

## Granny Storm Crow's MMJ Reference List- January 2012

Well, here I am again, staring at this blank screen, trying to figure out what to say so you will share the information I have gathered. "Once the medical facts about cannabis become known, the need for legalization becomes obvious!" How many times have I said that? I need YOU to educate those around you. I can't do it alone!

At times, it seems so futile- this never-ending battle against ignorance about cannabis. But I can't give up - this simple herb has some amazing uses and people need to know what it can do.

Cannabis should be treated like any other medicinal herb, because that's what it is, just an herbal medicine with a rather pleasant side effect- you feel "high". Unlike common aspirin, cannabis never kills by overdose. Compared to some pharmaceutical drugs' side effects, the "cotton-mouth", "red eye", "munchies" and "feeling a just bit too good" from using cannabis seems so trivial!

As Americans, we should be free to exercise our right to choose the type of medicines that we take. Anyone exhibiting the first signs of Alzheimer's should be able to choose between Aricept, Marinol, or natural cannabis to slow the deposit of mind-clogging amyloid plaque.

*"When tested at double the concentration of THC, Aricept blocked plaque formation only 22% as well as THC, and Cognex blocked plaque formation only 7% as well as THC."* (Marijuana May Slow Alzheimer's - WebMD, 2006)

Marinol is just a capsule of a pure synthetic THC dissolved in sesame oil. It will work, but some people find that it causes anxiety because it lacks CBD (cannabidiol) to balance the THC high.

Natural cannabis has CBD and other cannabinoids in it, which act in a different way to slow the progress of Alzheimer's. ("Cannabidiol and other cannabinoids reduce microglial activation in vitro and in vivo: relevance to Alzheimer's disease" - Molecular Pharmacology, 2011) I know which I would logically choose, but in 2/3s of the US, and everywhere by federal law, that choice is forbidden to us. Our government has banned our best choice!

Then there are thousands facing the severe nausea of chemotherapy- will they be able to keep an anti-nausea pill down long enough for it to work? Wouldn't it be simpler to inhale some cannabis vapor, or smoke, and get almost instantaneous relief? In 16 states, you can!

And the pain from cancer? "Medical Marijuana a Success in Israel" – *"More than two-thirds of cancer patients who were prescribed medical marijuana to combat pain are reportedly satisfied with the treatment"* Are we less free than the Israelis? They are free to get legal, prescribed cannabis for cancer pain- are you? Our neighbor, Canada, has legal medical cannabis, and their government grows cannabis for patients! And surprise! The US has 4 federally legal MMJ patients and grows for them. The program is closed. No new patients allowed! Why? And why is cannabis research, all but banned in the US? This prohibitionist foolishness has to end!

2012 is supposed to be a time of change, an "interesting" year. It is time for us to demand a change in the laws on cannabis! We must keep telling the truth, keep presenting the facts to our friends and our families. The facts are there in PubMed- cannabis IS medicine! Our government lies to us about cannabis! And folks- **"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

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)

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>

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 nitrenergic 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 (abst - 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>

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>

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>

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>

## **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**

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>

Endocannabinoid signaling and epidermal differentiation. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21628127>

## **ADD/ ADHD**

ADHD by Ryan P (anecdotal - no date)  
[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  
(no date) <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>

How Cannabis Compares to other treatments (no date - 2008)  
<http://dcsafeaccess.org/medical/how-cannabis-compares-to-other-treatments/>

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.entheology.org/edoto/anmviewer.asp?a=319>

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

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/>

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>

## **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>

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&resourcectype=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>

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/sec23/ch352/ch352i.html?qt=marijuana&alt=sh>

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://www.independent.co.uk/life-style/health-and-families/health-news/four-percent-of-adults-worldwide-using-cannabis-1804190.html>

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

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.healia.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>

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)

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>

Endogenous cannabinoids mediate hypotension after experimental myocardial infarction (full - 2001)

<http://content.onlinejacc.org/cgi/content/full/38/7/2048?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=560&resourcetype=HWCIT>

Inhibition of Rat C6 Glioma Cell Proliferation by Endogenous and Synthetic Cannabinoids. Relative Involvement of Cannabinoid and Vanilloid Receptors

(full - 2001) <http://jpet.aspetjournals.org/content/299/3/951.full>

Cannabinoid CB1-receptor mediated regulation of gastrointestinal motility in mice in a model of intestinal inflammation (full - 2001)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572987/?tool=pmcentrez>

2-Arachidonyl glyceryl ether, an endogenous agonist of the cannabinoid CB1 receptor

(full - 2001) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC31108/>

An endogenous cannabinoid (2-AG) is neuroprotective after brain injury.

(abst - 2001) <http://www.ncbi.nlm.nih.gov/pubmed/11586361>

Sourcing the Code: Searching for the Evolutionary Origins of Cannabinoid Receptors, Vanilloid Receptors, and Anandamide (full - 2002)

<http://www.cannabis-med.org/data/pdf/2002-01-3.pdf>

Activation of PAF receptors results in enhanced synthesis of 2-arachidonoylglycerol (2-AG) in immune cells (full - 2002)

<http://www.fasebj.org/cgi/content/full/15/12/2171?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=10&sortspec=relevance&resourcetype=HWCIT>

The potent emetogenic effects of the endocannabinoid, 2-AG (2-arachidonoylglycerol) are blocked by delta(9)-tetrahydrocannabinol and other cannabinoids. (full - 2002)

<http://jpet.aspetjournals.org/content/300/1/34.long>

Comparison of the enzymatic stability and intraocular pressure effects of 2-arachidonoylglycerol and noladin ether, a novel putative endocannabinoid. (full - 2002)

<http://www.iovs.org/content/43/10/3216.full>

Endocannabinoid levels in rat limbic forebrain and hypothalamus in relation to fasting, feeding and satiation: stimulation of eating by 2-arachidonoyl glycerol. (full – 2002)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573386/?tool=pubmed>

Changes in endocannabinoid contents in the brain of rats chronically exposed to nicotine, ethanol or cocaine. (abst – 2002) <http://www.ncbi.nlm.nih.gov/pubmed/12393235>

Endocannabinoids protect the rat isolated heart against ischaemia (full - 2003)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573907/?tool=pmcentrez>

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>

Role of Endogenous Cannabinoids in Synaptic Signaling (full - 2003)  
<http://physrev.physiology.org/cgi/content/full/83/3/1017?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT>

The Endogenous Cannabinoid System Regulates Seizure Frequency and Duration in a Model of Temporal Lobe Epilepsy (full - 2003)  
<http://jpet.aspetjournals.org/content/307/1/129.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT>

Manipulation of the endocannabinoid system by a general anaesthetic. (full – 2003)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573927/?tool=pubmed>

Cannabinoid influences on palatability: microstructural analysis of sucrose drinking after delta(9)-tetrahydrocannabinol, anandamide, 2-arachidonoyl glycerol and SR141716. (abst – 2003) <http://www.ncbi.nlm.nih.gov/pubmed/12447606>

Short-term fasting and prolonged semistarvation have opposite effects on 2-AG levels in mouse brain. (abst – 2003) <http://www.ncbi.nlm.nih.gov/pubmed/12914975>

The endocannabinoid system: a general view and latest additions (full - 2004)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574255/?tool=pmcentrez>

New perspectives in the studies on endocannabinoid and cannabis: 2-arachidonoylglycerol as a possible novel mediator of inflammation (full - 2004)  
[http://www.jstage.jst.go.jp/article/jphs/96/4/367/\\_pdf](http://www.jstage.jst.go.jp/article/jphs/96/4/367/_pdf)

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

The endocannabinoid-CB receptor system: Importance for development and in pediatric disease. (abst - 2004) <http://www.ncbi.nlm.nih.gov/pubmed/15159678>

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<http://onlinelibrary.wiley.com/doi/10.1111/j.1528-1167.2009.02098.x/full>

Cannabinoids and neurodegenerative diseases. (abst - 2009)  
<http://www.ncbi.nlm.nih.gov/pubmed/19839933>

Effects of the cannabinoid CB1 receptor antagonist AM 251 on the reinstatement of nicotine-conditioned place preference by drug priming in rats. (full - 2009)  
[http://www.if-pan.krakow.pl/pjp/pdf/2009/2\\_304.pdf](http://www.if-pan.krakow.pl/pjp/pdf/2009/2_304.pdf)

Regulation of the Hypothalamic-Pituitary-Adrenal Axis Circadian Rhythm by Endocannabinoids Is Sexually Diergic (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2964781/?tool=pmcentrez>

Cannabinoids excite circadian clock neurons. (full – 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2927117/?tool=pubmed>

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

Spinal and peripheral analgesic effects of the CB cannabinoid receptor agonist AM1241 in two models of bone cancer-induced pain. (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931557/?tool=pubmed>

The Endocannabinoid System Tonicly Regulates Inhibitory Transmission and Depresses the Effect of Ethanol in Central Amygdala (abst - 2010)  
<http://www.nature.com/npp/journal/v35/n9/abs/npp201070a.html>

Anandamide and AM251, via water, modulate food intake at central and peripheral level in fish. (abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/19800340>

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)

Cannabidiol (CBD) as an Anti-Arrhythmic – the Role of the CB1 Receptors (news – 2010)  
<http://cannabisclinicians.org/2011/cannabidiol-cbd-as-an-anti-arrhythmic-the-role-of-the-cb1-receptors/>

AM251, cannabinoids receptors ligand, improves recognition memory in rats. (full – 2011) [http://www.if-pan.krakow.pl/pjp/pdf/2011/3\\_670.pdf](http://www.if-pan.krakow.pl/pjp/pdf/2011/3_670.pdf)

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<http://www.nature.com/npp/journal/v37/n2/full/npp2011204a.html>



$\alpha$ -Tocopherol and  $\alpha$ -tocopheryl phosphate interact with the cannabinoid system in the rodent hippocampus. (abst - 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21843633>

Cannabidiol as an anti-arrhythmic, the role of the CB1 receptors. (abst – 2011)  
[http://www.unboundmedicine.com/medline/ebm/record/22116907/abstract/17\\_Cannabidiol\\_as\\_an\\_anti\\_arrhythmic\\_the\\_role\\_of\\_the\\_CB1\\_receptors](http://www.unboundmedicine.com/medline/ebm/record/22116907/abstract/17_Cannabidiol_as_an_anti_arrhythmic_the_role_of_the_CB1_receptors)

CB(1) -independent mechanisms of  $\Delta(9)$  -THCV, AM251 and SR141716 (rimonabant). (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21740450>

Endocannabinoid CB1 receptors modulate visual output from the thalamus. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21773721>

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>

The effects of cannabinoid drugs on abnormal involuntary movements in dyskinetic and non-dyskinetic 6-hydroxydopamine lesioned rats. (abst – 2011)  
[http://www.unboundmedicine.com/medline/ebm/record/20888328/abstract/The\\_effects\\_of\\_cannabinoid\\_drugs\\_on\\_abnormal\\_involuntary\\_movements\\_in\\_dyskinetic\\_and\\_non\\_dyskinetic\\_6\\_hydroxydopamine\\_lesioned\\_rats](http://www.unboundmedicine.com/medline/ebm/record/20888328/abstract/The_effects_of_cannabinoid_drugs_on_abnormal_involuntary_movements_in_dyskinetic_and_non_dyskinetic_6_hydroxydopamine_lesioned_rats)

Pot and Pumpkin Pie: Endocannabinoid System Enhanced by Vitamin E (news – 2011)  
<http://www.examiner.com/medical-marijuana-in-philadelphia/pot-and-pumpkin-pie-endocannabinoid-system-enhanced-by-vitamin-e>

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>

The cannabinoid receptor CB<sub>1</sub> inverse agonist AM251 potentiates the anxiogenic activity of urocortin I in the basolateral amygdala. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/21736884>

### **AM- 281** - synthetic, CB1 antagonist and inverse agonist

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

Effects of AM281, a cannabinoid antagonist, on systemic haemodynamics, internal carotid artery blood flow and mortality in septic shock in rats (full – 2005)  
<http://bj.oxfordjournals.org/content/94/5/563.full>



CARDIOVASCULAR Effects of AM281, a cannabinoid antagonist, on systemic haemodynamics, internal carotid artery blood flow and mortality in septic shock in rats (abst – 2005) <http://academic.research.microsoft.com/Paper/11905213>

Effects of AM281, a cannabinoid antagonist, on circulatory deterioration and cytokine production in an endotoxin shock model: comparison with norepinephrine. (abst – 2006) <http://www.ncbi.nlm.nih.gov/pubmed/17072693>

Expression of cannabinoid CB1 receptors by vagal afferent neurons: kinetics and role in influencing neurochemical phenotype (full – 2010) <http://ajpgi.physiology.org/content/299/1/G63.full?sid=fc6948f0-78cf-405c-981b-afaa05ee417c>

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>

#### **AM-404** – synthetic, CB1 agonist

Synergistic Interactions between Cannabinoids and Environmental Stress in the Activation of the Central Amygdala (full - 2005) <http://www.nature.com/npp/journal/v30/n3/full/1300535a.html>

Enhancing Cannabinoid Neurotransmission Augments the Extinction of Conditioned Fear (full - 2005) <http://www.nature.com/npp/journal/v30/n3/full/1300655a.html>

Anxiolytic-like properties of the anandamide transport inhibitor AM404. (abst – 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16541083>

$\Delta^9$ -Tetrahydrocannabinol (THC) and AM 404 protect against cerebral ischaemia in gerbils through a mechanism involving cannabinoid and opioid receptors (full - 2007) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189998/?tool=pmcentrez>

Pharmacological elevation of anandamide impairs short-term memory by altering the neurophysiology in the hippocampus. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21767554>

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) [http://www.unboundmedicine.com/medline/ebm/record/21557729/abstract/The\\_anandamide\\_transport\\_inhibitor\\_AM404\\_reduces\\_the\\_rewarding\\_effects\\_of\\_nicotine\\_and\\_nicotine\\_induced\\_dopamine\\_elevations\\_in\\_the\\_nucleus\\_accumbens\\_shell\\_in\\_rats](http://www.unboundmedicine.com/medline/ebm/record/21557729/abstract/The_anandamide_transport_inhibitor_AM404_reduces_the_rewarding_effects_of_nicotine_and_nicotine_induced_dopamine_elevations_in_the_nucleus_accumbens_shell_in_rats)

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) <http://www.ncbi.nlm.nih.gov/pubmed/21557729>

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

Cannabinoid CB2 receptor activation reduces mouse myocardial ischemia-reperfusion injury: involvement of cytokine/chemokines and PMN (full - 2003)  
<http://www.jleukbio.org/cgi/content/full/75/3/453?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT>

Antinociceptive effect of cannabinoid agonist WIN 55,212–2 in rats with a spinal cord injury (full - 2006) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1861843/?tool=pmcentrez>

Inhibition of Salivary Secretion by Activation of Cannabinoid Receptors (full - 2006)  
<http://ebm.rsmjournals.com/cgi/content/full/231/8/1421?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=880&resourcetype=HWCIT>

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>

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 CB2 Receptor Potentiates Obesity-Associated Inflammation, Insulin Resistance and Hepatic Steatosis (full - 2009)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2688760/?tool=pubmed>

A nonsynonymous polymorphism in cannabinoid CB2 receptor gene is associated with eating disorders in humans and food intake is modified in mice by its ligands. (abst – 2010) <http://www.ncbi.nlm.nih.gov/pubmed/19768813>

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>

Cannabinoid receptor-2 (CB2) agonist ameliorates colitis in IL-10(-/-) mice by attenuating the activation of T cells and promoting their apoptosis. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/22119709>

**AM-678** - see JWH -100

**AM-694** – synthetic, CB1 & CB2 agonist

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

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>

**AM-1241** - synthetic, CB 2 agonist

Activation of CB2 cannabinoid receptors by AM1241 inhibits experimental neuropathic pain: Pain inhibition by receptors not present in the CNS (full - 2003)  
<http://www.pnas.org/content/100/18/10529.full>

New Compound That Acts On Peripheral Receptors May Be Promising Treatment For Some Nerve Pain (news - 2003)  
<http://www.sciencedaily.com/releases/2003/08/030812073750.htm>

CB2 cannabinoid receptor activation produces antinociception by stimulating peripheral release of endogenous opioids (full - 2005) <http://www.pnas.org/content/102/8/3093.full>

Cannabinoid CB2 receptor agonist activity in the hindpaw incision model of postoperative pain. (abst - 2005) <http://www.ncbi.nlm.nih.gov/pubmed/16316653>

In vitro pharmacological characterization of AM1241: a protean agonist at the cannabinoid CB2 receptor? (full - 2006)  
<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>

The CB2 cannabinoid agonist AM-1241 prolongs survival in a transgenic mouse model of amyotrophic lateral sclerosis when initiated at symptom onset (full - 2007)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2819701/?tool=pmcentrez>

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

Selective Activation of Cannabinoid CB2 Receptors Suppresses Neuropathic Nociception Induced by Treatment with the Chemotherapeutic Agent Paclitaxel in Rats (full - 2008)  
<http://jpet.aspetjournals.org/content/327/2/584.full#content-block>

The endocannabinoid system in amyotrophic lateral sclerosis. (abst - 2008)  
<http://www.ncbi.nlm.nih.gov/pubmed/18781981>

Activation of the cannabinoid 2 receptor (CB2) protects against experimental colitis. (full - 2009) <http://onlinelibrary.wiley.com/doi/10.1002/ibd.20960/full>

Spinal and peripheral analgesic effects of the CB cannabinoid receptor agonist AM1241 in two models of bone cancer-induced pain. (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931557/?tool=pubmed>

A cannabinoid 2 receptor agonist attenuates bone cancer-induced pain and bone loss. (abst - 2010) <http://www.ncbi.nlm.nih.gov/pubmed/20176037>

Cannabinoids attenuate cancer pain and proliferation in a mouse model. (abst - 2010)  
<http://www.ncbi.nlm.nih.gov/pubmed/21094209>

Self-medication of a cannabinoid CB(2) agonist in an animal model of neuropathic pain. (abst - 2011)  
[http://www.unboundmedicine.com/medline/ebm/record/21550725/abstract/Self\\_medication\\_of\\_a\\_cannabinoid\\_CB\\_2\\_agonist\\_in\\_an\\_animal\\_model\\_of\\_neuropathic\\_pain](http://www.unboundmedicine.com/medline/ebm/record/21550725/abstract/Self_medication_of_a_cannabinoid_CB_2_agonist_in_an_animal_model_of_neuropathic_pain)

Regulation of hematopoietic stem cell trafficking and mobilization by the endocannabinoid system. (abst - 2011) <http://www.ncbi.nlm.nih.gov/pubmed/22074629>

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>

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)

### **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.rxpgnews.com/specialtopics/article\\_5093.shtml](http://www.rxpgnews.com/specialtopics/article_5093.shtml)

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

Scientist Discovers New Molecule to Treat Chronic Pain (news - 2008)  
<http://www.physorg.com/news13778721.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)

**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>

**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]=)

## **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>

Ganja in Jamaica (book – 1976) <http://www.cifas.us/cannabis/PDFs/OCRGanjainJamaica.pdf>

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>

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>

Lifetime Prevalence of "Amotivational Syndrome" (full – 2005)  
<http://www.addictioninfo.org/articles/262/1/Lifetime-Prevalence-of-Amotivational-Syndrome/Page1.html>

Cannabis, motivation, and life satisfaction in an internet sample (full - 2006)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1435998/?tool=pmcentrez>

Debunking "Amotivational Syndrome" (news - 2006)  
<http://www.mapinc.org/drugnews/v06/n400/a06.html>

Cannabis Use Not Linked To So-Called "Amotivational Syndrome" (news - 2006)  
[http://norml.org/index.cfm?Group\\_ID=6824](http://norml.org/index.cfm?Group_ID=6824)

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

Isolation and Structure of a Brain Constituent That Binds to the Cannabinoid Receptor. (abst – 1992)  
<http://medical-journals.healio.com/doc/1470919/Isolation-and-structure-of-a-brain-constituent-that-binds-to-the-cannabinoid-receptor>

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>

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>

Occurrence and biosynthesis of endogenous cannabinoid precursor, N-arachidonoyl phosphatidylethanolamine, in rat brain. (full - 1997)

<http://www.jneurosci.org/content/17/4/1226.long>

Cannabinoid-Induced Hypotension and Bradycardia in Rats Is Mediated by CB1-Like Cannabinoid Receptors (full - 1997)

<http://jpet.aspetjournals.org/content/281/3/1030.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT>

Patent 5631297 - Anandamides useful for the treatment of intraocular hypertension, ophthalmic compositions containing the same and methods of use of the same (full - 1997)

<http://www.patentstorm.us/patents/5631297/fulltext.html>

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>

The endogenous cannabinoid anandamide inhibits human breast cancer cell proliferation (full - 1998)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC20983/>

Trick or treat from food endocannabinoids? (abst - 1998)

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

Doped skin (news - 1998) <http://www.newscientist.com/article/mg15921434.700-doped-skin.html>

Pain modulation by release of the endogenous cannabinoid anandamide (full - 1999)

<http://www.pnas.org/content/96/21/12198.full>

Cannabis: Discrimination of "Internal Bliss"? (abst - 1999)

<http://medical-journals.healia.com/doc/10515300/Cannabis-discrimination-of-internal-bliss>

Brain Releases Marijuana-Like Substance In Response To Pain, Study Finds (news - 1999)

<http://www.sciencedaily.com/releases/1999/10/991013074947.htm>

UC Irvine Researchers Demonstrate How Marijuana-Like Chemicals Work In The Brain (news - 1999)

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<http://www.oncolink.org/resources/article.cfm?c=3&s=8&ss=23&Year=2002&Month=7&id=8667>

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.

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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>

Expression of cannabinoid receptors type 1 and type 2 in non-Hodgkin lymphoma: growth inhibition by receptor activation. (abst - 2008) <http://www.ncbi.nlm.nih.gov/pubmed/18546271>

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

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

WIN55,212-2 induces cytoplasmic vacuolation in apoptosis-resistant MCL cells. (full - 2011) <http://www.nature.com/cddis/journal/v2/n11/full/cddis2011106a.html>

## **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>

The antimitogenic effect of the cannabinoid receptor agonist WIN55212-2 on human melanoma cells is mediated by the membrane lipid raft. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21807457>

## **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)  
<http://www.ncbi.nlm.nih.gov/pubmed/8858137>

Tau protein after delta-9-tetrahydrocannabinol in a human neuroblastoma cell line. (abst – 1996) <http://www.ncbi.nlm.nih.gov/pubmed/8981058>

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>

## **CANCER - ORAL**

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. (abst - 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21094209>



## **CANCER - OVARIAN**

Cannabinoid receptors as a target for therapy of ovarian cancer (abst - 2006)  
<http://www.aacrmeetingabstracts.org/cgi/content/abstract/2006/1/1084?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=560&resourcetype=HWCIT>

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

## **CANCER - PANCREATIC**

Pancreatitis & Medical Marijuana (article - no date)  
<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 (full – 2008) <http://gut.bmj.com/content/57/8/1140.full>

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

TRB3 links ER stress to autophagy in cannabinoid anti-tumoral action. (full – 2009)  
<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**

$\Delta$ 9-Tetrahydrocannabinol induces apoptosis in human prostate PC-3 cells via a receptor-independent mechanism (abst - 1999)  
[http://www.sciencedirect.com/science?\\_ob=ArticleURL&\\_udi=B6T36-3XFTGPR-X&\\_user=10&\\_coverDate=09%2F24%2F1999&\\_rdoc=1&\\_fmt=high&\\_orig=search&\\_sort=d&\\_docanchor=&\\_view=c&\\_acct=C000050221&\\_version=1&\\_urlVersion=0&\\_userid=10&md5=e9b3e817c7d39ac7f20656f24e07dfd1](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T36-3XFTGPR-X&_user=10&_coverDate=09%2F24%2F1999&_rdoc=1&_fmt=high&_orig=search&_sort=d&_docanchor=&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=e9b3e817c7d39ac7f20656f24e07dfd1)

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&resourceype=HWCIT](http://www.aacrmeetingabstracts.org/cgi/content/meeting_abstract/2007/1_Annual_Meeting/2195?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=720&resourceype=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/>

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>

Cannabis chemicals may help fight prostate cancer (news - 2010)  
<http://www.abbotsfordtimes.com/entertainment/movie-guide/Cannabis+chemicals+help+fight+prostate+cancer/1908592/story.html?id=1908592#Comments>

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

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>

Cannabinoid Receptor Type 1 (CB1) Activation Inhibits Small GTPase RhoA Activity and Regulates Motility of Prostate Carcinoma Cells. (abst – 2012)  
<http://www.ncbi.nlm.nih.gov/pubmed/22087025>

## **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 - no date)

<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>

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 - no date)

[http://www.rxmarihuana.com/shared\\_comments/testicularchemo.htm](http://www.rxmarihuana.com/shared_comments/testicularchemo.htm)

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)

## **CANCER - THYMOMA**

A comparative study on cannabidiol-induced apoptosis in murine thymocytes and EL-4 thymoma cell (abst- 2008)

<http://www.greenmedinfo.com/article/cannabinoids-may-have-therapeutic-role-play-treating-thyoma>

## **CANCER - THYROID**

Control by the endogenous cannabinoid system of ras oncogene-dependent tumor growth (full - 2001)

<http://www.fasebj.org/cgi/reprint/15/14/2745?ijkey=1b6e92836655dd275d36c82a7957423ec2106c6a>

Inhibitory effects of cannabinoid CB1 receptor stimulation on tumor growth and metastatic spreading: actions on signals involved in angiogenesis and metastasis1

(full - 2003) <http://www.fasebj.org/cgi/reprint/17/12/1771>

A new strategy to block tumor growth by inhibiting endocannabinoid inactivation.

(full - 2006) <http://www.fasebj.org/content/early/2004/10/02/fj.04-1754fje.long>

Endocannabinoids in endocrine and related tumours (full - 2008)

<http://erc.endocrinology-journals.org/cgi/reprint/15/2/391.pdf>

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)

A metabolically stable analogue of anandamide, Met-F-AEA, inhibits human thyroid carcinoma cell lines by activation of apoptosis (abst - 2009)

[http://www.unboundmedicine.com/medline/ebm/record/19189054/abstract/A\\_metabolically\\_stable\\_analogue\\_of\\_anandamide\\_Met\\_F\\_AEA\\_inhibits\\_human\\_thyroid\\_carcinoma\\_cell\\_lines\\_by\\_activation\\_of\\_apoptosis](http://www.unboundmedicine.com/medline/ebm/record/19189054/abstract/A_metabolically_stable_analogue_of_anandamide_Met_F_AEA_inhibits_human_thyroid_carcinoma_cell_lines_by_activation_of_apoptosis)

## **CANCER - VARIOUS/ UNNAMED**

Unpublished Federal Study Found THC-Treated Rats Lived Longer, Had Less Cancer  
(news - no date)

<http://www.drugsense.org/mcwilliams/www.marijuanamagazine.com/toc/rats.htm>

Analgesic effect of delta-9-tetrahydrocannabinol. (abst - 1975)

[http://www.cannabis-med.org/studies/ww\\_en\\_db\\_study\\_show.php?s\\_id=16](http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=16)

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

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<http://www.jbc.org/content/271/18/10640.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=Hexahydrocannabinol&searchid=1&FIRSTINDEX=0&resourceType=HWCIT>

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**CROHN'S** - see BOWEL DISORDERS

**CRUETZFELDT-JACOB DISEASE** - see MAD COW DISEASE

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

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## **DEPRESSION**

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### **GERD/GASTRO-ESOPHAGEAL REFLUX** - also see BOWEL DISORDERS

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<http://www.iovs.org/cgi/content/full/48/7/2997?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoids&andexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HWCIT>

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January is Glaucoma Awareness Month: Can Marijuana save eyesight?  
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<http://www.medicine.virginia.edu/clinical/departments/physical-medicine-rehabilitation/Gout-page>

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My Pot Story: Gout and Medical Marijuana (news/ anecdotal – 2011)

<http://californiapotblog.com/gout-marijuana-medicine-pot-story/>

Is Medical Marijuana a Controllable Gout Solution? (news/anecdotal – 2011)

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<http://www.ncbi.nlm.nih.gov/pubmed/17447045>

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2518473/?tool=pubmed>

Levels of endocannabinoids and palmitoylethanolamide and their pharmacological manipulation in chronic granulomatous inflammation in rats. (abst – 2010)

<http://www.ncbi.nlm.nih.gov/pubmed/19931394>

Palmitoylethanolamide reduces granuloma-induced hyperalgesia by modulation of mast cell activation in rats (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3034677/?tool=pubmed>

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Alternative Treatments for Graves Disease; Marijuana (Cannabis) (news - 2009)

<http://mcsocal.com/blog/alternative-treatments-for-graves-disease-marijuana-cannabis/>

**GWP- 42006-** a phytocannabinoid

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

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

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

Pot Compound Exerts Anticonvulsant Effects In Animal Models Of Epilepsy

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[http://www.norml.org/index.cfm?Group\\_ID=8458](http://www.norml.org/index.cfm?Group_ID=8458)

## **GYNOCOLOGY / FEMALE SEXUAL FUNCTION**

Women Find Healthy Hormone Balance with Hemp ( ad/ article - no date)

[http://manitobaharvest.com/articles\\_studies/3815/Women-Find-Healthy-Hormone-Balance-with-Hemp.html](http://manitobaharvest.com/articles_studies/3815/Women-Find-Healthy-Hormone-Balance-with-Hemp.html)

MIGRAINE ASSOCIATED WITH MENSTRUATION (article – 1942 - on 3rd page)

<http://jama.ama-assn.org/cgi/reprint/120/4/324?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT>

Marihuana use across the menstrual cycle. (abst – 1986)

<http://www.ncbi.nlm.nih.gov/pubmed/3780416>

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Cannabis Treatments in Obstetrics and Gynecology: A Historical Review

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Female sex, but not male sex, better with cannabis (news – 2009)

<http://www.examiner.com/health-science-in-vancouver/female-sex-but-not-male-sex-better-with-cannabis>

Antiproliferative effects of cannabinoid agonists on deep infiltrating endometriosis.

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Effect of palmitoylethanolamide-polydatin combination on chronic pelvic pain associated with endometriosis: preliminary observations. (abst – 2010)

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Effects of the cannabinoid antagonist SR 141716 on sexual and motor behavior in receptive female rats. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21848907>

San Francisco Medical Marijuana Clinic Says Cannabis is Effective for Many Women's Medical Issues (news – 2011)

[http://www.redorbit.com/news/health/2085616/san\\_francisco\\_medical\\_marijuana\\_clinic\\_says\\_cannabis\\_is\\_effective\\_for/index.html?source=r\\_health](http://www.redorbit.com/news/health/2085616/san_francisco_medical_marijuana_clinic_says_cannabis_is_effective_for/index.html?source=r_health)

Cannabis brings relief to women suffering from PMS and PMDD symptoms (news – 2011)

<http://www.examiner.com/cannabis-revolution-in-las-vegas/cannabis-brings-relief-to-women-suffering-from-pms-and-pmdd-symptoms>

Cannabis and Women's Health Part 1: Historic Evidence (news – 2011)

<http://www.examiner.com/medical-marijuana-in-philadelphia/cannabis-and-women-s-health-part-1-historic-evidence>

My Green Valentine: Sex and marijuana (news/interview – 2011)

<http://www.examiner.com/norml-in-philadelphia/my-green-valentine-sex-and-marijuana>

## **HAIR**

Inhibition of human hair follicle growth by endo and exocannabinoids (full - 2007)

<http://www.fasebj.org/cgi/reprint/21/13/3534?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=10&sortspec=relevance&resourcetype=HWCIT>

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[http://www.unboundmedicine.com/medline/ebm/record/21414652/abstract/Identification\\_of\\_cannabinoid\\_type\\_1\\_receptor\\_in\\_dog\\_hair\\_follicles](http://www.unboundmedicine.com/medline/ebm/record/21414652/abstract/Identification_of_cannabinoid_type_1_receptor_in_dog_hair_follicles)

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## **HEARING** - also see TINNITUS

Effect of Marihuana on Hearing. (abst – 1976) <http://www.ncbi.nlm.nih.gov/pubmed/933252>

The acute effects of tetrahydrocannabinol on auditory threshold and frequency resolution in human subjects. (abst - 2002) <http://www.ncbi.nlm.nih.gov/pubmed/12195931>

Doctor's diary: cannabis as medicine - the dilemma (news - 2005)  
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Cannabinoid receptor down-regulation in the ventral cochlear nucleus in a salicylate model of tinnitus. (abst - 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17376618>

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## **HEART DISEASE/ CARDIOVASCULAR**

Effects of cannabis roots on the heart. (forum post- letter - 1973)  
<http://www.greenpassion.org/showthread.php?p=305492#post305492>

Intravenous delta9-Tetrahydrocannabinol: Effects of ventilatory control and cardiovascular dynamics. (full - 1975)  
<http://journals.lww.com/anesthesiology/pages/articleviewer.aspx?year=1975&issue=06000&article=00008&type=abstract>

The Effects of Delta-9-Tetrahydrocannabinol (Cannabis) on Cardiac Performance with and without Beta Blockade (full - 1976)  
<http://circ.ahajournals.org/cgi/reprint/53/4/703?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=2080&resourcetype=HWCIT>

The cardiovascular effects of marihuana in man (full - 1977)  
<http://chestjournal.chestpubs.org/content/72/1/2.full.pdf+html?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=80&resourcetype=HWCIT>



Short-term effects of smoked marihuana on left ventricular function in man (full - 1977)  
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<http://www.ncbi.nlm.nih.gov/pubmed/403557>

Cannabinoids. II. Cardiovascular Effects (full - 1980)  
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The cardiovascular and autonomic effects of repeated administration of delta-9-tetrahydrocannabinol to rhesus monkeys. (abst – 1981)  
<http://www.ncbi.nlm.nih.gov/pubmed/6257883>

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

The inhibitory effects of cannabinoids, the active constituents of Cannabis sativa L. on human and rabbit platelet aggregation. (abst - 1989)  
<http://www.ncbi.nlm.nih.gov/pubmed/2575149>

Changes in middle cerebral artery velocity after marijuana (abst - 1992)  
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Endogenous cannabinoid signaling is essential for stress adaptation (full - 2010)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2889099/?tool=pmcentrez>

Scientific Opinion on the safety of hemp (Cannabis genus) for use as animal feed (full – 2011) (deceptive title)

[http://www.hanf-info.ch/info/en/IMG/pdf/EIHA-11-05-31\\_EIHA-Statement\\_on\\_THC\\_in\\_feed.pdf](http://www.hanf-info.ch/info/en/IMG/pdf/EIHA-11-05-31_EIHA-Statement_on_THC_in_feed.pdf)

Drug- and cue-induced reinstatement of cannabinoid-seeking behaviour in male and female rats: influence of ovarian hormones. (abst - 2010)

<http://www.ncbi.nlm.nih.gov/pubmed/20590575>

Science: Cannabis influences blood levels of appetite hormones in people with HIV (news – 2011)

[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=363#2](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=363#2)

Interaction of endocannabinoid system and steroid hormones in the control of colon cancer cell growth. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21412772>

Gender-dependent increases with healthy aging of the human cerebral cannabinoid-type 1 receptor binding using [(18)F]MK-9470 PET. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/18077184>

Antinociception and sedation following intracerebroventricular administration of  $\Delta^9$ -tetrahydrocannabinol in female vs. male rats. (abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/20692296/abstract/Antinociception\\_and\\_sedation\\_following\\_intracerebroventricular\\_administration\\_of\\_%CE%94%E2%81%B9\\_tetrahydrocannabinol\\_in\\_female\\_vs\\_male\\_rats](http://www.unboundmedicine.com/medline/ebm/record/20692296/abstract/Antinociception_and_sedation_following_intracerebroventricular_administration_of_%CE%94%E2%81%B9_tetrahydrocannabinol_in_female_vs_male_rats)

CB1 cannabinoid receptor mediates glucocorticoid effects on hormone secretion induced by volume and osmotic changes. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/22211674>

My Green Valentine: Sex and marijuana (news/interview – 2011)  
<http://www.examiner.com/norml-in-philadelphia/my-green-valentine-sex-and-marijuana>

## **HPV/ HUMAN PAPILLOMA VIRUS**

Marijuana use and cervical HPV/neoplasia (abst - 2008)  
<http://www.infectagentscancer.com/content/4/S2/P15>

Bogarting that joint might decrease oral hpv among cannabis users. (full - 2009)  
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Cannabinoids and Viral Infections (full - 2010)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2903762/?tool=pmcentrez>

Marijuana Use is Not Associated with Cervical Human Papillomavirus Natural History or Cervical Neoplasia in HIV-Seropositive or HIV-Seronegative Women (abst - 2010)  
<http://cebp.aacrjournals.org/content/19/3/869.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=2960&resourcetype=HWCIT>

## **HU-210-** synthetic, CB 1 & CB 2 agonist

Learning impairment produced in rats by the cannabinoid agonist HU 210 in a water-maze task. (abst – 1999) <http://www.ncbi.nlm.nih.gov/pubmed/10548271>

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>

Involvement of central and peripheral cannabinoid receptors in the regulation of heart resistance to arrhythmogenic effects of epinephrine. (abst - 2000)  
[http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list\\_uids=11182823&dopt=abstractplus](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list_uids=11182823&dopt=abstractplus)

Inhibitory effects of the cannabinoid agonist HU 210 on rat sexual behaviour. (abst – 2000) <http://www.ncbi.nlm.nih.gov/pubmed/10913795>

Targeting CB2 cannabinoid receptors as a novel therapy to treat malignant lymphoblastic disease (full - 2002)

<http://bloodjournal.hematologylibrary.org/cgi/content/full/100/2/627?ijkey=eb71d6d7a06f311440761cfac6a7d081bcc2771d>

Influence of the CB1 receptor antagonist, AM 251, on the regional haemodynamic effects of WIN-55212-2 or HU 210 in conscious rats (full - 2002)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573379/?tool=pmcentrez>

Activation of cannabinoid receptors decreases the area of ischemic myocardial necrosis. (abst - 2002)

[http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list\\_uids=12428278&dopt=abstractplus](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list_uids=12428278&dopt=abstractplus)

Increase of the heart arrhythmogenic resistance and decrease of the myocardial necrosis zone during activation of cannabinoid receptors (abst - 2002)

<http://www.ncbi.nlm.nih.gov/pubmed/12136723>

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>

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>

CB1 cannabinoid receptor antagonism promotes remodeling and cannabinoid treatment prevents endothelial dysfunction and hypotension in rats with myocardial infarction

(full - 2003) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573770/?tool=pmcentrez>

Drug-induced hypothermia reduces ischemic damage: effects of the cannabinoid HU-210.

(full - 2003) <http://stroke.ahajournals.org/cgi/reprint/34/8/2000>

Histamine induced responses are attenuated by a cannabinoid receptor agonist in human skin. (abst - 2003)

<http://www.ncbi.nlm.nih.gov/pubmed/12835895>

The endogenous cannabinoid system protects against colonic inflammation (full - 2004)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC385396/?tool=pmcentrez>

Direct cerebrovascular effects of CB1 receptor activation by the synthetic endocannabinoid HU-210 in vivo (full - 2005)

<http://www.nature.com/jcbfm/journal/v25/n1s/full/9591524.0581a.html>

Cannabinoids promote embryonic and adult hippocampus neurogenesis and produce anxiolytic- and antidepressant-like effects (full - 2005)

<http://www.jci.org/articles/view/25509/version/1>

Cannabinoids provide neuroprotection against 6-hydroxydopamine toxicity in vivo and in vitro: relevance to Parkinson's disease. (abst - 2005)

<http://www.ncbi.nlm.nih.gov/pubmed/15837565?dopt=Abstract>

Is cannabis good for your brain? (news - 2005)

<http://arstechnica.com/science/news/2005/10/1529.ars>

Marijuana May Spur New Brain Cells (news - 2005)

<http://www.treatingyourself.com/vbulletin/showthread.php?t=5921>

Study Shows Marijuana Promotes Neuron Growth (news - 2005)

[http://english.ohmynews.com/articleview/article\\_view.asp?menu=c10400&no=253377&rel\\_no=1](http://english.ohmynews.com/articleview/article_view.asp?menu=c10400&no=253377&rel_no=1)

Marijuana May Grow Neurons in the Brain (news - 2005)

<http://www.medpagetoday.com/Psychiatry/AnxietyStress/1934>

Surprising Brain Effects From Pot-Like Drug (news - 2005)

<http://www.webmd.com/mental-health/news/20051013/surprising-brain-effects-from-pot-like-drug>

Marijuana might cause new cell growth in the brain (news - 2005)

<http://www.newscientist.com/article/dn8155>

Actions of the FAAH inhibitor URB597 in neuropathic and inflammatory chronic pain models (full - 2006)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751298/?tool=pmcentrez>

Arthritis and cannabinoids: HU-210 and Win-55,212-2 prevent IL-1 $\alpha$ -induced matrix degradation in bovine articular chondrocytes in-vitro. (abst - 2006)

<http://www.ncbi.nlm.nih.gov/pubmed/16536902>

Cannabinoids Ameliorate Pain and Reduce Disease Pathology in Cerulein-Induced Acute Pancreatitis (full - 2007)

<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2268094>

Increased endocannabinoid levels reduce the development of precancerous lesions in the mouse colon (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2755791/?tool=pmcentrez>

Cannabinoids Induce Glioma Stem-like Cell Differentiation and Inhibit Gliomagenesis (full - 2007)

<http://www.jbc.org/content/282/9/6854.long>

The synthetic cannabinoid HU210 induces spatial memory deficits and suppresses hippocampal firing rate in rats (full - 2007)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2013991/>

The synthetic cannabinoid HU-210 attenuates neural damage in diabetic mice and hyperglycemic pheochromocytoma PC12 cells (abst - 2007)

<http://lib.bioinfo.pl/pmid:17604177>

Excitotoxicity in a chronic model of multiple sclerosis: Neuroprotective effects of cannabinoids through CB1 and CB2 receptor activation. (abst – 2007)

<http://www.ncbi.nlm.nih.gov/pubmed/17229577>

Repeated Cannabinoid Injections into the Rat Periaqueductal Gray Enhances Subsequent Morphine Antinociception (full - 2008)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2743428/?tool=pmcentrez>

Cannabinoid receptor 1 is a potential drug target for treatment of translocation-positive rhabdomyosarcoma (full - 2009) <http://mct.aacrjournals.org/content/8/7/1838.full>

Spice drugs: cannabinoids as a new designer drugs. (abst - 2009)

[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_drugs:_cannabinoids_as_a_new_designer_drugs_%5D)

Involvement of cannabinoid-1 and cannabinoid-2 receptors in septic ileus. (full – 2010)

<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2982.2009.01419.x/pdf>

Regulation of nausea and vomiting by cannabinoids (abst - 2010)

<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2010.01176.x/abstract;jsessionid=56CED9CE51B025C161AA2E821BEC94ED.d01t01>

Now, There's a Test for That -- Norchem's "Fake Marijuana" Test Reveals Significantly 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>

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

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

Beyond THC: The New Generation of Cannabinoid Designer Drugs. (full – 2011)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3187647/?tool=pubmed>

Investigating a not-so-natural high. (full – 2011)

<http://pubs.acs.org/doi/full/10.1021/ac900564u>

Pharmacological activation/inhibition of the cannabinoid system affects alcohol withdrawal-induced neuronal hypersensitivity to excitotoxic insults. (abst – 2011)

<http://www.ncbi.nlm.nih.gov/pubmed/21886913>

Regulation of nausea and vomiting by cannabinoids. (abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/21175589/abstract/Regulation\\_of\\_nausea\\_and\\_vomiting\\_by\\_cannabinoids](http://www.unboundmedicine.com/medline/ebm/record/21175589/abstract/Regulation_of_nausea_and_vomiting_by_cannabinoids)

The effects of cannabinoid drugs on abnormal involuntary movements in dyskinetic and non-dyskinetic 6-hydroxydopamine lesioned rats. (abst – 2011)

[http://www.unboundmedicine.com/medline/ebm/record/20888328/abstract/The\\_effects\\_of\\_cannabinoid\\_drugs\\_on\\_abnormal\\_involuntary\\_movements\\_in\\_dyskinetic\\_and\\_non\\_dyskinetic\\_6\\_hydroxydopamine\\_lesioned\\_rats](http://www.unboundmedicine.com/medline/ebm/record/20888328/abstract/The_effects_of_cannabinoid_drugs_on_abnormal_involuntary_movements_in_dyskinetic_and_non_dyskinetic_6_hydroxydopamine_lesioned_rats)



Increased brain metabolism after acute administration of the synthetic cannabinoid HU210: A small animal PET imaging study with (18)F-FDG. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/22155282>

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

A nonpsychotropic cannabinoid, HU-211, has cerebroprotective effects after closed head injury in the rat. (abst – 1993) <http://www.ncbi.nlm.nih.gov/pubmed/8411215>

HU-211, a Novel Noncompetitive N-Methyl-D-Aspartate Antagonist, Improves Neurological Deficit and Reduces Infarct Volume After Reversible Focal Cerebral Ischemia in the Rat (full - 1995) <http://stroke.ahajournals.org/cgi/content/full/26/12/2313>

<sup>45</sup>Ca accumulation in rat brain after closed head injury; attenuation by the novel neuroprotective agent HU-211. (abst – 1995) <http://www.ncbi.nlm.nih.gov/pubmed/7583233>

Development of HU-211 as a neuroprotectant for ischemic brain damage. (abst – 1995)  
<http://www.ncbi.nlm.nih.gov/pubmed/7477742>

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

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>

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

Protection Against Septic Shock and Suppression of Tumor Necrosis Factor  $\alpha$  and Nitric Oxide Production by Dexanabinol (HU-211), a Nonpsychotropic Cannabinoid (full - 1997) <http://jpet.aspetjournals.org/content/283/2/918.full>

Dexanabinol; a novel neuroprotective drug in experimental focal cerebral ischemia. (abst – 1999) <http://www.ncbi.nlm.nih.gov/pubmed/10202976>

Cannabinoids in clinical practice. (abst - 2000)  
<http://www.ncbi.nlm.nih.gov/pubmed/11152013>

Dexanabinol (HU-211) in the treatment of severe closed head injury: a randomized, placebo-controlled, phase II clinical trial. (abst - 2002)  
<http://www.ncbi.nlm.nih.gov/pubmed/11990913?dopt=Abstract>

Dexanabinol: a novel cannabinoid with neuroprotective properties. (abst – 2003)  
<http://www.ncbi.nlm.nih.gov/pubmed/14534855>

Dexanabinol (HU-211) has a beneficial effect on axonal sprouting and survival after rat optic nerve crush injury. (abst – 2003) <http://www.ncbi.nlm.nih.gov/pubmed/12535983>

Therapeutic potential of cannabinoids in CNS disease. (abst - 2003)  
<http://www.ncbi.nlm.nih.gov/pubmed/12617697>

Dexanabinol: dexanabinone, HU 211, PA 50211, PRS 211007, sinnabidol.  
(abst - 2003) <http://www.ncbi.nlm.nih.gov/pubmed/12757406>

Dexanabinol prevents development of vasospasm in the rat femoral artery model.  
(abst – 2008) <http://www.ncbi.nlm.nih.gov/pubmed/18256864>

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

### **HU-308** - synthetic, CB2 agonist

HU-308: a specific agonist for CB(2), a peripheral cannabinoid receptor. (full - 1999)  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC24419/?tool=pubmed>

Non-psychoactive CB2 cannabinoid agonists stimulate neural progenitor proliferation  
(full - 2005)  
<http://www.fasebj.org/cgi/content/full/20/13/2405?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcectype=HW CIT>

Peripheral cannabinoid receptor, CB2, regulates bone mass (full - 2005)  
<http://www.pnas.org/content/103/3/696.full>

Cannabinoid CB2 receptor agonist activity in the hindpaw incision model of postoperative pain. (abst - 2005) <http://www.ncbi.nlm.nih.gov/pubmed/16316653>

Activation of CB2 receptor attenuates bone loss in osteoporosis (news - 2006)  
[http://www.cannabis-med.org/english/bulletin/ww\\_en\\_db\\_cannabis\\_artikel.php?id=210#2](http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=210#2)

Non-psychoactive CB2 cannabinoid agonists stimulate neural progenitor proliferation  
(full – 2006) <http://www.fasebj.org/content/20/13/2405.long>

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>

Endocannabinoids, cannabinoid receptors and inflammatory stress: an interview with Dr. Pál Pacher (interview - 2007)

<http://www.jleukbio.org/cgi/content/full/82/6/1390?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=880&resourcetype=HWCIT>

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>

CB2 Cannabinoid Receptors Promote Neural Progenitor Cell Proliferation via mTORC1 Signaling (abst – 2011)

<http://www.jbc.org/content/287/2/1198.abstract?sid=2c3b88ec-b6e6-4245-a171-2e24c17b5e8b>

### **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 cannabinoid 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)

<http://onlinelibrary.wiley.com/doi/10.1002/art.20050/full>

### **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)

<http://jpet.aspetjournals.org/content/322/2/646.full>

HU-331, a novel cannabinoid-based anticancer topoisomerase II inhibitor (full - 2007)  
<http://mct.aacrjournals.org/content/6/1/173.long>

HU-331: a cannabinoid quinone, with uncommon cytotoxic properties and low toxicity.  
(abst - 2007) <http://www.ncbi.nlm.nih.gov/pubmed/17714026>

### **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)  
<http://www.ncbi.nlm.nih.gov/pubmed/21449982>

## **HUNTINGTON'S DISEASE**

Tetrahydrocannabinol potentiates reserpine-induced hypokinesia. (abst – 1981)  
<http://www.ncbi.nlm.nih.gov/pubmed/6273940>

EFFECTS OF CANNABIDIOL IN HUNTINGTON'S DISEASE (abst - 1986)  
<http://www.druglibrary.org/schaffer/hemp/medical/hunting1.htm>

Loss of cannabinoid receptors in the substantia nigra in Huntington's disease.  
(abst – 1993) <http://www.ncbi.nlm.nih.gov/pubmed/8255419>

Cannabis in movement disorders. (abst - 1999)  
<http://www.ncbi.nlm.nih.gov/pubmed/10627163>

Cannabinoid Receptor Messenger Rna Levels Decrease in a Subset of Neurons of the Lateral Striatum, Cortex and Hippocampus of Transgenic Huntington's Disease Mice.  
(abst - 2000)  
<http://medical-journals.healio.com/doc/10891614/Cannabinoid-receptor-messenger-RNA-levels-decrease-in-a-subset-of-neurons-of-the-lateral-striatum-cortex-and-hippocampus-of-transgenic-Huntingtons-disease-mice>

Changes in endocannabinoid transmission in the basal ganglia in a rat model of Huntington's disease. (abst – 2001) <http://www.ncbi.nlm.nih.gov/pubmed/11447320>

Alleviation of motor hyperactivity and neurochemical deficits by endocannabinoid uptake inhibition in a rat model of Huntington's disease. (abst – 2002)  
<http://www.ncbi.nlm.nih.gov/pubmed/11842443>

Loss of cannabinoid CB(1) receptors in the basal ganglia in the late akinetic phase of rats with experimental Huntington's disease. (abst – 2002)

<http://www.ncbi.nlm.nih.gov/pubmed/12709298>

Compounds acting at the endocannabinoid and/or endovanilloid systems reduce hyperkinesia in a rat model of Huntington's disease. (abst – 2003)

<http://www.ncbi.nlm.nih.gov/pubmed/12603833>

Effects of cannabinoids in the rat model of Huntington's disease generated by an intrastriatal injection of malonate. (abst – 2003)

<http://www.ncbi.nlm.nih.gov/pubmed/12858038>

The endocannabinoid system and Huntington's disease. (abst – 2003)

<http://www.ncbi.nlm.nih.gov/pubmed/14529364>

Structure, expression and regulation of the cannabinoid receptor gene (CB1) in Huntington's disease transgenic mice. (full – 2004)

<http://onlinelibrary.wiley.com/doi/10.1111/j.1432-1033.2004.04460.x/full>

Delayed onset of Huntington's disease in mice in an enriched environment correlates with delayed loss of cannabinoid CB1 receptors. (abst – 2004)

<http://www.ncbi.nlm.nih.gov/pubmed/14667455>

Cannabinoid control of motor function at the basal ganglia. (abst – 2005)

<http://www.ncbi.nlm.nih.gov/pubmed/16596785>

Abnormal sensitivity to cannabinoid receptor stimulation might contribute to altered gamma-aminobutyric acid transmission in the striatum of R6/2 Huntington's disease mice. (abst – 2005) <http://www.ncbi.nlm.nih.gov/pubmed/15953496>

Nabilone Could Treat Chorea and Irritability in Huntington's Disease (letter - 2006)

<http://neuro.psychiatryonline.org/cgi/content/short/18/4/553?rss=1>

UCM707, an inhibitor of the anandamide uptake, behaves as a symptom control agent in models of Huntington's disease and multiple sclerosis, but fails to delay/arrest the progression of different motor-related disorders. (abst – 2006)

<http://www.ncbi.nlm.nih.gov/pubmed/16006105>

Cannabinoids and neuroprotection in motor-related disorders. (abst - 2007)

<http://www.ncbi.nlm.nih.gov/pubmed/18220777>

Altered Lipid Metabolism in Brain Injury and Disorders (full - 2008)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2293298/?tool=pmcentrez>

The endocannabinoid system in Huntington's disease. (abst - 2008)

<http://www.ncbi.nlm.nih.gov/pubmed/18781982>

The endocannabinoid pathway in Huntington's disease: a comparison with other neurodegenerative diseases. (abst – 2008) <http://www.ncbi.nlm.nih.gov/pubmed/17276576>

Role of CB2 receptors in neuroprotective effects of cannabinoids. (abst - 2008) <http://www.ncbi.nlm.nih.gov/pubmed/18291574>

Microglial CB2 cannabinoid receptors are neuroprotective in Huntington's disease excitotoxicity (full - 2009) <http://brain.oxfordjournals.org/content/132/11/3152.long>

Altered CB1 receptor and endocannabinoid levels precede motor symptom onset in a transgenic mouse model of Huntington's disease. (abst – 2009) <http://www.ncbi.nlm.nih.gov/pubmed/19524019>

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

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efficacious CB(1) cannabinoid receptor agonists. (abst – 2011)  
<http://www.ncbi.nlm.nih.gov/pubmed/21333643>

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<http://www.ncbi.nlm.nih.gov/pubmed/21167669>

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

College students and use of K2: an emerging drug of abuse in young persons

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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>

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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>

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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)

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Influence of nicotinic receptor modulators on CB2 cannabinoid receptor agonist (JWH133)-induced antinociception in mice. (abst – 2007)

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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>

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)

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

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Cannabinoid CB2 Receptor Potentiates Obesity-Associated Inflammation, Insulin Resistance and Hepatic Steatosis (full - 2009)

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

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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>

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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)  
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Cannabinoid Receptor 1 Blockade Ameliorates Albuminuria in Experimental Diabetic Nephropathy (full – 2010)  
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Expression of cannabinoid receptors in human kidney. (abst – 2010)  
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Protective Role of Cannabinoid Receptor Type 2 in a Mouse Model of Diabetic Nephropathy. (abst – 2011) <http://www.ncbi.nlm.nih.gov/pubmed/21810593>

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

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Context-dependent effects of CB1 cannabinoid gene disruption on anxiety-like and social behaviour in mice (abst – 2004)  
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Overeating, Alcohol and Sucrose Consumption Decrease in Cb1 Receptor Deleted Mice. (abst – 2004)  
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Ethanol Induces Higher Bec in Cb1 Cannabinoid Receptor Knockout Mice While Decreasing Ethanol Preference. (full – 2005)  
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<http://www.sciencedaily.com/releases/2008/08/080801074056.htm>

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## **LEGIONAIRES DISEASE**

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

GENERIC NAME: NABILONE - ORAL (NAB-ih-lone)

Brand Names : Cesamet (monograph - no date)

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**OMEGA-3/ CB1 CONNECTION** (without Omega 3, new CB1 receptors are made imperfectly)  
also see NUTRITION – HEMP SEED OIL, CBR- CB1 receptors

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Successfully treated invasive pulmonary aspergillosis associated with smoking marijuana in a renal transplant recipient. (abst - 1996) <http://www.ncbi.nlm.nih.gov/pubmed/8685958>

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Patent application number: 20100249223 (full - 2010)  
<http://www.faqs.org/patents/app/20100249223>

CANNABINOID-CONTAINING PLANT EXTRACTS AS NEUROPROTECTIVE AGENTS Patent application number: 20100239693 (full - 2010)

<http://www.faqs.org/patents/app/20100239693>

Patent application title: PHARMACOLOGICAL TREATMENT OF PSORIASIS

(full – 2010) <http://www.faqs.org/patents/app/20080255224>

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<http://www.patentstorm.us/patents/7816143/fulltext.html>

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<http://www.patentstorm.us/applications/20100204312/fulltext.html>

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<http://www.patentstorm.us/applications/20100158973/fulltext.html>

US Patent Application 20110097283 - CHEWING GUM COMPOSITIONS COMPRISING CANNABINOIDS (full – 2011)

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Methods (full – 2011) <http://www.patentstorm.us/applications/20110073120/fulltext.html>

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**PEA – PALMITOYLETHANOLAMIDE** - endocannabinoid , GPR55 & GPR119 agonist

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<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1573125&tool=pmcentrez>

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<http://www.ncbi.nlm.nih.gov/pubmed/19909294>

Chocolate: The Good, the Bad and the Angry (news - 2010)  
<http://www.psychologytoday.com/blog/your-brain-food/201011/chocolate-the-good-the-bad-and-the-angry>

Increasing Antiproliferative Properties of Endocannabinoids in N1E-115 Neuroblastoma Cells through Inhibition of Their Metabolism. (full – 2011)  
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## **PHYTOCANNABINOIDS/ PLANT EXTRACTS** - also see THC, CBD

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Immunoactive cannabinoids: Therapeutic prospects for marijuana constituents (full - 2000) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC34030/?tool=pubmed>

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Cannabis can help MS sufferers (news - 2003)

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## **POISONING - ORGANOPHOSPHATE**

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### **TUBERCULOSIS**

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**URB - 597 / KDS-4103**- slows cannabinoid destruction

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**YOUNG ADULTS** - see CHILDREN/ YOUNG ADULTS

A few definitions to help you along-

**Agonist** – a chemical that activates a receptor

**Analogue** – a synthetic version

**Anandamide** - A “messenger chemical” made by your body – similar to THC

**Angiogenesis** - making new blood vessels, often to feed a tumor

**Antagonist** – a chemical that blocks the action of an agonist

**Anti-nociception**- pain relieving

**Anxiolytic** – calming, anti-anxiety

**Apoptosis** - a process that leads to the normally programmed death of a cell.

**Autophagy** – the cell self-destructs

**Beta amyloid plaque /  $\beta$ -amyloid/  $A\beta$**  – the stuff that gums up your brain in Alzheimer’s

**Bronchodilator** – opens up the lungs

**Cannabinoids** –they activate CB receptors and come from your body, cannabis or labs.

**Chronic** – long term

**Downregulation** – a decrease in number

**Endocannabinoid** – a chemical messenger made by your body- anandamide and 2-AG

**Endocannabinoid System** – a system of chemical receptors on and between your cells

**Endogenous** – made in your own body

**Epidermal** – pertaining to the skin

**Hyperalgesia** – severe pain

**In vivo** – in a live animal

**In vitro** – in a test tube

**Ischemia** – damage from lack of blood to an area

**Ligand** - a chemical that binds to a receptor. THC is a ligand of CB1 and CB2 receptors

**Metastasis** – spreading through the body

**Neurogenesis** – new brain cells are being formed

**Neuropathic Pain** – pain due to nerve injury

**Neuroprotective** – protects nerves and brain cells

**Nonpsychoactive** – won’t get you high

**Phytocannabinoid** – a cannabinoid produced by a plant – THC and CBD are examples

**Receptors** - These receive the chemical messages and send them into our cells.

**Upregulation** – increase in number

**Vasodilator** – expands the blood vessels



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Introduction - July 2011- This year's message to all of you is a little different. I am going to be explaining a major scientific discovery- the Omega-3 / CB1 connection, and how it affects your healing with cannabis! But to understand fully this discovery, we need to revisit Biology 101.

Every cell in your body has tiny chemical receptors all over the cell's "skin" or cell membrane. These receptors work kind of like an ignition switch- you put the right type of chemical "key" into a receptor and it "turns on" some kind of action. The type 1 cannabinoid receptors (CB1s) are the ones we are interested in looking at. They are found both in the body and the brain.

"Turning on" a CB1 receptor with either an endocannabinoid that your body makes, or a phytocannabinoid like THC, can result in many different things occurring. A cancer cell may be "told" to die through a process called *apoptosis*, it may activate a basic instinct such as nursing, soothe an irritated digestive tract, or simply ease your pain. The CB1 receptors in your brain are the ones to blame, or praise, for the cannabis "high".

Every time a cell divides, whether it is a brain cell, or a body cell, it needs to make new "skin" to grow back to its full size, and that involves making a whole bunch of new receptors.

And this is where the cutting-edge science starts-- to make functional CB1 receptors, you absolutely need Omega-3! In "***Nutritional omega-3 deficiency abolishes endocannabinoid-mediated neuronal functions***", the Omega-6-rich "western diet" is implicated in our declining mental and physical health. The "ideal" proportion of Omega-6 to Omega-3 is around 3 to 4 parts Omega-6 to every 1 part Omega-3. Our "western diet" can deliver up to a 50 to 1 ratio!

When no Omega-3 is available, our bodies will "jury-rig" a new receptor with an Omega-6 where there should be an Omega-3. This results in a small, but important chunk, the Gi/o effector protein, not getting attached. As with a machine, the pieces need to be assembled right to work!

A drop in the number of working CB1 receptors is an early clinical sign in Parkinson's, colon cancer, Huntington's, and heralds a high risk for premature birth. Mice bred to be low in CB1 receptors have more severe heart attacks and strokes. Cancers ravage them. They age and become senile earlier than normal mice. They are used to study neurological conditions and bowel disorders. They often seem depressed. They sound a lot like many modern Americans.

The three most common sources of Omega-3 are fish oil, flax seed oil and hemp seed oil.

Cannabis is an effective and safe herbal medicine, but we need functioning CB1 receptors for it to work its miracles. Virtually every person needs more Omega-3 in their diet, but none as much as the medical users of cannabis! Cannabis heals us using our cannabinoid receptors, and also provides the Omega-3 that we need to make healthy CB receptors, so we can heal. And that is the simple, but scientific truth.

If the truth won't do, then something is wrong!

Introduction - July 2010 - This is my third year of sharing "Granny's list" with all of you. Last year, I told you "How this list came about." This year, it's "Why you should be sharing my list!"

From 60 pages, a symbolic celebration of my then 60 years on Earth, my list has grown to an equally symbolic 420 pages of links, in hopeful anticipation of the dawning of medical freedom in other states.

My "Granny's list" contains 100s of studies about cannabis and how can heal- all done in an environment of "strong discouragement" on the part of the US government. How large my collection would be if research into this healing herb had been unrestricted? What would we know if we could have researched during those 70- odd years of prohibition?

As a medicine, cannabis is potentially invaluable- this collection is ample proof of that! From stopping hiccups, to halting breast cancer's terrible spread, cannabis works! But there are still too many "may"s and "might"s when it comes to cannabis. We need more research, which will not, and cannot, happen until cannabis is legalized and rescheduled.

When I began using cannabis medically over 40 years ago, there was no such thing as "medical use"- not even the concept existed! Education has made the difference. Somewhere along the line, every one of the people who have voted to legalize medical use in their state, learned that cannabis was an effective medicine, perhaps from a relative's use, or from a program they saw, or a study they read. They learned the truth.

In a Canadian survey of doctors, a majority admitted that most of what they knew about cannabis came from their patients! They had learned only the "government line" in medical school. That was in Canada, where medical use is federally legal! So how much does your doctor really know about cannabis? My list gives you a way to educate him.

And you shouldn't stop with your doctor. Local city councilmen and commissioners have the power to ban dispensaries through local ordinances. It is easier to educate them before it's an issue. They need the medical facts about cannabis to make logical decisions!

We all know someone who has diabetes, fibro, cancer or MS. They shouldn't have to suffer, physically, financially, or legally, for using a safer-than-aspirin herbal medicine. One they could easily grow if sane cannabis laws were in place. Home-grown cannabis is cheaper and works faster than any pill and the side effects are far more pleasant.

Cannabis, with its remarkable safety record, should be the first medicine tried, not be the medicine of last resort! It is only by educating others, that we can bring cannabis back into mainstream medicine where it belongs. Please share the facts about cannabis with those around you, and back them up with medical studies from my list.

The simple truth is "Cannabis heals". And as my wise old grandfather once said, **"If the truth won't do, then something is wrong!"**

Intro - 2008

"If the truth won't do, then something is wrong!"

Those were the furious words of my grandfather to my Mother. I had walked in from joyfully stuffing my face with red raspberries in the garden, straight into "war zone"! My gentle grandfather in a fury, his hand raised! Mom was just beginning to shrink back away from him. They saw me and quickly sent me away. But it was too late, the scene and the words were seared into my 5-year-old brain. That was over 55 years ago, but I still remember it clearly. My grandfather was a minister, one very short step away from God in my 5 year old mind. It was one of those life changing moments. It is still rare for me to tell a lie. I never found out what my Mother's lie was.

As I child, I suffered a traumatic head injury. Another child tried to murder me with a hammer. I was left with frequent migraines. At 19, like many rebellious teens, I tried cannabis. It took about a year for me to make the connection between using cannabis and the absence of my normally frequent migraines. I have used cannabis ever since.

I am an avid reader. While perusing an old book on herbal medicine, I read how the little old ladies of Mexico made and used a cannabis/tequila rub on their arthritic hands. Then I met Joey, an epileptic musician. He told me another interesting fact- when he had pot he could cut his medication in half! On a camping trip years later, I smelled an unmistakable odor. Following my nose, I was totally shocked to find a grandmotherly lady in her 70s puffing away on a delicate oriental pipe. "Parkinson's. And the pot's way cheaper than the pills!" Her nephew kept her well supplied, she said. We had a nice chat about various medical uses of cannabis.

Epilepsy, Parkinson's, arthritis, and my migraines! What else was it good for? Yet every news article on cannabis that I saw, claimed one new horror after another. Men grew breasts and were impotent. Women became sterile or miscarried. It made you crazy and murderous. Made you lazy and do nothing. It caused cancer and heart attacks...What I had learned on my own and from others and what I was being told in the press were so different!

What was the truth? I began researching. I printed the first studies up and kept them in a notebook, just as a personal reference. The notebook quickly filled. I started a Word file of the URLs and on July 30 2007, I posted it. It continues to grow.

Here's some of what I have found. All I've done is copy the URLs, then put them all in some semblance order for everyone to use as a reference. Please feel free to share this list with anyone who could benefit from it.

July 30, 2007

It's my 60th birthday! That's a pretty big milestone. I've out-lived my beautiful, crazy mother (59 years 11 months) and I've been married and toking for 40 years. So, since 60 rolls around only once, I decided to give you a gift! I thought I'd share my notebook with you. It is a compilation of medical studies, news articles and information on cannabis.

In addition to the obvious use of people who are ill getting information on what might heal them, I hope that many of you will take up a challenge from me. I want this spread around- to your doctor, your politicians, ministers, and anyone who could use the info.

Information does no good if it is hoarded. If you know someone who is ill, copy and paste the part they need, or print up the article, and mail it to them (anonymously, might be a good idea in a lot of cases). Also, send a page or three of a print out of the titles and URLs and a typed message (again anonymously) leading to this post to your doctor. Something simple, like "Want to know more? Visit here!" and give the URL.

I'm hoping that in return for the hours I spent collecting this, you will give me a present in return- mailing this out and telling others. By spreading knowledge to help others, you give them power over their own lives! Knowledge is power! And the truth will set us free (to smoke our pot in peace!) - Storm Crow