 2009)

<http://www.ncbi.nlm.nih.gov/pubmed/19285266>

Modulation of effective connectivity during emotional processing by Delta9-tetrahydrocannabinol and cannabidiol. (abst - 2009)

[http://www.ncbi.nlm.nih.gov/pubmed/19775500?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_DefaultReportPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/19775500?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)

Amphiregulin is a factor for resistance of glioma cells to cannabinoid-induced apoptosis (abst – 2009)

<http://www.ncbi.nlm.nih.gov/pubmed/19229996>

Active cannabis chemicals halt prostate cancer cell growth (news - 2009)

<http://www.news-medical.net/news/20090908/Active-cannabis-chemicals-halt-prostate-cancer-cell-growth.aspx>

Marijuana Chemicals Ease MS Symptoms, Review Confirms (news - 2009)

<http://www.drugfree.org/uncategorized/marijuana-chemicals-ease-ms>

THC initiates brain cancer cells to destroy themselves (news - 2009)

[http://www.worldhealth.net/news/thc\\_initiates\\_brain\\_cancer\\_cells\\_to\\_dest/](http://www.worldhealth.net/news/thc_initiates_brain_cancer_cells_to_dest/)

Active Component Of Marijuana Has Anti-Cancer Effects, Study Suggests

(news - 2009) <http://www.sciencedaily.com/releases/2009/04/090401181217.htm>

Cannabinoids reduce ErbB2-driven breast cancer progression through Akt inhibition

(full - 2010) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2917429/?tool=pmcentrez>

Antitumorigenic Effects of Cannabinoids beyond Apoptosis (full - 2010)

<http://jpet.aspetjournals.org/content/332/2/336.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17>

Cannabinoid receptor CB1 mediates baseline and activity-induced survival of new neurons in adult hippocampal neurogenesis (full - 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2898685/?tool=pmcentrez>

Therapeutical use of the cannabinoids in psychiatry (full – 2010)

[http://www.scielo.br/scielo.php?script=sci\\_arttext&pid=S1516-44462010000500009&lng=en&nrm=iso&tlng=en](http://www.scielo.br/scielo.php?script=sci_arttext&pid=S1516-44462010000500009&lng=en&nrm=iso&tlng=en)

Effect of (-)-Delta(9)-tetrahydrocannabinoid on the hepatic redox state of mice.

(full – 2010)

[http://www.scielo.br/scielo.php?script=sci\\_arttext&pid=S0100-879X2010007500015&lng=en&nrm=iso&tlng=en](http://www.scielo.br/scielo.php?script=sci_arttext&pid=S0100-879X2010007500015&lng=en&nrm=iso&tlng=en)

The effects of Delta-tetrahydrocannabinol and cannabidiol alone and in combination on damage, inflammation and in vitro motility disturbances in rat colitis. (full - 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931570/?tool=pubmed>

Smoked cannabis for chronic neuropathic pain: a randomized controlled trial  
(full - 2010) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2950205/?tool=pmcentrez>

Antidepressant-like effect of Delta(9)-tetrahydrocannabinol and other cannabinoids  
isolated from Cannabis sativa L. (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2866040/?tool=pubmed>

Cannabinoid Administration Attenuates the Progression of Simian Immunodeficiency  
Virus (full - 2010) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3131805/>

Disposition of Cannabichromene, Cannabidiol, and  $\Delta^9$ -Tetrahydrocannabinol and its  
Metabolites in Mouse Brain following Marijuana Inhalation Determined by High-  
Performance Liquid Chromatography-Tandem Mass Spectrometry (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3023979/>

International Union of Basic and Clinical Pharmacology. LXXIX. Cannabinoid  
Receptors and Their Ligands: Beyond CB1 and CB2 (full – 2010)  
<http://pharmrev.aspetjournals.org/content/62/4/588.full.pdf+html>

Modulation of Adipocyte Biology by  $\Delta^9$ -Tetrahydrocannabinol (full - 2010)  
<http://onlinelibrary.wiley.com/doi/10.1038/oby.2010.100/full>

Delta9-tetrahydrocannabinol is a full agonist at CB1 receptors on GABA neuron axon  
terminals in the hippocampus. (full – 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2882293/pdf/nihms200194.pdf>

Pharmacological evaluation of the natural constituent of Cannabis sativa,  
cannabichromene and its modulation by  $\Delta^9$ -tetrahydrocannabinol (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2967639/>

Regulation of nausea and vomiting by cannabinoids (full - 2010)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2010.01176.x/pdf>

Impact of cannabidiol on the acute memory and psychotomimetic effects of smoked  
cannabis: naturalistic study. (full - 2010) <http://bjp.repsych.org/content/197/4/285.long>

Anti-tumoural effects of cannabinoid combinations - Patent TW201002315 (A) —  
2010-01-16 (full – 2010)  
[http://worldwide.espacenet.com/publicationDetails/description?CC=TW&NR=201002315A&KC=A&FT=D&ND=3&date=20100116&DB=EPODOC&locale=en\\_EP](http://worldwide.espacenet.com/publicationDetails/description?CC=TW&NR=201002315A&KC=A&FT=D&ND=3&date=20100116&DB=EPODOC&locale=en_EP)

Mechanisms of Broad-Spectrum Antiemetic Efficacy of Cannabinoids against  
Chemotherapy-Induced Acute and Delayed Vomiting (link to PDF – 2010)  
<http://www.mdpi.com/1424-8247/3/9/2930>

Cannabinoids Inhibit Cellular Respiration of Human Oral Cancer Cells (abst - 2010)



<http://www.ncbi.nlm.nih.gov/pubmed/20516734>

Multicenter, double-blind, randomized, placebo-controlled, parallel-group study of the efficacy, safety, and tolerability of THC:CBD extract and THC extract in patients with intractable cancer-related pain. (abst - 2010) <http://www.ncbi.nlm.nih.gov/pubmed/19896326>

The dual effects of delta(9)-tetrahydrocannabinol on cholangiocarcinoma cells: anti-invasion activity at low concentration and apoptosis induction at high concentration. (abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/19916793>

The results of an experimental indoor hydroponic Cannabis growing study, using the 'Screen of Green' (ScrOG) method-Yield, tetrahydrocannabinol (THC) and DNA analysis. (abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20462712>

Chronic cannabinoid administration lowers viral replication in lymph nodes of SIV infected Rhesus macaques (abst - 2010)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/24/1\\_MeetingAbstracts/752.6?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=720&resourcetype=HWCIT](http://www.fasebj.org/cgi/content/meeting_abstract/24/1_MeetingAbstracts/752.6?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=720&resourcetype=HWCIT)

Exposure to a high-fat diet decreases sensitivity to  $\Delta$ 9-tetrahydrocannabinol-induced motor effects in female rats (abst - 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20850461>

THC Prevents MDMA Neurotoxicity in Mice. (abst - 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20174577>

Tetrahydrocannabinol (THC) for cramps in amyotrophic lateral sclerosis: a randomised, double-blind crossover trial. (abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20498181>

Characterization of major phytocannabinoids, cannabidiol and cannabinol, as isoform-selective and potent inhibitors of human CYP1 enzymes. (abst – 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20117100>

A behavioural comparison of acute and chronic Delta9-tetrahydrocannabinol and cannabidiol in C57BL/6JArc mice. (abst – 2010)  
[http://www.unboundmedicine.com/medline/ebm/record/19785914/abstract/A\\_behavioural\\_comparison\\_of\\_acute\\_and\\_chronic\\_Delta9\\_tetrahydrocannabinol\\_and\\_cannabidiol\\_in\\_C57BL/6JArc\\_mice](http://www.unboundmedicine.com/medline/ebm/record/19785914/abstract/A_behavioural_comparison_of_acute_and_chronic_Delta9_tetrahydrocannabinol_and_cannabidiol_in_C57BL/6JArc_mice)

Assessment of the Genetic Stability of Micropropagated Plants of Cannabis sativa by ISSR Markers (abst – 2010)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0029-1185945>

Oral Delta 9-tetrahydrocannabinol improved refractory Gilles de la Tourette syndrome in an adolescent by increasing intracortical inhibition: a case report. (abst - 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20520294>

Tocolytic Effect of  $\Delta$ 9-Tetrahydrocannabinol in Mice Model of Lipopolysaccharide—Induced Preterm Delivery: Role of Nitric Oxide (abst - 2010)  
<http://rsx.sagepub.com/content/17/4/391.abstract>

Activity-based anorexia in C57/BL6 mice: effects of the phytocannabinoid, Delta9-tetrahydrocannabinol (THC) and the anandamide analogue, OMDM-2. (abst – 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20471226>

Key ingredient staves off marijuana memory loss (news - 2010)  
[http://www.nature.com/news/2010/101001/full/news.2010.508.html?s=news\\_rss](http://www.nature.com/news/2010/101001/full/news.2010.508.html?s=news_rss)

Marijuana May Extend Life Expectancy Of Lou Gehrig's Disease Patients, Study Says (news - 2010) [http://www.norml.org/index.cfm?Group\\_ID=8191](http://www.norml.org/index.cfm?Group_ID=8191)

Study: Smoking pot may ease chronic pain (news - 2010)  
<http://www.cnn.com/2010/HEALTH/08/30/health.pot.reduce.pain/>

Science: Cannabidiol enhances the anti-cancer effects of THC on human brain cancer cells (news – 2010)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=313#3](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=313#3)

Science: Cannabis effective in the treatment of TOURETTE Syndrome and attention deficit hyperactivity disorder (ADHD) (news – 2010)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=323&search\\_pattern=tourette#2](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=323&search_pattern=tourette#2)

A New Use for Medical Marijuana? (news – 2010)  
<http://consults.blogs.nytimes.com/2010/03/31/a-new-use-for-medical-marijuana/>

Targeting cannabinoid receptors as a novel approach in the treatment of graft-versus-host disease: Evidence from an experimental murine model. (full – 2011)  
<http://jpet.aspetjournals.org/content/early/2011/06/14/jpet.111.182717.long>

Evaluation of the Cyclooxygenase Inhibiting Effects of Six Major Cannabinoids Isolated from Cannabis sativa (full – 2011)  
[https://www.jstage.jst.go.jp/article/bpb/34/5/34\\_5\\_774/pdf](https://www.jstage.jst.go.jp/article/bpb/34/5/34_5_774/pdf)

Delta-9-tetrahydrocannabinol may palliate altered chemosensory perception in cancer patients: results of a randomized, double-blind, placebo-controlled pilot trial (full – 2011) <http://annonc.oxfordjournals.org/content/early/2011/02/11/annonc.mdq727.full>

Pretreatment with  $\Delta$ 9-tetrahydrocannabinol (THC) increases cocaine-stimulated activity in adolescent but not adult male rats (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3242894/pdf/nihms328208.pdf>

Taming THC: potential cannabis synergy and phytocannabinoid-terpenoid entourage effects. (full - 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165946/>

Inhibition of monoacylglycerol lipase (MAGL) attenuates NSAID-induced gastric hemorrhages in mice. (full – 2011)  
<http://jpet.aspetjournals.org/content/early/2011/06/09/jpet.110.175778.long>

Prospects for cannabinoid therapies in basal ganglia disorders. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165947/>

Modulation of Auditory and Visual Processing by Delta-9-Tetrahydrocannabinol and Cannabidiol: an fMRI Study. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3096803/>

The fatty acid amide hydrolase inhibitor URB 597: interactions with anandamide in rhesus monkeys. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3188916/pdf/bph0164-0655.pdf>

Neurophysiological functioning of occasional and heavy cannabis users during THC intoxication. (full – 2011)  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3285765/pdf/213\\_2011\\_Article\\_2479.pdf](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3285765/pdf/213_2011_Article_2479.pdf)

Influence of agroclimatic conditions on content of main cannabinoids in industrial hemp (*Cannabis sativa* L.) (full– 2011)  
<http://www.doiserbia.nb.rs/img/doi/0534-0012/2011/0534-00121103449S.pdf>

Heterogeneity in the composition of marijuana seized in California. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3118261/pdf/nihms-271313.pdf>

Differential transcriptional profiles mediated by exposure to the cannabinoids cannabidiol and  $\Delta(9)$ -tetrahydrocannabinol in BV-2 microglial cells (full – 2011)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2011.01461.x/pdf>

Sex Differences in Cannabinoid 1 vs. Cannabinoid 2 Receptor-Selective Antagonism of Antinociception Produced by  $\Delta 9$ -Tetrahydrocannabinol and CP55,940 in the Rat (full – 2011) <http://jpet.aspetjournals.org/content/340/3/787.full>

Cannabinoid Neuroimmune Modulation of SIV Disease. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3208744/>

Clozapine and SCH 23390 prevent the spatial working memory disruption induced by  $\Delta 9$ -THC administration into the medial prefrontal cortex. (full – 2011)  
<http://www.sciencedirect.com/science/article/pii/S0006899311001533>

Effects of cannabinoids and cannabinoid-enriched Cannabis extracts on TRP channels and endocannabinoid metabolic enzymes. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165957/pdf/bph0163-1479.pdf>

Plasma cannabinoid pharmacokinetics following controlled oral delta9-tetrahydrocannabinol and oromucosal cannabis extract administration. (full– 2011)  
<http://www.clinchem.org/content/57/1/66.long>

Tolerance and cross-tolerance to neurocognitive effects of THC and alcohol in heavy cannabis users. (full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3045517/>

Tolerance to chronic delta-9-tetrahydrocannabinol ( $\Delta^9$ -THC) in rhesus macaques infected with simian immunodeficiency virus. (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3140653/>

US Patent Application 20110257256 - CANNABINOIDS FOR USE IN TREATING OR PREVENTING COGNITIVE IMPAIRMENT AND DEMENTIA (full - 2011)

<http://www.patentstorm.us/applications/20110257256/fulltext.html>

Cannabidiol potentiates  $\Delta(9)$ -tetrahydrocannabinol (THC) behavioural effects and alters THC pharmacokinetics during acute and chronic treatment in adolescent rats.

(abst - 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21667074>

Combined effects of THC and caffeine on working memory in rats. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21699509>

Behavioral alterations in cystic fibrosis mice are prevented by cannabinoid treatment in infancy (abst – 2011)

<http://www.degruyter.com/abstract/j/jbcpp.2011.22.issue-1-2/jbcpp.2011.005/jbcpp.2011.005.xml?rskey=wRYgJd&result=2&q=cannabinoid>

$\Delta(9)$ -THC and WIN55,212-2 affect brain tissue levels of excitatory amino acids in a phenotype-, compound-, dose-, and region-specific manner (abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21645556/abstract/%CE%94\\_9\\_THC\\_and\\_WIN55212\\_2\\_affect\\_brain\\_tissue\\_levels\\_of\\_excitatory\\_amino\\_acids\\_in\\_a\\_phenotype\\_compound\\_dose\\_and\\_region\\_specific\\_manner](http://www.unboundmedicine.com/medline/ebm/record/21645556/abstract/%CE%94_9_THC_and_WIN55212_2_affect_brain_tissue_levels_of_excitatory_amino_acids_in_a_phenotype_compound_dose_and_region_specific_manner)

Effects of synthetic cannabinoids on electroencephalogram power spectra in rats.

(abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21640532/abstract/Effects\\_of\\_synthetic\\_cannabinoids\\_on\\_electroencephalogram\\_power\\_spectra\\_in\\_rats](http://www.unboundmedicine.com/medline/ebm/record/21640532/abstract/Effects_of_synthetic_cannabinoids_on_electroencephalogram_power_spectra_in_rats)

THC and CBD oromucosal spray (Sativex®) in the management of spasticity associated with multiple sclerosis. (abst - 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21456949/abstract/THC\\_and\\_CBD\\_oromucosal\\_spray\\_Sativex%C2%AE\\_in\\_the\\_management\\_of\\_spasticity\\_associated\\_with\\_multiple\\_sclerosis](http://www.unboundmedicine.com/medline/ebm/record/21456949/abstract/THC_and_CBD_oromucosal_spray_Sativex%C2%AE_in_the_management_of_spasticity_associated_with_multiple_sclerosis)

Pharmacokinetics of a combination of  $\Delta 9$ -tetrahydro-cannabinol and celecoxib in a porcine model of hemorrhagic shock. (abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21341278/abstract/Pharmacokinetics\\_of\\_a\\_combination\\_of\\_%CE%949\\_tetrahydro\\_cannabinol\\_and\\_celecoxib\\_in\\_a\\_porcine\\_model\\_of\\_hemorrhagic\\_shock](http://www.unboundmedicine.com/medline/ebm/record/21341278/abstract/Pharmacokinetics_of_a_combination_of_%CE%949_tetrahydro_cannabinol_and_celecoxib_in_a_porcine_model_of_hemorrhagic_shock)

Pre- and post-conditioning treatment with an ultra-low dose of  $\Delta 9$ -tetrahydrocannabinol (THC) protects against pentylenetetrazole (PTZ)-induced cognitive damage.

(abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21315768>

VARIATIONS IN TERPENE PROFILES OF DIFFERENT STRAINS OF CANNABIS SATIVA L. (abst – 2011) [http://www.actahort.org/members/showpdf?booknrarnr=925\\_15](http://www.actahort.org/members/showpdf?booknrarnr=925_15)

Ingredient in cannabis restores taste for cancer patients (news – 2011)  
<http://phys.org/news/2011-02-ingredient-cannabis-cancer-patients.html>

Marijuana Compound Treats Multiple Health Issues (news – 2011)  
<http://www.foxnews.com/health/2010/03/10/cannabis-deficient/>

Another Study Confirms Anti-Cancer Effects of THC and CBD (news – 2011)  
<http://www.examiner.com/medical-marijuana-in-philadelphia/another-study-confirms-anti-cancer-effects-of-thc-and-cbd-1>

The Therapeutic Potential of Cannabis and Cannabinoids (full – 2012)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3442177/>

Targeting cannabinoid receptor CB2 in cardiovascular disorders: promises and controversies (full – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2012.02042.x/pdf>

Synaptic Targets of  $\Delta$ 9-Tetrahydrocannabinol in the Central Nervous System. (full – 2012)  
<http://perspectivesinmedicine.cshlp.org/content/early/2012/12/03/cshperspect.a012237.long>

The cannabinoid receptor agonist THC attenuates weight loss in a rodent model of activity-based anorexia. (full – 2012)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3096804/?tool=pubmed>

GPR18 in microglia: implications for the CNS and endocannabinoid system signaling (full – 2012) <http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2012.02019.x/full>

Towards the use of non-psychoactive cannabinoids for prostate cancer. (full – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2012.02121.x/pdf>

So what do we call GPR18 now? (full – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2011.01731.x/full>

$\Delta$ 9-Tetrahydrocannabinol and N-arachidonyl glycine are full agonists at GPR18 receptors and induce migration in human endometrial HEC-1B cells (full – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2011.01497.x/full>

Endocannabinoids in nervous system health and disease: the big picture in a nutshell (full – 2012) <http://rstb.royalsocietypublishing.org/content/367/1607/3193.full>

Rimonabant eliminates responsiveness to workload changes in a time-constrained food-reinforced progressive ratio procedure in rats. (full – 2012)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3387812/>

Cellular and intracellular mechanisms involved in the cognitive impairment of cannabinoids (full - 2012)  
<http://rstb.royalsocietypublishing.org/content/367/1607/3254.full?sid=1569c370-cd5c-4358-89ff-857201f5e069>

Review article: The endocannabinoid system in normal and pathological brain ageing  
(full – 2012)

<http://rstb.royalsocietypublishing.org/content/367/1607/3326.full?sid=161e7b36-5055-448b-962e-697c782e901d>

Involvement of the endocannabinoid system in reward processing in the human brain  
(full – 2012) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3266503/>

Diuretic effects of cannabinoids. (full – 2013)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3533417/>

Process for production of delta-9-tetrahydrocannabinol - Patent 8106244 (full – 2012)  
<http://www.patentstorm.us/patents/8106244/fulltext.html>

NANOENCAPSULATED DELTA-9-TETRAHYDROCANNABINOL - Patent  
US2012052119 (A1) — 2012-03-01 (full – 2012)  
[http://worldwide.espacenet.com/publicationDetails/description?CC=US&NR=2012052119A1&KC=A1&FT=D&ND=3&date=20120301&DB=EPODOC&locale=en\\_EP](http://worldwide.espacenet.com/publicationDetails/description?CC=US&NR=2012052119A1&KC=A1&FT=D&ND=3&date=20120301&DB=EPODOC&locale=en_EP)

Treatment of Tourette syndrome with cannabinoids. (link to PDF – 2012)  
<http://www.hindawi.com/journals/bn/2013/294264/abs/>

Cannabis derivatives therapy for a seronegative stiff-person syndrome: a case report.  
(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22726074>

$\Delta(9)$ -THC exerts a direct neuroprotective effect in a human cell culture model of  
Parkinson's disease. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22236282>

Effect of delta-9-tetrahydrocannabinol on behavioral despair and on presynaptic and  
postsynaptic serotonergic transmission. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22386778>

Heat Exposure of Cannabis sativa Extracts Affects the Pharmacokinetic and Metabolic  
Profile in Healthy Male Subjects. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22411724>

Cannabidiol inhibits THC-elicited paranoid symptoms and hippocampal-dependent  
memory impairment. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/23042808>

A critical review of the antipsychotic effects of Cannabidiol: 30 years of a translational  
investigation. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22716160>

Bimodal Control of Fear-Coping Strategies by CB1 Cannabinoid Receptors.  
(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22623656>

Effects of cannabinoids  $\Delta(9)$ -tetrahydrocannabinol,  $\Delta(9)$ -tetrahydrocannabinolic acid and  
cannabidiol in MPP(+) affected murine mesencephalic cultures. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22571976>

Acute effects of a single, oral dose of  $\Delta^9$ -tetrahydrocannabinol (THC) and cannabidiol (CBD) administration in healthy volunteers. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22716148>

Multiple Sclerosis and Extract of Cannabis: results of the MUSEC trial. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22791906>

A double-blind, randomized, placebo-controlled, parallel-group study of THC/CBD oromucosal spray in combination with the existing treatment regimen, in the relief of central neuropathic pain in patients with multiple sclerosis. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/23180178>

Effect of ion pairing on in vitro transcorneal permeability of a  $\Delta(9)$  -tetrahydrocannabinol prodrug: potential in glaucoma therapy. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/21989812>

Single-dose Pharmacokinetics and Tolerability of Oral Delta-9-Tetrahydrocannabinol in Patients with Amyotrophic Lateral Sclerosis. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22594565>

Cannabinoid facilitation of fear extinction memory recall in humans. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22796109>

Manipulating brain connectivity with  $\delta(9)$ -tetrahydrocannabinol: A pharmacological resting state fMRI study. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22885247>

Brain regional differences in CB1 receptor adaptation and regulation of transcription.

(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22940268>

Cannabinoid CB(1) receptor in the modulation of stress coping behaviour in mice: the role of serotonin and different forebrain neuronal subpopulations. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/23000076>

The periaqueductal gray contributes to bidirectional enhancement of antinociception between morphine and cannabinoids. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/23063785>

$\Delta^9$ -Tetrahydrocannabinol acts as a partial agonist/antagonist in mice. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/23075707>

$\Delta^9$ -Tetrahydrocannabinol Impairs the Inflammatory Response to Influenza Infection: Role of Antigen Presenting Cells and the Cannabinoid Receptors 1 and 2. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/23152191>

Acute effects of THC on time perception in frequent and infrequent cannabis users

(abst – 2012) <http://link.springer.com/article/10.1007%2Fs00213-012-2915-6>

What place for cannabis extract in MS? (abst – 2012)

<http://dtb.bmj.com/content/50/12/141.abstract>

Analysis of cannabinoids in laser-microdissected trichomes of medicinal Cannabis sativa using LCMS and cryogenic NMR. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/23280038>

Pharmacological modulation of the endocannabinoid signalling alters binge-type eating behaviour in female rats (abst – 2012)

<http://onlinelibrary.wiley.com/doi/10.1111/bph.12014/abstract>

Long-term behavioral and biochemical effects of an ultra-low dose of  $\Delta(9)$ -tetrahydrocannabinol (THC): neuroprotection and ERK signaling. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22821081>

Effects of ethanol,  $\Delta(9)$ -tetrahydrocannabinol, or their combination on object recognition memory and object preference in adolescent and adult male rats. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22959891>

Effects of delta-9-tetrahydrocannabinol on evaluation of emotional images

(abst – 2012) <http://jop.sagepub.com/content/26/10/1289.abstract>

Researchers study neuroprotective properties in cannabis (news - 2012)

<http://www.foxnews.com/health/2012/03/20/researchers-study-neuroprotective-properties-in-cannabis/>

Can medical marijuana help rheumatoid arthritis? (news – 2012)

<http://healthyliving.msn.com/diseases/rheumatoid-arthritis/can-medical-marijuana-help-rheumatoid-arthritis-1>

Cannabinoids May Help Prevent MDMA induced brain damage (news – 2012)

<http://www.examiner.com/article/cannabinoids-may-help-prevent-mdma-induced-brain-damage>

Simple Method: Isolating & Extracting INDIVIDUAL Cannabinoids... from

BadKittySmiles (forum post – 2012)

<http://forum.grasscity.com/incredible-edible-herb/1051569-simple-method-isolating-extracting-individual-cannabinoids-badkittysmiles.html>

Natural Cannabinoids Improve Dopamine Neurotransmission and Tau and Amyloid Pathology in a Mouse Model of Tauopathy. (full – 2013)

<http://iospress.metapress.com/content/4j61942x88175321/fulltext.html>

Local delivery of cannabinoid-loaded microparticles inhibits tumor growth in a murine xenograft model of glioblastoma multiforme. (full – 2013)

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0054795>

Modulating the endocannabinoid system in human health and disease: successes and failures (full – 2013)

<http://onlinelibrary.wiley.com/doi/10.1111/febs.12260/pdf>



A Phase I, open-label, randomized, crossover study in three parallel groups to evaluate the effect of Rifampicin, Ketoconazole, and Omeprazole on the pharmacokinetics of THC/CBD oromucosal spray in healthy volunteers (full – 2013)  
<http://www.springerplus.com/content/2/1/236>

Combined antiproliferative effects of the aminoalkylindole WIN55,212-2 and radiation in breast cancer cells. (full – 2013)  
<http://jpet.aspetjournals.org/content/early/2013/11/20/jpet.113.205120.long>

Distinct microRNA expression profile and targeted biological pathways in functional myeloid-derived suppressor cells induced by  $\Delta$ 9-Tetrahydrocannabinol in vivo: Regulation of CCAAT/enhancer binding protein alpha by microRNA-690. (full – 2013)  
<http://www.jbc.org/content/early/2013/11/07/jbc.M113.503037.long>

The effects of caffeine, nicotine, ethanol, and tetrahydrocannabinol on exercise performance (full – 2013) <http://www.nutritionandmetabolism.com/content/10/1/71>

Induction of the fatty acid 2-hydroxylase (FA2H) gene by  $\Delta$ 9-tetrahydrocannabinol in human breast cancer cells (full – 2013) [https://www.jstage.jst.go.jp/article/jts/38/2/38\\_305/\\_pdf](https://www.jstage.jst.go.jp/article/jts/38/2/38_305/_pdf)

Magnitude of stimulation dictates the cannabinoid-mediated differential T cell response to HIVgp120 (full – 2013) <http://www.jleukbio.org/content/92/5/1093.full>

Understanding the Molecular Aspects of Tetrahydrocannabinol and Cannabidiol as Antioxidants (link to PDF - 2013) <http://www.mdpi.com/1420-3049/18/10/12663>

Critical appraisal of the potential use of cannabinoids in cancer management. (link to PDF – 2013)  
<http://www.dovepress.com/critical-appraisal-of-the-potential-use-of-cannabinoids-in-cancer-man-a14216>

Amygdala activity contributes to the dissociative effect of cannabis on pain perception. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23273106>

Dissociation of the Pharmacological Effects of THC by mTOR Blockade. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23358238>

Differential Expression of Intracellular and Extracellular CB(2) Cannabinoid Receptor Protein by Human Peripheral Blood Leukocytes. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23299999>

Surinabant, a selective CB(1) antagonist, inhibits THC-induced central nervous system and heart rate effects in humans. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23278647>

Prior Exposure to THC Increases the Addictive Effects of Nicotine in Rats. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23314220>

$\Delta$ 9-tetrahydrocannabinol impairs the inflammatory response to influenza infection: role of antigen-presenting cells and the cannabinoid receptors 1 and 2. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23152191>

Endocannabinoid system modulator use in everyday clinical practice in the UK and Spain. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23369054>

A new multiple sclerosis spasticity treatment option: effect in everyday clinical practice and cost-effectiveness in Germany. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23369055>

Cannabis and  $\Delta$ (9)-tetrahydrocannabinol (THC) for weight loss? (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23410498>

Influence of Ethanol on the Pharmacokinetic Properties of  $\Delta$ 9-Tetrahydrocannabinol in Oral Fluid. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23429905>

Effect of Cannabinoid Receptor Activation on Spreading Depression. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23493641>

Non-psychotropic analgesic drugs from the endocannabinoid system: "magic bullet" or "multiple-target" strategies? (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23500197>

An ultra-low dose of tetrahydrocannabinol provides cardioprotection. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23537701>

Human metabolites of synthetic cannabinoids JWH-018 and JWH-073 bind with high affinity and act as potent agonists at cannabinoid type-2 receptors. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23537664>

Cannabidiol attenuates deficits of visuo-spatial associative memory induced by  $\Delta$ 9 tetrahydrocannabinol. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23550724>

The pseudokinase tribbles homologue-3 plays a crucial role in cannabinoid anticancer action. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23567453>

Hair analysis for THCA-A, THC and CBN after passive in vivo exposure to marijuana smoke. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23589391>

Involvement of PPAR $\gamma$  in the antitumoral action of cannabinoids on hepatocellular carcinoma. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23640460>

Tolerance and cross-tolerance among high-efficacy synthetic cannabinoids JWH-018 and JWH-073 and low-efficacy phytocannabinoid  $\Delta$ 9-THC (abst – 2013)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/27/1\\_MeetingAbstracts/1097.1?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad](http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1097.1?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad)

Additive antiemetic efficacy of  $\Delta$ 9-THC with vanilloid TRPV1 receptor agonists in the least shrew (*Cryptotis parva*) (abst - 2013)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/27/1\\_MeetingAbstracts/1093.20?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad](http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1093.20?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad)

Effects of anandamide and other CB1 ligands on cognitive function (abst – 2013)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/27/1\\_MeetingAbstracts/1097.10?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad](http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1097.10?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad)

Conditioned taste aversion elicited by synthetic cannabinoid JWH-018 in mice is attenuated by pretreatment with phytocannabinoid {Delta}9-THC (abst – 2013)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/26/1\\_MeetingAbstracts/660.4?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad](http://www.fasebj.org/cgi/content/meeting_abstract/26/1_MeetingAbstracts/660.4?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad)

Interrogating Therapeutic Manipulation of the Endocannabinoid System in Human Colon (abst – 2013)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/26/1\\_MeetingAbstracts/1123.1?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad](http://www.fasebj.org/cgi/content/meeting_abstract/26/1_MeetingAbstracts/1123.1?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad)

Does olanzapine inhibit the psychomimetic effects of  $\Delta$ 9-tetrahydrocannabinol? (abst – 2013) <http://jop.sagepub.com/content/26/10/1307.abstract>

Sex differences in anti-allodynic, anti-hyperalgesic and anti-edema effects of  $\Delta$ 9-tetrahydrocannabinol in the rat. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23707295>

Preparation and characterization of  $\Delta$ 9-tetrahydrocannabinol-loaded biodegradable polymeric microparticles and their antitumoral efficacy on cancer cell lines. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23773072>

Cannabinoids Inhibit T-cells via Cannabinoid Receptor 2 in an In Vitro Assay for Graft Rejection, the Mixed Lymphocyte Reaction. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23824763>

Intraperitoneal injection of  $\Delta$ 9-tetrahydrocannabinol induces local MDSCs with potent immunosuppressive properties (abst – 2013)  
[http://www.jimmunol.org/cgi/content/meeting\\_abstract/190/1\\_MeetingAbstracts/208.5?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf](http://www.jimmunol.org/cgi/content/meeting_abstract/190/1_MeetingAbstracts/208.5?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf)

CHANGES ON METABOLIC PARAMETERS INDUCED BY ACUTE CANNABINOID ADMINISTRATION (CBD, THC) IN A RAT EXPERIMENTAL MODEL OF NUTRITIONAL VITAMIN A DEFICIENCY. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23848113>

Palmitoylethanolamide: From endogenous cannabimimetic substance to innovative medicine for the treatment of cannabis dependence. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23896215>

Cannabinoids Decrease the Th17 Inflammatory Autoimmune Phenotype. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23892791>

The endocannabinoid system and emotional processing: A pharmacological fMRI study with  $\Delta^9$ -tetrahydrocannabinol (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23928295>

Therapeutic potential of cannabinoid medicines. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24006213>

Exercise increases plasma THC concentrations in regular cannabis users. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24018317>

Cannabinoid Effects on  $\beta$  Amyloid Fibril and Aggregate Formation, Neuronal and Microglial-Activated Neurotoxicity In Vitro (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24030360>

Towards a better Cannabis drug. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24024867>

Clinical experiences with cannabinoids in spasticity management in multiple sclerosis. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24035293>

Cannabinoid modulation of prefrontal-limbic activation during fear extinction learning and recall in humans. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24055595>

Distinct pharmacology and metabolism of K2 synthetic cannabinoids compared to  $\Delta^9$ -THC: Mechanism underlying greater toxicity? (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24084047>

Diuretic effects of cannabinoid agonists in mice. (abst – 2013)  
<http://www.sciencedirect.com/science/article/pii/S0014299913007176>

$\Delta^9$ -TETRAHYDROCANNABINOL IS PROTECTIVE THROUGH PPAR $\gamma$  DEPENDENT MITOCHONDRIAL BIOGENESIS IN A CELL CULTURE MODEL OF PARKINSON'S DISEASE. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24108924>

A review of the cultivation and processing of cannabis (*Cannabis sativa* L.) for production of prescription medicines in the UK. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24115748>

Reducing cannabinoid abuse and preventing relapse by enhancing endogenous brain levels of kynurenic acid. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24121737>

Additive antiemetic efficacy of low-doses of the cannabinoid CB1/2 receptor agonist  $\Delta^9$ -THC with ultralow-doses of the vanilloid TRPV1 receptor agonist resiniferatoxin in the least shrew (*Cryptotis parva*). (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24157976>

Exogenous cannabinoids as substrates, inhibitors, and inducers of human drug metabolizing enzymes: a systematic review. (abst – 2013)

<http://www.ncbi.nlm.nih.gov/pubmed/24160757>

Biochemical and immunohistochemical changes in delta-9-tetrahydrocannabinol-treated type 2 diabetic rats. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23845579>

The endocannabinoid system, cannabinoids, and pain (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/24228165>

Decreased Enteric Fatty Acid Amide Hydrolase Activity is Associated with Colonic Inertia in Slow Transit Constipation (abst – 2013)  
<http://onlinelibrary.wiley.com/doi/10.1111/jgh.12346/abstract>

LCMS Spectral Evidence of the Occurrence of Cannabinoid in Cannabis sativa Cell Cultures (abst – 2013)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1352335>

A Multiple-Dose, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group QT/QTc Study to Evaluate the Electrophysiologic Effects of THC/CBD Spray (abst – 2013) <http://onlinelibrary.wiley.com/doi/10.1002/cpdd.36/abstract>

Marijuana's dose-dependent effects in daily marijuana smokers. (abst – 2013)  
<http://www.ncbi.nlm.nih.gov/pubmed/23937597>

Neuritogenic Effects of Cannabinoids with Nerve Growth Factor (NGF) on PC12 Cells (abst – 2013) <https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1336533>

Study: THC Increases Brain Activity In Response To Positive Stimuli (news – 2013)  
<http://blog.norml.org/2013/08/27/study-thc-increases-brain-activity-in-response-to-positive-stimuli/>

Science/Human: THC reduces sleep apnoea in small clinical study (news – 2013)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=392&search\\_pattern=2013#2](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=392&search_pattern=2013#2)

Study: cannabis compound might have use as an HIV drug (news – 2013)  
<http://www.wired.co.uk/news/archive/2013-05/1/cannabis-hiv-drug>

Low Doses of THC (Cannabis) Can Halt Brain Damage, Study Suggests (news – 2013)  
<http://www.sciencedaily.com/releases/2013/05/130530132531.htm>

New Study: Cannabinoids Protect the Brain and Heart From Injury (news – 2013)  
[http://www.science20.com/news\\_articles/thc\\_can\\_prevent\\_brain\\_damage\\_study-113512](http://www.science20.com/news_articles/thc_can_prevent_brain_damage_study-113512)

Sending multiple sclerosis up in smoke (news – 2013)  
[http://www.eurekalert.org/pub\\_releases/2013-10/afot-sms100713.php](http://www.eurekalert.org/pub_releases/2013-10/afot-sms100713.php)

In Mice Anti-Inflammatories Ameliorate Medical Marijuana's Memory Mishaps (news – 2013)  
<http://news.yahoo.com/mice-anti-inflammatories-ameliorate-medical-marijuanas-memory-mishaps-165808519.html>

South Carolina researchers find THC in pot could turn microRNA on or off  
(news – 2013)

<http://medcitynews.com/2013/11/south-carolina-researchers-find-thc-pot-turn-micrna/>

Poor Sleep Quality Makes It Harder To Quit Marijuana — Here's Why (news – 2013)

<http://www.leafscience.com/2013/09/27/poor-sleep-quality-makes-harder-quit-marijuana-why/>

Neurotransmitters Studied as Way to Enhance PTSD Treatment (news – 2013)

<http://psychnews.psychiatryonline.org/newsarticle.aspx?articleid=1721754>

New Study: THC May Treat Inflammatory Diseases and Cancer By Altering Genes  
(news – 2013)

<http://thejointblog.com/new-study-thc-may-treat-inflammatory-diseases-cancer-altering-genes/>

Chemicals in marijuana 'protect nervous system' against MS (news – 2013)

<http://www.medicalnewstoday.com/articles/267161.php>

Drug Testing Gets Harder: Exercise Causes THC Levels To Spike (news – 2013)

<http://www.leafscience.com/2013/09/17/drug-testing-gets-harder-exercise-causes-thc-levels-spike/>

Marijuana's Memory Paradox (news/ forum repost – 2013)

<http://ehealthforum.com/health/interesting-t164409.html>

$\Delta(9)$ -THC and N-arachidonoyl glycine regulate BV-2 microglial morphology and cytokine release plasticity: implications for signaling at GPR18. (full - 2014)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3877838/>

Who Benefits Most from THC:CBD Spray? Learning from Clinical Experience.

(full – 2014)

<http://www.karger.com/Article/FullText/357743>

THC:CBD Spray and MS Spasticity Symptoms: Data from Latest Studies.

(full – 2014)

<http://www.karger.com/Article/FullText/357742>

Modulation of Gut-Specific Mechanisms by Chronic  $\Delta 9$ -THC Administration in Male Rhesus Macaques Infected with Simian Immunodeficiency Virus: A Systems Biology Analysis. (abst – 2014)

<http://www.ncbi.nlm.nih.gov/pubmed/24400995>

Clinical experience with THC:CBD oromucosal spray in patients with multiple sclerosis-related spasticity. (abst – 2014)

<http://www.ncbi.nlm.nih.gov/pubmed/24392812>

Acute administration of  $\Delta 9$  tetrahydrocannabinol does not prevent enhancement of sensory gating by clozapine in DBA/2 mice. (abst – 2014)

<http://www.ncbi.nlm.nih.gov/pubmed/24418217>

Cannabinoids inhibit cholinergic contraction in human airways through prejunctional CB1 receptors. (abst – 2014)

<http://www.ncbi.nlm.nih.gov/pubmed/24467410>

Profiling the subjective effects of  $\Delta^9$ -tetrahydrocannabinol using visual analogue scales. (abst – 2014) <http://www.ncbi.nlm.nih.gov/pubmed/24496889>

Active ingredient in pot sets off a feedback that reduces intoxication (news – 2014) <http://arstechnica.com/science/2014/01/active-ingredient-in-pot-sets-off-a-feedback-that-reduces-intoxication/>

### **THC ACID/ THCA** - non-psychoactive precursor of THC

The gene controlling marijuana psychoactivity: molecular cloning and heterologous expression of  $\Delta^1$ -tetrahydrocannabinolic acid synthase from *Cannabis sativa* L. (full – 2004) <http://www.jbc.org/content/279/38/39767.long>

Crystallization of  $\Delta^1$ -tetrahydrocannabinolic acid (THCA) synthase from *Cannabis sativa* (full - 2005) <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1952348&tool=pmcentrez>

Unheated *Cannabis sativa* extracts and its major compound THC-acid have potential immuno-modulating properties not mediated by CB1 and CB2 receptor coupled pathways. (full - 2006) <https://openaccess.leidenuniv.nl/bitstream/handle/1887/3744/07.pdf?sequence=6>

THC inhibits primary marker of Alzheimer's disease (news - 2006) [http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=225#3](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=225#3)

Identification and Characterization of Cannabinoids That Induce Cell Death through Mitochondrial Permeability Transition in *Cannabis* Leaf Cells (full – 2007) <http://www.jbc.org/content/282/28/20739.full?sid=a5db98db-ff96-4187-8790-57097bbe15c1>

Production of THC acid by the biosynthetic enzyme secreted from transgenic *Pichia pastoris*. (abst - 2007) <http://marijuana.researchtoday.net/archive/4/8/1331.htm>

Cannabinoids act as necrosis-inducing factors in *Cannabis sativa* (full - 2008) <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2634471&tool=pmcentrez>

Evaluation of Prevalent Phytocannabinoids in the Acetic Acid Model of Visceral Nociception (full – 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2765124/?tool=pubmed>

Studies on tetrahydrocannabinolic acid synthase that produces the acidic precursor of tetrahydrocannabinol, the pharmacologically active cannabinoid in marijuana (full – 2009) <http://www.ddtjournal.com/action/downloaddoc.php?docid=218>

Evaluation of the Cyclooxygenase Inhibiting Effects of Six Major Cannabinoids Isolated from Cannabis sativa (full – 2011)

[https://www.jstage.jst.go.jp/article/bpb/34/5/34\\_5\\_774/pdf](https://www.jstage.jst.go.jp/article/bpb/34/5/34_5_774/pdf)

Cannabis as a Unique Functional Food (full – 2011)

[http://apothecary-genetics.spruz.com/gfile/75r4!-!HLKELE!-!svyr5/cannabis\\_as\\_a\\_unique\\_functional\\_food.pdf](http://apothecary-genetics.spruz.com/gfile/75r4!-!HLKELE!-!svyr5/cannabis_as_a_unique_functional_food.pdf)

Effects of cannabinoids and cannabinoid-enriched Cannabis extracts on TRP channels and endocannabinoid metabolic enzymes. (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165957/pdf/bph0163-1479.pdf>

Immunochemical approach using monoclonal antibody against  $\Delta(9)$ -tetrahydrocannabinolic acid (THCA) to discern cannabis plants and to investigate new drug candidates. (link to PDF – 2011)

<http://www.eurekaselect.com/94339/article>

A real-time PCR assay for the relative quantification of the tetrahydrocannabinolic acid (THCA) synthase gene in herbal Cannabis samples (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/22093702>

Heat Exposure of Cannabis sativa Extracts Affects the Pharmacokinetic and Metabolic Profile in Healthy Male Subjects. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22411724>

Effects of cannabinoids  $\Delta(9)$ -tetrahydrocannabinol,  $\Delta(9)$ -tetrahydrocannabinolic acid and cannabidiol in MPP(+) affected murine mesencephalic cultures. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22571976>

Structure and Function of  $\Delta^1$ -Tetrahydrocannabinolic Acid (THCA) Synthase, the Enzyme Controlling the Psychoactivity of Cannabis sativa. (abst - 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22766313>

Differential Modulation by Delta(9)-Tetrahydrocannabinol ( $\Delta(9)$ -THC) of CD40 Ligand (CD40L) Expression in Activated Mouse Splenic CD4(+) T cells. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22851303>

Analysis of cannabinoids in laser-microdissected trichomes of medicinal Cannabis sativa using LCMS and cryogenic NMR. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/23280038>

In planta imaging of  $\Delta^9$ -tetrahydrocannabinolic acid in Cannabis sativa L. with hyperspectral coherent anti-Stokes Raman scattering microscopy (full – 2013)

<http://os.tnw.utwente.nl/publications/pdf/237.pdf>

Extraction of high quality DNA from seized moroccan cannabis resin (hashish).

(full – 2013)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3790795/>

Hair analysis for THCA-A, THC and CBN after passive in vivo exposure to marijuana smoke. (abst – 2013)

<http://www.ncbi.nlm.nih.gov/pubmed/23589391>



Analysis of THCA synthase gene expression in cannabis: A preliminary study by real-time quantitative PCR. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23890639>

Tetrahydrocannabinolic acid reduces nausea-induced conditioned gaping in rats and vomiting in *Suncus murinus*. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23889598>

LCMS Spectral Evidence of the Occurrence of Cannabinoid in *Cannabis sativa* Cell Cultures (abst – 2013)  
<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1352335>

New Study Finds THC Kills Stomach Cancer Cells (news – 2013)  
<http://thejointblog.com/new-study-finds-thc-may-treat-stomach-cancer/>

### **THC-HS /TETRAHYDROCANNABINOL-HEMISUCCINATE \***

Chemical Stabilization of a Delta9-Tetrahydrocannabinol Prodrug in Polymeric Matrix Systems Produced by a Hot-melt Method: Role of Microenvironment pH (full - 2006)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2750513/?tool=pubmed>

Preparation and characterization of inclusion complexes of a hemisuccinate ester prodrug of delta9-tetrahydrocannabinol with modified beta-cyclodextrins. (full – 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2902337/>

Effect of ion pairing on in vitro transcorneal permeability of a  $\Delta(9)$ -tetrahydrocannabinol prodrug: Potential in glaucoma therapy. (abst – 2011)  
[http://www.unboundmedicine.com/medline/ebm/record/21989812/abstract/Effect\\_of\\_ion\\_pairing\\_on\\_in\\_vitro\\_transcorneal\\_permeability\\_of\\_a\\_%CE%94\\_9\\_tetrahydrocannabinol\\_prodrug:\\_Potential\\_in\\_glaucoma\\_therapy](http://www.unboundmedicine.com/medline/ebm/record/21989812/abstract/Effect_of_ion_pairing_on_in_vitro_transcorneal_permeability_of_a_%CE%94_9_tetrahydrocannabinol_prodrug:_Potential_in_glaucoma_therapy)

Effect of ion pairing on in vitro transcorneal permeability of a  $\Delta(9)$ -tetrahydrocannabinol prodrug: potential in glaucoma therapy. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/21989812>

### **TETRAHYDROCANNABIORCOL** – activates the TRPA1 channel like acetaminophen does

Flavonoid glycosides and cannabinoids from the pollen of *Cannabis sativa* L. (abst – 2005)  
[http://www.ncbi.nlm.nih.gov/pubmed/15688956?ordinalpos=50&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_DefaultReportPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/15688956?ordinalpos=50&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)

TRPA1 mediates spinal antinociception induced by acetaminophen and the cannabinoid  $\Delta^9$ -tetrahydrocannabinol (abst – 2011)

<http://www.nature.com/ncomms/journal/v2/n11/full/ncomms1559.html>

## **THCV/ TETRAHYDROCANNABIVARIN/ GWP- 42006** \* CB1 & CB2 antagonist

Phytocannabinoids (news – undated)

<http://www.news-medical.net/health/Phytocannabinoids.aspx>

Delta9-tetrahydrocannabinol as a marker for the ingestion of marijuana versus Marinol: results of a clinical study (abst - 2001)

<http://www.unboundmedicine.com/medline/ebm/record/11599601/abstract/>

Plant cannabinoids: a neglected pharmacological treasure trove (full - 2005)

<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1751232&tool=pmcentrez>

Evidence that the plant cannabinoid  $\Delta^9$ -tetrahydrocannabinol is a cannabinoid CB1 and CB2 receptor antagonist (full - 2005)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751228/?tool=pubmed>

The psychoactive plant cannabinoid, Delta9-tetrahydrocannabinol, is antagonized by Delta8- and Delta9-tetrahydrocannabinol in mice in vivo. (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189766/?tool=pubmed>

The phytocannabinoid  $\Delta^9$ -tetrahydrocannabinol modulates inhibitory neurotransmission in the cerebellum (full – 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2438968/>

The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids:  $\Delta^9$ -tetrahydrocannabinol, cannabidiol and  $\Delta^9$ -tetrahydrocannabinol (full - 2008)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219532/>

Non-psychoactive plant cannabinoids: new therapeutic opportunities from an ancient herb (full - 2009)

<http://www.onlinepot.org/medical/Izzo%20Plant%20Cannabinoids%20Therapeutic%20Opportunities%20TIPS%202009.pdf>

Synthetic and plant-derived cannabinoid receptor antagonists show hypophagic properties in fasted and non-fasted mice (full - 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697695/?tool=pubmed>

Delta9-tetrahydrocannabinol testing may not have the sensitivity to detect marijuana use among individuals ingesting dronabinol. (full - 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2815025/?tool=pubmed>

The plant cannabinoid Delta9-tetrahydrocannabivarin can decrease signs of inflammation and inflammatory pain in mice. (full – 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931567/?tool=pubmed>

Delta-Tetrahydrocannabivarin suppresses in vitro epileptiform and in vivo seizure activity in adult rats. (abst - 2010)

<http://www.ncbi.nlm.nih.gov/pubmed/20196794>

Assessment of the Genetic Stability of Micropropagated Plants of Cannabis sativa by ISSR Markers (abst – 2010)

<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0029-1185945>

Anticonvulsant effects of GWP42006 in vitro and in vivo in rat (abst - 2010)

<http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2019C117>

Effects of cannabinoids and cannabinoid-enriched Cannabis extracts on TRP channels and endocannabinoid metabolic enzymes. (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165957/pdf/bph0163-1479.pdf>

Symptom-relieving and neuroprotective effects of the phytocannabinoid D(9) -THCV in animal models of Parkinson's disease (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165958/pdf/bph0163-1495.pdf>

Plasma and brain pharmacokinetic profile of cannabidiol (CBD), cannabidivarin (CBDV),  $\Delta(9)$ -tetrahydrocannabivarin (THCV) and cannabigerol (CBG) in rats and mice following oral and intraperitoneal administration and CBD action on obsessive-compulsive behaviour. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21796370>

CB(1) -independent mechanisms of  $\Delta(9)$  -THCV, AM251 and SR141716 (rimonabant). (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21740450>

New research provides hope for those with epilepsy (news - 2011)

<http://medicalxpress.com/news/2011-04-epilepsy.html>

Cannabis could help treat epilepsy # 1 (news – 2011)

<http://www.newkerala.com/news/world/fullnews-186693.html>

Cannabis could be used to treat epilepsy #2 (news – 2011)

<http://www.telegraph.co.uk/science/science-news/8440303/Cannabis-could-be-used-to-treat-epilepsy.html>

Pot Compound Exerts Anticonvulsant Effects In Animal Models Of Epilepsy

(news - 2011) [http://www.norml.org/index.cfm?Group\\_ID=8458](http://www.norml.org/index.cfm?Group_ID=8458)

The Endocannabinoid System and Plant-Derived Cannabinoids in Diabetes and Diabetic Complications (full – 2012)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3349875/>

Use of the phytocannabinoid cannabidivarin (cbdv) in the treatment of epilepsy: Patent Application 20120004251 (full – 2012)

<http://www.freshpatents.com/-dt20120105ptan20120004251.php>

$\Delta$ (8) -Tetrahydrocannabivarin protects against hepatic ischemia/reperfusion injury by attenuating oxidative stress and inflammatory response involving CB(2) receptors.

(full – 2011) <http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2011.01410.x/full>

GW Pharma Investment Summary (shows GW42006 is THCv) (report - 2012)

[https://docs.google.com/viewer?a=v&q=cache%3AFaPqL-KYKUQJ%3Awww.gwpharm.com%2Fuploads%2Fgwpharma290312update.pdf+&hl=en&gl=uk&pid=bl&srcid=ADGEESjz6IaINgQZ30IRSDA1hR\\_oT0Ee2y9cv7Lja4mG0T53YknfusaXFUs\\_IWaOObaROUjdkIgPxnt0GHmvW04DdDuIht7fwVf5ia-BIj3IM3YNBbXhQxaIlg-XJW\\_1AnHLnvTXMXem&sig=AHIEtbTKgja5QaLtUOv4IHtkp8ajDt5G0A](https://docs.google.com/viewer?a=v&q=cache%3AFaPqL-KYKUQJ%3Awww.gwpharm.com%2Fuploads%2Fgwpharma290312update.pdf+&hl=en&gl=uk&pid=bl&srcid=ADGEESjz6IaINgQZ30IRSDA1hR_oT0Ee2y9cv7Lja4mG0T53YknfusaXFUs_IWaOObaROUjdkIgPxnt0GHmvW04DdDuIht7fwVf5ia-BIj3IM3YNBbXhQxaIlg-XJW_1AnHLnvTXMXem&sig=AHIEtbTKgja5QaLtUOv4IHtkp8ajDt5G0A)

Phytocannabinoids as novel therapeutic agents in CNS disorders (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/21924288>

How marijuana could help cure obesity-related diseases (news – 2012)

<http://news.yahoo.com/marijuana-could-help-cure-obesity-related-diseases-175900182.html>

Cannabis can help treat obesity (news – 2012)

<http://in.news.yahoo.com/cannabis-help-treat-obesity-121931025.html>

5 Marijuana Compounds That Could Help Combat Cancer, Alzheimers, Parkinsons (If Only They Were Legal) (news – 2012)

<http://www.alternet.org/drugs/5-marijuana-compounds-could-help-combat-cancer-alzheimers-parkinsons-if-only-they-were-legal>

US Patent Application 20130245110 - USE FOR CANNABINOIDS (CBD/ THCv for cholesterol control) (full – 2013)

<http://www.patentstorm.us/applications/20130245110/fulltext.html>

The cannabinoid  $\Delta$ (9)-tetrahydrocannabivarin (THCv) ameliorates insulin sensitivity in two mouse models of obesity. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23712280>

Evaluation of the potential of the phytocannabinoids, cannabidivarin (CBDV) and  $\Delta$ 9 - tetrahydrocannabivarin (THCv), to produce CB1 receptor inverse agonism symptoms of nausea in rats. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23902479>

Neuritogenic Effects of Cannabinoids with Nerve Growth Factor (NGF) on PC12 Cells (abst – 2013)

<https://www.thieme-connect.com/ejournals/abstract/10.1055/s-0033-1336533>

### **TRANS-CARYOPHYLLENE** – CB 2 agonist

Activation of type 2 cannabinoid receptors (CB2R) promotes fatty acid oxidation through the SIRT1/PGC-1 $\alpha$  pathway. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23747418>

Activation of cannabinoid CB2 receptor-mediated AMPK/CREB pathway reduces cerebral ischemic injury. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/23414569>

The oral administration of trans-caryophyllene attenuates acute and chronic pain in mice. (abst – 2013) <http://www.ncbi.nlm.nih.gov/pubmed/24055516>

Activation of cortical type 2 cannabinoid receptors ameliorates ischemic brain injury (news – 2013) <http://www.sciencedaily.com/releases/2013/02/130221141140.htm>

Cannabinoid Trans-Caryophyllene Protects Brain Cells From Ischemia (news – 2013) <http://www.medicalnewstoday.com/articles/256799.php>

Trans-Caryophyllene Suppresses Hypoxia-Induced Neuroinflammatory Responses by Inhibiting NF- $\kappa$ B Activation in Microglia. (abst – 2014) <http://www.ncbi.nlm.nih.gov/pubmed/24488604>

A Role for Trans-caryophyllene in the Moderation of Insulin Secretion. (abst – 2014) <http://www.ncbi.nlm.nih.gov/pubmed/24486541>