

Cannabis  
A Remarkably Safe and Effective Herbal Medicine

## **Granny Storm Crow's MMJ Reference List- July 2012**

2012 is supposed to be a year of change, and the stage is set for the legalization of cannabis! The United States Court of Appeals for the D.C. Circuit has agreed to hear the arguments of the Americans for Safe Access against the Drug Enforcement Administration. While a recent Rasmussen poll of likely voters puts support for legalization at 56%. At PubMed, the number of new studies on cannabis, cannabinoids, and the endocannabinoid system is at an all-time high. Oregon, Washington, and Colorado have legalization on their ballots this fall. And even the conservative religious icon, Pat Robertson, has come out in favor of legalizing cannabis!

The repeal of cannabis prohibition is an idea whose time has clearly come!

One by one, the old prohibitionist's myths are falling by the wayside to be replaced by medical facts based on scientific research. But the things we learn as children are often hard to forget. Many people still believe the "facts" about cannabis that they were told in DARE assemblies in school. They are unaware of the medical potential of cannabis and how cannabis can supplement our body's own healing endocannabinoids.

This lack of knowledge can be fatal! Women need to know that CBD from cannabis can slow the progress of aggressive breast cancers. Everyone should be aware that when it comes to preventing Alzheimer's, THC greatly outperforms Aricept. And in the 1950s, it was discovered that a simple cannabis extract kills 100% of drug-resistant Staph aureus germs on contact. Drug-resistant Staph aureus is now called MRSA, the flesh-eating bacteria.

So why is none of this common knowledge? If it had been any other plant that had been proven to slow breast cancer, Alzheimer's and MRSA, with no serious side effects, it would be hailed as the miracle cure of the millennium! This prohibition foolishness has to end because it is costing people their lives, their health, their freedom and their peace of mind! I am hoping that my collection of studies and articles will help you educate those around you. We must end the ignorance!

I am not altogether happy with the number of studies in this List that are based on the synthetic cannabinoids, I would prefer to stick with the natural ones. Yet the synthetics are what the scientists prefer to use since the results are more consistent than those with "Cannabis sativa". However, the synthetics are merely imitations, or modifications, of the natural phytocannabinoids and endocannabinoids, and whatever a synthetic can do, a natural cannabinoid can also do.

The study of the endocannabinoid system and cannabinoids is the future of medicine. This collection provides ample proof of that. All we have to do is keep presenting the facts about cannabis and legalization will happen. Once the medical facts about cannabis become known, the need for legalization becomes obvious!

The truth is, cannabis is a remarkably safe and effective herbal medicine. And if the truth won't do, then something is wrong

It Is Time for Marijuana to Be Reclassified as Something Other Than a Schedule I Drug!  
(2005) <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1681626&tool=pmcentrez>

**ACEA/ ARACHIDONYL-2'-CHLOROETHYLAMIDE** - synthetic, CB1 agonist

Synthesis and characterization of potent and selective agonists of the neuronal cannabinoid receptor (CB1). (full – 1999) <http://jpet.aspetjournals.org/content/289/3/1427.long>

The cannabinoids R(-)-7-hydroxy-delta-6-tetra-hydrocannabinol-dimethylheptyl (HU-210), 2-O-arachidonoylglycerylether (HU-310) and arachidonyl-2-chloroethylamide (ACEA) increase isoflurane provoked sleep duration by activation of cannabinoid 1 (CB1)-receptors in mice. (abst – 2002) <http://www.ncbi.nlm.nih.gov/pubmed/12095655>

In vivo effects of CB1 receptor ligands on lipid peroxidation and antioxidant defense systems in the rat brain of healthy and ethanol-treated rats. (full – 2006) [http://www.if-pan.krakow.pl/pjp/pdf/2006/6\\_876.pdf](http://www.if-pan.krakow.pl/pjp/pdf/2006/6_876.pdf)

Differential effect of cannabinoid agonists and endocannabinoids on histamine release from distinct regions of the rat brain. (full – 2006) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1769340/?tool=pubmed>

Arachidonyl-2'-chloroethylamide, a highly selective cannabinoid CB1 receptor agonist, enhances the anticonvulsant action of valproate in the mouse maximal electroshock-induced seizure model. (abst – 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16930590>

Opposing control of cannabinoid receptor stimulation on amyloid-beta-induced reactive gliosis: in vitro and in vivo evidence. (full - 2007) <http://jpet.aspetjournals.org/content/322/3/1144.long>

Ultra-low dose cannabinoid antagonist AM251 enhances cannabinoid anticonvulsant effects in the pentylenetetrazole-induced seizure in mice. (abst – 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17870135>

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>

Cannabinoid modulation of cutaneous Adelta nociceptors during inflammation. (full – 2008) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2585399/?tool=pubmed>

Cannabinoid-mediated antinociception is enhanced in rat osteoarthritic knees. (full – 2008) <http://onlinelibrary.wiley.com/doi/10.1002/art.23156/full>

Cannabinoid receptor activation induces apoptosis through tumor necrosis factor alpha-mediated ceramide de novo synthesis in colon cancer cells. (full – 2008)  
<http://clincancerres.aacrjournals.org/content/14/23/7691.long>

Additive Interaction of the Cannabinoid Receptor I Agonist Arachidonyl-2-chloroethylamide with Etomidate in a Sedation Model in Mice (full – 2008)  
[http://journals.lww.com/anesthesiology/Fulltext/2008/04000/Additive Interaction of the Cannabinoid Receptor I.19.aspx](http://journals.lww.com/anesthesiology/Fulltext/2008/04000/Additive_Interaction_of_the_Cannabinoid_Receptor_I.19.aspx)

Endogenous cannabinoids induce fever through the activation of CB1 receptors. (full – 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2765314/?tool=pubmed>

The effects of intracerebroventricular AM-251, a CB1-receptor antagonist, and ACEA, a CB1-receptor agonist, on penicillin-induced epileptiform activity in rats. (full – 2009)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1528-1167.2009.02098.x/full>

Involvement of nitric system in the anticonvulsant effect of the cannabinoid CB(1) agonist ACEA in the pentylenetetrazole-induced seizure in mice. (abst – 2009)  
<http://www.ncbi.nlm.nih.gov/pubmed/19223154>

Involvement of nitric oxide in the gastroprotective effect of ACEA, a selective cannabinoid CB1 receptor agonist, on aspirin-induced gastric ulceration. (abst – 2009)  
<http://www.ncbi.nlm.nih.gov/pubmed/19827302>

Effect of arachidonyl-2'-chloroethylamide, a selective cannabinoid CB1 receptor agonist, on the protective action of the various antiepileptic drugs in the mouse maximal electroshock-induced seizure model. (abst – 2009)  
<http://www.ncbi.nlm.nih.gov/pubmed/19751793>

Role of cannabinoid CB1 receptors on macronutrient selection and satiety in rats. (abst – 2009) <http://www.ncbi.nlm.nih.gov/pubmed/19150453>

Regulatory Role of Cannabinoid Receptor 1 in Stress-Induced Excitotoxicity and Neuroinflammation (full - 2010)  
<http://www.nature.com/npp/journal/vaop/ncurrent/full/npp2010214a.html>

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>

Inhibition of basal and ultraviolet B-induced melanogenesis by cannabinoid CB(1) receptors: a keratinocyte-dependent effect. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21298280>

L-Type Calcium Channel Mediates Anticonvulsant Effect of Cannabinoids in Acute and Chronic Murine Models of Seizure. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21928146>

Changes in the cannabinoid (CB1) receptor expression level and G-protein activation in kainic acid induced seizures. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/22079489>

Contrasting effects of different cannabinoid receptor ligands on mouse ingestive behavior (abst – 2012)  
[http://www.unboundmedicine.com/medline/ebm/record/22772336/abstract/Contrasting\\_effects\\_of\\_different\\_cannabinoid\\_receptor\\_ligands\\_on\\_mouse\\_ingestive\\_behaviour](http://www.unboundmedicine.com/medline/ebm/record/22772336/abstract/Contrasting_effects_of_different_cannabinoid_receptor_ligands_on_mouse_ingestive_behaviour)

CB1 Agonist ACEA Protects Neurons and Reduces the Cognitive Impairment of A $\beta$ PP/PS1 Mice. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22451318>

Protective effect of cannabinoid CB1 receptor activation against altered intrinsic repetitive firing properties induced by A $\beta$  neurotoxicity. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22172925>

CB1 cannabinoid receptor activation rescues amyloid  $\beta$ -induced alterations in behaviour and intrinsic electrophysiological properties of rat hippocampal CA1 pyramidal neurones. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22508047>

Opposing Roles for Cannabinoid Receptor Type-1 (CB(1)) and Transient Receptor Potential Vanilloid Type-1 Channel (TRPV1) on the Modulation of Panic-Like Responses in Rats. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/21937980>

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>

Cannabinoids and muscular pain. Effectiveness of the local administration in rat. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22354705>

Revisiting CB1 Receptor as Drug Target in Human Melanoma. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22447182>

Photoperiodic Changes in Endocannabinoid Levels and Energetic Responses to Altered Signalling at CB1 Receptors in Siberian Hamsters (abst – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2826.2012.02312.x/abstract>

Effect of ACEA-a selective cannabinoid CB1 receptor agonist on the protective action of different antiepileptic drugs in the mouse pentylentetrazole-induced seizure model. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22789660>

## **ACHILLES TENDINOSIS**

Increased Expression of Cannabinoid CB(1) Receptors in Achilles Tendinosis. (full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3169627/?tool=pubmed>

## **ACNE**

Endocannabinoids enhance lipid synthesis and apoptosis of human sebocytes via cannabinoid receptor-2-mediated signaling. (full – 2008)

<http://www.fasebj.org/content/22/10/3685.long>

The endocannabinoid system of the skin in health and disease: novel perspectives and therapeutic opportunities. (full – 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2757311/?tool=pubmed>

Hemp Seed Oil Benefits (news – 2009)

<http://www.livestrong.com/article/31903-hemp-seed-oil-benefits/>

Endocannabinoid signaling and epidermal differentiation. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21628127>

## **ADD/ ADHD**

ADHD by Ryan P (anecdotal - undated)

[http://www.rxmarijuana.com/shared\\_comments/ADHD4.htm](http://www.rxmarijuana.com/shared_comments/ADHD4.htm)

Marijuana and ADD Therapeutic uses of Medical Marijuana in the treatment of ADD (undated) <http://www.onlinepot.org/medical/add&mmj.htm>

Barba Jacob and the history of marihuana (abst – 1986)

<http://www.ncbi.nlm.nih.gov/pubmed/3296662>

Recipe For Trouble (anecdotal/ news - 2002 )

<http://www.cbsnews.com/stories/2002/03/05/48hours/main503022.shtml>

Association between cannabinoid receptor gene (CNR1) and childhood attention deficit/hyperactivity disorder in Spanish male alcoholic patients (full - 2003)

<http://www.nature.com/mp/journal/v8/n5/full/4001278a.html>

Cannabinoids effective in animal model of hyperactivity disorder (abst - 2003)

[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=162#4](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=162#4)

Cannabis 'Scripts to Calm Kids? (news - 2004)

<http://www.foxnews.com/story/0,2933,117541,00.html>

Fitness to drive in spite (because) of THC (abst - 2007)  
[http://www.unboundmedicine.com/medline/ebm/record/17879702/abstract/%5BFitness\\_to\\_drive\\_in\\_spite\\_because\\_of\\_THC%5D](http://www.unboundmedicine.com/medline/ebm/record/17879702/abstract/%5BFitness_to_drive_in_spite_because_of_THC%5D)

Science: THC normalized impaired psychomotor performance and mood in a patient with hyperactivity disorder (news - 2007)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=254](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=254)

Association of the Cannabinoid Receptor Gene (CNR1) With ADHD and Post-Traumatic Stress Disorder (full - 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2685476/?tool=pubmed>

Cannabis Improves Symptoms of ADHD (full - 2008)  
[http://www.cannabis-med.org/english/journal/en\\_2008\\_01\\_1.pdf](http://www.cannabis-med.org/english/journal/en_2008_01_1.pdf)

Cannabis use and adult ADHD symptoms. (abst - 2008)  
<http://www.ncbi.nlm.nih.gov/pubmed/18242878>

Autism, ADD, ADHD and Marijuana Therapy (news - 2008)  
<http://www.enotheology.org/edoto/anmviewer.asp?a=319>

Effects of the cannabinoid CB1 receptor antagonist rimonabant on distinct measures of impulsive behavior in rats. (full – 2009)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1915592/?tool=pubmed>

Bidirectional regulation of novelty-induced behavioral inhibition by the endocannabinoid system. (abst – 2009) <http://www.ncbi.nlm.nih.gov/pubmed/19607846>

Cannabinoid receptors in brain: pharmacogenetics, neuropharmacology, neurotoxicology, and potential therapeutic applications (abst – 2009) <http://pharmgkb.org/pmid/19897083>

Prescribing marijuana to kids (news – 2009)  
<http://theweek.com/article/index/103325/prescribing-marijuana-to-kids>

Why I Give My 9-year-old Pot (anecdotal/news - 2009)  
<http://www.doublex.com/section/health-science/why-i-give-my-9-year-old-pot>

Why I Give My 9-Year-Old Pot, Part II (news/anecdotal - 2009)  
<http://www.doublex.com/section/health-science/why-i-give-my-9-year-old-pot-part-ii>

Why I Give My 9-Year-Old Pot, Part 3 (news - 2010) <http://www.slate.com/id/2251174/>

Dr. Jean Talleyrand Says Marijuana Safer than Ritalin for ADHD Teens (news – 2010)  
<http://spotlight.vitals.com/2010/01/dr-jean-talleyrand-says-marijuana-safer-than-ritalin-for-adhd-teens/>

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)

Loss of striatal cannabinoid CB1 receptor function in attention-deficit/hyperactivity disorder mice with point-mutation of the dopamine transporter. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/22034972>

Why I Give My Autistic Son Pot, Part 4 (news – 2011)  
<http://www.slate.com/id/2294072/?from=rss>

Effects of amphetamine on dopamine release in the rat nucleus accumbens shell region depend on cannabinoid CB1 receptor activation. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22426202>

## **ADDICTION**

An Abstinence Syndrome Following Chronic Administration of Delta-9-tetrahydrocannabinol in Rhesus Monkeys. (abst – 1980)  
<http://www.ncbi.nlm.nih.gov/pubmed/6255508>

Abuse potential of dronabinol (Marinol). (abst – 1998)  
<http://www.ncbi.nlm.nih.gov/pubmed/9692381>

Relative Addictiveness of Various Substances (full - 1990)  
<http://www.ukcia.org/research/addictiv.htm>

Genetic differences in delta 9-tetrahydrocannabinol-induced facilitation of brain stimulation reward as measured by a rate-frequency curve-shift electrical brain stimulation paradigm in three different rat strains. (abst – 1996)  
<http://www.ncbi.nlm.nih.gov/pubmed/8649214>

Cannabis dependence, withdrawal, and reinforcing effects among adolescents with conduct symptoms and substance use disorders (abst – 1997)  
<http://www.sciencedirect.com/science/article/pii/S0376871698000039>

The fatty acid amide hydrolase C385A (P129T) missense variant in cannabis users: studies of drug use and dependence in Caucasians (abst – 2007)  
<http://www.ncbi.nlm.nih.gov/pubmed/17290447>

Anandamide, an Endogenous Cannabinoid, Has a Very Low Physical Dependence Potential (full - 1998)  
<http://jpet.aspetjournals.org/content/287/2/598.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=480&resourcetype=HWCIT>

Delta9-tetrahydrocannabinol releases and facilitates the effects of endogenous enkephalins: reduction in morphine withdrawal syndrome without change in rewarding effect. (abst – 2001) <http://www.ncbi.nlm.nih.gov/pubmed/11359533>

Chronic Morphine Modulates the Contents of the Endocannabinoid, 2-Arachidonoyl Glycerol, in Rat Brain (full - 2003)

<http://www.nature.com/npp/journal/v28/n6/full/1300117a.html>

Does Cannabis Use Predict Poor Outcome for Heroin-dependent Patients on Maintenance Treatment? Past Findings and More Evidence Against. (abst – 2003)

<http://medical-journals.healia.com/doc/12603227/Does-cannabis-use-predict-poor-outcome-for-heroin-dependent-patients-on-maintenance-treatment-Past-findings-and-more-evidence-against>

Human cannabinoid receptor 1: 5' exons, candidate regulatory regions, polymorphisms, haplotypes and association with polysubstance abuse. (full – 2004)

<http://www.nature.com/mp/journal/v9/n10/full/4001560a.html>

Review of the Validity and Significance of Cannabis Withdrawal Syndrome

(full – 2004) <http://ajp.psychiatryonline.org/article.aspx?articleid=177137>

Cannabis Abuse is Not a Risk Factor for Treatment Outcome in Methadone Maintenance Treatment: a 1-year Prospective Study in an Israeli Clinic. (abst – 2004)

<http://www.ncbi.nlm.nih.gov/pubmed/14731193>

Alcohol Consumption Moderates the Link Between Cannabis Use and Cannabis Dependence in an Internet Survey. (abst – 2005)

<http://psycnet.apa.org/journals/adb/19/2/212/>

Confirming alcohol-moderated links between cannabis use and dependence in a national sample (abst – 2006)

<http://www.sciencedirect.com/science/article/pii/S0306460305002959>

Long term marijuana users seeking medical cannabis in California (2001–2007): demographics, social characteristics, patterns of cannabis and other drug use of 4117 applicants (full - 2007)

<http://www.harmreductionjournal.com/content/4/1/16>

Lack of behavioral sensitization after repeated exposure to THC in mice and comparison to methamphetamine (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2637562/?tool=pubmed>

Merck Manual - Marijuana (Cannabis) (excerpt - 2008)

[http://www.merckmanuals.com/professional/special\\_subjects/drug\\_use\\_and\\_dependence/marijuana\\_cannabis.html?qt=marijuana&alt=sh#v1027079](http://www.merckmanuals.com/professional/special_subjects/drug_use_and_dependence/marijuana_cannabis.html?qt=marijuana&alt=sh#v1027079)

Study of 4000 indicates marijuana discourages use of hard drugs. (news – 2008)

<http://www.csdp.org/publicservice/medicalmj08.htm>

Calling B.S. on the Idea of 'Marijuana Addiction' (news – 2008)

<http://www.alternet.org/drugs/80408/?page=entire>

When Your Kid Smokes Pot (news – 2008)

<http://mensnewsdaily.com/2010/08/08/when-your-kid-smokes-pot/>



Adolescent Exposure to Chronic Delta-9-Tetrahydrocannabinol Blocks Opiate Dependence in Maternally Deprived Rats (full - 2009)

<http://www.nature.com/npp/journal/v34/n11/full/npp200970a.html>

The Surprising Effect Of Marijuana On Morphine Dependence (news - 2009)

[http://www.redorbit.com/news/health/1716066/the\\_surprising\\_effect\\_of\\_marijuana\\_on\\_morphine\\_dependence/](http://www.redorbit.com/news/health/1716066/the_surprising_effect_of_marijuana_on_morphine_dependence/)

Active Ingredient In Cannabis Eliminates Morphine Dependence In Rats (news - 2009)

<http://www.sciencedaily.com/releases/2009/07/090706090440.htm>

Four percent of adults worldwide using cannabis (news – 2009)

<http://phys.org/news174892348.html>

For pot users, visual and audible cues set off cravings (news – 2009)

<http://arstechnica.com/science/2009/07/abstinent-marijuana-users-still-have-cravings/>

The use and misuse of alcohol and marijuana can be traced to a common set of genes (news – 2009)

[http://www.eurekalert.org/pub\\_releases/2009-12/ace-tua121209.php](http://www.eurekalert.org/pub_releases/2009-12/ace-tua121209.php)

Medical marijuana users in substance abuse treatment. (full – 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2848643/?tool=pubmed>

Teen Pot Smoking Won't Lead to Other Drugs as Adults (news - 2010)

<http://www.webmd.com/parenting/news/20100902/teen-pot-smoking-wont-lead-to-other-drugs-as-adults>

Aerobic Exercise Training Reduces Cannabis Craving and Use in Non-Treatment Seeking Cannabis-Dependent Adults (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3050879/?tool=pmcentrez>

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>

Dronabinol for the treatment of cannabis dependence: a randomized, double-blind, placebo-controlled trial. (abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21310551/abstract/Dronabinol\\_for\\_the\\_treatment\\_of\\_cannabis\\_dependence:\\_a\\_randomized\\_double\\_blind\\_placebo\\_controlled\\_trial](http://www.unboundmedicine.com/medline/ebm/record/21310551/abstract/Dronabinol_for_the_treatment_of_cannabis_dependence:_a_randomized_double_blind_placebo_controlled_trial)

The genetic basis of the endocannabinoid system and drug addiction in humans

(abst – 2011) <http://jop.sagepub.com/content/early/2011/09/20/0269881111416689>

Exercise can reduce cannabis use in persons who don't want to stop (news – 2011)

<http://www.news-medical.net/news/20110304/Exercise-can-reduce-cannabis-use-in-persons-who-dont-want-to-stop.aspx>

Medical marijuana laws in 50 states: Investigating the relationship between state legalization of medical marijuana and marijuana use, abuse and dependence.

(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22099393>

**2-AG / 2-ARACHIDONOYLGLYCEROL** - endocannabinoid, CB1 & CB 2 agonist

Phytocannabinoids (news – undated)

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

2-Arachidonoylglycerol: A Possible Endogenous Cannabinoid Receptor Ligand in Brain

(abst – 1995) <http://www.sciencedirect.com/science/article/pii/S0006291X85724370>

A Second Endogenous Cannabinoid That Modulates Long-term Potentiation.

(abst – 1997)

<http://medical-journals.healio.com/doc/9285589/A-second-endogenous-cannabinoid-that-modulates-long-term-potentiation>

Brain Chemicals Mimic Marijuana (news - 1997)

<http://www.ukcia.org/research/anandami.php>

2-Arachidonoyl-glycerol as an "endocannabinoid": limelight for a formerly neglected metabolite. (abst - 1998) <http://www.ncbi.nlm.nih.gov/pubmed/9526090>

Evidence That the Cannabinoid CB1 Receptor Is a 2-Arachidonoylglycerol Receptor

(full – 1999) <http://www.jbc.org/content/274/5/2794.long>

Endocannabinoids control spasticity in a multiple sclerosis model (full - 2000)

<http://www.fasebj.org/cgi/reprint/00-0399fjev1?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=10&sortspec=relevance&resourcetype=HWCIT>

Endocannabinoid 2-arachidonyl glycerol is a full agonist through human type 2 cannabinoid receptor: antagonism by anandamide. (full – 2000)

<http://molpharm.aspetjournals.org/content/57/5/1045.long>

Endocannabinoids and Vascular Function (full - 2000)

<http://jpet.aspetjournals.org/content/294/1/27.long>

2-Arachidonoylglycerol and the cannabinoid receptors. (abst – 2000)

<http://www.ncbi.nlm.nih.gov/pubmed/11106784>

Cardiovascular effects of endocannabinoids--the plot thickens. (abst - 2000)

[http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list\\_uids=10785543&dopt=abstractplus](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list_uids=10785543&dopt=abstractplus)

Endogenous cannabinoids and appetite. (abst – 2000)

<http://www.ncbi.nlm.nih.gov/pubmed/19087417>

Despite substantial degradation, 2-arachidonoylglycerol is a potent full efficacy agonist mediating CB(1) receptor-dependent G-protein activation in rat cerebellar membranes. (full – 2001) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572991/?tool=pubmed>

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## **2-AGE/ 2-ARACHIDONYL GLYCERYL ETHER/ NOLADIN ETHER**

endocannabinoid, CB 1 & 2 agonist

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Design and Synthesis of the CB1 Selective Cannabinoid Antagonist AM281: A Potential Human SPECT Ligand (link to PDF – 1999) <http://www.aapsj.org/view.asp?art=ps010204>

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189998/?tool=pmcentrez>

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The anandamide transport inhibitor AM404 reduces the rewarding effects of nicotine and nicotine-induced dopamine elevations in the nucleus accumbens shell in rats (abst – 2011)

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**AM-630** – synthetic, CB2 antagonist

AM630, a competitive cannabinoid receptor antagonist. (abst – 1995)

<http://www.ncbi.nlm.nih.gov/pubmed/7776818>

Cannabinoid CB2 receptor activation reduces mouse myocardial ischemia-reperfusion injury: involvement of cytokine/chemokines and PMN (full - 2003)

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AM -678 - see JWH -100

AM-694 – synthetic, CB1 & CB2 agonist

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The impact of changes in UK classification of the synthetic cannabinoid receptor agonists in 'Spice'. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21482092>

The detection of the urinary metabolites of 1-[(5-fluoropentyl)-1H-indol-3-yl]-(2-iodophenyl)methanone (AM-694), a high affinity cannabimimetic, by gas chromatography - mass spectrometry. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22522907>

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[http://journals.lww.com/anesthesiology/Fulltext/2003/10000/Inhibition\\_of\\_Inflammatory\\_Hyperalgesia\\_by\\_31.aspx](http://journals.lww.com/anesthesiology/Fulltext/2003/10000/Inhibition_of_Inflammatory_Hyperalgesia_by_31.aspx)

New Compound That Acts On Peripheral Receptors May Be Promising Treatment For Some Nerve Pain (news - 2003)  
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Cannabinoid CB2 receptor agonist activity in the hindpaw incision model of postoperative pain. (abst - 2005) <http://www.ncbi.nlm.nih.gov/pubmed/16316653>

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2013801/?tool=pubmed>

AM1241, a cannabinoid CB2 receptor selective compound, delays disease progression in a mouse model of amyotrophic lateral sclerosis. (abst - 2006)  
<http://www.ncbi.nlm.nih.gov/pubmed/16781706>

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Cannabinoid receptor 2 and its agonists mediate hematopoiesis and hematopoietic stem and progenitor cell mobilization. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21063029>

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Effects of a Selective Cannabinoid CB2 Agonist and Antagonist on Intravenous Nicotine Self Administration and Reinstatement of Nicotine Seeking. (full – 2012)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3266883/?tool=pubmed>

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<http://jpet.aspetjournals.org/content/340/3/629.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5>

**AM-1346** - synthetic, CB1 agonist

Synthetic Cannabinoid May Aid Fertility In Smokers (news - 2006)  
<http://www.medicalnewstoday.com/articles/58063.php>

Marijuana-like Chemical Can Restore Sperm Function Lost to Tobacco Abuse (news - 2006) [http://www.rxpnews.com/specialtopics/article\\_5093.shtml](http://www.rxpnews.com/specialtopics/article_5093.shtml)

Cannabis-based boost for smokers' suffering sperm (news - 2006)  
(may need registration)  
<http://www.newscientist.com/article/dn10362-cannabisbased-boost-for-smokers-suffering-sperm.html>

Effects of AM1346, a high-affinity CB1 receptor selective anandamide analog, on open-field behavior in rats. (abst – 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17912052>

Discriminative stimulus functions in rats of AM1346, a high-affinity CB1R selective anandamide analog. (full – 2008)  
<http://www.springerlink.com/content/n278340k6q47141k/fulltext.html>

Scientist Discovers New Molecule to Treat Chronic Pain (news - 2008)  
<http://www.physorg.com/news137778721.html>

**AM-1710** – synthetic, CB2 agonist

Pharmacological characterization of AM1710, a putative cannabinoid CB(2) agonist from the cannabillactone class: Antinociception without central nervous system side-effects. (abst – 2011)  
[http://www.unboundmedicine.com/medline/ebm/record/21382397/abstract/Pharmacological\\_characterization\\_of\\_AM1710\\_a\\_putative\\_cannabinoid\\_CB\\_2\\_agonist\\_from\\_the\\_cannabillactone\\_class:\\_Antinociception\\_without\\_central\\_nervous\\_system\\_side\\_effects](http://www.unboundmedicine.com/medline/ebm/record/21382397/abstract/Pharmacological_characterization_of_AM1710_a_putative_cannabinoid_CB_2_agonist_from_the_cannabillactone_class:_Antinociception_without_central_nervous_system_side_effects)

Intrathecal cannabillactone CB(2)R agonist, AM1710, controls pathological pain and restores basal cytokine levels. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22425445>

**AM-2201** – synthetic, CB1 agonist

Analysis of 30 synthetic cannabinoids in serum by liquid chromatography-electrospray ionization tandem mass spectrometry after liquid-liquid extraction (abst – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1002/jms.3020/abstract>

**AM -2233** – synthetic, CB1 agonist

F200A substitution in the third transmembrane helix of human cannabinoid CB1 receptor converts AM2233 from receptor agonist to inverse agonist. (abst – 2006)  
<http://www.ncbi.nlm.nih.gov/pubmed/16438957>

Evaluation of the in vivo receptor occupancy for the behavioral effects of cannabinoids using a radiolabeled cannabinoid receptor agonist, R-[125/131I]AM2233. (abst – 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16715483>

Another nail in coffin of synthetic cannabis (news – 2011)  
<http://tvnz.co.nz/national-news/another-nail-in-coffin-synthetic-cannabis-4666168?ref=rss>

**AM- 4054** - synthetic, CB1 agonist

Behavioral Profile of the Novel Cannabinoid Agonist AM4054 (thesis - 2006)  
[http://digitalcommons.uconn.edu/cgi/viewcontent.cgi?article=1016&context=srhonors\\_theses&sei-redir=1#search=%22am-4054%20%2Bcannabinoid%22](http://digitalcommons.uconn.edu/cgi/viewcontent.cgi?article=1016&context=srhonors_theses&sei-redir=1#search=%22am-4054%20%2Bcannabinoid%22)

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)

**AM- 4113** – synthetic, CB1 antagonist

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)

The neutral cannabinoid CB<sub>1</sub> receptor antagonist AM4113 regulates body weight through changes in energy intake in the rat. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21056053>

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

**AM 6545** – synthetic, CB1 antagonist

Rehashing endocannabinoid antagonists: can we selectively target the periphery to safely treat obesity and type 2 diabetes? (full – 2010)  
[http://www.jci.org/articles/view/44099?search\[abstract\\_text\]=&search\[article\\_text\]=cannabinoid&search\[authors\\_text\]=&search\[fpage\]=&search\[title\\_text\]=&search\[volume\]=](http://www.jci.org/articles/view/44099?search[abstract_text]=&search[article_text]=cannabinoid&search[authors_text]=&search[fpage]=&search[title_text]=&search[volume]=)

**AM 6701** – synthetic, equally blocks the break-down of 2-AG and anandamide

Equipotent Inhibition of Fatty Acid Amide Hydrolase and Monoacylglycerol Lipase - Dual Targets of the Endocannabinoid System to Protect against Seizure Pathology. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22270809>

**AM 6702** - synthetic, strongly block s the break-down of anandamide, weakly 2-AG

Equipotent Inhibition of Fatty Acid Amide Hydrolase and Monoacylglycerol Lipase - Dual Targets of the Endocannabinoid System to Protect against Seizure Pathology. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22270809>

## **AMOTIVATIONAL SYNDROME**

Marihuana Use and Psychosocial Adaptation (abst - 1974)  
<http://archpsyc.ama-assn.org/cgi/content/abstract/31/5/713?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT>

Operant acquisition of marihuana in man. (abst - 1976)  
<http://jpet.aspetjournals.org/content/198/1/42.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT>

Marihuana use. Biologic and behavioral aspects. (abst – 1976)  
<http://www.ncbi.nlm.nih.gov/pubmed/981073>

Lifetime Prevalence of "Amotivational Syndrome", Among Users and Non-Users of Hashish (full – 1987) <http://druglibrary.org/schaffer/hemp/general/amot.htm>

Cannabis amotivational syndrome and personality trait absorption: A review and reconceptualization (full - 1994) <http://www.ukcia.org/research/PersonalityTraitAbsorption.php>

Debunking the Amotivational Syndrome (news - 1995)  
<http://www.drugscience.org/Petition/C3F.html>

Rimonabant eliminates responsiveness to workload changes in a time-constrained food-reinforced progressive ratio procedure in rats. (abst – 2012)  
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Associations of Alcohol, Nicotine, Cannabis, and Drug Use/Dependence with Educational Attainment: Evidence from Cotwin-Control Analyses. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22587016>

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

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. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22646533>

**ANANDAMIDE / AEA** – endocannabinoid, CB 1 & 2 agonist

Phytocannabinoids (news – undated)  
<http://www.news-medical.net/health/Phytocannabinoids.aspx>

Isolation and Structure of a Brain Constituent That Binds to the Cannabinoid Receptor. (abst – 1992) <http://www.ncbi.nlm.nih.gov/pubmed/1470919>

Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents CP 55,940, WIN 55,212-2 and anandamide. (full - 1993)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2175863/?tool=pmcentrez&page=1>

Anandamide, an endogenous cannabimimetic eicosanoid, binds to the cloned human cannabinoid receptor and stimulates receptor-mediated signal transduction (full - 1993)  
<http://www.pnas.org/content/90/16/7656.full.pdf+html>

Pharmacological activity of the cannabinoid receptor agonist, anandamide, a brain constituent. (abst – 1993) <http://www.ncbi.nlm.nih.gov/pubmed/8384116>

Enzymatic synthesis of anandamide, an endogenous ligand for the cannabinoid receptor, by brain membranes (full - 1994) <http://www.pnas.org/content/91/14/6698.full.pdf+html>

Formation and inactivation of endogenous cannabinoid anandamide in central neurons. (letter – 1994) <http://www.nature.com/nature/journal/v372/n6507/abs/372686a0.html>

Anandamide amidohydrolase activity in rat brain microsomes. Identification and partial characterization. (full – 1995) <http://www.jbc.org/content/270/11/6030.long>

Anandamide and delta 9-THC dilation of cerebral arterioles is blocked by indomethacin (abst - 1995)  
<http://ajpheart.physiology.org/cgi/content/abstract/269/6/H1859?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=2320&resourcetype=HWCIT>

Novel antagonist implicates the CB1 cannabinoid receptor in the hypotensive action of anandamide. (abst – 1995) <http://www.ncbi.nlm.nih.gov/pubmed/7589169>

The CB1 cannabinoid receptor antagonist SR 141716A affects A9 dopamine neuronal activity in the rat. (abst – 1995) <http://www.ncbi.nlm.nih.gov/pubmed/7488739>

Occurrence and biosynthesis of endogenous cannabinoid precursor, N-arachidonoyl phosphatidylethanolamine, in rat brain. (full – 1997)  
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Activation of peripheral CB1 cannabinoid receptors in haemorrhagic shock. (abst – 1997) <http://www.ncbi.nlm.nih.gov/pubmed/9394002>

Anandamide : The molecule of extreme pleasure (report– 1997)  
<http://www.chm.bris.ac.uk/motm/anandamide/ananh.htm>

Brain Chemicals Mimic Marijuana (news - 1997) <http://www.ukcia.org/research/anandami.php>

Anandamide, an Endogenous Cannabinoid, Has a Very Low Physical Dependence Potential (full - 1998)  
<http://jpet.aspetjournals.org/content/287/2/598.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=480&resourcetype=HWCIT>

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Cardiovascular actions of cannabinoids and their generation during shock. (abst – 1998)  
<http://www.ncbi.nlm.nih.gov/pubmed/9846953>

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<http://www.nature.com/nature/journal/v396/n6712/full/396636a0.html>

- Doped skin (news - 1998) (may need registration)  
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- Links found between marijuana and vision (news – 1999)  
<http://archives.cnn.com/1999/HEALTH/12/07/science.marijuana/index.html>
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- Why your brain is primed for a high (news - 1999) (may need registration)  
<http://www.newscientist.com/article/mg16121792.000-why-your-brain-is-primed-for-a-high.html>
- Anandamide Induces Apoptosis in Human Cells via Vanilloid Receptors (full - 2000)  
<http://www.jbc.org/content/275/41/31938.full>
- Endocannabinoids and Vascular Function (full - 2000)  
<http://jpet.aspetjournals.org/content/294/1/27.long>
- Suppression of Nerve Growth Factor Trk Receptors and Prolactin Receptors by Endocannabinoids Leads to Inhibition of Human Breast and Prostate Cancer Cell Proliferation (full - 2000) <http://endo.endojournals.org/cgi/content/full/141/1/118>
- Effects of cannabinoid receptor agonists on neuronally-evoked contractions of urinary bladder tissues isolated from rat, mouse, pig, dog, monkey and human (full - 2000)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1571997/?tool=pmcentrez>
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<http://www.ncbi.nlm.nih.gov/pubmed/10762668>
- Endogenous cannabinoids and appetite. (abst – 2000)  
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Anandamide and diet: inclusion of dietary arachidonate and docosahexaenoate leads to increased brain levels of the corresponding N-acylethanolamines in piglets.  
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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572987/?tool=pmcentrez>

Endocannabinoids are implicated in the infarct size-reducing effect conferred by heat stress preconditioning in isolated rat hearts (full – 2001)  
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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 smoking cannabis on lung function (full - 2011)  
<http://www.expert-reviews.com/doi/full/10.1586/ers.11.40>

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3025486/?tool=pubmed>

Cannabidiol inhibits lung cancer cell invasion and metastasis via intercellular adhesion molecule-1. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/22198381>

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## **CANCER - LYMPHOMA**

UCSF Researchers Report New Risk Factors For Non-Hodgkin's Lymphoma (news - 1999) <http://www.sciencedaily.com/releases/1999/08/990817065339.htm>

Anandamide Induces Apoptosis in Human Cells via Vanilloid Receptors (full - 2000) <http://www.jbc.org/content/275/41/31938.full>

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>

Lymphoma may be slowed by cannabis (news - 2002)  
<http://marijuana-ro.com/medical-usage/lymphoma-may-be-slowed-by-cannabis.html>

High level of cannabinoid receptor 1, absence of regulator of G protein signalling 13 and differential expression of Cyclin D1 in mantle cell lymphoma (abst – 2003)  
<http://pharmgkb.org/pmid/12970790>

The Peripheral Cannabinoid Receptor CB2 and CD40 Are Novel Biological Markers That Predict Outcome in Diffuse Large B-Cell Lymphoma of Elderly Patients. (abst - 2004)  
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The expression of the peripheral cannabinoid receptor on cells of the immune system and non-Hodgkin's lymphomas. (abst – 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17613768>

Medical Marijuana Use and Research Leukemia & Lymphoma Society Statement (full – 2008) <http://www.maps.org/mmj/Inls-res.pdf>

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Cannabis Agonist Reduces Non-Hodgkin Lymphoma Tumor Growth, says study (news - 2008) <http://www.illinoisnorml.org/content/view/957/27/>

Potentiation of cannabinoid-induced cytotoxicity in mantle cell lymphoma through modulation of ceramide metabolism. (full - 2009) <http://mcr.aacrjournals.org/content/7/7/1086.long>

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## **CANCER - MELANOMA**

Intractable nausea and vomiting due to gastrointestinal mucosal metastases (abst - 1997) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=35](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=35)

Cannabinoid receptors as novel targets for the treatment of melanoma (full - 2006) <http://www.fasebj.org/cgi/content/full/20/14/2633?ijkey=958a31584b617c871b46ef1af541c90cc0fb0f14>

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Cannabinoid receptor-1 modulation induces apoptosis of human melanoma cells (abst - 2008) [http://www.aacrmeetingabstracts.org/cgi/content/meeting\\_abstract/2008/1\\_Annual\\_Meeting/2678?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourceype=HWCIT](http://www.aacrmeetingabstracts.org/cgi/content/meeting_abstract/2008/1_Annual_Meeting/2678?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourceype=HWCIT)

Inhibition of basal and ultraviolet B-induced melanogenesis by cannabinoid CB(1) receptors: a keratinocyte-dependent effect. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21298280>

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Inhibition of basal and ultraviolet B-induced melanogenesis by cannabinoid CB(1) receptors: a keratinocyte-dependent effect. (abst – 2011)

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<http://www.ncbi.nlm.nih.gov/pubmed/22447182>

The Expression and Significance of Cannabinoid Receptor 2 in Non-infectious Granuloma and Malignant Melanoma (abst – 2012)

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## **CANCER - NEUROBLASTOMA**

Inhibition of neuroblastoma adenylate cyclase by cannabinoid and nantradol compounds (abst – 1984) <http://www.ncbi.nlm.nih.gov/pubmed/6090851>

Cannabinoid inhibition of adenylate cyclase. Biochemistry of the response in neuroblastoma cell membranes. (abst – 1985) <http://www.ncbi.nlm.nih.gov/pubmed/2984538>

Interaction of delta-9-tetrahydrocannabinol with rat B103 neuroblastoma cells. (abst – 1987) <http://www.ncbi.nlm.nih.gov/pubmed/2821958>

Cannabinoids inhibit N-type calcium channels in neuroblastoma-glioma cells. (full - 1992) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC525583/>

Cannabinoid receptor agonists inhibit Ca current in NG108-15 neuroblastoma cells via a pertussis toxin-sensitive mechanism. (full - 1992)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1907498/?tool=pmcentrez&page=1>

Stimulation of anandamide biosynthesis in N-18TG2 neuroblastoma cells by delta 9-tetrahydrocannabinol (THC). (abst – 1995) <http://www.ncbi.nlm.nih.gov/pubmed/7702643>

Potential biosynthetic connections between the two cannabimimetic eicosanoids, anandamide and 2-arachidonoyl-glycerol, in mouse neuroblastoma cells. (abst – 1996)

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Anandamide Induces Apoptosis in Human Cells via Vanilloid Receptors (full - 2000)

<http://www.jbc.org/content/275/41/31938.full>

A predominant role for inhibition of the adenylate cyclase/protein kinase A pathway in ERK activation by cannabinoid receptor 1 in N1E-115 neuroblastoma cells. (full – 2003) <http://www.jbc.org/content/278/49/48973.long>

Characterization of the Endocannabinoid System in Human Neuronal Cells and Proteomic Analysis of Anandamide-induced Apoptosis (full – 2009) <http://www.jbc.org/content/284/43/29413.full>

Increasing Antiproliferative Properties of Endocannabinoids in N1E-115 Neuroblastoma Cells through Inhibition of Their Metabolism. (full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3203169/?tool=pubmed>

Dual inhibition of MAGL and type II topoisomerase by N-phenylmaleimides as a potential strategy to reduce neuroblastoma cell growth. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22127371>

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Boron trifluoride etherate on silica-A modified Lewis acid reagent (VII). Antitumor activity of cannabigerol against human oral epitheloid carcinoma cells. (abst - 1998) <http://www.ncbi.nlm.nih.gov/pubmed/9875457>

Marijuana use and Risk of Oral Squamous Cell Carcinoma (full - 2004) <http://cancerres.aacrjournals.org/content/64/11/4049.full>

Study Finds No Association Between Marijuana Use And Incidence Of Oral Cancer (news - 2004) <http://www.sciencedaily.com/releases/2004/06/040602063428.htm>

Smoking of cannabis does not increase risk for oral cancer (news - 2004) [http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=175#1](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=175#1)

Marijuana Use and the Risk of Lung and Upper Aerodigestive Tract Cancers: Results of a Population-Based Case-Control Study (full - 2006) <http://cebp.aacrjournals.org/content/15/10/1829.full>

Peripheral Cannabinoids Attenuate Carcinoma Induced Nociception in Mice (full - 2008) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2771220/>

A Population-Based Case-Control Study of Marijuana Use and Head and Neck Squamous Cell Carcinoma. (full - 2009) [http://safeaccess.ca/research/pdf/MarijuanaUse\\_and\\_Head-NeckSquamousCellCarcinoma.pdf](http://safeaccess.ca/research/pdf/MarijuanaUse_and_Head-NeckSquamousCellCarcinoma.pdf)

Cannabinoids Inhibit Cellular Respiration of Human Oral Cancer Cells (full - 2010) <http://content.karger.com/produktedb/produkte.asp?DOI=000312686&typ=pdf>

Cannabinoids attenuate cancer pain and proliferation in a mouse model.  
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## **CANCER - OVARIAN**

Cannabinoid receptors as a target for therapy of ovarian cancer (abst - 2006)  
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The putative cannabinoid receptor GPR55 defines a novel autocrine loop in cancer cell proliferation. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/20838378>

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Pancreatitis & Medical Marijuana (article - undated)  
<http://onlinepot.org/medical/pancreatitis.htm>

Cannabinoids Induce Apoptosis of Pancreatic Tumor Cells via Endoplasmic Reticulum Stress–Related Genes (full - 2006) <http://cancerres.aacrjournals.org/cgi/content/full/66/13/6748>

Cannabinoid derivatives induce cell death in pancreatic MIA PaCa-2 cells via a receptor-independent mechanism. (abst – 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16500647>

Cannabinoids Halt Pancreatic Cancer, Breast Cancer Growth, Studies Say (news - 2006)  
[http://www.thehempire.com/index.php/cannabis/news/cannabinoids\\_halt\\_pancreatic\\_cancer\\_breast\\_cancer\\_growth\\_studies\\_say](http://www.thehempire.com/index.php/cannabis/news/cannabinoids_halt_pancreatic_cancer_breast_cancer_growth_studies_say)

Emerging role of cannabinoids in gastrointestinal and liver diseases: basic and clinical aspects (abst – 2008) <http://gut.bmj.com/content/57/8/1140.abstract>

Cannabinoids in pancreatic cancer: Correlation with survival and pain (full - 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225529/?tool=pmcentrez>

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<http://www.landesbioscience.com/journals/autophagy/SalazarAUTO5-7.pdf>

Gemcitabine/cannabinoid combination triggers autophagy in pancreatic cancer cells through a ROS-mediated mechanism. (full – 2011)  
<http://www.nature.com/cddis/journal/v2/n4/pdf/cddis201136a.pdf>

### **CANCER - PITUITARY ADENOMA**

Normal Human Pituitary Gland and Pituitary Adenomas Express Cannabinoid Receptor Type 1 and Synthesize Endogenous Cannabinoids: First Evidence for a Direct Role of Cannabinoids on Hormone Modulation at the Human Pituitary Level (full - 2001)  
<http://jcem.endojournals.org/cgi/content/full/86/6/2687?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=1760&resourcetype=HWCIT>

### **CANCER – PNET / PRIMITIVE NEUROECTODERMAL TUMOR**

Distinctive pattern of cannabinoid receptor type II (CB2) expression in adult and pediatric brain tumors. (abst – 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17239827>

Father: Medical marijuana eased pain of my cancer-battling son (anecdotal – 2011)  
<http://www.komonews.com/news/local/120941429.html>

### **CANCER - PROSTATE**

Delta9-tetrahydrocannabinol induces apoptosis in human prostate PC-3 cells via a receptor-independent mechanism. (abst -1999)  
<http://www.ncbi.nlm.nih.gov/pubmed/10570948>

Suppression of Nerve Growth Factor Trk Receptors and Prolactin Receptors by Endocannabinoids Leads to Inhibition of Human Breast and Prostate Cancer Cell Proliferation (full - 2000)  
<http://endo.endojournals.org/cgi/content/full/141/1/118?ijkey=9caa0af787d8b2dc94e45918a69b40ea90bc1776>



Anti-proliferative and apoptotic effects of anandamide in human prostatic cancer cell lines: implication of epidermal growth factor receptor down-regulation and ceramide production. (abst - 2003) <http://www.ncbi.nlm.nih.gov/pubmed/12746841?dopt=Abstract>

Expression of functionally active cannabinoid receptor CB1 in the human prostate gland (abst – 2003) <http://onlinelibrary.wiley.com/doi/10.1002/pros.10165/abstract>

2-Arachidonoylglycerol A Novel Inhibitor of Androgen-Independent Prostate Cancer Cell Invasion (full - 2004)  
<http://cancerres.aacrjournals.org/cgi/content/full/64/24/8826?ijkey=951f5f9d238bdf059cf30ee2be3a5a31aaf2b094>

A new class of inhibitors of 2-arachidonoylglycerol hydrolysis and invasion of prostate cancer cells. (full – 2005)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1450257/?tool=pubmed>

Cannabinoid Receptor as a Novel Target for the Treatment of Prostate Cancer (full - 2005) <http://cancerres.aacrjournals.org/cgi/reprint/65/5/1635.pdf>

Cannabinoid Receptor Agonist-induced Apoptosis of Human Prostate Cancer Cells LNCaP Proceeds through Sustained Activation of ERK1/2 Leading to G1 Cell Cycle Arrest (full - 2006) <http://www.jbc.org/content/281/51/39480.full>

Diverse roles of 2-arachidonoylglycerol in invasion of prostate carcinoma cells: Location, hydrolysis and 12-lipoxygenase metabolism (full – 2007)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2565646/?tool=pubmed>

US Patent Application 20070041994 - Compositions and methods for treating prostate disorders (full – 2007) <http://www.patentstorm.us/applications/20070041994/fulltext.html>

Cannabinoid receptors agonist WIN-55,212-2 inhibits angiogenesis, metastasis and tumor growth of androgen-sensitive prostate cancer cell CWR22R{nu}1 xenograft in athymic nude mice (abst - 2007)  
[http://www.aacrmeetingabstracts.org/cgi/content/meeting\\_abstract/2007/1\\_Annual\\_Meeting/2195?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=720&resourcecity=HWCIT](http://www.aacrmeetingabstracts.org/cgi/content/meeting_abstract/2007/1_Annual_Meeting/2195?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=720&resourcecity=HWCIT)

Endocannabinoids in endocrine and related tumours (full - 2008)  
<http://erc.endocrinology-journals.org/cgi/reprint/15/2/391.pdf>

Inhibition of human tumour prostate PC-3 cell growth by cannabinoids R(+)-Methanandamide and JWH-015: Involvement of CB2 (full - 2009)  
<http://www.nature.com/bjc/journal/v101/n6/full/6605248a.html>

The cannabinoid R+ methanandamide induces IL-6 secretion by prostate cancer PC3 cells. (abst - 2009) <http://www.ncbi.nlm.nih.gov/pubmed/19908944>

Active Chemicals in Cannabis Inhibits Prostate Cancer Cell Growth (news - 2009)

<http://www.elements4health.com/active-chemicals-in-cannabis-inhibits-prostate-cancer-cell-growth.html>

Cannabis is linked to a 'cancer cure'. (news – 2009)

<http://www.thefreelibrary.com/Cannabis+is+linked+to+a+%27cancer+cure%27+HEALTH.-a0206081618>

Cannabis chemicals may help fight prostate cancer (news - 2009)

<http://www.reuters.com/article/healthNews/idUSTRE57I02Z20090819>

Chemicals in cannabis found to stop prostate cancer (news - 2009)

<http://www.examiner.com/examiner/x-19678-Cannabis-Revolution-Examiner~y2009m8d19-Chemicals-in-cannabis-found-to-stop-prostate-cancer>

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>

Cannabis may apparently stop prostate cancer growth (news - 2009)

<http://www.healthjockey.com/2009/08/21/cannabis-may-apparently-stop-prostate-cancer-growth/>

Medical Marijuana and Cancer, Prostate (news – 2009)

<https://www.marijuanadoctors.com/content/ailments/view/55?ailment=cancer-prostate>

Cannabinoid receptor-dependent and -independent anti-proliferative effects of omega-3 ethanolamides in androgen receptor-positive and -negative prostate cancer cell lines.

(full – 2010) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2930808/?tool=pubmed>

The endocannabinoid system and cancer: therapeutic implication (full – 2011)

<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2011.01327.x/full>

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 endocannabinoid system in prostate cancer. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21912423>

Omega-3 N-acylethanolamines are endogenously synthesised from omega-3 fatty acids in different human prostate and breast cancer cell lines. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21995886>

Cannabinoid Receptor Type 1 (CB1) Activation Inhibits Small GTPase RhoA Activity and Regulates Motility of Prostate Carcinoma Cells. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/22087025>

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

The putative cannabinoid receptor GPR55 defines a novel autocrine loop in cancer cell proliferation. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/20838378>

The role of cannabinoids in prostate cancer: Basic science perspective and potential clinical applications. (full – 2012)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3339795/?tool=pubmed>

Non-THC cannabinoids counteract prostate carcinoma growth in vitro and in vivo: pro-apoptotic effects and underlying mechanisms. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22594963>

Tommy Chong Fighting Prostate Cancer With Cannabis Oil (news – 2012)  
<http://www.cannabisculture.com/content/2012/06/10/Tommy-Chong-Fighting-Prostate-Cancer-Cannabis-Oil>

## **CANCER - RHABDOMYOSARCOMA**

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>

## **CANCER - RISK CANNABIS VS TOBACCO**

So, you thought it was the tar that caused cancer... (news - undated)  
<http://www.ukcia.org/research/cancer2.php>

Marijuana Less Harmful to Lungs than Cigarettes (news - 1994)  
<http://www.ukcia.org/research/lungs.php>

Premiere British Medical Journal Pronounces Marijuana Safer Than Alcohol, Tobacco (news - 1998) <http://cannabislink.ca/medical/safer.html>

Why Doesn't Smoking Marijuana Cause Cancer? (news - 1999)  
<http://www.healthcentral.com/drdean/408/14275.html>

Cannabis and tobacco smoke are not equally carcinogenic (full - 2005)  
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1277837>

Smoking Marijuana Does Not Cause Lung Cancer (news - 2005)  
<http://www.mapinc.org/drugnews/v05/n1065/a03.html>

Cannabis Smoke Is Less Likely To Cause Cancer Than Tobacco Smoke (news - 2005)  
<http://www.sciencedaily.com/releases/2005/10/051019003339.htm>

Blunt Smokers Link Dependence Potential To Nicotine (news - 2006)  
<http://www.medicalnewstoday.com/articles/52838.php>

Marijuana Smoking Found Non-Carcinogenic (news - 2006)  
<http://www.medpagetoday.com/HematologyOncology/LungCancer/tb/3393>

Cannabis Smoke and Cancer: Assessing the Risk (news - 2008)  
[http://www.norml.org/index.cfm?Group\\_ID=6891](http://www.norml.org/index.cfm?Group_ID=6891)

Hypothesizing that marijuana smokers are at a significantly lower risk of carcinogenicity relative to tobacco-non-marijuana smokers: evidenced based on statistical reevaluation of current literature. (full - 2008)  
<http://www.thefreelibrary.com/Hypothesizing+that+marijuana+smokers+are+at+a+significantly+lower...-a0196052086>

## **CANCER - SKIN**

Inhibition of skin tumor growth and angiogenesis in vivo by activation of cannabinoid receptors (full - 2003) <http://www.jci.org/cgi/content/full/111/1/43?ijkey=MpUgiDbqHybAU>

Starting Point Of Sun-Induced Skin Cancer Discovered: Molecular 'Hooks' Also Pull Compounds From Marijuana From Bloodstream (news - 2008)  
<http://www.sciencedaily.com/releases/2008/05/080515072642.htm>

U of Minnesota researcher discovers the starting point of sun-induced skin cancer (news – 2008)  
<http://www.bio-medicine.org/medicine-news-1/U-of-Minnesota-researcher-discovers-the-starting-point-of-sun-induced-skin-cancer-19419-1/>

Cannabis Science Provides Physician's Documentation That Confirms Successful Treatment of Skin Cancer (news/ info-mercial – 2011)  
<http://www.businesswire.com/news/home/20110406006516/en/Cannabis-Science-Physician%E2%80%99s-Documentation-Confirms-Successful-Treatment>

## **CANCER – SQUAMOUS CELL CARCINOMA**

Inhibition of skin tumor growth and angiogenesis in vivo by activation of cannabinoid receptors (full – 2003) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC151833/>

Marijuana use and Risk of Oral Squamous Cell Carcinoma (full - 2004)  
<http://cancerres.aacrjournals.org/content/64/11/4049.full>

Peripheral Cannabinoids Attenuate Carcinoma Induced Nociception in Mice  
(full – 2008) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2771220/>

A Population-Based Case-Control Study of Marijuana Use and Head and Neck Squamous Cell Carcinoma. (abst - 2009)  
<http://cancerpreventionresearch.aacrjournals.org/cgi/content/abstract/2/8/759>

Effects of Cannabinoids on Oral Squamous Cell Carcinoma Proliferation  
(abst – 2009)  
<http://iadr.confex.com/iadr/2009miami/webprogram/Paper120589.html>

Concomitant consumption of marijuana, alcohol and tobacco in oral squamous cell carcinoma development and progression: Recent advances and challenges.  
(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22727410>

Cannabis Oil Shrinks “One Of The Worst” Cancers (news – infomercial – 2012)  
(warning: graphic photos)  
<http://cannabiscureuk.wordpress.com/2012/01/11/breaking-news-cannabis-science-inc-cannabis-oil-shrinks-one-of-the-worst-cancers/>

## **CANCER - TESTICULAR**

Chemotherapy for Testicular Cancer (anecdotal - undated)  
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**CBR - CB2 CANNABINOID RECEPTOR** - no "high", activated by THC, Anandamide, 2 -AG

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Cannabinoid receptor type 1 and 2 expression in the skin of healthy dogs and dogs with atopic dermatitis. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22738050>

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Cannabinoid Receptors CB1 and CB2 Form Functional Heteromers in Brain. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22532560>

Endocannabinoids Stimulate Human Melanogenesis via Type-1 Cannabinoid Receptor (abst – 2012) <http://www.jbc.org/content/287/19/15466.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT>

Prevention of Paclitaxel-Induced Neuropathy Through Activation of the Central Cannabinoid Type 2 Receptor System (abst – 2012) <http://www.anesthesia-analgesia.org/content/114/5/1104.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT>

THE CO-EXPRESSION OF THE ENDOCANNABINOID SYSTEM AND THE RANK/RANKL SIGNALLING PATHWAY IN HUMAN BONE AND OSTEOCLAST CULTURE (abst – 2012) [http://www.bjpprocs.boneandjoint.org.uk/content/94-B/SUPP\\_XVIII/7.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT](http://www.bjpprocs.boneandjoint.org.uk/content/94-B/SUPP_XVIII/7.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT)

Cannabinoid receptor-2-selective agonists improve recovery in experimental autoimmune encephalomyelitis (abst – 2012) [http://www.jimmunol.org/cgi/content/meeting\\_abstract/188/1\\_MeetingAbstracts/116.7?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT](http://www.jimmunol.org/cgi/content/meeting_abstract/188/1_MeetingAbstracts/116.7?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT)

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Cannabinoid receptor 2 agonists inhibit migration of activated dendritic cells via modulation of MMP-9 (abst – 2012)  
[http://www.jimmunol.org/cgi/content/meeting\\_abstract/188/1\\_MeetingAbstracts/173.23?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcectype=HWCIT](http://www.jimmunol.org/cgi/content/meeting_abstract/188/1_MeetingAbstracts/173.23?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcectype=HWCIT)

Cannabinoid receptors in submandibular acinar cells: Functional coupling between saliva fluid and electrolytes secretion and Ca<sup>2+</sup> signalling (abst – 2012)  
<http://jcs.biologists.org/content/125/8/1884.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=180&sortspec=date&resourcectype=HWCIT>

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Therapeutic modulation of cannabinoid lipid signaling: Metabolic profiling of a novel antinociceptive cannabinoid-2 receptor agonist. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22749867>

Sex Differences in Cannabinoid 1 vs. Cannabinoid 2 Receptor-Selective Antagonism of Antinociception Produced by Δ<sup>9</sup>-Tetrahydrocannabinol and CP55,940 in the Rat (abst – 2012)  
<http://jpet.aspetjournals.org/content/340/3/787.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5>

Cannabinoid receptor type 2 is time-dependently expressed during skin wound healing in mice. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22814434>

The Expression and Significance of Cannabinoid Receptor 2 in Non-infectious Granuloma and Malignant Melanoma (abst – 2012)  
<http://www.res-medical.com/dermatosis-and-std/64093>

Activation of cannabinoid receptor 2 attenuates leukocyte-endothelial cell interactions and blood-brain barrier dysfunction under inflammatory conditions. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22442067>

Excitability of prefrontal cortical pyramidal neurons is modulated by activation of intracellular type-2 cannabinoid receptors. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22331871>

Targeting cannabinoid receptor CB(2) in cardiovascular disorders: promises and controversies. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22612332>

Cannabinoid drugs can directly inhibit HIV in late-stage AIDS (news – 2012)  
<http://www.news-medical.net/news/20120321/Cannabinoid-drugs-can-directly-inhibit-HIV-in-late-stage-AIDS.aspx>

Cannabinoid 2 receptors regulate impulsive behavior (news – 2012)  
<http://medicalxpress.com/news/2012-03-cannabinoid-receptors-impulsive-behavior.html>

**CBR – GPR-40 CANNABINOID RECEPTOR** - activated by GW1100, TAK-875

The Ffa Receptor Gpr40 Links Hyperinsulinemia, Hepatic Steatosis, and Impaired Glucose Homeostasis in Mouse. (abst – 2005)

<http://medical-journals.healia.com/doc/16054069/The-FFA-receptor-GPR40-links-hyperinsulinemia-hepatic-steatosis-and-impaired-glucose-homeostasis-in-mouse>

Gpr40 Gene Expression in Human Pancreas and Insulinoma. (abst – 2005)

<http://medical-journals.healia.com/doc/16289108/GPR40-gene-expression-in-human-pancreas-and-insulinoma>

Pharmacological regulation of insulin secretion in MIN6 cells through the fatty acid receptor GPR40: identification of agonist and antagonist small molecules. (full - 2006)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751878/?tool=pubmed>

Expression of the Gene for a Membrane-bound Fatty Acid Receptor in the Pancreas and Islet Cell Tumours in Humans: Evidence for Gpr40 Expression in Pancreatic Beta Cells and Implications for Insulin Secretion. (abst – 2006)

<http://medical-journals.healia.com/doc/16525841/Expression-of-the-gene-for-a-membrane-bound-fatty-acid-receptor-in-the-pancreas-and-islet-cell-tumours-in-humans-evidence-for-GPR40-expression-in-pancreatic-beta-cells-and-implications-for-insulin-secretion>

Selective small-molecule agonists of G protein-coupled receptor 40 promote glucose-dependent insulin secretion and reduce blood glucose in mice. (full – 2008)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2494688/?tool=pubmed>

Overexpression of GPR40 in pancreatic beta-cells augments glucose-stimulated insulin secretion and improves glucose tolerance in normal and diabetic mice. (full – 2009)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2671040/?tool=pubmed>

Acute administration of GPR40 receptor agonist potentiates glucose-stimulated insulin secretion in vivo in the rat. (abst – 2009) <http://www.ncbi.nlm.nih.gov/pubmed/19217448>

TAK-875, an orally available G protein-coupled receptor 40/free fatty acid receptor 1 agonist, enhances glucose-dependent insulin secretion and improves both postprandial and fasting hyperglycemia in type 2 diabetic rats. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21752941>

Takeda moves potential first-in-class diabetes drug into phase III (news – 2011)

<http://www.inpharm.com/news/166980/takeda-diabetes-tak-875-phase-iii>

A Multiple-Ascending-Dose Study to Evaluate Safety, Pharmacokinetics, and Pharmacodynamics of a Novel GPR40 Agonist, TAK-875, in Subjects With Type 2 Diabetes. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22669289>

Optimization of (2,3-dihydro-1-benzofuran-3-yl)acetic acids: discovery of a non-free fatty acid-like, highly bioavailable G protein-coupled receptor 40/free fatty acid receptor 1 agonist as a glucose-dependent insulinotropic agent. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22490067>

TAK-875 versus placebo or glimepiride in type 2 diabetes mellitus: a phase 2, randomised, double-blind, placebo-controlled trial. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22374408>

### **CBR - GPR55/ CB3 CANNABINOID RECEPTOR**

Activated by 1- $\alpha$ -lysophosphatidylinositol (LPI), and to a lesser extent possibly by THC, CBD, O-1602, PEA, 2-AG, Anandamide, Virodhamine

Cannabinoid Receptor Ligands (full - undated)  
[http://www.tocris.com/pdfs/cannabinoid\\_receptor\\_review/page\\_001.html](http://www.tocris.com/pdfs/cannabinoid_receptor_review/page_001.html)

Identification and cloning of three novel human G protein-coupled receptor genes GPR52, PsiGPR53 and GPR55: GPR55 is extensively expressed in human brain. (abst - 1999) <http://www.ncbi.nlm.nih.gov/pubmed/9931487>

Evolutionary Origins of the Endocannabinoid System. (abst – 2006)  
<http://medical-journals.healia.com/doc/16434153/Evolutionary-origins-of-the-endocannabinoid-system>

GPR55: a new member of the cannabinoid receptor clan? (full - 2007)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2095104/?tool=pubmed>

The orphan receptor GPR55 is a novel cannabinoid receptor. (full – 2007)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2095107/?tool=pubmed>

GPR55 and the vascular receptors for cannabinoids. (full – 2007)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190021/?tool=pubmed>

The novel endocannabinoid receptor GPR55 is activated by atypical cannabinoids but does not mediate their vasodilator effects. (full - 2007)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190033/?tool=pubmed>

GPR55 and the vascular receptors for cannabinoids. (full - 2007)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190021/?tool=pubmed>

GPR55 is a novel cannabinoid receptor (full - 2007) (needs registration)  
<http://www.biomedcentral.com/1471-2210/7/S2/A3>

Novel cannabinoid receptors (full - 2007)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190013/?tool=pmcentrez>



GPR55: signaling pathways and functions (abst - 2007) (needs registration)  
<http://www.biomedcentral.com/1471-2210/9/S2/A3>

GPR55 is a cannabinoid receptor that increases intracellular calcium and inhibits M current (full - 2008) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2268199/?tool=pubmed>

Interactions of the G protein-coupled receptor-associated sorting proteins (GASP) 1 and 2 with the novel cannabinoid receptor GPR55 (abst – 2008)  
<http://www.biomedcentral.com/1471-2210/8/S1/A16>

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>

Receptors for acylethanolamides-GPR55 and GPR119. (full – 2009)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751869/?tool=pubmed>

Endocannabinoid-mediated control of synaptic transmission. (full – 2009)  
<http://physrev.physiology.org/content/89/1/309.long>

The GPR55 ligand L-alpha-lysophosphatidylinositol promotes RhoA-dependent Ca<sup>2+</sup> signaling and NFAT activation. (full – 2009) <http://www.fasebj.org/content/23/1/183.long>

Atypical responsiveness of the orphan receptor GPR55 to cannabinoid ligands. (full - 2009)  
<http://www.jbc.org/content/284/43/29817.full?sid=ec54c280-2526-4d1b-ab9f-73a1ca683a5e>

Is GPR55 an anandamide receptor? (abst - 2009)  
<http://www.ncbi.nlm.nih.gov/pubmed/19647110>

Receptors for acylethanolamides-GPR55 and GPR119. (full – 2009)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751869/?tool=pubmed>

The enigmatic pharmacology of GPR55. (abst - 2009)  
<http://www.ncbi.nlm.nih.gov/pubmed/19233486>

GPR55 ligands promote receptor coupling to multiple signalling pathways. (full – 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931561/?tool=pubmed>

Pharmacological characterization of GPR55, a putative cannabinoid receptor. (abst – 2010)  
[http://www.unboundmedicine.com/medline/ebm/record/20298715/abstract/Pharmacological\\_characterization\\_of\\_GPR55\\_a\\_putative\\_cannabinoid\\_receptor](http://www.unboundmedicine.com/medline/ebm/record/20298715/abstract/Pharmacological_characterization_of_GPR55_a_putative_cannabinoid_receptor)

The atypical cannabinoid O-1602 protects against experimental colitis and inhibits neutrophil recruitment. (abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/21080464>

GPR55: Current Knowledge and Future Perspectives of a Purported "Type-3" Cannabinoid Receptor. (abst - 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20166924>

Cannabinoids and the gut: new developments and emerging concepts (abst - 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20117132>

A role for L-alpha-lysophosphatidylinositol and GPR55 in the modulation of migration, orientation and polarization of human breast cancer cells. (abst - 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20590578>

Cannabinoids and Bone: Friend or Foe? (abst - 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20532878>

Endocannabinoid-like N-arachidonoyl serine is a novel pro-angiogenic mediator.  
(abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20649563>

Pharmacology of GPR55 in yeast and identification of GSK494581A as a mixed-activity glycine transporter subtype 1 inhibitor and GPR55 agonist. (full – 2011)  
<http://jpet.aspetjournals.org/content/337/1/236.long>

Lipid bilayer molecular dynamics study of lipid-derived agonists of the putative cannabinoid receptor, GPR55. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3086297/?tool=pubmed>

Screening for Selective Ligands for GPR55. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/books/NBK66153/>

New blood brothers: the GPR55 and CB2 partnership (full – 2011)  
<http://www.nature.com/cr/journal/vaop/ncurrent/full/cr201177a.html>

Pharmacology of GPR55 in Yeast and Identification of GSK494581A as a Mixed-Activity Glycine Transporter Subtype 1 Inhibitor and GPR55 Agonist (full – 2011)  
<http://jpet.aspetjournals.org/content/337/1/236.full?sid=97274573-5add-46c8-9e15-6b3fe448e8c4>

A role for L-alpha-lysophosphatidylinositol and GPR55 in the modulation of migration, orientation and polarization of human breast cancer cells. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931574/?tool=pubmed>

L- $\alpha$ -lysophosphatidylinositol meets GPR55: a deadly relationship. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21367464>

What is the natural ligand of GPR55? (abst – 2011)  
<http://jb.oxfordjournals.org/content/149/5/495.short?rss=1>

Pharmacology, Signaling and Physiological Relevance of the G Protein-coupled Receptor 55. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21907912>

GPR55 regulates cannabinoid 2 receptor-mediated responses in human neutrophils.  
(abst – 2011)  
[http://www.unboundmedicine.com/medline/ebm/record/21467997/abstract/GPR55\\_regulates\\_cannabinoid\\_2\\_receptor\\_mediated\\_responses\\_in\\_human\\_neutrophils](http://www.unboundmedicine.com/medline/ebm/record/21467997/abstract/GPR55_regulates_cannabinoid_2_receptor_mediated_responses_in_human_neutrophils)

The GPCR - associated sorting protein 1 regulates ligand-induced downregulation of GPR55. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21718301>

Anandamide exerts its antiproliferative actions on cholangiocarcinoma by activation of the GPR55 receptor. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21464819>

The novel cannabinoid receptor GPR55, inhibits cholangiocarcinoma growth (abst – 2011)  
[http://www.fasebj.org/cgi/content/meeting\\_abstract/25/1\\_MeetingAbstracts/1117.3?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcecety pe=HWCIT](http://www.fasebj.org/cgi/content/meeting_abstract/25/1_MeetingAbstracts/1117.3?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcecety pe=HWCIT)

Modulation of the novel cannabinoid receptor - GPR55 - during rat fetoplacental development (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21497900>

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>

The atypical cannabinoid O-1602 protects against experimental colitis and inhibits neutrophil recruitment. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21744421>

The abnormal cannabidiol analogue O-1602 reduces nociception in a rat model of acute arthritis via the putative cannabinoid receptor GPR55. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21683763>

A role for the putative cannabinoid receptor GPR55 in the islets of Langerhans. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21885477>

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Functional polymorphism in the GPR55 gene is associated with anorexia nervosa. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/20506567>

The putative cannabinoid receptor GPR55 defines a novel autocrine loop in cancer cell proliferation. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/20838378>

Off-Target Cannabinoid Effects Mediated by GPR55. (full – 2012)  
<http://content.karger.com/produktedb/produkte.asp?DOI=000336872&typ=pdf>

The L- $\alpha$ -lysophosphatidylinositol/GPR55 system and its potential role in human obesity. (full – 2012) <http://diabetes.diabetesjournals.org/content/61/2/281.long>

The atypical cannabinoid O-1602 increases hind paw sensitisation in the chronic constriction injury model of neuropathic pain. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22227298>

The Endocannabinoids Anandamide and Virodhamine Modulate the Activity of the Candidate Cannabinoid Receptor GPR55. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22454039>

Effects of Palmitoylethanolamide on Aqueous Humor Outflow. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22589443>

The interaction between intrathecal administration of low doses of palmitoylethanolamide and AM251 in formalin-induced pain related behavior and spinal cord IL1- $\beta$  expression in rats. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22201038>

Evidence for the Putative Cannabinoid Receptor (GPR55)-Mediated Inhibitory Effects on Intestinal Contractility in Mice. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22759743>

GPR55 and GPR35 and their relationship to cannabinoid and lysophospholipid receptors. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22820167>

## **CBR - GPR109 CANNABINOID RECEPTOR**

Nicotinic acid inhibits progression of atherosclerosis in mice through its receptor GPR109A expressed by immune cells (full – 2011)  
[http://www.jci.org/articles/view/41651?search\[abstract\\_text\]=&search\[article\\_text\]=cannabinoid&search\[authors\\_text\]=&search\[fpage\]=&search\[issue\]=&search\[title\\_text\]=&search\[volume](http://www.jci.org/articles/view/41651?search[abstract_text]=&search[article_text]=cannabinoid&search[authors_text]=&search[fpage]=&search[issue]=&search[title_text]=&search[volume)

## **CBR - GPR119 CANNABINOID RECEPTOR** - activated by PEA, OEA

A role for beta-cell-expressed G protein-coupled receptor 119 in glycemic control by enhancing glucose-dependent insulin release. (full – 2007)  
<http://endo.endojournals.org/content/148/6/2601.long>

Endogenous and synthetic agonists of GPR119 differ in signalling pathways and their effects on insulin secretion in MIN6c4 insulinoma cells. (full – 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2528830/?tool=pubmed>

Endocannabinoids and nutrition. (full – 2008)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2826.2008.01687.x/full>

GPR119, a novel G protein-coupled receptor target for the treatment of type 2 diabetes and obesity (full - 2008) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2268073/?tool=pmcentrez>

Receptors for acylethanolamides-GPR55 and GPR119. (full – 2009)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751869/?tool=pubmed>

GPR119 is essential for oleoylethanolamide-induced glucagon-like peptide-1 secretion from the intestinal enteroendocrine L-cell. (full – 2009)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2671052/?tool=pubmed>

N-acylethanolamines, anandamide and food intake. (abst – 2009)  
<http://www.ncbi.nlm.nih.gov/pubmed/19413995>

N-oleoyldopamine enhances glucose homeostasis through the activation of GPR119. (full – 2010) <http://mend.endojournals.org/content/24/1/161.long>

GPR119 agonists for the potential treatment of type 2 diabetes and related metabolic disorders. (abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/21094910>

Novel GPR119 agonist AS1535907 contributes to first-phase insulin secretion in rat perfused pancreas and diabetic db/db mice. (abst – 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20937249>

AS1907417, a novel GPR119 agonist, as an insulinotropic and  $\beta$ -cell preservative agent for the treatment of type 2 diabetes. (abst – 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20816753>

GPR119 Regulates Murine Glucose Homeostasis Through Incretin Receptor-Dependent and Independent Mechanisms (abst – 2011)  
<http://endo.endojournals.org/content/152/2/374.abstract?sid=c77be354-b90f-4368-9bb3-fea533824b24>

The cytoprotective effects of oleoylethanolamide in insulin-secreting cells do not require activation of GPR119. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/22029844>

GPR119 as a fat sensor. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22560300>

The cytoprotective effects of oleoylethanolamide in insulin-secreting cells do not require activation of GPR119. (full - 2012)  
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2011.01755.x/full>

Stimulating beta cell replication and improving islet graft function by GPR119 agonists. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/21902730>

## **CELIAC DISEASE**

Overactivity of the intestinal endocannabinoid system in celiac disease and in methotrexate-treated rats. (abst – 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17396241>

Hemp: A replacement for common food allergens? (news - 2009)  
<http://www.examiner.com/x-20151-Manchester-Gluten-Free-Examiner~y2009m8d25-Hemp--A-replacement-for-common-food-allergens>

Celiac Disease and Medical Marijuana (news – 2009)  
<http://pharmacannabis.com/?p=14>

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<http://www.ncbi.nlm.nih.gov/pubmed/22209002>

The Cannabinoid Receptor type 2 Q63R variant increases the risk of celiac disease: Implication for a novel molecular biomarker and future therapeutic intervention. (abst – 2012) <http://www.sciencedirect.com/science/article/pii/S1043661812000540>

## **CEREBRAL PALSY**

Treatment of human spasticity with delta 9-tetrahydrocannabinol. (abst – 1981)  
<http://www.ncbi.nlm.nih.gov/pubmed/6271839>

Endocannabinoids potently protect the newborn brain against AMPA-kainate receptor-mediated excitotoxic damage. (full – 2006)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751782/?tool=pubmed>

Marijuana: an effective antiepileptic treatment in partial epilepsy? A case report and review of the literature. (abst – 2007)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=157&](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=157&)

Cerebral Palsy Victim Sues City Over Medical Marijuana (news/anecdotal – 2011)  
<http://www.prnewswire.com/news-releases/cerebral-palsy-victim-sues-city-over-medical-marijuana-94204279.html>

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<http://theweek.com/article/index/222617/marijuanarsquos-historic-surge-among-teens-4-theories>

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

## **CHOLERA**

Differential cholera-toxin sensitivity of supraspinal antinociception induced by the cannabinoid agonists delta9-THC, WIN 55,212-2 and anandamide in mice.  
(abst – 1999) <http://www.ncbi.nlm.nih.gov/pubmed/10218903>

An endogenous cannabinoid tone attenuates cholera toxin-induced fluid accumulation in mice. (abst – 2003) <http://www.ncbi.nlm.nih.gov/pubmed/12949722>

Marijuana for cholera therapy (letter – 2005)  
<https://www.cell.com/trends/pharmacological-sciences/fulltext/S0165-6147%2805%2900266-X>

## **CHOLESTEROL**

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(full – 1981) <http://atvb.ahajournals.org/cgi/reprint/1/6/449>

Role of activated endocannabinoid system in regulation of cellular cholesterol metabolism in macrophages (full – 2008)  
<http://cardiovascres.oxfordjournals.org/content/81/4/805.full?sid=7d2438c4-a727-410f-870d-4a971695b4fb>

Cholesterol-induced stimulation of platelet aggregation is prevented by a hempseed-enriched diet. (abst – 2008) <http://www.ncbi.nlm.nih.gov/pubmed/18418423>

Lipid rafts regulate 2-arachidonoylglycerol metabolism and physiological activity in the striatum (full – 2009) <http://onlinelibrary.wiley.com/doi/10.1111/j.1471-4159.2009.05948.x/full>

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

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A common CNR1 (cannabinoid receptor 1) haplotype attenuates the decrease in HDL cholesterol that typically accompanies weight gain. (full – 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3013130/?tool=pubmed>

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<http://www.ncbi.nlm.nih.gov/pubmed/20851297>

Functional characterization of putative cholesterol binding sequence (CRAC) in human type-1 cannabinoid receptor (full – 2011)

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

The effects of hempseed meal intake and linoleic acid on Drosophila models of neurodegenerative diseases and hypercholesterolemia. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21331775>

The effect of dietary hempseed on atherogenesis and contractile function in aortae from hypercholesterolemic rabbits.

(abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21893466>

How marijuana could help cure obesity-related diseases (news – 2012)

<http://news.yahoo.com/marijuana-could-help-cure-obesity-related-diseases-175900182.html>

## **CHRONIC FATIGUE SYNDROME/ MYALGIC ENCEPHALOMYELITIS**

Myalgic Encephalomyelitis by Anonymous (anecdotal – undated)

[http://www.rxmarijuana.com/shared\\_comments/Myalgic\\_Encephalomyelitis.htm](http://www.rxmarijuana.com/shared_comments/Myalgic_Encephalomyelitis.htm)

A Practical treatise on nervous exhaustion (neurasthenia) aka Chronic Fatigue Syndrome (full – 1894)

<http://www.scribd.com/doc/49652565/Chronic-Fatigue-Syndrome-Cannabis-Treatment-1894>

Medical marijuana shows promise for pain (news – 2012)

[http://sacfs.asn.au/news/2012/01/01\\_08\\_medical\\_marijuana\\_shows\\_promise\\_for\\_pain.htm](http://sacfs.asn.au/news/2012/01/01_08_medical_marijuana_shows_promise_for_pain.htm)

COGNATIVE EFFECTS- see IQ

## COLITIS

Ulcerative Colitis and Marijuana (letter - 1990)

<http://www.druglibrary.org/schaffer/hemp/medical/colitis1.htm>

Agonists of cannabinoid receptor 1 and 2 inhibit experimental colitis induced by oil of mustard and by dextran sulfate sodium. (full – 2006)

<http://ajpgi.physiology.org/content/291/2/G364.long>

Ulcerative colitis in AKR mice is attenuated by intraperitoneally administered anandamide. (full – 2008)

[http://www.jpp.krakow.pl/journal/archive/12\\_08/pdf/673\\_12\\_08\\_article.pdf](http://www.jpp.krakow.pl/journal/archive/12_08/pdf/673_12_08_article.pdf)

Targeting endocannabinoid degradation protects against experimental colitis in mice: involvement of CB1 and CB2 receptors. (abst – 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18493729>

Activation of the cannabinoid 2 receptor (CB2) protects against experimental colitis.

(full - 2009) <http://onlinelibrary.wiley.com/doi/10.1002/ibd.20960/full>

Ulcerative Colitis Induces Changes on the Expression of the Endocannabinoid System in the Human Colonic Tissue (full - 2009)

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### **HU-211 / DEXANABINOL** - synthetic, CB 2 agonist

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HU-211, a nonpsychotropic cannabinoid, produces short- and long-term neuroprotection after optic nerve axotomy. (abst – 1996) <http://www.ncbi.nlm.nih.gov/pubmed/8714863>

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Cytokine production in the brain following closed head injury: dexamabinol (HU-211) is a novel TNF- $\alpha$  inhibitor and an effective neuroprotectant. (abst – 1997) <http://www.ncbi.nlm.nih.gov/pubmed/9042110>

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Latest Studies Imply That Cannabinoids Are Protective Against Alcohol-Induced Brain Damage (news – 2011) <http://networkedblogs.com/mFuuX>

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HU-308: a specific agonist for CB(2), a peripheral cannabinoid receptor. (full - 1999)  
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Non-psychoactive CB2 cannabinoid agonists stimulate neural progenitor proliferation  
(full - 2005)  
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Cannabinoid CB2 receptor agonist activity in the hindpaw incision model of postoperative pain. (abst - 2005) <http://www.ncbi.nlm.nih.gov/pubmed/16316653>

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Non-psychoactive CB2 cannabinoid agonists stimulate neural progenitor proliferation  
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Cannabinoid-2 receptor agonist HU-308 protects against hepatic ischemia/reperfusion injury by attenuating oxidative stress, inflammatory response, and apoptosis (full - 2007) <http://www.jleukbio.org/cgi/content/full/82/6/1382>

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Cannabinoids ameliorate disease progression in a model of multiple sclerosis in mice, acting preferentially through CB(1) receptor-mediated anti-inflammatory effects. (abst - 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22342378>

## **HU-310**

The cannabinoids R(-)-7-hydroxy-delta-6-tetra-hydrocannabinol-dimethylheptyl (HU-210), 2-O-arachidonoylglycerylether (HU-310) and arachidonyl-2-chloroethylamide (ACEA) increase isoflurane provoked sleep duration by activation of cannabinoids 1 (CB1)-receptors in mice. (abst – 2002) <http://www.ncbi.nlm.nih.gov/pubmed/12095655>

**HU-320** - synthetic

A novel synthetic, nonpsychoactive cannabinoid acid (HU-320) with antiinflammatory properties in murine collagen-induced arthritis. (full- 2004)  
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**HU-239**- see Ajulemic Acid

**HU-331** - synthetic

A cannabinoid quinone inhibits angiogenesis by targeting vascular endothelial cells. (full - 2006) <http://molpharm.aspetjournals.org/content/70/1/51.long>

A Cannabinoid Anticancer Quinone, HU-331, Is More Potent and Less Cardiotoxic Than Doxorubicin: A Comparative in Vivo Study (full - 2007)  
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**HU-910** – synthetic, CB2 agonist

A new cannabinoid 2 receptor agonist HU-910 attenuates oxidative stress, inflammation, and cell death associated with hepatic ischemia/reperfusion injury. (abst – 2011)  
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**HUMAN ENDOCANNABINOID SYSTEM GENETICS**

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Marijuana receptor gene abnormality in schizophrenia (news – 2002) [http://www.eurekalert.org/pub\\_releases/2002-07/mp-mrg061802.php](http://www.eurekalert.org/pub_releases/2002-07/mp-mrg061802.php)

Human cannabinoid receptor 1: 5' exons, candidate regulatory regions, polymorphisms, haplotypes and association with polysubstance abuse. (full – 2004) <http://www.nature.com/mp/journal/v9/n10/full/4001560a.html>

Association study of cannabinoid receptor gene (CNR1) alleles and anorexia nervosa: differences between restricting and bingeing/purging subtypes. (abst – 2004) <http://www.ncbi.nlm.nih.gov/pubmed/14755457>

Depression in Parkinson's disease is related to a genetic polymorphism of the cannabinoid receptor gene (CNR1) (full - 2005) <http://www.nature.com/tpj/journal/v5/n2/full/6500301a.html>

Cannabinoid receptor type 2 gene is associated with human osteoporosis (full - 2005) <http://hmg.oxfordjournals.org/cgi/content/full/14/22/3389?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=400&resourcetype=HWCIT>

Women with a variant of the CB2 gene have a three-fold higher risk of osteoporosis (news – 2006) [http://www.xagenait/news/medicineneeds\\_net\\_news/8f1bac3967e0ff70ebc09d8ca5e08633.html](http://www.xagenait/news/medicineneeds_net_news/8f1bac3967e0ff70ebc09d8ca5e08633.html)

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### **JWH-015** – synthetic, CB2 & GPR-55 agonist

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**JWH-018** – synthetic, CB1 agonist

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**JWH-073** - synthetic, CB1 & CB2 agonist

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[http://www.unboundmedicine.com/medline/ebm/record/19718488/abstract/%5BSpice drugs: cannabinoids as a new designer drugs %5D](http://www.unboundmedicine.com/medline/ebm/record/19718488/abstract/%5BSpice%20drugs%3A%20cannabinoids%20as%20a%20new%20designer%20drugs%5D)

Spice: a never ending story? (abst – 2009) <http://www.ncbi.nlm.nih.gov/pubmed/19589652>

Chemical analysis of synthetic cannabinoids as designer drugs in herbal products.  
(abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20117892>

Monitoring of herbal mixtures potentially containing synthetic cannabinoids as  
psychoactive compounds. (abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20857386>

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Increased Abuse of Spice/K2 (news - 2010)  
<http://www.marketwire.com/press-release/Now-Theres-Test-That-Norchems-Fake-Marijuana-Test-Reveals-Significantly-Increased-Abuse-1356247.htm>

College students and use of K2: an emerging drug of abuse in young persons  
(full – 2011) <http://www.substanceabusepolicy.com/content/6/1/16>

Beyond THC: The New Generation of Cannabinoid Designer Drugs. (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3187647/?tool=pubmed>

Marijuana-based Drugs: Innovative Therapeutics or Designer Drugs of Abuse?  
(full – 2011) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3139381/?tool=pubmed>

"Spice" girls: synthetic cannabinoid intoxication. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21167669>

Three cases of "spice" exposure. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21740143>

Cardiotoxicity associated with the synthetic cannabinoid, K9, with laboratory  
confirmation. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21802885>

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<http://www.ncbi.nlm.nih.gov/pubmed/21316162>

Comparison of "herbal highs" composition. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21318244>



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'Fake Marijuana' May Trigger Heart Trouble in Teens (news – 2011)

<http://health.yahoo.net/news/s/hsn/fakemarijuanamaytriggerhearttroubleinteens>

CP47,497-C8 and JWH073, commonly found in 'Spice' herbal blends, are potent and efficacious CB(1) cannabinoid receptor agonists. (abst – 2011)

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Chemicals Used in "Spice" and "K2" Type Products Now Under Federal Control and Regulation (news – 2011) <http://www.justice.gov/dea/pubs/pressrel/pr030111.html>

NMS Labs & Cerilliant Announce Identification Of Major Metabolite Of The Synthetic Cannabinoid JWH-073 (news – 2011)

<http://www.medicalnewstoday.com/releases/226597.php>

A Characterization of Synthetic Cannabinoid Exposures Reported to the National Poison Data System in 2010 (full – 2012)

<http://www.annemergmed.com/webfiles/images/journals/ymem/FA-cohoyte.pdf>

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[http://www.unboundmedicine.com/medline/ebm/record/21965552/abstract/JWH\\_018\\_and\\_JWH\\_073:\\_%7BDelta%7D9\\_Tetrahydrocannabinol\\_Like\\_Discriminative\\_Stimulus\\_Effects\\_in\\_Monkeys\\_](http://www.unboundmedicine.com/medline/ebm/record/21965552/abstract/JWH_018_and_JWH_073:_%7BDelta%7D9_Tetrahydrocannabinol_Like_Discriminative_Stimulus_Effects_in_Monkeys_)

Detection and disposition of JWH-018 and JWH-073 in mice after exposure to "Magic Gold" smoke. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22405481>

Monohydroxylated metabolites of the K2 synthetic cannabinoid JWH-073 retain intermediate to high cannabinoid 1 receptor (CB1R) affinity and exhibit neutral antagonist to partial agonist activity. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22266354>

Simultaneous analysis of several synthetic cannabinoids, THC, CBD and CBN, in hair by ultra-high performance liquid chromatography tandem mass spectrometry. Method validation and application to real samples. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22576873>

Synthetic marijuana was created strictly for research at Clemson (news – 2012)

<http://www.timesnews.net/article/9042095/synthetic-marijuana-was-created-strictly-for-research-at-clemson>

**JWH-100 / AM -678** - synthetic, CB1 agonist

College students and use of K2: an emerging drug of abuse in young persons  
(full – 2011) <http://www.substanceabusepolicy.com/content/6/1/16>

Chemicals Used in "Spice" and "K2" Type Products Now Under Federal Control and  
Regulation (news – 2011) <http://www.justice.gov/dea/pubs/pressrel/pr030111.html>

**JWH-122** – synthetic, CB1 agonist

Analysis of 30 synthetic cannabinoids in serum by liquid chromatography-electrospray  
ionization tandem mass spectrometry after liquid-liquid extraction (abst – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1002/jms.3020/abstract>

**JWH-133/ 3-(1,1-dimethylbutyl)-1-deoxy-8-THC** - synthetic, CB2 agonist

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>

Inhibition of guinea-pig and human sensory nerve activity and the cough reflex in guinea-  
pigs by cannabinoid (CB2) receptor activation. (full - 2003)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574031/?tool=pubmed>

Effects of cannabinoid receptor-2 activation on accelerated gastrointestinal transit in  
lipopolysaccharide-treated rats (full - 2004)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1575196/?tool=pmcentrez>

Non-psychoactive CB2 cannabinoid agonists stimulate neural progenitor proliferation  
(full - 2006)  
<http://www.fasebj.org/cgi/content/full/20/13/2405?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HWCIT>

Agonists of cannabinoid receptor 1 and 2 inhibit experimental colitis induced by oil of  
mustard and by dextran sulfate sodium. (full – 2006)  
<http://ajpgi.physiology.org/content/291/2/G364.long>

Signaling pathways involved in the cardioprotective effects of cannabinoids.  
(full - 2006) [https://www.jstage.jst.go.jp/article/jphs/102/2/102\\_2\\_155/pdf](https://www.jstage.jst.go.jp/article/jphs/102/2/102_2_155/pdf)

Cannabinoid-2 receptor mediates protection against hepatic ischemia/reperfusion injury (full - 2007) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228252/?tool=pmcentrez>

Cannabinoids Induce Glioma Stem-like Cell Differentiation and Inhibit Gliomagenesis (full - 2007) <http://www.jbc.org/content/282/9/6854.long>

Anti-inflammatory property of the cannabinoid receptor-2-selective agonist JWH-133 in a rodent model of autoimmune uveoretinitis (full - 2007)  
<http://www.jleukbio.org/cgi/reprint/82/3/532?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT>

In vivo effects of CB2 receptor-selective cannabinoids on the vasculature of normal and arthritic rat knee joints (full - 2007)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219539/?tool=pmcentrez>

Influence of nicotinic receptor modulators on CB2 cannabinoid receptor agonist (JWH133)-induced antinociception in mice. (abst – 2007)  
<http://www.ncbi.nlm.nih.gov/pubmed/17912054>

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>

Regression of Fibrosis after Chronic Stimulation of Cannabinoid CB2 Receptor in Cirrhotic Rats (full - 2008)  
<http://jpet.aspetjournals.org/content/324/2/475.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT#content-block>

Additive Interaction of the Cannabinoid Receptor I Agonist Arachidonyl-2-chloroethylamide with Etomidate in a Sedation Model in Mice (full – 2008)  
[http://journals.lww.com/anesthesiology/Fulltext/2008/04000/Additive\\_Interaction\\_of\\_the\\_Cannabinoid\\_Receptor\\_I.19.aspx](http://journals.lww.com/anesthesiology/Fulltext/2008/04000/Additive_Interaction_of_the_Cannabinoid_Receptor_I.19.aspx)

Cannabinoid receptor agonists inhibit growth and metastasis of breast cancer (abst - 2008)  
[http://www.aacrmeetingabstracts.org/cgi/content/meeting\\_abstract/2008/1\\_Annual\\_Meeting/4081?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=480&resourcetype=HWCIT](http://www.aacrmeetingabstracts.org/cgi/content/meeting_abstract/2008/1_Annual_Meeting/4081?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=480&resourcetype=HWCIT)

Cannabinoid 2 receptor induction by IL-12 and its potential as a therapeutic target for the treatment of anaplastic thyroid carcinoma. (abst - 2008)  
[http://www.unboundmedicine.com/medline/ebm/record/18197164/full\\_citation/Cannabinoid\\_2\\_receptor\\_induction\\_by\\_IL\\_12\\_and\\_its\\_potential\\_as\\_a\\_therapeutic\\_target\\_for\\_the\\_treatment\\_of\\_anaplastic\\_thyroid\\_carcinoma](http://www.unboundmedicine.com/medline/ebm/record/18197164/full_citation/Cannabinoid_2_receptor_induction_by_IL_12_and_its_potential_as_a_therapeutic_target_for_the_treatment_of_anaplastic_thyroid_carcinoma)

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2688760/?tool=pubmed>

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

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

Synthetic cannabinoid receptor agonists inhibit tumor growth and metastasis of breast cancer (full - 2009) <http://mct.aacrjournals.org/content/8/11/3117.full>

CB2 cannabinoid receptor activation is cardioprotective in a mouse model of ischemia/reperfusion (abst - 2009) <http://www.ncbi.nlm.nih.gov/pubmed/19162037>

Cannabinoids reduce ErbB2-driven breast cancer progression through Akt inhibition (full - 2010) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2917429/?tool=pmcentrez>

Activation of cannabinoid 2 receptors protects against cerebral ischemia by inhibiting neutrophil recruitment. (full - 2010) <http://www.fasebj.org/content/24/3/788.long>

Antitumorigenic Effects of Cannabinoids beyond Apoptosis (full - 2010)

<http://jpet.aspetjournals.org/content/332/2/336.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17>

Cannabinoid (JWH-133) therapy could be effective for treatment of corneal neovascularization (link to PDF - 2010)

<http://www.doaj.org/doi/func=abstract&id=844832&q1=cannabinoid&f1=all&b1=or&q2=cannabis&f2=all&recNo=68&uiLanguage=en>

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>

Brain cannabinoid CB2 receptors modulate cocaine's actions in mice (abst - 2011)

<http://www.nature.com/neuro/journal/vaop/ncurrent/full/nn.2874.html>

Atheroprotection via cannabinoid receptor-2 is mediated by circulating and vascular cells in vivo. (abst - 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21884703>

Antinociceptive effects induced through the stimulation of spinal cannabinoid type 2 receptors in chronically inflamed mice (abst - 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21771590/abstract/Antinociceptive\\_effects\\_induced\\_through\\_the\\_stimulation\\_of\\_spinal\\_cannabinoid\\_type\\_2\\_receptors\\_in\\_chronically\\_inflamed\\_mice](http://www.unboundmedicine.com/medline/ebm/record/21771590/abstract/Antinociceptive_effects_induced_through_the_stimulation_of_spinal_cannabinoid_type_2_receptors_in_chronically_inflamed_mice)

Cannabinoid receptor-2 (CB2) agonist ameliorates colitis in IL-10(-/-) mice by attenuating the activation of T cells and promoting their apoptosis. (abst - 2011)

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Beneficial paracrine effects of cannabinoid receptor 2 on liver injury and regeneration.  
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Prolonged oral Cannabinoid Administration prevents Neuroinflammation, lowers beta-amyloid Levels and improves Cognitive Performance in Tg APP 2576 Mice.

(full – 2012) <http://www.jneuroinflammation.com/content/pdf/1742-2094-9-8.pdf>

Cannabinoid Receptor 2-Mediated Attenuation of CXCR4-Tropic HIV Infection in Primary CD4+ T Cells (full – 2012)

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0033961>

Cannabinoid type 2 receptor activation downregulates stroke-induced classic and alternative brain macrophage/microglial activation concomitant to neuroprotection.

(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22020035>

Activation of cannabinoid receptor 2 attenuates leukocyte-endothelial cell interactions and blood-brain barrier dysfunction under inflammatory conditions. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22442067>

Cannabinoid receptor 2 agonist ameliorates mesenteric angiogenesis and portosystemic collaterals in cirrhotic rats. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22290687>

Cannabinoid receptor CB2 protects against balloon-induced neointima formation.

(abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22227125>

**JWH – 150** -synthetic, CB2 agonist

Cannabinoid Receptor 2-Mediated Attenuation of CXCR4-Tropic HIV Infection in Primary CD4+ T Cells (full – 2012)

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0033961>

**JWH-210** – synthetic, CB1 agonist

Analysis of 30 synthetic cannabinoids in serum by liquid chromatography-electrospray ionization tandem mass spectrometry after liquid-liquid extraction (abst – 2012)  
<http://onlinelibrary.wiley.com/doi/10.1002/jms.3020/abstract>

## **KIDNEYS**

Cream with endocannabinoids effective in the treatment of pruritus due to kidney disease (news - 2005) [http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=207](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=207)

Modulation of P-glycoprotein activity by cannabinoid molecules in HK-2 renal cells (full - 2006) <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1751877&tool=pmcentrez>

Regulation of Bone Mass, Osteoclast Function, and Ovariectomy-Induced Bone Loss by the Type 2 Cannabinoid Receptor (full - 2008)  
<http://endo.endojournals.org/cgi/content/full/149/11/5619?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT>

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Ajulemic acid, a synthetic cannabinoid, increases formation of the endogenous proresolving and anti-inflammatory eicosanoid, lipoxin A4 (full - 2009)  
<http://www.fasebj.org/cgi/content/full/23/5/1503?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=2400&resourcetype=HWCIT>

The GPR55 ligand L-alpha-lysophosphatidylinositol promotes RhoA-dependent Ca<sup>2+</sup> signaling and NFAT activation. (full – 2009) <http://www.fasebj.org/content/23/1/183.long>

Cannabinoid Receptor 1 Blockade Ameliorates Albuminuria in Experimental Diabetic Nephropathy (full – 2010)  
<http://diabetes.diabetesjournals.org/content/59/4/1046.full?sid=0bc8e3fa-5275-4b19-8acc-4aec5dfac384>

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2869084/?tool=pubmed>

Expression of cannabinoid receptors in human kidney. (abst – 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/20607655>

Cannabidiol Attenuates Cisplatin-Induced Nephrotoxicity by Decreasing Oxidative/Nitrosative Stress, Inflammation, and Cell Death (full – 2011)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2682269/>

Pharmacology of GPR55 in yeast and identification of GSK494581A as a mixed-activity glycine transporter subtype 1 inhibitor and GPR55 agonist. (full – 2011)

<http://jpet.aspetjournals.org/content/337/1/236.long>

Protective Role of Cannabinoid Receptor Type 2 in a Mouse Model of Diabetic Nephropathy. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21810593>

Distinctive effects of plant protein sources on renal disease progression and associated cardiac hypertrophy in experimental kidney disease. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21294251>

Is there a legitimate role for the therapeutic use of cannabinoids for symptom management in chronic kidney disease? (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21269798>

Cannabinoid hyperemesis syndrome inducing acute prerenal failure and electrolyte disturbance. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21877303>

$\beta$ -Caryophyllene ameliorates cisplatin-induced nephrotoxicity in a cannabinoid 2 receptor-dependent manner. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22326488>

Outbreak of kidney failure in Wyoming linked to "Spice" (news – 2012)

<http://news.yahoo.com/outbreak-kidney-failure-wyoming-linked-spice-024307988.html>

Wyoming kidney failure outbreak linked to designer 'blueberry spice' drug, aka 'legal marijuana' (news – 2012)

[http://www.naturalnews.com/035181\\_spice\\_recreational\\_drugs\\_kidney\\_failure.html](http://www.naturalnews.com/035181_spice_recreational_drugs_kidney_failure.html)

### **KN38-7271/ BAY38-7271** – synthetic, CB1 & CB2 agonist

Characterization of the diarylether sulfonylester (-)-(R)-3-(2-hydroxymethylindanyl-4-oxy)phenyl-4,4,4-trifluoro-1-sulfonate (BAY 38-7271) as a potent cannabinoid receptor agonist with neuroprotective properties. (full – 2002)

<http://jpet.aspetjournals.org/content/302/1/359.long>

BAY 38-7271: a novel highly selective and highly potent cannabinoid receptor agonist for the treatment of traumatic brain injury. (abst – 2003)

<http://www.ncbi.nlm.nih.gov/pubmed/14647528>

Neuroprotective and brain edema-reducing efficacy of the novel cannabinoid receptor agonist BAY 38-7271. (abst – 2003)

<http://www.ncbi.nlm.nih.gov/pubmed/14519516>

Brain injury drug KN38-7271 increases survival: KeyNeurotek (news – 2009)  
<http://www.dancewithshadows.com/pillscribe/brain-injury-drug-kn38-7271-increases-survival-keyneurotek/>

Early Survival of Comatose Patients after Severe Traumatic Brain Injury with the Dual Cannabinoid CB1/CB2 Receptor Agonist KN38-7271: A Randomized, Double-Blind, Placebo-Controlled Phase II Trial. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22696266>

**KNOCK-OUT MICE** – examples of severely defective endocannabinoid systems.

Increased Mortality, Hypoactivity, and Hypoalgesia in Cannabinoid Cb1 Receptor Knockout Mice. (full – 1999) <http://www.pnas.org/content/96/10/5780.long>

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(abst - 2000) <http://www.medical-hypotheses.com/article/S0306-9877%2800%2991261-1/abstract>

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Increased Severity of Stroke in CB1 Cannabinoid Receptor Knock-Out Mice  
(full - 2002)  
<http://www.jneurosci.org/cgi/content/full/22/22/9771?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&resourcetype=HWCIT#Top>

Lack of CB1 cannabinoid receptors modifies nicotine behavioural responses, but not nicotine abstinence. (abst – 2002) <http://www.ncbi.nlm.nih.gov/pubmed/12384171>

Milk intake and survival in newborn cannabinoid CB1 receptor knockout mice: evidence for a "CB3" receptor. (abst – 2003) <http://www.ncbi.nlm.nih.gov/pubmed/12568912>

Cannabinoid Cb1 Receptor Knockout Mice Exhibit Markedly Reduced Voluntary Alcohol Consumption and Lack Alcohol-induced Dopamine Release in the Nucleus Accumbens. (abst – 2003)  
<http://medical-journals.healia.com/doc/12562514/Cannabinoid-CB1-receptor-knockout-mice-exhibit-markedly-reduced-voluntary-alcohol-consumption-and-lack-alcohol-induced-dopamine-release-in-the-nucleus-accumbens>

Defective adult neurogenesis in CB1 cannabinoid receptor knockout mice. (full - 2004)  
<http://molpharm.aspetjournals.org/content/66/2/204.long>



CB1 cannabinoid receptor knockout in mice leads to leanness, resistance to diet-induced obesity and enhanced leptin sensitivity (full - 2004)

<http://www.nature.com/ijo/journal/v28/n4/full/0802583a.html>

Context-dependent effects of CB1 cannabinoid gene disruption on anxiety-like and social behaviour in mice (abst – 2004)

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<http://medical-journals.healio.com/doc/12770700/Overeating-alcohol-and-sucrose-consumption-decrease-in-CB1-receptor-deleted-mice>

Ethanol Induces Higher Bec in Cb1 Cannabinoid Receptor Knockout Mice While Decreasing Ethanol Preference. (full – 2005)

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Early age-related cognitive impairment in mice lacking cannabinoid CB1 receptors.

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Cannabinoid-receptor 1 null mice are susceptible to neurofilament damage and caspase 3 activation. (abst – 2005) <http://www.ncbi.nlm.nih.gov/pubmed/15953683>

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Turned-Off Cannabinoid Receptor Turns On Colorectal Tumor Growth (news - 2008)

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Altered CB1 receptor and endocannabinoid levels precede motor symptom onset in a transgenic mouse model of Huntington's disease. (abst – 2009)

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Exogenous lipid pneumonia related to smoking weed oil following cadaveric renal transplantation (link to PDF - 2000) <http://www.ncbi.nlm.nih.gov/sites/pubmed>

Cannabinoids and the immune system. Of men, mice and cells (abst – 2004)

<http://pharmgkb.org/pmid/15221424>

Bullous disease of the lung and cannabis smoking: insufficient evidence for a causative link (full - 2006) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1360494/?tool=pmcentrez>

Effects of Marijuana Smoking on Pulmonary Function and Respiratory Complications: A Systematic Review (full - 2007)

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<http://www.heraldsun.com.au/news/breaking-news/occasional-marijuana-use-boosts-lungs/story-e6frf7jx-1226241475448>

Pot smokers don't puff away lung health: study (news – 2012)  
<http://www.reuters.com/article/2012/01/11/us-pot-health-idUSTRE8092BC20120111>

Science Says: Lungs Love Weed (news – 2012)  
<http://www.takepart.com/article/2012/01/11/marijuana-not-bad-your-lungs>

## **LUPUS ERYTHEMATOSUS**

Systemic Lupus Erythematosus by Lisa Swiderski (anecdotal - undated)  
<http://rxmarijuana.com/lupus.htm>

Lupus by Randi Cox (anecdotal – undated)  
[http://rxmarijuana.com/shared\\_comments/lupus2.htm](http://rxmarijuana.com/shared_comments/lupus2.htm)

Cannabis May Suppress Immune System (news - 2003)  
<http://lupus.webmd.com/news/20030415/cannabis-may-suppress-immune-system>

Systemic Lupus by Dawn (anecdotal - 2005)  
<http://www.erowid.org/experiences/exp.php?ID=49481>

Suppression of human macrophage interleukin-6 by a nonpsychoactive cannabinoid acid.  
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Plaquenil, Rheumatoid Arthritis, Lupus and Marijuana (Cannabis) (news – 2010)  
<http://www.mcsocal.com/blog/plaquenil-rheumatoid-arthritis-lupus-and-marijuana-cannabis>

## **LYME DISEASE**

Lyme Disease by Cynkay Morningstar (anecdotal – undated)  
[http://rxmarijuana.com/shared\\_comments/Lyme\\_Disease.htm](http://rxmarijuana.com/shared_comments/Lyme_Disease.htm)

Lyme Disease - Cannabis Treatment (news/anecdotal – undated)  
<http://medicalmarijuana.com/medical-uses/condition.cfm?conID=55>

Cannabis Alleviates Symptoms of Lyme Disease! (news – 2010)  
<http://ezinearticles.com/?Cannabis-Alleviates-Symptoms-of-Lyme-Disease!&id=4979819>

Medical Marijuana and Lyme Disease...Alexis' story (news/anecdotal – 2012)  
<http://www.doobons.com/blog/2012/02/22/medical-marijuana-and-lyme-disease-alexis-story/>

This for That: Lyme Disease (news/anecdotal – 2012)  
<http://the420times.com/2012/01/this-for-that-lyme-disease/>

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Changes in endocannabinoid and palmitoylethanolamide levels in eye tissues of patients with diabetic retinopathy and age-related macular degeneration. (abst – 2006)  
<http://www.ncbi.nlm.nih.gov/pubmed/17011761>

Mediation of Cannabidiol Anti-inflammation in the Retina by Equilibrative Nucleoside Transporter and A2A Adenosine Receptor (full – 2008)

<http://www.iovs.org/content/49/12/5526.full>

Presence and regulation of cannabinoid receptors in human retinal pigment epithelial cells. (full – 2009)

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Nonpsychoactive Cannabidiol Prevents Prion Accumulation and Protects Neurons against Prion Toxicity (full - 2007) <http://www.jneurosci.org/cgi/content/full/27/36/9537>

Recent News: Marijuana (Cannabis) May Prevent Mad Cow Disease

(news - 2007) <http://www.evilmamacow.org/marijuana-prevents-mad-cow-disease.php>

Cannabidiol May be Effective in Preventing Bovine Spongiforme Enzcephalopathy (Mad Cow Disease) (news - 2007) <http://www.letfreedomgrow.com/articles/fr070916.htm>

Pot Compound Protective Against ‘Mad Cow’ Disease, Other Fatal Brain Disorders, Study Says (news - 2007) [http://www.norml.org/index.cfm?Group\\_ID=7362](http://www.norml.org/index.cfm?Group_ID=7362)

Pot smoking could stop Mad Cow Disease? (news - 2008)

<http://chattahbox.com/curiosity/2008/12/06/pot-smoking-could-stop-mad-cow-disease/>

### **MARINOL**- a synthetic THC - also see DRONABINOL

Cannabinoids (encyclopedia entry) <http://www.chemie.de/lexikon/e/Cannabinoids/>

CANNABIS AND MARINOL IN THE TREATMENT OF MIGRAINE HEADACHE (letter - undated) <http://www.druglibrary.org/schaffer/hemp/migrn2.htm>

Chronic Migraine Headache: five cases successfully treated with Marinol and/or illicit cannabis. (abst - 1991) <http://www.druglibrary.org/schaffer/hemp/migrn1.htm>

Abuse potential of dronabinol (Marinol). (abst – 1998)

<http://www.ncbi.nlm.nih.gov/pubmed/9692381>



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)

Healing Haze? (news - 2001) <http://www.scientificamerican.com/article.cfm?id=healing-haze>

The Role of Cannabis and Cannabinoids in Pain Management (full – 2002)

[http://www.humanhemphealth.ca/Russo-AAPM\\_chapter.pdf](http://www.humanhemphealth.ca/Russo-AAPM_chapter.pdf)

Marinol Death Sentence: Oregon Man Denied Liver Transplant Because of Prescription - He's Not the Only One (news – 2003)

<http://stopthedrugwar.org/chronicle-old/299/notransplant.shtml>

MARINOL® (Dronabinol) Capsules (monograph - 2004)

<http://www.fda.gov/ohrms/dockets/dockets/05n0479/05N-0479-emc0004-04.pdf>

Marinol vs Natural Cannabis (full - 2005)

[http://www.norml.org/pdf\\_files/NORML\\_Marinol\\_vs\\_Natural\\_Cannabis.pdf](http://www.norml.org/pdf_files/NORML_Marinol_vs_Natural_Cannabis.pdf)

Testimony of Terry Jacobs to FDA - why he prefers for medical marijuana to Marinol (news/anecdotal - 2005)

<http://www.examiner.com/examiner/x-19678-Cannabis-Revolution-Examiner~y2009m11d5-Testimony-of-Terry-Jacobs-to-FDA--why-he-prefers-for-medical-marijuana-to-Marinol>

Cannabinoids In Medicine: A Review Of Their Therapeutic Potential (full – 2006)

<http://www.doctordeluca.com/Library/WOD/WPS3-MedMj/CannabinoidsMedMetaAnalysis06.pdf>

Big Pharma's Strange Holy Grail: Cannabis Without Euphoria? (news - 2006)

<http://www.counterpunch.org/gardner07082006.html>

ACG: Cannabinoid Activator Mellows Out Colon (news - 2006)

<http://www.medpagetoday.com/MeetingCoverage/ACG/4410>

Cannabinoids in the management of difficult to treat pain (full -2008)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2503660/?tool=pmcentrez>

Medical use of cannabinoids does not cause an increase in serious adverse health effects

(news - 2008) [http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=272](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=272)

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<http://medicalmarijuana.procon.org/view.resource.php?resourceID=145>

Emerging strategies for exploiting cannabinoid receptor agonists as medicines.

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<http://www.cbsnews.com/stories/2009/08/03/health/main5209380.shtml>

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<http://www.examiner.com/examiner/x-19678-Cannabis-Revolution-Examiner~y2009m10d23-The-FDA-has-written-documentation-that-patients-can-overdose-on-Marinol-and-that-it-can-be-lethal>

Medications That Cause Excessive Sweating (news – 2010)

<http://www.livestrong.com/article/264809-medications-that-cause-excessive-sweating/>

Nature's (Legal) Cannabinoids (news - 2010)

<http://www.mapinc.org/drugnews/v10/n126/a04.html?1194>

Oral THC Reduces Aggressive Behavior In Patients With Refractory Psychosis, Study Says (news - 2010) [http://www.norml.org/index.cfm?Group\\_ID=8419](http://www.norml.org/index.cfm?Group_ID=8419)

Is Pot Good For You? (news – 2011)

<http://www.time.com/time/magazine/article/0,9171,1003570,00.html>

DRONABINOL capsule [Watson Laboratories, Inc.] (monograph - 2012)

<http://dailymed.nlm.nih.gov/dailymed/lookup.cfm?setid=1f1af798-17d5-47d0-b129-21d4aa1eb125>

Side Effects of the Marinol Pill (news – 2012)

<http://www.livestrong.com/article/90879-side-effects-marinol-pill/>

My Life With Stiff Person Syndrome (anecdotal – 2012)

<http://tanyaslifewithsps.com/2012/05/03/dont-remind-me-i-already-know-sps-update-5312/>

**MDA- 19** – synthetic, strong CB2 agonist

Design and synthesis of a novel series of N-alkyl isatin acylhydrazone derivatives that act as selective cannabinoid receptor 2 agonists for the treatment of neuropathic pain.

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Pharmacological characterization of a novel cannabinoid ligand, MDA19, for treatment of neuropathic pain. (full – 2010) <http://www.anesthesia-analgesia.org/content/111/1/99.long>

Studies demonstrate analgesic properties of synthetic cannabinoid (news – 2010)

<http://www.news-medical.net/news/20100702/Studies-demonstrate-analgesic-properties-of-synthetic-cannabinoid.aspx>

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Treatment of Meige's syndrome with cannabidiol. (abst - 1984)

[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=114](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=114)

Open label evaluation of cannabidiol in dystonic movement disorders.  
(full - 1986) <http://web.acsalaska.net/~warmgun/es017.html>

MEMORY- see IQ

## **MENIERE'S SYNDROME**

Menière's Syndrome by Charlie Ritchie (anecdotal - undated)  
[http://www.rxmarijuana.com/shared\\_comments/ritchie.htm](http://www.rxmarijuana.com/shared_comments/ritchie.htm)

Doctors say cannabis treats Meniere's disease (news - 2005)  
<http://cannablog.wordpress.com/2006/09/30/doctors-say-cannabis-treats-menieres-disease/>

## **MENINGITIS**

A novel nonpsychotropic cannabinoid, HU-211, in the treatment of experimental pneumococcal meningitis. (full – 1996)  
<http://jid.oxfordjournals.org/content/173/3/735.long>

## **MENOPAUSE** -also see AGING, GYNOCOLOGY

Post-Menopausal Hot Flashes by Anonymous (abst – undated)  
[http://www.rxmarijuana.com/shared\\_comments/menopause.htm](http://www.rxmarijuana.com/shared_comments/menopause.htm)

Acute effects of marihuana on luteinizing hormone in menopausal women. (abst – 1985)  
<http://www.ncbi.nlm.nih.gov/pubmed/3001780>

Effects of acute marijuana smoking in post-menopausal women. (abst – 1986)  
<http://www.ncbi.nlm.nih.gov/pubmed/3094054>

Estrogen stimulates arachidonoyl ethanolamide release from human endothelial cells and platelet activation (full – 2002)  
<http://bloodjournal.hematologylibrary.org/content/100/12/4040.full>

Regulation of Gonadotropin-Releasing Hormone Secretion by Cannabinoids  
(full - 2005) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1237039/?tool=pmcentrez>

Regulation of Bone Mass, Osteoclast Function, and Ovariectomy-Induced Bone Loss by the Type 2 Cannabinoid Receptor (full - 2008)  
<http://endo.endojournals.org/cgi/content/full/149/11/5619?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT>

Study: Marijuana & The Fountain of Youth (news/ad - 2008)  
<http://reddressdiary.blogspot.com/2008/07/study-marijuana-fountain-of-youth.html>

The effects of Cannabis sativa L. seed (hempseed) in the ovariectomized rat model of menopause. (abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/21069097>

Are endocannabinoid type 1 receptor gene (CNR1) polymorphisms associated with obesity and metabolic syndrome in postmenopausal Polish women? (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/20838400>

Endocannabinoid type 1 receptor gene (CNR1) polymorphisms (rs806381, rs10485170, rs6454674, rs2023239) and cardiovascular risk factors in postmenopausal women. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21480765>

Medical Marijuana uses for menopause symptoms (anecdotal – 2011)  
<http://www.medhelp.org/posts/Menopause/Medical-Marijuana-uses-for-menopause-symptoms/show/1374545>

**MENTAL DISORDERS** - see SCHIZOPHRENIA/ MENTAL DISORDERS

## **METHODS OF USE – BREATH STRIPS**

THE GREAT CALIFORNIA WEED RUSH (news - 2007)  
<http://www.mapinc.org/norml/v07/n150/a04.htm>

US Patent Application 20060039959 - Film-Shaped Mucoadhesive Administration Forms For Administering Cannabis Agents (full – 2006)  
<http://www.patentstorm.us/applications/20060039959/fulltext.html>

THC Breath Strips Are Here, And They Are Amazing! (anecdotal/news – 2008)  
[http://current.com/green/89636302\\_thc-breath-strips-are-here-and-they-are-amazing.htm](http://current.com/green/89636302_thc-breath-strips-are-here-and-they-are-amazing.htm)

Recipe for Breath Strips (forum post- #3 – 2009)  
<http://boards.cannabis.com/concentrates/174379-re-creating-thc-strips-home.html>

## **METHODS OF USE – CAPSULES**

Herbal Intoxication: Psychoactive Effects From Herbal Cigarettes, Tea, and Capsules  
(full - 1976)

<http://jama.ama-assn.org/cgi/reprint/236/5/473?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT>

Comparison of smoked marijuana and oral Delta(9)-tetrahydrocannabinol in humans.  
(abst – 2002) <http://www.ncbi.nlm.nih.gov/pubmed/12457271>

Fred's THC Capsules (forum thread - 2008)

<http://www.greenpassion.org/showthread.php?t=4012>

Home-made Mari-pills (forum thread - 2009)

<http://www.greenpassion.org/showthread.php?t=17874>

BadKat's CannaPharm: -Linked- Table of Contents (2012 - forum post) (recommended by Granny!)

<http://forum.grasscity.com/blogs/badkittysmiles/30689-badkats-cannapharm-linked-table-contents.html>

## **METHODS OF USE – DECARBOXYLATION** – a method to increase potency

Decarboxylation step-by-step decarboxylation (article- undated)

<http://theweedscene.com/decarboxilation/>

Why should cannabis products be heated before eating? (news – 2001)

<http://www.cannabis-med.org/english/faq/12-heating.htm>

Decarboxylation (news - 2003)

<http://www.cannabisculture.com/articles/2794.html>

Cooking with Cannabis (news – 2008)

<http://www.papakief.com/2010/09/cooking-with-cannabis.html>

THC Decarboxylation (news – 2010)

<http://420tainment.com/2010/03/decarboxylation-science-smoking/>

How-to: Paleo's Potent Decarboxylated Cannabis Oil (Edibles Technique)

(forum post – 2011)

<http://boards.cannabis.com/recipes/194281-how-paleos-potent-decarboxylated-cannabis-oil-edibles-technique.html>

Controlled cannabis decarboxylation - Patent US2012046352 (A1) — 2012-02-23  
(full – 2012)

[http://worldwide.espacenet.com/publicationDetails/description?CC=US&NR=2012046352A1&KC=A1&FT=D&ND=3&date=20120223&DB=EPODOC&locale=en\\_EP](http://worldwide.espacenet.com/publicationDetails/description?CC=US&NR=2012046352A1&KC=A1&FT=D&ND=3&date=20120223&DB=EPODOC&locale=en_EP)

## **METHODS OF USE- E-CIGARETTES**

E-Cigarettes: A How-To With Canna (forum post - 2010)

<http://forum.grasscity.com/toking-tools/702027-e-cigarettes-how-canna.html>

## **METHODS OF USE – EDIBLES – General use**

Plasma delta-9-tetrahydrocannabinol concentrations and clinical effects after oral and intravenous administration and smoking (abst - 1980)

<http://www.nature.com/clpt/journal/v28/n3/abs/clpt1980181a.html>

Marijuana-Laced Brownies: Behavioral Effects, Physiologic Effects, and Urinalysis in Humans Following Ingestion (abst – 1988)

<http://www.ncbi.nlm.nih.gov/pubmed/3184885>

Marijuana and chocolate. (abst - 1996)

<http://www.ncbi.nlm.nih.gov/pubmed/11363932>

Cannabis Cookies: a Cause of Coma. (abst – 1996)

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Evaluation of the safety and tolerability profile of Sativex: is it reassuring enough? (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22509986>

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>

Multiple Sclerosis and Extract of Cannabis: results of the MUSEC trial. (abst – 2012) <http://www.ncbi.nlm.nih.gov/pubmed/22791906>

## **MUSCLE RELAXANT**

Effects of Cannabinoids on Caffeine Contractures in Slow and Fast Skeletal Muscle Fibers of the Frog (full - 2009) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697372/?tool=pmcentrez>

Reposition of a dislocated shoulder under use of cannabis. (abst – 2009) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=408](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=408)

## **MUSCULAR DYSTROPHY/ MD**

Muscular dystrophy in mice after chronic subcutaneous treatment with cannabinoids. (abst - 1977) [http://www.unboundmedicine.com/medline/ebm/record/903049/abstract/Muscular\\_dystrophy\\_in\\_mice\\_after\\_chronic\\_subcutaneous\\_treatment\\_with\\_cannabinoids](http://www.unboundmedicine.com/medline/ebm/record/903049/abstract/Muscular_dystrophy_in_mice_after_chronic_subcutaneous_treatment_with_cannabinoids)

For some chronically ill patients, pot succeeds where painkillers fail (news/ anecdotal - 2009) <http://www.nashuatelegraph.com/apps/pbcs.dll/article?AID=/20090211/NEWS01/302119895>

Medical Marijuana use for Muscular Dystrophy (news – 2009) [http://photos.nj.com/star-ledger/2009/09/medical\\_marijuana\\_use\\_for\\_musc\\_8.html](http://photos.nj.com/star-ledger/2009/09/medical_marijuana_use_for_musc_8.html)

Medical Marijuana and Muscular Dystrophy (news – 2009) <https://www.marijuanadoctors.com/content/ailments/view/114?ailment=muscular-dystrophy>

## **MYOCLONUS DIAPHRAGMATIC FLUTTER**

Teen says marijuana has been a lifesaver (news – 2012)  
<http://www.gazette.com/articles/seizes-134241-chaz-teen.html>

## **NABILONE / CESAMET** - a synthetic THC, CB 1 & CB 2 agonist

GENERIC NAME: NABILONE - ORAL (NAB-ih-lone)  
Brand Names : Cesamet (monograph - undated)  
Cesamet (monograph - undated)  
<http://www.medicinenet.com/nabilone-oral/article.htm>

Microbiological transformations of nabilone, a synthetic cannabinoid. (full - 1979)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC243333/?tool=pmcentrez&page=1>

Superiority of nabilone over prochlorperazine as an antiemetic in patients receiving cancer chemotherapy. (abst - 1979)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=126](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=126)

Cannabinoids. II. Cardiovascular Effects (full - 1980)  
[http://jpet.aspetjournals.org/content/214/1/131.full.pdf+html?ijkey=e751d405c4b7e494c235b602119e4f9b8c62c04d&keytype=tf\\_ipsecsha](http://jpet.aspetjournals.org/content/214/1/131.full.pdf+html?ijkey=e751d405c4b7e494c235b602119e4f9b8c62c04d&keytype=tf_ipsecsha)

Double-blind comparison of the antiemetic effects of nabilone and prochlorperazine on chemotherapy-induced emesis. (abst - 1980)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=131](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=131)

The efficacy and safety of nabilone (a synthetic cannabinoid) in the treatment of anxiety (abst - 1981)  
[http://jcp.sagepub.com/cgi/content/abstract/21/8\\_suppl/377S?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT](http://jcp.sagepub.com/cgi/content/abstract/21/8_suppl/377S?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT)

A double-blind, controlled trial of nabilone vs. prochlorperazine for refractory emesis induced by cancer chemotherapy. (abst - 1982)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=146](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=146)

A multi-institutional Phase III study of nabilone vs. placebo in chemotherapy-induced nausea and vomiting. (abst - 1982)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=156](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=156)

Anti-emetic efficacy and toxicity of nabilone, a synthetic cannabinoid, in lung cancer chemotherapy. (full - 1983)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2011510/?tool=pmcentrez&page=1>

Comparison of bronchial effects of nabilone and terbutaline in healthy and asthmatic subjects. (abst - 1983) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=43](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=43)

Respiratory and cardiovascular depressant effects of nabilone, N-methyllevonantradol and delta 9-tetrahydrocannabinol in anesthetized cats. (abst - 1983)  
<http://jpet.aspetjournals.org/content/227/2/508.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=1920&resourcetype=HWCIT>

Acute Effects of Natural and Synthetic Cannabis Compounds on Prolactin Levels in Human Males. (abst - 1984) <http://www.ncbi.nlm.nih.gov/pubmed/6320226>

A cross-over comparison of nabilone and prochlorperazine for emesis induced by cancer chemotherapy. (abst - 1985)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=128](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=128)

Nabilone: an alternative antiemetic for cancer chemotherapy. (abst - 1986)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=123](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=123)

Nabilone and metoclopramide in the treatment of nausea and vomiting due to cisplatin: a double blind study. (abst - 1986)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=121](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=121)

Crossover comparison of the antiemetic efficacy of nabilone and alizapride in patients with nonseminomatous testicular cancer receiving cisplatin therapy. (abst - 1986)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=127](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=127)

Prospective randomized double-blind trial of nabilone versus domperidone in the treatment of cytotoxic-induced emesis. (abst - 1986)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=129](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=129)

Nabilone: an alternative antiemetic for cancer chemotherapy. (abst - 1986)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=123](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=123)

Nabilone versus prochlorperazine for control of cancer chemotherapy-induced emesis in children: a double-blind, crossover trial. (abst - 1987)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=120](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=120)

A species comparison of the toxicity of nabilone, a new synthetic cannabinoid. (abst - 1987) <http://www.ncbi.nlm.nih.gov/pubmed/2888699>

Species specificity in the metabolism of nabilone. Relationship between toxicity and metabolic routes. (abst - 1987) <http://www.ncbi.nlm.nih.gov/pubmed/3037806>

A double-blind randomised cross-over comparison of nabilone and metoclopramide in the control of radiation-induced nausea. (abst - 1987)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=130](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=130)

A randomized trial of oral nabilone and prochlorperazine compared to intravenous metoclopramide and dexamethasone in the treatment of nausea and vomiting induced by chemotherapy regimens containing cisplatin or cisplatin analogues. (abst – 1988)  
<http://www.ncbi.nlm.nih.gov/pubmed/2838294>

Effect of nabilone on nausea and vomiting after total abdominal hysterectomy  
(abst - 1994) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=137](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=137)

Effect of nabilone on nausea and vomiting (letter - 1995)  
<http://bj.a.oxfordjournals.org/cgi/reprint/74/1/111?maxtoshow=&hits=80&RESULTFORMAT=1&andorexacttitle=&andorexacttitleabs=&andfulltext=cannabinoid&andorexactfulltext=&andsearchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HWCIT>

Nabilone in the treatment of multiple sclerosis. (abst - 1995)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=11](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=11)

The effects of the cannabinoid receptor agonist nabilone on L-DOPA induced dyskinesia in patients with idiopathic Parkinson's disease (PD). (abst - 1998)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=153](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=153)

Analgesic effect of the cannabinoid analogue nabilone is not mediated by opioid receptors. (excerpt - 1999)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=203](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=203)

Cannabis and cannabinoids: pharmacology and rationale for clinical use  
(abst – 1999) <http://pharmgkb.org/pmid/10575283>

Different effects of nabilone and cannabidiol on binocular depth inversion in Man.  
(abst – 2000) <http://www.ncbi.nlm.nih.gov/pubmed/10837858>

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>

Cannabinoids reduce levodopa-induced dyskinesia in Parkinson's disease: a pilot study.  
(abst - 2001) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=54](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=54)

Antiinflammatory action of endocannabinoid palmitoylethanolamide and the synthetic cannabinoid nabilone in a model of acute inflammation in the rat (full - 2002)  
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1573125&tool=pmcentrez>

Cannabinoids and multiple sclerosis. (abst - 2002)  
<http://www.ncbi.nlm.nih.gov/pubmed/12182963>

Cannabinoid rotation in a young woman with chronic cystitis (abst - 2003)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=115](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=115)



Therapeutic potential of cannabinoids in CNS disease. (abst - 2003)  
<http://www.ncbi.nlm.nih.gov/pubmed/12617697>

Nabilone Could Treat Chorea and Irritability in Huntington's Disease (letter - 2006)  
<http://neuro.psychiatryonline.org/article.aspx?articleid=102920>

Nabilone significantly reduces spasticity-related pain (abst - 2006)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=200](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=200)

The synthetic cannabinoid nabilone improves pain and symptom management in cancer patients (abst - 2006) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=177](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=177)

Low dose treatment with the synthetic cannabinoid Nabilone significantly reduces spasticity-related pain : A double-blind placebo-controlled cross-over trial. (abst - 2006)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=200](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=200)

Synthetic cannabinomimetic nabilone on patients with chronic pain (abst - 2006)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=197](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=197)

The synthetic cannabinoid nabilone improves pain and symptom management in cancer patients (abst - 2006)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=177](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=177)

Low dose treatment with the synthetic cannabinoid Nabilone significantly reduces spasticity-related pain : A double-blind placebo-controlled cross-over trial.  
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The synthetic cannabinoid nabilone improves pain and symptom management in cancer patients (abst - 2006)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=177](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=177)

Nabilone improves pain and symptom management in cancer patients  
(abst - 2006) [http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=177](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=177)

Synthetic cannabinomimetic nabilone on patients with chronic pain (abst - 2006)  
[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=197](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=197)

2nd synthetic marijuana drug OK'd for chemo effects (news – 2006)  
[http://www.usatoday.com/news/health/2006-05-16-marijuana-drug\\_x.htm](http://www.usatoday.com/news/health/2006-05-16-marijuana-drug_x.htm)

Cesamet (nabilone) capsule (info page - 2007)  
<http://dailymed.nlm.nih.gov/dailymed/mobile/drugInfo.cfm?id=4474>

Cannabinoids in the treatment of chemotherapy-induced nausea and vomiting: beyond prevention of acute emesis. (abst – 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17566383>

Symptomatic treatment of multiple sclerosis using cannabinoids: recent advances.  
(abst - 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17868014>

Synthetic Cannabis for Fibromyalgia Pain? (news - 2007)  
<http://www.healthcentral.com/chronic-pain/c/5949/16104/fm-pain>

Nabilone relieves many advanced Ca symptoms (news - 2007)  
<http://www.highbeam.com/doc/1G1-178441488.html>

Cannabinoids in the management of difficult to treat pain (full - 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2503660/?tool=pmcentrez>

Comparison of analgesic effects and patient tolerability of nabilone and dihydrocodeine for chronic neuropathic pain: randomised, crossover, double blind study. (full – 2008)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2213874/?tool=pubmed>

Nabilone for the treatment of pain in fibromyalgia. (abst - 2008)  
<http://www.ncbi.nlm.nih.gov/pubmed/17974490>

Nabilone for the treatment of paraneoplastic night sweats: a report of four cases (abst – 2008) <http://www.ncbi.nlm.nih.gov/pubmed/18715188>

Science: Nabilone effective in the treatment of night sweats of four patients with advanced cancer (news – 2008)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=277#1](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=277#1)

Marijuana Derivative Called Effective in Fibromyalgia (news - 2008)  
<http://www.medpagetoday.com/Rheumatology/Fibromyalgia/8377>

Marijuana-Based Drug Reduces Fibromyalgia Pain, Study Suggests (news - 2008)  
<http://www.sciencedaily.com/releases/2008/02/080217214547.htm>

Two New Approaches for Fibromyalgia (news – 2008)  
<http://www.healthandage.com/Two-New-Approaches-for-Fibromyalgia>

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

The Effects of Nabilone on Sleep in Fibromyalgia: Results of a Randomized Controlled Trial. (full - 2009) <http://www.anesthesia-analgesia.org/content/110/2/604.long>

Emerging strategies for exploiting cannabinoid receptor agonists as medicines. (full – 2009) <http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2008.00048.x/full>

A pilot study using nabilone for symptomatic treatment in Huntington's disease. (abst – 2009)  
[http://www.unboundmedicine.com/medline/ebm/record/19845035/abstract/A\\_pilot\\_study\\_using\\_nabilone\\_for\\_symptomatic\\_treatment\\_in\\_Huntington%27s\\_disease](http://www.unboundmedicine.com/medline/ebm/record/19845035/abstract/A_pilot_study_using_nabilone_for_symptomatic_treatment_in_Huntington%27s_disease)

The use of a synthetic cannabinoid in the management of treatment-resistant nightmares in posttraumatic stress disorder (PTSD). (abst - 2009)

<http://www.ncbi.nlm.nih.gov/pubmed/19228182?dopt=Abstract>

CESAMET® CII (nabilone) Capsules For Oral Administration

(Archived drug label - 2010)

<http://dailymed.nlm.nih.gov/dailymed/archives/fdaDrugInfo.cfm?archiveid=16800>

A randomized, double-blinded, crossover pilot study assessing the effect of nabilone on spasticity in persons with spinal cord injury. (abst - 2010)

<http://www.ncbi.nlm.nih.gov/pubmed/20434606>

An Open-Label Comparison of Nabilone and Gabapentin as Adjuvant Therapy or Monotherapy in the Management of Neuropathic Pain in Patients with Peripheral Neuropathy. (abst – 2010)

[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=311](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=311)

What Are Prescription Drugs That Are a Substitute for Marijuana? (news – 2011)

<http://www.livestrong.com/article/137065-what-are-prescription-drugs-that-are-substitute-marijuana/#ixzz21Ia1dVOG>

Subjective, cognitive and cardiovascular dose-effect profile of nabilone and dronabinol in marijuana smokers. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22260337>

Cannabinoids in the treatment of chemotherapy-induced nausea and vomiting.

(abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22491047>

A Randomized, Double-Blind, Placebo Controlled, Parallel Assignment, Flexible Dose, Efficacy Study of Nabilone as Adjuvant in the Treatment of Diabetic Peripheral Neuropathic Pain Using an Enriched Enrollment Randomized Withdrawal Design (S38.003) (abst – 2012)

[http://www.neurology.org/cgi/content/meeting\\_abstract/78/1\\_MeetingAbstracts/S38.003?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=180&sortspec=date&resourcetype=HWCIT](http://www.neurology.org/cgi/content/meeting_abstract/78/1_MeetingAbstracts/S38.003?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=180&sortspec=date&resourcetype=HWCIT)

## **NAIL-PATELLA SYNDROME**

Nail Patella Syndrome-Cannabinoids Relieve Symptoms (news – undated)

<http://medicalmarijuana.com/medical-marijuana-treatments/NPS>

Chronic Cannabis Use in the Compassionate Investigational New Drug Program: An Examination of Benefits and Adverse Effects of Legal Clinical Cannabis

(full – 2002) <http://proxy.baremetal.com/cannabiscoalition.ca/chronic.pdf>

Federal Rx: Marijuana (article- 2002) <http://www.spectacle.org/1202/largen.html>

'Trying to ease my suffering' (news – 2008)

[http://www.mlive.com/news/saginaw/index.ssf/2008/11/glaucoma\\_patient\\_turns\\_to\\_mari.html](http://www.mlive.com/news/saginaw/index.ssf/2008/11/glaucoma_patient_turns_to_mari.html)

Born With Nail Patella Syndrome, Charles Snyder Turns to Michigan's Medical Marijuana Law (news/anecdotal – 2011)

[http://medicalmarijuana411.com/mmj411\\_v3/?p=5538](http://medicalmarijuana411.com/mmj411_v3/?p=5538)

Charles Snyder III – Nail Patella Syndrome – Part Two (news/anecdotal – 2011)

[http://medicalmarijuana411.com/mmj411\\_v3/?p=469](http://medicalmarijuana411.com/mmj411_v3/?p=469)

### **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. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/22220975>

Namisol granted €4,5M, for Clinical Phase II & III on Alzheimer's and Neural Pain (news - 2011)

<http://www.feyecon.com/news/article/namisol-granted-45-million-euro-for-clinical-phase-ii-iii-on-alzheimers-pai/>

Novel  $\Delta(9)$ -tetrahydrocannabinol formulation Namisol® has beneficial pharmacokinetics and promising pharmacodynamic effects. (abst – 2012)

<http://www.ncbi.nlm.nih.gov/pubmed/22680341>

### **NAUSEA** - also see MORNING SICKNESS, MOTION SICKNESS, RADIATION-INDUCED NAUSEA

Antiemetic effect of delta-9-tetrahydrocannabinol in patients receiving cancer chemotherapy. (full - 1975) <http://www.ukcia.org/research/antiemetic.php>

Delta-9-Tetrahydrocannabinol as an Antiemetic in Cancer Patients Receiving High-Dose Methotrexate (full - 1979) <http://www.ukcia.org/research/AntiemeticForMethotrexate.php>

Delta-9-tetrahydrocannabinol (THC) as an antiemetic in patients treated with cancer chemotherapy; a double-blind cross-over trial against placebo (abst - 1979)

[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=27](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=27)

Amelioration of cancer chemotherapy-induced nausea and vomiting by delta-9-tetrahydrocannabinol. (abst - 1979)

[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=107](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=107)

Superiority of nabilone over prochlorperazine as an antiemetic in patients receiving cancer chemotherapy. (abst - 1979)

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## **NEUROPATHIC PAIN**

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## **OSTEOPOROSIS/ BONES**

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<http://www.jleukbio.org/content/91/6/911.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcetype=HWCIT>

Inhibition Of Fatty Acid Amide Hydrolase Produces Anti-Tussive Effects In Guinea-Pigs: Evidence For Elevated Fatty Acid Amides Acting Via Cannabinoid Receptors On Airway Sensory Nerves (abst – 2012)

[http://ajrcm.atsjournals.org/cgi/reprint/185/1\\_MeetingAbstracts/A2149?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT](http://ajrcm.atsjournals.org/cgi/reprint/185/1_MeetingAbstracts/A2149?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT)

THE CO-EXPRESSION OF THE ENDOCANNABINOID SYSTEM AND THE RANK/RANKL SIGNALLING PATHWAY IN HUMAN BONE AND OSTEOCLAST CULTURE (abst – 2012)

[http://www.bjpprocs.boneandjoint.org.uk/content/94-B/SUPP\\_XVIII/7.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT](http://www.bjpprocs.boneandjoint.org.uk/content/94-B/SUPP_XVIII/7.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT)

The Novel Reversible Fatty Acid Amide Hydrolase Inhibitor ST4070 Increases Endocannabinoid Brain Levels and Counteracts Neuropathic Pain in Different Animal Models (abst – 2012)

<http://jpet.aspetjournals.org/content/342/1/188.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5>

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Mutations in ABHD12 cause the neurodegenerative disease PHARC: An inborn error of endocannabinoid metabolism. (full – 2011)  
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<http://onlinelibrary.wiley.com/doi/10.1111/j.1748-1716.2011.02280.x/full>

## **PHYTOCANNABINOIDS/ PLANT EXTRACTS** - also see THC, CBD

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

Cannabinoids (encyclopedia entry) <http://www.chemie.de/lexikon/e/Cannabinoids/>

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<http://www.henriettesherbal.com/eclectic/kings/cannabis.html>

Chemical basis of hashish activity. (abst - 1970)  
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<http://www.ncbi.nlm.nih.gov/pubmed/6295702>

Ocular hypotension, ocular toxicity, and neurotoxicity in response to marijuana extract and cannabidiol. (abst – 1984) <http://www.ncbi.nlm.nih.gov/pubmed/6098513>

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

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

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

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<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)

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<http://news.bbc.co.uk/2/hi/health/1261737.stm>

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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>

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[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)
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<http://www.ncbi.nlm.nih.gov/pubmed/16504929>
- The multidrug transporter ABCG2 (BCRP) is inhibited by plant-derived cannabinoids.  
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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219532/>
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(full - 2008)  
<http://www.cannabismedicine.com/story/antibacterial-cannabinoids-cannabis-sativa-structure%E2%88%92activity-study>
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A low- $\Delta^9$ tetrahydrocannabinol cannabis extract induces hyperphagia in rats.

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[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)

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[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)

Cannabinoid Receptor Agonist Significantly Reduces Post-Operative Pain, Study Says (news – 2007)

[http://norml.org/index.cfm?Group\\_ID=7246](http://norml.org/index.cfm?Group_ID=7246)

Evidence for a Role of Endocannabinoids, Astrocytes and p38 Phosphorylation in the Resolution of Postoperative Pain (full - 2010)

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<http://www.icmag.com/ic/showthread.php?p=2800478>

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<http://www.jneurosci.org/cgi/content/full/29/36/11078?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=Dr.+Irit+Akirav+&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT>

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[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)

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[http://manitobaharvest.com/articles\\_studies/3812/Hemp-Packs-in-Powerful-Source-of-Preconception-Nutrition.html](http://manitobaharvest.com/articles_studies/3812/Hemp-Packs-in-Powerful-Source-of-Preconception-Nutrition.html)

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<http://content.karger.com/ProdukteDB/produkte.asp?Doi=136789>

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Acute effects of marihuana smoking on prolactin levels in human females. (abst - 1985)  
<http://jpet.aspetjournals.org/content/232/1/220.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=0&resourcectype=HWCIT>

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[http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list\\_uids=3929130&dopt=abstract\\_plus](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list_uids=3929130&dopt=abstract_plus)

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A comparison of the effects of prenatal exposure to tobacco, alcohol, cannabis and caffeine on birth size and subsequent growth (abst - 1987)  
<http://www.ncbi.nlm.nih.gov/pubmed/3657756>

Poor and pregnant: perinatal ganja use in rural Jamaica. (abst - 1989)  
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Marijuana Use in Pregnancy and Pregnancy Outcome. (abst - 1990)  
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Prenatal marijuana use and neonatal outcome. (abst – 1991)  
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Tobacco and marijuana use on offspring growth from birth through 3 years of age. (abst - 1992)  
[http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=ShowDetailView&TermToSearch=1488035&ordinalpos=10&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=ShowDetailView&TermToSearch=1488035&ordinalpos=10&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum)

THREE THINGS MARIJUANA DOESN'T DO (news - 1992)  
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Maternal cannabis use and birth weight: a meta-analysis (abst – 1997)  
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Use of Marijuana During Pregnancy (book excerpt - 1997)  
<http://www.mothing.com/pregnancy-birth/use-of-marijuana-during-pregnancy>

Dr. Melanie Dreher, reefer researcher (interview - 1998)  
<http://www.cannabisculture.com/v2/articles/1404.html>

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<http://www.ukcia.org/research/CannabisAndPregnancy.php>

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219526/>

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<http://pediatrics.aappublications.org/cgi/reprint/121/4/741?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=400&resourcetype=HWCIT>

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**THC/ TETRAHYDROCANNABINOL** CB1 & 2 agonist

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## **THC ACID/ THCA** - non-psychoactive precursor of THC

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### **TETRAHYDROCANNABIVARIN/ THCv** phytocannabinoid, CB1 & CB2 antagonist

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Synthetic and plant-derived cannabinoid receptor antagonists show hypophagic properties in fasted and non-fasted mice (full - 2009)

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## **URB - 597 / KDS-4103**- slows cannabinoid destruction

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Antidepressant-like Activity and Modulation of Brain Monoaminergic Transmission by Blockade of Anandamide Hydrolysis. (full – 2005)

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The CB1 Cannabinoid Receptor Mediates Excitotoxicity-induced Neural Progenitor Proliferation and Neurogenesis (full - 2007)

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The FAAH inhibitor URB-597 ameliorates cannabinoid withdrawal in mice  
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## **WITHDRAWAL SYNDROME**

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