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

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

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

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

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

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

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

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

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

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

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


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


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

Additive Interaction of the Cannabinoid Receptor I Agonist Arachidonyl-2-chloroethylamide with Etomidate in a Sedation Model in Mice (full – 2008)  

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)  

Involvement of nitrergic system in the anticonvulsant effect of the cannabinoid CB(1) agonist ACEA in the pentylenetetrazole-induced seizure in mice. (abst – 2009)  

Involvement of nitric oxide in the gastroprotective effect of ACEA, a selective cannabinoid CB1 receptor agonist, on aspirin-induced gastric ulceration. (abst – 2009)  

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)  

Role of cannabinoid CB1 receptors on macronutrient selection and satiety in rats. (abst – 2009)  

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

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

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

L-Type Calcium Channel Mediates Anticonvulsant Effect of Cannabinoids in Acute and Chronic Murine Models of Seizure. (abst – 2011)  

Contrasting effects of different cannabinoid receptor ligands on mouse ingestive behavior (abst – 2012)  http://www.unboundmedicine.com/medline/ebm/record/22772336/abstract/Contrasting_effects_of_differen_t_cannabinoid_receptor_ligands_on_mouse_ingestive_behavior


Opposing Roles for Cannabinoid Receptor Type-1 (CB1) 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


ACHILLES TENDINOSIS

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

Endocannabinoids enhance lipid synthesis and apoptosis of human sebocytes via cannabinoid receptor-2-mediated signaling. (full – 2008)
http://www.fasebj.org/content/22/10/3685.long

The endocannabinoid system of the skin in health and disease: novel perspectives and therapeutic opportunities. (full – 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2757311/?tool=pubmed

Hemp Seed Oil Benefits (news – 2009)
http://www.livestrong.com/article/31903-hemp-seed-oil-benefits/

Endocannabinoid signaling and epidermal differentiation. (abst – 2011)

**ADD/ ADHD**

ADHD by Ryan P (anecdotal - undated)
http://www.rxmarijuana.com/shared_comments/ADHD4.htm

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

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

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

Cannabis 'Scrips 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_of_THC%5D

Science: THC normalized impaired psychomotor performance and mood in a patient with hyperactivity disorder  (news - 2007)

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)

Cannabis use and adult ADHD symptoms.  (abst - 2008)

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

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


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

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

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

Why I Give My 9-Year-Old Pot, Part II  (news/anecdotal - 2009)


Dr. Jean Talleyrand Says Marijuana Safer than Ritalin for ADHD Teens  (news – 2010)

Science: Cannabis effective in the treatment of TOURETTE Syndrome and attention deficit hyperactivity disorder (ADHD)  (news – 2010)
Loss of striatal cannabinoid CB1 receptor function in attention-deficit/hyperactivity disorder mice with point-mutation of the dopamine transporter. (abst – 2011)  

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

Effects of amphetamine on dopamine release in the rat nucleus accumbens shell region depend on cannabinoid CB1 receptor activation. (abst – 2012)  

### ADDICTION

An Abstinence Syndrome Following Chronic Administration of Delta-9-terahydrocannabinol in Rhesus Monkeys. (abst – 1980)  

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

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)  

Cannabis dependence, withdrawal, and reinforcing effects among adolescents with conduct symptoms and substance use disorders (abst – 1997)  

The fatty acid amide hydrolase C385A (P129T) missense variant in cannabis users: studies of drug use and dependence in Caucasians (abst – 2007)  

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

Delta9-tetrahydrocannabinol releases and facilitates the effects of endogenous enkephalins: reduction in morphine withdrawal syndrome without change in rewarding effect. (abst – 2001)  
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


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


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)

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/


Lack of behavioral sensitization after repeated exposure to THC in mice and comparison to methamphetamine  (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2637562/?tool=pubmed

Merck Manual - Marijuana (Cannabis)  (excerpt - 2008)
http://www.merckmanuals.com/professional/special_subjects/drug_use_and_dependence/marijuana_cannabis.html?qt=marijuana&alt=sh#v1027079

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)

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

Four percent of adults worldwide using cannabis  (news – 2009)
http://phys.org/news174892348.html

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

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

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)

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 δ-9-tetrahydrocannabinol and cannabidiol oromucosal spray (Sativex), a new cannabinoid medicine.  (abst – 2011)

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

Medical marijuana laws in 50 states: Investigating the relationship between state legalization of medical marijuana and marijuana use, abuse and dependence.  (abst – 2012)
2-AG / 2-ARACHIDONOYLGLYCEROL - endocannabinoid, CB1 & CB2 agonist

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

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

A Second Endogenous Cannabinoid That Modulates Long-term Potentiation.
(abst – 1997)

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


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)
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Endocannabinoids and Vascular Function  (full - 2000)
http://jpet.aspetjournals.org/content/294/1/27.long

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

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

Endogenous cannabinoids and appetite.  (abst – 2000)
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)  
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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://ipet.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/

Endocannabinoids are implicated in the infarct size-reducing effect conferred by heat stress preconditioning in isolated rat hearts (full – 2001)  
http://cardiovascres.oxfordjournals.org/content/55/3/619.full?sid=750c6a66-d3d1-484d-96e8-04975ba34325

An endogenous cannabinoid (2-AG) is neuroprotective after brain injury. (abst - 2001)  

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

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 cannabinoinds. (full – 2002)  
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Comparison of the enzymatic stability and intraocular pressure effects of 2-arachidonoylglycerol and noladin ether, a novel putative endocannabinoid. (full – 2002)  
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Changes in endocannabinoid contents in the brain of rats chronically exposed to nicotine, ethanol or cocaine. (abst – 2002)  
Endocannabinoid levels in rat limbic forebrain and hypothalamus in relation to fasting, feeding and satiation: stimulation of eating by 2-arachidonoyl glycerol.  (full – 2002) 
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Endocannabinoids protect the rat isolated heart against ischaemia  (full - 2003) 
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The Endogenous Cannabinoid System Regulates Seizure Frequency and Duration in a Model of Temporal Lobe Epilepsy  (full - 2003) 
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Cannabinoid influences on palatability: microstructural analysis of sucrose drinking after delta(9)-tetrahydrocannabinol, anandamide, 2-arachidonoyl glycerol and SR141716.  (abst – 2003) 

Short-term fasting and prolonged semistarvation have opposite effects on 2-AG levels in mouse brain.  (abst – 2003) 

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) 
https://www.jstage.jst.go.jp/article/jphs/96/4/96_4_367/_pdf

2-Arachidonoylglycerol A Novel Inhibitor of Androgen-Independent Prostate Cancer Cell Invasion  (full - 2004) 
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Effects of cannabinoids on colonic muscle contractility and tension in guinea pigs.  (full – 2005)  
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The endocannabinoid 2-AG protects the blood-brain barrier after closed head injury and inhibits mRNA expression of proinflammatory cytokines.  (abst - 2005)  
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Body's Own Marijuana-Like Compounds Are Crucial For Stress-Induced Pain Relief  (news - 2005)  
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Regulation, Function, and Dysregulation of Endocannabinoids in Models of Adipose and β-Pancreatic Cells and in Obesity and Hyperglycemia  (full - 2006)  
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Methods evaluating cannabinoid and endocannabinoid effects on gastrointestinal functions.  (abst – 2006)  


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Endocannabinoids block status epilepticus in cultured hippocampal neurons (full - 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2617750/?tool=pmcentrez
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Marijuana Compound Efficient Against Alzheimer's Disease

THC inhibits primary marker of Alzheimer's disease

Marijuana's Active Ingredient Shown to Inhibit Primary Marker of Alzheimer's Disease

Marijuana's Active Ingredient May Slow Progression Of Alzheimer's Disease

Marijuana may help stave off Alzheimer’s

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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)  

Endocannabinoid analogues exacerbate marble-burying behavior in mice via TRPV1 receptor.  (abst – 2012)  

Effects of the anandamide uptake blocker AM404 on food intake depend on feeding status and route of administration.  (abst – 2012) 

Inhibition of fatty acid amide hydrolase by URB597 attenuates the anxiolytic-like effect of acetaminophen in the mouse elevated plus-maze test.  (abst – 2012) 
AM-630 – synthetic, CB2 antagonist

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

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

Inhibition of Inflammatory Hyperalgesia by Activation of Peripheral CB2 Cannabinoid Receptors (full – 2003)

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


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


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


AM -678 - see JWH -100

AM-694 – synthetic, CB1 & CB2 agonist


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
Inhibition of Inflammatory Hyperalgesia by Activation of Peripheral CB2 Cannabinoid Receptors (full – 2003)  


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)  

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)  

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)  

Activation of the cannabinoid 2 receptor (CB2) protects against experimental colitis. (full - 2009)  

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)  
Cannabinoids attenuate cancer pain and proliferation in a mouse model.  
(full - 2011)  [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3099480/?tool=pubmed](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3099480/?tool=pubmed)

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.  

Cannabinoid receptor 2 and its agonists mediate hematopoiesis and hematopoietic stem and progenitor cell mobilization.  

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)

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

Therapeutic modulation of cannabinoid lipid signaling: Metabolic profiling of a novel antinociceptive cannabinoid-2 receptor agonist.  

Prevention of Fibrosis Progression in CCl4-Treated Rats: Role of the Hepatic Endocannabinoid and Apelin Systems  
(abst – 2012)  [http://jpet.aspetjournals.org/content/340/3/629.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5](http://jpet.aspetjournals.org/content/340/3/629.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5)

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

Synthetic Cannabinoid May Aid Fertility In Smokers  

Marijuana-like Chemical Can Restore Sperm Function Lost to Tobacco Abuse  

Cannabis-based boost for smokers' suffering sperm  
Effects of AM1346, a high-affinity CB1 receptor selective anandamide analog, on open-field behavior in rats. (abst – 2007)  http://www.ncbi.nlm.nih.gov/pubmed/17912052

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


AM-1710 – synthetic, CB2 agonist

Pharmacological characterization of AM1710, a putative cannabinoid CB(2) agonist from the cannabialactone 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_cannabialactone_class:_Antinociception_without_central_nervous_system_side_effects


AM-2201 – synthetic, CB1 agonist


AM-2233 – synthetic, CB1 agonist


Another nail in coffin of synthetic cannabis (news – 2011)

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%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=T=&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=T=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourcetype=HWCIT

The neutral cannabinoid CB₁ receptor antagonist AM4113 regulates body weight through changes in energy intake in the rat. (abst – 2011)


AM 6545 – synthetic, CB1 antagonist

Rehashing endocannabinoid antagonists: can we selectively target the periphery to safely treat obesity and type 2 diabetes? (full – 2010)
**AM 6701** – synthetic, equally blocks the break-down of 2-AG and anandamide

Equipotent Inhibition of Fatty Acid Amide Hydrolase and Monoacylglycerol Lipase - Dual Targets of the Endocannabinoid System to Protect against Seizure Pathology.  

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

Equipotent Inhibition of Fatty Acid Amide Hydrolase and Monoacylglycerol Lipase - Dual Targets of the Endocannabinoid System to Protect against Seizure Pathology.  

**AMOTIVATIONAL SYNDROME**

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

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

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

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

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

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

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

Activation of cannabinoid receptors by the pentacyclic triterpene α,β-amyrin inhibits inflammatory and neuropathic persistent pain in mice. (abst – 2011)  

The antinociceptive triterpene β-amyrin inhibits 2-arachidonoylglycerol (2-AG) hydrolysis without directly targeting CB receptors. (abst – 2012)  

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

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

Isolation and Structure of a Brain Constituent That Binds to the Cannabinoid Receptor.  
(abst – 1992)  

Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents CP55,940, WIN 55,212-2 and anandamide. (full - 1993)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2175863/?tool=pmcentrez&page=1

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

Pharmacological activity of the cannabinoid receptor agonist, anandamide, a brain constituent. (abst – 1993)  

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 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&RESULTFORMA T=&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


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


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) (may need registration)
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)

Brain Releases Marijuana-Like Substance In Response To Pain, Study Finds (news - 1999)
http://www.sciencedaily.com/releases/1999/10/991013074947.htm

Links found between marijuana and vision (news – 1999)

UC Irvine Researchers Demonstrate How Marijuana-Like Chemicals Work In The Brain (news - 1999)
http://www.sciencedaily.com/releases/1999/03/990323050735.htm

Why your brain is primed for a high (news - 1999) (may need registration)
http://www.newscientist.com/article/mg16121792.000-why-your-brain-is-primed-for-a-high.html

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

Endocannabinoids and Vascular Function (full - 2000)
http://jpet.aspetjournals.org/content/294/1/27.long

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

Effects of cannabinoid receptor agonists on neuronally-evoked contractions of urinary bladder tissues isolated from rat, mouse, pig, dog, monkey and human (full - 2000)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1571997/?tool=pmcentrez

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

Low dose anandamide affects food intake, cognitive function, neurotransmitter and corticosterone levels in diet-restricted mice. (abst – 2000)

Endogenous cannabinoids and appetite. (abst – 2000)
Anandamide and diet: inclusion of dietary arachidonate and docosahexaenoate leads to increased brain levels of the corresponding N-acylethanolamines in piglets. (full – 2001) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC33480/?tool=pubmed

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

Endocannabinoids are implicated in the infarct size-reducing effect conferred by heat stress preconditioning in isolated rat hearts (full – 2001) http://cardiovascrres.oxfordjournals.org/content/55/3/619.full?sid=750cba66-d3d1-484d-96e8-04975ba34325

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

Exogenous anandamide protects rat brain against acute neuronal injury in vivo. (full – 2001) http://www.jneurosci.org/content/21/22/8765.long

Anandamide administration into the ventromedial hypothalamus stimulates appetite in rats (full - 2001) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573067/?tool=pmcentrez

Palmitoylethanolamide inhibits the expression of fatty acid amide hydrolase and enhances the anti-proliferative effect of anandamide in human breast cancer cells (full - 2001) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1222054/pdf/11485574.pdf/?tool=pmcentrez


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

Anandamide activates peripheral nociceptors in normal and arthritic rat knee joints (full - 2001) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572613/?tool=pmcentrez

Supersensitivity to anandamide and enhanced endogenous cannabinoid signaling in mice lacking fatty acid amide hydrolase (full - 2001) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC55427/?tool=pubmed

Leptin-regulated endocannabinoids are involved in maintaining food intake (letter – 2001)  
[http://www.nature.com/nature/journal/v410/n6830/full/410822a0.html](http://www.nature.com/nature/journal/v410/n6830/full/410822a0.html)

Endogenous cannabinoid anandamide increases heart resistance to arrhythmogenic effects of epinephrine: role of CB(1) and CB(2) receptors.  (abst - 2001)

The Central Cannabinoid Receptor Inactivation Suppresses Endocrine Reproductive Functions. (abst – 2001)

Quantification of anandamide content in animal cells and tissues: the normalization makes the difference  (full - 2002)  
[http://www.lipidworld.com/content/1/1/4](http://www.lipidworld.com/content/1/1/4)

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

Estrogen stimulates arachidonoylthanolamide release from human endothelial cells and platelet activation  (full – 2002)  
[http://bloodjournal.hematologylibrary.org/content/100/12/4040.full](http://bloodjournal.hematologylibrary.org/content/100/12/4040.full)

Targeting CB2 cannabinoid receptors as a novel therapy to treat malignant lymphoblastic disease  (full - 2002)  
[http://bloodjournal.hematologylibrary.org/cgi/content/full/100/2/627?ijkey=eb71d6d7a06f311440761cfac6a7d081bcc2771d](http://bloodjournal.hematologylibrary.org/cgi/content/full/100/2/627?ijkey=eb71d6d7a06f311440761cfac6a7d081bcc2771d)

A Peripheral Mechanism for CB1 Cannabinoid Receptor-Dependent Modulation of Feeding  (full - 2002)  
[http://www.jneurosci.org/cgi/content/abstract/22/21/9612?jikey=328b5e83d7be9297b9483d22e0d6319fa0a862e8&keytype2=tf_ipsecsha](http://www.jneurosci.org/cgi/content/abstract/22/21/9612?jikey=328b5e83d7be9297b9483d22e0d6319fa0a862e8&keytype2=tf_ipsecsha)

Experimental parkinsonism alters endocannabinoid degradation: implications for striatal glutamatergic transmission.  (full – 2002)  
[http://www.jneurosci.org/content/22/16/6900.long](http://www.jneurosci.org/content/22/16/6900.long)

Endogenous cannabinoids improve myocardial resistance to arrhythmogenic effects of coronary occlusion and reperfusion: a possible mechanism.  (abst - 2002)  

Anandamide and R-(+)-methanandamide prevent development of ischemic and reperfusion arrhythmia in rats by stimulation of CB2-receptors  (abst – 2002)  

Anandamide and noladin ether prevent neurotoxicity of the human amyloid-beta peptide.  (abst – 2002)  


Cannabinoid receptor type 1 modulates excitatory and inhibitory neurotransmission in mouse colon  (full – 2003) http://ajpgi.physiology.org/content/286/1/G110.full?sid=fc6948f0-78cf-405c-981b-aafa05ee417c

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

A new endothelial target for cannabinoids.  (full - 2003) http://molpharm.aspetjournals.org/content/63/3/469.long

The endogenous cannabinoid system affects energy balance via central orexigenic drive and peripheral lipogenesis  (full - 2003) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC166293/

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


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

Cannabinoids inhibit neurodegeneration in models of multiple sclerosis  (full - 2003) http://brain.oxfordjournals.org/cgi/content/full/126/10/2191?ijkey=c7c6bfa158b85c98cb1a190d5ca2614552989ba0


Anandamide Is Able to Inhibit Trigeminal Neurons Using an in Vivo Model of Trigeminovascular-Mediated Nociception (full - 2004) http://jpet.aspetjournals.org/content/309/1/56.full

The complexities of the cardiovascular actions of cannabinoids (full - 2004) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574918/?tool=pmcentrez

Up-Regulation of Cyclooxygenase-2 Expression Is Involved in R(-)-Methanandamide-Induced Apoptotic Death of Human Neuroglioma Cells (full - 2004) http://science.iowamedicalmarijuana.org/pdfs/cancer/Hinz%202004.pdf

Involvement of cannabinoid receptors in gut motility and visceral perception (full - 2004) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574910/?tool=pmcentrez

Plasma Levels of the Endocannabinoid Anandamide in Women—A Potential Role in Pregnancy Maintenance and Labor? (full - 2004) http://jcem.endojournals.org/cgi/content/full/89/11/5482?ijkey=5e8ee5690352ba9f6b990355b2ed69b1d2e58a5b

A Cyclooxygenase Metabolite of Anandamide Causes Inhibition of Interleukin-2 Secretion in Murine Splenocytes  (full – 2004)
http://jpet.aspetjournals.org/content/311/2/683.full

Anandamide is an endogenous inhibitor for the migration of tumor cells and T lymphocytes.  (abst - 2004)  http://www.ncbi.nlm.nih.gov/pubmed/16574988

How our brains fend off madness, we produce a cannabis like substance  (news – 2004)  http://www.medicalnewstoday.com/releases/12516.php

Cardiovascular Pharmacology of Cannabinoids  (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228270/?tool=pmcentrez

The cardiovascular actions of anandamide: more targets?  (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1576182/?tool=pmcentrez

Cannabinoids promote hippocampus neurogenesis and produce anxiolytic- and antidepressant-like effects  (full - 2005)  http://www.jci.org/cgi/content/full/115/11/3104

Antidepressant-like Activity and Modulation of Brain Monoaminergic Transmission by Blockade of Anandamide Hydrolysis.  (full – 2005)
http://www.pnas.org/content/102/51/18620.long

Blood pressure regulation by endocannabinoids and their receptors  (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225528/?tool=pmcentrez

The endogenous cannabinoid, anandamide, induces cell death in colorectal carcinoma cells: a possible role for cyclooxygenase 2  (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1774787/?tool=pmcentrez

The effects of Δ9-tetrahydrocannabinol in rat mesenteric vasculature, and its interactions with the endocannabinoid anandamide  (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1576168/?tool=pmcentrez

Anandamide reduces infarct size in rat isolated hearts subjected to ischaemia–reperfusion by a novel cannabinoid mechanism  (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751211/?tool=pmcentrez

Endocannabinoid activation at hepatic CB1 receptors stimulates fatty acid synthesis and contributes to diet-induced obesity  (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1087161/?tool=pmcentrez

Antidepressant-like activity by blockade of anandamide hydrolysis  (full - 2005)

Blood levels of the endocannabinoid anandamide are increased in anorexia nervosa and in binge-eating disorder, but not in bulimia nervosa.  (full – 2005)
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Anti-Cancer Effects In Active Component Of Marijuana       (news – 2009)
http://www.medicalnewstoday.com/releases/144770.php

Medical Marijuana and Brain Tumor, Malignant       (news – 2009)
https://www.marijuanadoctors.com/content/ailments/view/16?ailment=brain-tumor-malignant

Cannabidiol Enhances the Inhibitory Effects of Δ9-Tetrahydrocannabinol on Human Glioblastoma Cell Proliferation and Survival       (full - 2010)
http://www.letfreedomgrow.com/cmu/Brain_Cancer_Study.pdf

The expression level of CB1 and CB2 receptors determines their efficacy at inducing apoptosis in astrocytomas.       (full - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2806825/?tool=pubmed

Cannabinoid and cannabinoid-like receptors in microglia, astrocytes, and astrocytomas.       (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2919281/?tool=pubmed

Anti-tumoural effects of cannabinoid combinations - Patent TW201002315 (A) — 2010-01-16       (full – 2010)


Cannabis Rx: Cutting Through the Misinformation : Dr. Andrew Weil  (news - 2010)  http://www.huffingtonpost.com/andrew-weil-md/can-cannabis-treat-cancer_b_701005.html


Molecular Mechanisms Involved in the Antitumor Activity of Cannabinoids on Gliomas: Role for Oxidative Stress  (abst/ click for full PDF – 2011)  http://www.mdpi.com/2072-6694/2/2/1013/


**CANCER - HEAD AND NECK**


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

Cannabis use and cancer of the head and neck: Case-control study (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2277494/

A population-based case-control study of marijuana use and head and neck squamous cell carcinoma. (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2812803/?tool=pubmed


**CANCER - KAPOSI'S SARCOMA**


The CB1/CB2 receptor agonist WIN-55,212-2 reduces viability of human Kaposi’s sarcoma cells in vitro (full - 2009) http://science.iowamedicalmarijuana.org/pdfs/cancer/Luca%20et%20al%202009%2019539619.pdf

Recreational Drug Use and Risk of Kaposi’s Sarcoma in HIV- and HHV-8-Coinfected Homosexual Men (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2981355/?tool=pubmed

**CANCER – KIDNEY**
Cannabinoid CB1 Receptor Is Downregulated in Clear Cell Renal Cell Carcinoma (full - 2010)  http://jhc.sagepub.com/content/58/12/1129.long

CANCER - LEUKEMIA

Effects of cannabinoids on L1210 murine leukemia. 1. Inhibition of DNA synthesis.  (abst - 1977)  

Cannabinoids induce incomplete maturation of cultured human leukemia cells  (full - 1987)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC298868/?tool=pmcentrez&page=1

Fatal aspergillosis associated with smoking contaminated marijuana, in a marrow transplant recipient.  (full - 1988)  
http://chestjournal.chestpubs.org/content/94/2/432.long

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

Targeting CB2 cannabinoid receptors as a novel therapy to treat malignant lymphoblastic disease  (full - 2002)  
http://bloodjournal.hematologylibrary.org/cgi/reprint/100/2/627.pdf

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

Cannabis-induced cytotoxicity in leukemic cell lines: the role of the cannabinoid receptors and the MAPK pathway  (full - 2005)  
http://bloodjournal.hematologylibrary.org/cgi/content/full/105/3/1214

Marijuana's Active Ingredient Kills Leukemia Cells  (forum post/news - 2005)  

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

{Delta}9-Tetrahydrocannabinol-Induced Apoptosis in Jurkat Leukemia T Cells Is Regulated by Translocation of Bad to Mitochondria  (full - 2006)  
http://mcr.aacrjournals.org/content/4/8/549.full

Is there a temperature-dependent uptake of anandamide into cells?  (full – 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1629410/


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


Substance use and survival after treatment for chronic myelogenous leukemia (CML) or myelodysplastic syndrome (MDS). (full - 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2847847/?tool=pubmed

Cannabidiol induced a contrasting pro-apoptotic effect between freshly isolated and precultured human monocytes. (abst – 2011) http://www.unboundmedicine.com/medline/ebm/record/20471992/abstract/Cannabidiol_induced_a_contras ting_pro_apoptotic_effect_between_freshly_isolated_and_precultured_human_monocytes


CANCER – LIVER


Emerging role of cannabinoids in gastrointestinal and liver diseases: basic and clinical aspects (abst – 2008) http://gut.bmj.com/content/57/8/1140.abstract
Apoptosis induced in HepG2 cells by the synthetic cannabinoid WIN: involvement of the transcription factor PPARgamma. (abst – 2009)  

The synthetic cannabinoid WIN 55,212-2 sensitizes hepatocellular carcinoma cells to tumor necrosis factor-related apoptosis-inducing ligand (TRAIL)-induced apoptosis by activating p8/CCAAT/enhancer binding protein homologous protein (CHOP)/death receptor 5 (DR5) axis. (full – 2010)  
http://molpharm.aspetjournals.org/content/77/5/854.long

The effect of the activation of cannabinoid receptor on the proliferation and apoptosis of hepatoma HepG2 cells (abst – 2010)  

Membrane cholesterol mediates the endocannabinoids-anandamide affection on HepG2 cells (abst – 2010)  

Anti-tumoral action of cannabinoids on hepatocellular carcinoma: role of AMPK-dependent activation of autophagy. (abst – 2011)  

Cannabinoid receptor activation correlates with the pro-apoptotic action of the β2-adrenergic agonist, (R,R’)–4-methoxy-1-naphthylfenoterol, in HepG2 hepatocarcinoma cells. (full – 2012)  
http://jpet.aspetjournals.org/content/early/2012/07/09/jpet.112.195206.long

CANCER - LUNG

A pilot study of orally administered Δ1-trans-tetrahydrocannabinol in the management of patients undergoing radiotherapy for carcinoma of the bronchus (full - 1974)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1402430/?tool=pmcentrez&page=1

Anticancer activity of cannabinoids (full - 1975)  

Antineoplastic activity of cannabinoids (full - 1975)  
http://www.ukcia.org/research/AntineoplasticActivityOfCannabinoids/default.html

In vivo effects of cannabinoids on macromolecular biosynthesis in Lewis lung carcinomas. (abst - 1977)  

Anti-emetic efficacy and toxicity of nabilone, a synthetic cannabinoid, in lung cancer chemotherapy. (full - 1983)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2011510/?tool=pmcentrez&page=1
No increase in carcinogen-DNA adducts in the lungs of monkeys exposed chronically to marijuana smoke. (abst – 1992)  

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

So, you thought it was the tar that caused cancer... (news – 1999)  
http://www.ukcia.org/research/cancer2.php

Marijuana Unlikely to Cause Head, Neck, or Lung Cancer  (news - 2000)  

Anti-Tumor Effects  (news - 2001)  
http://www.ukcia.org/research/AntiTumorEffects.htm

Cannabis and tobacco smoke are not equally carcinogenic. (full- 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1277837/?tool=pubmed

Smoking Cannabis Does Not Cause Cancer of Lung or Upper Airways  (news - 2005)  
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Cannabis Smoke Is Less Likely To Cause Cancer Than Tobacco Smoke  (news - 2005)  
http://www.sciencedaily.com/releases/2005/10/051019003339.htm

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

Marijuana Use and Lung Cancer: Results of a Case-Control Study  (abst - 2006)  
http://www.ukcia.org/research/MjUseAndLungCancer.php

Study Finds No Link Between Marijuana Use And Lung Cancer  (news - 2006)  
http://www.sciencedaily.com/releases/2006/05/060526083353.htm

Study Finds No Cancer-Marijuana Connection  (news – 2006)  
http://www.washingtonpost.com/wp-dyn/content/article/2006/05/25/AR2006052501729_pf.html

No association between lung cancer and cannabis smoking in large study  (news - 2006)  

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

Pot Smoking Not Linked to Lung Cancer  (news - 2006)  
http://www.entheology.org/edoto/anmviewer.asp?a=246

Large Study Finds No Link between Marijuana and Lung Cancer  (news - 2006)  
http://www.scientificamerican.com/article.cfm?id=large-study-finds-no-link

There Seems to Be No Link between Marijuana Use and Lung Cancer  (news – 2006)


Pot's Active Ingredient Halts Lung Cancer Growth, Study Says (news - 2007) http://www.illinoisnorml.org/content/view/529/27/


Inhibition of Cancer Cell Invasion by Cannabinoids via Increased Expression of Tissue Inhibitor of Matrix Metalloproteinases-1 (full - 2008) http://jnci.oxfordjournals.org/cgi/content/full/100/1/59

Doubts about the role of cannabis in causing lung cancer. (letter - 2008) http://erj.ersjournals.com/cgi/content/full/32/3/815


Effects of smoking cannabis on lung function  (full - 2011)  
http://www.expert-reviews.com/doi/full/10.1586/ers.11.40

Cannabinoid receptors, CB1 and CB2, as novel targets for inhibition of non-small cell lung cancer growth and metastasis  (full - 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3025486/?tool=pubmed


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**CANCER - LYMPHOMA**

UCSF Researchers Report New Risk Factors For Non-Hodgkin’s Lymphoma  

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

Targeting CB2 cannabinoid receptors as a novel therapy to treat malignant lymphoblastic disease  (full - 2002)  http://bloodjournal.hematologylibrary.org/cgi/content/full/100/2/627


The Peripheral Cannabinoid Receptor CB2 and CD40 Are Novel Biological Markers That Predict Outcome in Diffuse Large B-Cell Lymphoma of Elderly Patients.  
(abst - 2004)  http://abstracts.hematologylibrary.org/cgi/content/abstract/104/11/3256?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourcetype=HWCIT


Cannabinoid Receptor-Mediated Apoptosis Induced by R(+)–Methanandamide and Win55,212-2 Is Associated with Ceramide Accumulation and p38 Activation in Mantle Cell Lymphoma  (full - 2006)  http://molpharm.aspetjournals.org/content/70/5/1612.full


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

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


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

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


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?maxtosh ow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourcetype=HWCIT


**CANCER - NEUROBLASTOMA**


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


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


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

Cannabinoids attenuate cancer pain and proliferation in a mouse model. (full - 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3099480/?tool=pubmed


**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


**CANCER - PANCREATIC**

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

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


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

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


183
Gemcitabine/cannabinoid combination triggers autophagy in pancreatic cancer cells through a ROS-mediated mechanism. (full – 2011)

**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**


**CANCER - PROSTATE**

Delta9-tetrahydrocannabinol induces apoptosis in human prostate PC-3 cells via a receptor-independent mechanism. (abst -1999)

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


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=951f5f9d238bdf059cf30ee2be3a5a31aa/f2b094


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


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?maxtosh ow=&htls=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=720&resourcetype=HWCIT


Active Chemicals in Cannabis Inhibits Prostate Cancer Cell Growth  (news - 2009)
Cannabis is linked to a 'cancer cure'. (news – 2009)
http://www.thefreelibrary.com/Cannabis+is+linked+to+a+cure+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)

Active cannabis chemicals halt prostate cancer cell growth (news - 2009)

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

Medical Marijuana and Cancer, Prostate (news – 2009)
https://www.marijuanadoctors.com/content/ailments/view/55?ailment=cancer-prostate

Cannabinoid receptor-dependent and -independent anti-proliferative effects of omega-3 ethanolamides in androgen receptor-positive and -negative prostate cancer cell lines. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2930808/?tool=pubmed


Omega-3 N-acyl ethanolamines 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


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


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

**CANCER - RHABDOMYOSARCOMA**

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

**CANCER - RISK CANNABIS VS TOBACCO**

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

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


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

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

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=MpUgjDbqHybAU

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)

Cannabis Science Provides Physician’s Documentation That Confirms Successful Treatment of Skin Cancer (news/ info-mercial – 2011)

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)  

Concomitant consumption of marijuana, alcohol and tobacco in oral squamous cell carcinoma development and progression: Recent advances and challenges.  

Cannabis Oil Shrinks “One Of The Worst” Cancers  
(warning: graphic photos)  

**CANCER - TESTICULAR**

Chemotherapy for Testicular Cancer  
(anecdotal - undated)  
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

**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-thymoma
**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 metastasis (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  
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.  
http://www.unboundmedicine.com/medline/ebn/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  

**CANCER - VARIOUS/ UNNAMED**

Unpublished Federal Study Found THC-Treated Rats Lived Longer, Had Less Cancer  
(news - undated)  

Analgesic effect of delta-9-tetrahydrocannabinol.  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=16

The analgesic properties of delta-9-tetrahydrocannabinol and codeine.  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=17

Delta-9-Tetrahydrocannabinol as an Antiemetic in Cancer Patients Receiving High-Dose Methotrexate  
http://www.ukcia.org/research/AntiemeticForMethotrexate.php
Delta-9-tetrahydrocannabinol as an antiemetic for patients receiving cancer chemotherapy. A comparison with prochlorperazine and a placebo.  (abst - 1979)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=5

Delta-9-tetrahydrocannabinol (THC) as an antiemetic in patients treated with cancer chemotherapy; a double-blind cross-over trial against placebo  (abst - 1979)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=27

Amelioration of cancer chemotherapy-induced nausea and vomiting by delta-9--tetrahydrocannabinol.  (abst - 1979)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=107

Superiority of nabilone over prochlorperazine as an antiemetic in patients receiving cancer chemotherapy.  (abst - 1979)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=126

The antiemetic activity of tetrahydrocanabinol versus metoclopramide and thiethylperazine in patients undergoing cancer chemotherapy.  (abst - 1980)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=24

A multi-institutional Phase III study of nabilone vs. placebo in chemotherapy-induced nausea and vomiting.  (abst - 1982)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=156

Prospective randomized double-blind trial of nabilone versus domperidone in the treatment of cytotoxic-induced emesis  (abst - 1986)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=129

Efficacy of tetrahydrocannabinol in patients refractory to standard anti-emetic therapy  (abst - 1988)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=31

Dronabinol enhancement of appetite in cancer patients.  (abst - 1990)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=149

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Cannabinor, a selective cannabinoid-2 receptor agonist, improves bladder emptying in rats with partial urethral obstruction.  (abst – 2011)
http://www.unboundmedicine.com/medline/ebm/record/21168864/abstract/Cannabinor_a_selective_cannabinoid_2_receptor_agonist_improves_bladder_emptying_in_rats_with_partial_urethral_obstruction
**CANNADOR** - a phytocannabinoid extract in pill form

A multicenter dose-escalation study of the analgesic and adverse effects of an oral cannabis extract (Cannador) for postoperative pain management.  (full - 2006)  


**CARDIOVASCULAR** - see HEART DISEASE

**CARPAL TUNNEL SYNDROME**

Medical Marijuana and Carpal Tunnel Syndrome  (news – 2009)  [https://www.marijuanadoctors.com/content/ailments/view/104?ailment=carpal-tunnel-syndrome](https://www.marijuanadoctors.com/content/ailments/view/104?ailment=carpal-tunnel-syndrome)


**CBR - CB1 CANNABINOID RECEPTOR** - activated by THC, Anandamide, synthetics

Cannabinoid Receptor Ligands (full - undated)  
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Novel antagonist implicates the CB1 cannabinoid receptor in the hypotensive action of anandamide. (abst – 1995)  

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Evidence for the presence of cannabinoid CB1 receptors in mouse urinary bladder (abst – 1996)  
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Cannabinoid-Induced Hypotension and Bradycardia in Rats Is Mediated by CB1-Like Cannabinoid Receptors (full – 1997)  
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[http://www.jneurosci.org/content/18/1/451.long](http://www.jneurosci.org/content/18/1/451.long)

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Increased Mortality, Hypoactivity, and Hypoalgesia in Cannabinoid Cb1 Receptor Knockout Mice. (full – 1999)  
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Cannabis and cannabinoids: pharmacology and rationale for clinical use (abst – 1999)  
[http://pharmgkb.org/pmid/10575283](http://pharmgkb.org/pmid/10575283)

Expression of the cannabinoid receptor CB1 in distinct neuronal subpopulations in the adult mouse forebrain. (abst - 1999)  

Thujone exhibits low affinity for cannabinoid receptors but fails to evoke cannabimimetic responses. (abst – 1999)  
Endocannabinoids and Vascular Function  (full - 2000)  
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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

Modulation of peristalsis by cannabinoid CB1 ligands in the isolated guinea-pig ileum  (full - 2000)   

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

http://www.springerlink.com/content/w3jc8rk16k9p92fl/

Inhibition of small intestinal secretion by cannabinoids is CB1 receptor-mediated in rats  (abst – 2000)   

Sex steroid influence on cannabinoid CB(1) receptor mRNA and endocannabinoid levels in the anterior pituitary gland.  (abst – 2000)   

Association study of a cannabinoid receptor gene (CNR1) polymorphism and schizophrenia  (abst – 2000)  
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Are Cannabinoid Receptor Knockout Mice Animal Models for Schizophrenia?  
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Supersensitivity to anandamide and enhanced endogenous cannabinoid signaling in mice lacking fatty acid amide hydrolase  (full - 2001)
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Cannabinoid receptor 2 agonists inhibit migration of activated dendritic cells via modulation of MMP-9 (abst – 2012) http://www.jimmunol.org/cgi/content/meeting_abstract/188/1_MeetingAbstracts/173.23?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT


Sex Differences in Cannabinoid 1 vs. Cannabinoid 2 Receptor-Selective Antagonism of Antinociception Produced by Δ9-Tetrahydrocannabinol and CP55,940 in the Rat (abst – 2012) http://jpet.aspetjournals.org/content/340/3/787.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5


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

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

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

Pharmacological regulation of insulin secretion in MIN6 cells through the fatty acid receptor GPR40: identification of agonist and antagonist small molecules. (full - 2006)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751878/?tool=pubmed

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

Selective small-molecule agonists of G protein-coupled receptor 40 promote glucose-dependent insulin secretion and reduce blood glucose in mice. (full – 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2494688/?tool=pubmed

Overexpression of GPR40 in pancreatic beta-cells augments glucose-stimulated insulin secretion and improves glucose tolerance in normal and diabetic mice. (full – 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2671040/?tool=pubmed


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

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

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

TAK-875 versus placebo or glimepiride in type 2 diabetes mellitus: a phase 2, randomised, double-blind, placebo-controlled trial. (abst – 2012)  

**CBR - GPR55/ CB3 CANNABINOID RECEPTOR**  
Activated by l-α-lyso phosphatidylinositol (LPI), and to a lesser extent possibly by THC, CBD, O-1602, PEA, 2-AG, Anandamide, Virodhamine

Cannabinoid Receptor Ligands  (full - undated)  
http://www.tocris.com/pdfs/cannabinoid_receptor_review/page_001.html


http://medical-journals.healia.com/doc/16434153/Evolutionary-origins-of-the-endocannabinoid-system

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

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

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

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

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

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

Novel cannabinoid receptors  (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190013/?tool=pmcentrez
GPR55: signaling pathways and functions  (abst - 2007) (needs registration)
http://www.biomedcentral.com/1471-2210/9/S2/A3

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

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

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

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

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

The GPR55 ligand L-alpha-lysophosphatidylinositol promotes RhoA-dependent Ca2+ signaling and NFAT activation.  (full – 2009)
http://www.fasebj.org/content/23/1/183.long

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

Is GPR55 an anandamide receptor?  (abst - 2009)

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

The enigmatic pharmacology of GPR55.  (abst - 2009)

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

Pharmacological characterization of GPR55, a putative cannabinoid receptor.  (abst – 2010)
http://www.unboundmedicine.com/medline/ebm/record/20298715/abstract/Pharmacological_characterization_of_GPR55_a_putative_cannabinoid_receptor

The atypical cannabinoid O-1602 protects against experimental colitis and inhibits neutrophil recruitment.  (abst – 2010)

GPR55: Current Knowledge and Future Perspectives of a Purported "Type-3" Cannabinoid Receptor.  (abst - 2010)
Cannabinoids and the gut: new developments and emerging concepts  

A role for L-alpha-lysophosphatidylinositol and GPR55 in the modulation of migration, orientation and polarization of human breast cancer cells.  

Cannabinoids and Bone: Friend or Foe?  

Endocannabinoid-like N-arachidonoyl serine is a novel pro-angiogenic mediator.  
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Screening for Selective Ligands for GPR55.  
(full – 2011)  
http://www.ncbi.nlm.nih.gov/books/NBK66153/

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

Pharmacology of GPR55 in Yeast and Identification of GSK494581A as a Mixed-Activity Glycine Transporter Subtype 1 Inhibitor and GPR55 Agonist  
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What is the natural ligand of GPR55?  
(abst – 2011)  
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Pharmacology, Signaling and Physiological Relevance of the G Protein-coupled Receptor 55.  
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The novel cannabinoid receptor GPR55, inhibits cholangiocarcinoma growth (abst – 2011)  
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The L-α-lysophosphatidylinositol/GPR55 system and its potential role in human obesity. (full – 2012)  http://diabetes.diabetesjournals.org/content/61/2/281.long


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


**CBR - GPR109 CANNABINOID RECEPTOR**


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


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


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GPR119 is essential for oleoylethanolamide-induced glucagon-like peptide-1 secretion from the intestinal enteroendocrine L-cell.  (full – 2009)  
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AS1907417, a novel GPR119 agonist, as an insulinotropic and β-cell preservative agent for the treatment of type 2 diabetes.  (abst – 2010)  

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

The cytoprotective effects of oleoylethanolamide in insulin-secreting cells do not require activation of GPR119.  (abst – 2011)  

GPR119 as a fat sensor.  (abst – 2012)  

The cytoprotective effects of oleoylethanolamide in insulin-secreting cells do not require activation of GPR119.  (full - 2012)  

Stimulating beta cell replication and improving islet graft function by GPR119 agonists.  (abst – 2012)  

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Overactivity of the intestinal endocannabinoid system in celiac disease and in methotrexate-treated rats.  (abst – 2007)  
Hemp: A replacement for common food allergens? (news - 2009)  

Celiac Disease and Medical Marijuana (news – 2009)  
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Abnormal anandamide metabolism in celiac disease. (abst – 2011)  

The Cannabinoid Receptor type 2 Q63R variant increases the risk of celiac disease: Implication for a novel molecular biomarker and future therapeutic intervention. (abst – 2012)  

**CEREBRAL PALSY**

Treatment of human spasticity with delta 9-tetrahydrocannabinol. (abst – 1981)  

Endocannabinoids potently protect the newborn brain against AMPA-kainate receptor-mediated excitotoxic damage. (full – 2006)  
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Cerebral Palsy Victim Sues City Over Medical Marijuana (news/anecdotal – 2011)  

Medical marijuana from the patient's perspective (news/anecdotal – 2011)  

Alternative Drug Therapy Approach Alleviates Cerebral Palsy Symptoms and Muscle Spasticity (news – 2011)  

**CESAMET** - see NABILONE
CHEMICAL COMPOSITION

Compounds found in Cannabis Sativa (list- undated)
http://www.ukcia.org/research/cannabis-compounds.htm

Hemp (full – undated)
hemp crop data.pdf

The active principles of Cannabis indica resin. I. (full - 1938)

The Active Principles of Cannabis and the Pharmacology of the Cannabinols (full - 1940) http://www.ukcia.org/research/TherapeuticPotentialMedicalUses.php

Effects of Fertilizers on Yields and Breaking Strengths of American Hemp, Cannabis Sativa (full – 1946)
EFFECTS OF FERTILIZERS ON YIELDS AND BREAKING STRENGTHS OF AMERICAN HEMP, CANNABIS S. TIVA .PDF

HEMP AS A MEDICAMENT: Properties of isolated substances (full - 1955)

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Isolation, Structure, and Partial Synthesis of an Active Constituent of Hashish (1st page - 1964) http://pubs.acs.org/doi/abs/10.1021/ja01062a046

Recent Developments in Cannabis Chemistry (full - 1972)

A SIMPLE METHOD FOR DEMONSTRATING TETRAHYDROCANNABINOLS IN FRESH OR FIXED FROZEN SECTIONS (full – 1972)
http://jhc.sagepub.com/content/20/10/827.full.pdf+html

Water-soluble derivatives of 1-tetrahydrocannabinol. (abst - 1972)

The chemistry and biological activity of cannabis (news - 1972)

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Constituents of Cannabis sativa L. VIII: Possible biological application of a new method to separate cannabidiol and cannabichromene. (abst - 1975)  

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Cannabinoid patterns in seedlings of Cannabis sativa L. and their use in the determination of chemical race. (abst – 1977)  

Chemical composition of Brazilian marihuana samples and the importance of several constituents to the pharmacological activity of the plant (abst – 1977)  

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Influence of photoperiodism on cannabinoid content of Cannabis sativa L. (abst – 1978)  

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Oral vs. Inhaled Cannabinoids for Nausea/Vomiting from Cancer Chemotherapy (full - 1988)


The Volatile Oil Composition of Fresh and Air-Dried Buds of Cannabis sativa (full – 1996)  

Effect of nitrogen on tetrahydrocannabinol (THC) content in hemp (Cannabis sativa L.) leaves at different positions  (full – 1997)  
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Essential Oil of Cannabis sativa L. Strains  (full – 1997)  
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Advantages of polypharmaceutical herbal cannabis compared to single ingredient, synthetic tetrahydrocannabinol  (full - 2000)  
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Cannabis and Cannabis Extracts: Greater Than the Sum of Their Parts? (full - 2001)

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

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Tetrahydrocannabinolic acid synthase, the enzyme controlling marijuana psychoactivity, is secreted into the storage cavity of the glandular trichomes. (abst – 2005)  

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DNA poly morphisms in the tetrahydrocannabinolic acid (THCA) synthase gene in "drug-type" and "fiber-type" Cannabis sativa L. (abst – 2006)  


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Characterization of Medicinal Properties of Cannabis sativa L. Roots (full - 2008)  
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How Accurate is Potency Testing?   (full – 2011)  
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Influence of agroclimatic conditions on content of main cannabinoids in industrial hemp (Cannabis sativa L.)   (link to PDF– 2011)  
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Proteomic profiling of hempseed proteins from Cheungsam.  (abst - 2012)

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 Reefer tokin’ seniors in South Florida see pain go up in smoke  
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**CHILDREN/ YOUNG ADULTS**

Hemp Packs in Powerful Source of Preconception Nutrition  
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Survey of adolescent drug use. I. Sex and grade distribution.  
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Nabilone versus prochlorperazine for control of cancer chemotherapy-induced emesis in children  
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Analysis of Facial Shape in Children Gestationally Exposed to Marijuana, Alcohol, and/or Cocaine (abst - 1992)
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Prenatal exposure to marihuana and tobacco during infancy, early and middle childhood: effects and an attempt at synthesis. (abst – 1995)

Prenatal tobacco and marijuana use among adolescents: effects on offspring gestational age, growth, and morphology. (abst – 1995)

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Cannabis dependence, withdrawal, and reinforcing effects among adolescents with conduct symptoms and substance use disorders (abst – 1997)

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http://www.cannabisculture.com/v2/articles/1404.html

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Ganja mothers, ganja babies  (news - 1999)  
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Marijuana and ADD- Therapeutic uses of Medical Marijuana in the treatment of ADD  

Cannabis use falls among Dutch youth  (abst - 2000) 
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Hemp Supplement Boosts Body AND Mind  (anecdotal/news - 2001)  

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Effect of maternal under-nutrition on pup body weight and hypothalamic endocannabinoid levels.  (abst – 2003)  

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Moderate cannabis use not harmful to the brain of adolescents, MRI study finds (news - 2006)

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Cannabis use and destructive periodontal diseases among adolescents  (abst - 2009)  
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The use and misuse of alcohol and marijuana can be traced to a common set of genes  
(news – 2009)  

Prescribing marijuana to kids  (news – 2009)  
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Early exposure to Environmental enrichment alters the expression of genes of the endocannabinoid system  (abst – 2011)  
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Father: Medical marijuana eased pain of my cancer-battling son  (anecdotal – 2011)

The Kids Are All Right, Even if Their Parents Grow Pot  (news – 2011)


Cocaine, Opiate, and Cannabinoid Infant Mortality Study  (news – 2011)

'Fake Marijuana' May Trigger Heart Trouble in Teens  (news – 2011)
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Why I Give My Autistic Son Pot, Part 4  (news – 2011)
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Does pot possession equal child neglect?  (news – 2011)

What Are the Benefits of Hemp Seeds for Toddlers?  (news – 2011)

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Researchers study neuroprotective properties in cannabis (news -2012)
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CHOLERA


Marijuana for cholera therapy (letter – 2005)
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How marijuana could help cure obesity-related diseases  (news – 2012)  

CHRONIC FATIGUE SYNDROME/ MYALGIC ENCEPHALOMYELITIS

Myalgic Encephalomyelitis by Anonymous  (anecdotal – undated)  
http://www.rxmarijuana.com/shared_comments/Myalgic_Encephalomyelitis.htm

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

Medical marijuana shows promise for pain  (news – 2012)  
COGNATIVE EFFECTS- see IQ

COLITIS

Ulcerative Colitis and Marijuana (letter - 1990)  
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Cannabidiol Reduces Intestinal Inflammation through the Control of Neuroimmune Axis (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3232190/?tool=pubmed

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**COPD/ CHRONIC OBSTRUCTIVE PULMONARY DISEASE**


Researchers to test if cannabis ingredient can help COPD patients (news - 2005) http://www.thehempire.com/index.php/cannabis/news/researchers_to_test_if_cannabis_ingredient_can_help_copd_patients


No Decrease in Pulmonary Function Associated with Long-Term Cannabis Smoking, Study Says (news - 2007) http://www.illinoisnorml.org/content/view/366/27/

Marijuana and chronic obstructive lung disease: a population-based study (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2665947/?tool=pmcentrez


Effects of cannabis on lung function: a population-based cohort study. (full - 2010) http://erj.ersjournals.com/content/35/1/42.long

Effects of smoking cannabis on lung function (full – 2011) http://www.expert-reviews.com/doi/full/10.1586/ers.11.40

Cannabinoid effects on ventilation and breathlessness: A pilot study of efficacy and safety (abst – 2011) http://crd.sagepub.com/content/early/2011/01/23/1479972310391283.abstract


COUGH

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

Patent 6974568 - Treatment for cough (full - 2005)
http://www.patentstorm.us/patents/6974568/fulltext.html

Effect of N-arachidonoyl-(2-methyl-4-hydroxyphenyl) amine (VDM11), an anandamide transporter inhibitor, on capsaicin-induced cough in mice (full - 2006)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1448189/?tool=pmcentrez

Novel treatment for cough (full - 2006)

Cannabis Cough Cure (news - 2006)


G-protein coupled receptors regulating cough. (abst – 2011)

Inhibition Of Fatty Acid Amide Hydrolase Produces Anti-Tussive Effects In Guinea-Pigs: Evidence For Elevated Fatty Acid Amides Acting Via Cannabinoid Receptors On Airway Sensory Nerves (abst – 2012)
http://ajrccm.atsjournals.org/cgi/reprint/185/1_MeetingAbstracts/A2149?maxtoshow=&hits=25&RESULT_FORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCI

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"Recreational" drug abuse associated with failure to mount a proper antibody response after a generalised orthopoxvirus infection. (abst – 2011)
**CP 47,497** - a synthetic cannabinoid, CB1 & CB2 agonist

Cannabimimetic activity from CP-47,497, a derivative of 3-phenylcyclohexanol (abst - 1982)  
http://jpet.aspetjournals.org/content/223/2/516.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=Hexahydrocannabinol&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

The Conformational Properties of the Highly Selective Cannabinoid Receptor Ligand CP-55,940 (full - 1996)  
http://www.jbc.org/content/271/18/10640.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=Hexahydrocannabinol&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

Cannabinoids augment the release of neuropeptide Y in the rat hypothalamus (abst – 2005)  

Withdrawal Phenomena and Dependence Syndrome After the Consumption of "Spice Gold" (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2719097/?tool=pmcentrez

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


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http://www.unboundmedicine.com/medline/ebm(record/20681249/abstract/5BPharmacological_properties_and_dependence_liabilities_of_synthetic_cannabinoids%5D

Monitoring of herbal mixtures potentially containing synthetic cannabinoids as psychoactive compounds. (abst – 2010)  

THIS ISN'T YOUR MOTHER'S SPICE (news - 2010)  
http://www.mapinc.org/drugnews/v10/n497/a07.html?1173

Now, There's a Test for That -- Norchem's "Fake Marijuana" Test Reveals Significantly Increased Abuse of Spice/K2 (news - 2010)  

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

Marijuana-based Drugs: Innovative Therapeutics or Designer Drugs of Abuse? (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3139381/?tool=pubmed
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)  
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CP47,497-C8 and JWH073, commonly found in 'Spice' herbal blends, are potent and efficacious CB(1) cannabinoid receptor agonists. (abst – 2011)  


Synthetic cannabinoids in oral fluid. (abst – 2011)  

Cytotoxicity of synthetic cannabinoids found in "Spice" products: The role of cannabinoid receptors and the caspase cascade in the NG 108-15 cell line. (abst – 2011)  
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Use of high-resolution accurate mass spectrometry to detect reported and previously unreported cannabinomimetics in "herbal high" products. (abst – 2011)  

Effects of synthetic cannabinoids on electroencephalogram power spectra in rats. (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21640532/abstract/Effects_of_synthetic_cannabinoids_on_electroencephalogram_power_spectra_in_rats

The emergence and analysis of synthetic cannabinoids. (abst – 2011)  

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


The spice in France: mixed herbs containing synthetic cannabinoids. (abst – 2012)  
**CP 50,556-1 / LEVONANTRADOL** synthetic, CB1 & CB2 agonist

Clinical experience with levonantradol hydrochloride in the prevention of cancer chemotherapy-induced nausea and vomiting.  (abst – 1981)

Randomised Clinical Trial of Levonantradol and Chlorpromazine in the Prevention of Radiotherapy-induced Vomiting.  (abst - 1982)

Levonantradol, a new antiemetic with a high rate of side-effects for the prevention of nausea and vomiting in patients receiving cancer chemotherapy.  (abst – 1982)

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

Levonantradol: a synthetic cannabinoid in the treatment of severe chemotherapy-induced nausea and vomiting resistant to conventional anti-emetic therapy.  (abst – 1983)

Antiemetic efficacy of levonantradol compared to delta-9-tetrahydrocannabinol for chemotherapy-induced nausea and vomiting.  (abst – 1985)


Delta(9)-tetrahydrocannabinol and synthetic cannabinoids prevent emesis produced by the cannabinoid CB(1) receptor antagonist/inverse agonist SR 141716A.  (full – 2001)
http://www.nature.com/npp/journal/v24/n2/full/1395605a.html

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**CP 55,940** - a synthetic cannabinoid-CB1, CB2 & GPR-55 agonist

Molecular cloning of a human cannabinoid receptor which is also expressed in testis  (abst – 1991)  http://pharmgkb.org/pmid/1718258
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

Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabinimimetic 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


Involvement of Dynorphin B in the Antinociceptive Effects of the Cannabinoid CP55,940 in the Spinal Cord (full - 1997) http://jpet.aspetjournals.org/content/281/2/730.full

Cannabinoid Receptor Agonists Protect Cultured Rat Hippocampal Neurons from Excitotoxicity (full - 1998) http://molpharm.aspetjournals.org/content/54/3/459.full

Potent Effects of a Selective Cannabinoid Receptor Agonist on Some Guinea Pig Medial Vestibular Nucleus Neurons. (abst – 1998)


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

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


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

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
Inhibition of guinea-pig and human sensory nerve activity and the cough reflex in guinea-pigs by cannabinoid (CB2) receptor activation.   (full - 2003)  
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CANNABINOIDS ALTER RECOGNITION MEMORY IN RATS   (full – 2003)  

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


Effects of repeated administration with CP-55,940, a cannabinoid CB1 receptor agonist on the metabolism of the hepatic heme.   (abst – 2005)  

Endocannabinoids -- The Brain's Cannabis -- Demonstrate Novel Modes Of Action To Stress   (news - 2005)  

Chronologically overlapping occurrences of nicotine-induced anxiety- and depression-related behavioral symptoms: effects of anxiolytic and cannabinoid drugs   (full - 2007)  
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Control of spasticity in a multiple sclerosis model is mediated by CB1, not CB2, cannabinoid receptors.   (full - 2007)  
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The orphan receptor GPR55 is a novel cannabinoid receptor.   (full – 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2095107/?tool=pubmed

Spinal cannabinoid receptor type 2 activation reduces hypersensitivity and spinal cord glial activation after paw incision.   (full - 2007)  

Virodhamine and CP55,940 modulate cAMP production and IL-8 release in human bronchial epithelial cells.   (full – 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2042924/?tool=pubmed

CB2 receptors in the brain: role in central immune function   (full - 2007)  
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Cannabinoids enhance gastric X/A-like cells activity.   (full – 2008)  
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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

Cannabinoids Inhibit HIV-1 Gp120-Mediated Insults in Brain Microvascular Endothelial Cells  (full - 2008)
http://www.jimmunol.org/cgi/content/full/181/9/6406?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT


Attenuation of morphine antinociceptive tolerance by a CB(1) receptor agonist and an NMDA receptor antagonist: Interactive effects.  (full – 2010)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2813317/?tool=pubmed

Cannabinoid inhibition of macrophage migration to the trans-activating (Tat) protein of HIV-1 is linked to the CB(2) cannabinoid receptor.  (full – 2010)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2846023/?tool=pubmed


Sex Differences in Cannabinoid 1 vs. Cannabinoid 2 Receptor-Selective Antagonism of Antinociception Produced by Δ9-Tetrahydrocannabinol and CP55,940 in the Rat (abst – 2011)  http://jpet.aspetjournals.org/content/340/3/787.abstract?sid=2ef42c80-59ad-4b4e-8eed-d5b9d556b866

Chronic Δ⁹-tetrahydrocannabinol treatment in rhesus monkeys: differential tolerance and cross-tolerance among cannabinoids. (abst – 2011)  
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The schizophrenia susceptibility gene neuregulin 1 modulates tolerance to the effects of cannabinoids. (abst – 2011)  
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Allosteric modulator ORG27569 induces a CB1 Cannabinoid receptor high affinity agonist binding state, receptor internalization and Gi-independent ERK1/2 activation. (full – 2012)  
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Effects of CP 55,940--agonist of CB1 cannabinoid receptors on ghrelin and somatostatin producing cells in the rat pancreas. (full – 2012)  
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Cannabinoid Receptor Activity In The Tumour Necrosis Factor (tnf)–α-Induced Increased Contractility Of The Guinea-Pig Isolated Trachea (abst – 2012)  
http://ajrccm.atsjournals.org/cgi/reprint/185/1_MeetingAbstracts/A2154.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5

Activation of cannabinoid receptors prevents antigen-induced asthma-like reaction in guinea pigs. (abst – 2008)  

Contrasting effects of different cannabinoid receptor ligands on mouse ingestive behavior (abst – 2012)  
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Sex Differences in Cannabinoid 1 vs. Cannabinoid 2 Receptor-Selective Antagonism of Antinociception Produced by Δ9-Tetrahydrocannabinol and CP55,940 in the Rat (abst – 2012)  
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CRA – 13  synthetic, CB1 & CB2 agonist

Naphthalen-1-yl-(4-pentyloxynaphthalen-1-yl)methanone: a potent, orally bioavailable human CB1/CB2 dual agonist with antihyperalgesic properties and restricted central nervous system penetration. (abst – 2007)

Cannabinoid Receptor Agonist 13, a Novel Cannabinoid Agonist: First in Human Pharmacokinetics and Safety (full – 2009)
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Intestinal lymphatic transport enhances the post-prandial oral bioavailability of a novel cannabinoid receptor agonist via avoidance of first-pass metabolism. (abst – 2009)

CROHN’S DISEASE

Marijuana and Crohn’s Disease  (anecdotal - 1997)
http://www.rxmarihuana.com/chrohns3.htm

Crohn's Patients Report Symptomatic Relief From Cannabis  (news - 2005)

Cannabis Helps Ulcers And Crohn's Disease  (news - 2006)

Medical Marijuana and Crohn's Disease  (news – 2009)
https://www.marijuanadoctors.com/content/ailments/view/7?ailment=crohn-s-disease

Cannabis for Ulcerative Colitis and Crohn's Disease treatment  (news - 2009)

The Cannabinoid 1 Receptor (CNR1) 1359 G/A Polymorphism Modulates Susceptibility to Ulcerative Colitis and the Phenotype in Crohn's Disease  (full - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2829088/?tool=pmcentrez

Treatment of Crohn's disease with cannabis: an observational study.  (full – 2011)

Science: Treatment of Crohn's disease with cannabis: an observational study  (news – 2011)
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=357#1

The Gastrointestinal Pharmacology of Cannabinoids: Focus on Motility.  (full – 2012)
Genetic Epidemiology and Pharmacogenetics in Irritable Bowel Syndrome. (abst -2012)  

http://ajpgi.physiology.org/content/302/10/G1075.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=105&sortspec=date&resourcetype=HWCIT

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CT-3 - synthetic –also see AJULMIC ACID

Analgesic effect of the synthetic cannabinoid CT-3 on chronic neuropathic pain: a randomized controlled trial. (full - 2003)  
http://jama.ama-assn.org/cgi/content/full/290/13/1757?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT


CYSTIC FIBROSIS

I have Cystic fibrosis (anecdotal - undated)  
http://www.masscann.org/consumption/73-medicine/314-i-have-cystic-fibrosis

Recreational use of psychoactive drugs by patients with cystic fibrosis. (abst – 1987)  

Cannabinoids and cystic fibrosis: a novel approach to etiology and therapy. (full - 2002)  

The endocannabinoid-CB receptor system: Importance for development and in pediatric disease. (abst - 2004)  

Peripheral, but not central effects of cannabidiol derivatives: mediation by CB(1) and unidentified receptors. (abst – 2005)  

Vaporized marijuana effect on CF. NOT smoking (forum post - 2007)  
http://www.topix.com/forum/health/cystic-fibrosis/TBQ56B1VNGGAODTKA
Marijuana (Cannabis) and Cystic Fibrosis; A Case Study  (case study/ad- 2009)

Medical Marijuana and Cystic Fibrosis  (news – 2009)

"Bong lung" in cystic fibrosis: a case report  (full - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2998526/?tool=pmcentrez

**CYSTITIS**

Cannabinoid rotation in a young woman with chronic cystitis  (abst - 2003)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=115


**DENTISTRY**  - see TEETH

**DEPRESSION**


Anxiety with Depression Research Review  (full - 2000)  http://www.ukcia.org/research/AnxietyWithDepressionResearchReview.pdf

Association between cannabis use and depression may not be causal, study says  
(news - 2004)  
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=177#4

Cannabinoids promote hippocampus neurogenesis and produce anxiolytic- and antidepressant-like effects  
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Antidepressant-like activity by blockade of anandamide hydrolysis  
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Depression in Parkinson's disease is related to a genetic polymorphism of the cannabinoid receptor gene (CNR1)  
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Antidepressant-like Activity and Modulation of Brain Monoaminergic Transmission by Blockade of Anandamide Hydrolysis.  
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Decreased Depression in Marijuana Users  
(full – 2005)  

Depression: URB597 increases endocannabinoids in brain  
(news – 2005)  
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New Antidepressant Drug Increases 'Brain's Own Cannabis’  
(news - 2005)  
http://www.sciencedaily.com/releases/2005/12/051213172852.htm

Cannabis' Acts as Antidepressant  
(news - 2005)  

Cannabis And Depression Research  
(news - 2005)  
http://www.thehempire.com/index.php/cannabis/news/cannabis_and_depression_research

High-dose cannabis stimulates growth of brain cells in rats  
(news – 2005)  

Good News For The Medical Marijuana Movement: Pot Proliferates Brain Cells And Boosts Mood  
(news - 2005)  
http://www.sciencedaily.com/releases/2005/10/051014073523.htm

Marijuana might cause new cell growth in the brain  
(news – 2005)  
(may need registration)  
http://www.newscientist.com/article/dn8155

Surprising Brain Effects From Pot-Like Drug  
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Decreased depression in marijuana users.  
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Marijuana use and depression among adults: Testing for causal associations. (abst - 2006)  

Do patients use marijuana as an antidepressant?  (abst - 2006)  

A possible role for the endocannabinoid system in the neurobiology of depression (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2169225/?tool=pubmed

Chronologically overlapping occurrences of nicotine-induced anxiety- and depression-related behavioral symptoms: effects of anxiolytic and cannabinoid drugs  (full - 2007)  
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Cannabinoids elicit antidepressant-like behavior and activate serotonergic neurons through the medial prefrontal cortex.  (full - 2007)  
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Antidepressant-like activity of the fatty acid amide hydrolase inhibitor URB597 in a rat model of chronic mild stress.  (abst – 2007)  

Dronabinol and marijuana in HIV-positive marijuana smokers: caloric intake, mood, and sleep.  (abst - 2007)  
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Marijuana-Like Brain Chemicals Work As Antidepressant  (news - 2007)  

Marijuana chemical may treat depression  (news - 2007)  
http://uk.reuters.com/article/2007/11/05/health-depression-marijuana-de-idUKN0528602320071105

Cannabis: Potent Anti-Depressant In Low Doses, Worsens Depression At High Doses (news - 2007)  

Synthetic form of THC is an effective anti-depressant at low doses  (news - 2007)  
http://www.news-medical.net/releases/2007/10/071023183937.htm

Rimonabant: safety issues  (news – 2007)  
http://www.xagena.it/news/medicinenews_net_news/09a11be6989d5a0e438dd9e589210a79.htm

Treating depression with cannabinoids  (full - 2008)  
Nicotine (NC)-induced "depressive" behavioral symptoms and effects of antidepressants including cannabinoids (CBs). (full – 2008)  
https://www.jstage.jst.go.jp/article/jits/33/5/33_5_555/_pdf

Circulating endocannabinoids and N-acyl ethanolamines are differentially regulated in major depression and following exposure to social stress. (full – 2009)  
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Animal research highlights a therapeutic potential of cannabinoids for the treatment of depression (full - 2008)  

Impairments in Endocannabinoid Signaling and Depressive Illness (full – 2009)  

Protracted cannabinoid administration elicits antidepressant behavioral responses in rats: role of gender and noradrenergic transmission. (abst - 2009)  

Cannabis and suicide: longitudinal study. (abst - 2009)  

Medical Marijuana and Major Depression (news – 2009)  
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Antidepressant-like effect of delta9-tetrahydrocannabinol and other cannabinoids isolated from Cannabis sativa L. (full – 2010)  
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Brain CB2 Receptors: Implications for Neuropsychiatric Disorders (full – 2010)  

Uni-Morbid and Co-Occurring Marijuana and Tobacco Use: Examination of Concurrent Associations with Negative Mood States (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2861285/?tool=pubmed

Genes differentially expressed in CB1 knockout mice: involvement in the depressive-like phenotype. (abst – 2010)  

Deficiency in Endocannabinoid Signaling in the Nucleus Accumbens Induced by Chronic Unpredictable Stress (abst - 2010)  
http://www.nature.com/npp/journal/vaop/ncurrent/abs/npp201099a.html

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DERMATITIS


Hemp Seed Oil : The Wonder Oil For the New Millennium (full - 1999) http://www.ukcia.org/research/Happi/HempSeedOilTheWonderOilForTheNewMillennium.htm

The Endocannabinoid System in Human Keratinocytes (full – 2003) http://www.jbc.org/content/278/36/33896.full


Involvement of the Cannabinoid CB2 Receptor and Its Endogenous Ligand 2-Arachidonoylglycerol in Oxazolone-Induced Contact Dermatitis in Mice (full – 2006) http://www.jimmunol.org/content/177/12/8796.full

Anandamide Regulates Keratinocyte Differentiation by Inducing DNA Methylation in a CB1 Receptor-dependent Manner (full – 2007) http://www.jbc.org/content/283/10/6005.full?sid=931583b1-e797-43e0-8296-7fd75bb49403#sec-4

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HU-211 / DEXANABINOL - synthetic, CB 2 agonist


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


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

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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 cannabinoids 1 (CB1)-receptors in mice.  (abst – 2002)  http://www.ncbi.nlm.nih.gov/pubmed/12095655
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A novel synthetic, nonpsychoactive cannabinoid acid (HU-320) with antiinflammatory properties in murine collagen-induced arthritis. (full- 2004)  

**HU-239** - see Ajulemic Acid

**HU-331** - synthetic

A cannabinoid quinone inhibits angiogenesis by targeting vascular endothelial cells.  
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A Cannabinoid Anticancer Quinone, HU-331, Is More Potent and Less Cardiotoxic Than Doxorubicin: A Comparative in Vivo Study  
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HU-331, a novel cannabinoid-based anticancer topoisomerase II inhibitor  
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**HU-910** – synthetic, CB2 agonist

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

Cannabinoid receptor genes.  
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Synthetic marijuana was created strictly for research at Clemson (news – 2012) http://www.timesnews.net/article/9042095/synthetic-marijuana-was-created-strictly-for-research-at-clemson

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

Spice drugs: cannabinoids as a new designer drugs.  (abst - 2009)  
[http://www.unboundmedicine.com/medline/ebm/record/19718488/abstract/?Spice_drugs:_cannabinoids_as_a_new_designer_drugs_%5D](http://www.unboundmedicine.com/medline/ebm/record/19718488/abstract/?Spice_drugs:_cannabinoids_as_a_new_designer_drugs_%5D)


Chemical analysis of synthetic cannabinoids as designer drugs in herbal products.  
(abst – 2010)  

Monitoring of herbal mixtures potentially containing synthetic cannabinoids as psychoactive compounds.  
(abst – 2010)  

Now, There's a Test for That -- Norchem's "Fake Marijuana" Test Reveals Significantly Increased Abuse of Spice/K2  
(news - 2010)  

College students and use of K2: an emerging drug of abuse in young persons  
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Beyond THC: The New Generation of Cannabinoid Designer Drugs.  
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[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3187647/?tool=pubmed](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3187647/?tool=pubmed)

Marijuana-based Drugs: Innovative Therapeutics or Designer Drugs of Abuse?  
(full – 2011)  
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"Spice" girls: synthetic cannabinoid intoxication.  
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Three cases of "spice" exposure.  
(abst – 2011)  

Cardiotoxicity associated with the synthetic cannabinoid, K9, with laboratory confirmation.  
(abst – 2011)  

Synthetic cannabinoid JWH-018 and psychosis: an explorative study.  
(abst – 2011)  

Comparison of "herbal highs" composition.  
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Synthetic cannabinoids in oral fluid.  (abst – 2011)  

Quantitative measurement of JWH-018 and JWH-073 metabolites excreted in human urine.  (abst – 2011)  

Latest blood test detects 12 popular synthetic cannabinoids in "fake pot".  (news – 2011)  
http://www.thefreelibrary.com/Latest+blood+test+detects+12+popular+synthetic+cannabinoids+in+"fake-...a0261876557

'Fake Marijuana' May Trigger Heart Trouble in Teens  (news – 2011)  
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CP47,497-C8 and JWH073, commonly found in 'Spice' herbal blends, are potent and efficacious CB(1) cannabinoid receptor agonists.  (abst – 2011)  

Chemicals Used in "Spice" and "K2" Type Products Now Under Federal Control and Regulation  (news – 2011)  
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NMS Labs & Cerilliant Announce Identification Of Major Metabolite Of The Synthetic Cannabinoid JWH-073  (news – 2011)  
http://www.medicalnewstoday.com/releases/226597.php

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

JWH-018 and JWH-073: \(\Delta_9\)-Tetrahydrocannabinol-Like Discriminative Stimulus Effects in Monkeys.  (abst – 2012)  
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Detection and disposition of JWH-018 and JWH-073 in mice after exposure to "Magic Gold" smoke.  (abst – 2012)  

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

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

Synthetic marijuana was created strictly for research at Clemson  (news – 2012)  
http://www.timesnews.net/article/9042095/synthetic-marijuana-was-created-strictly-for-research-at-clemson
**JWH-100 / AM-678** - synthetic, CB1 agonist

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

Chemicals Used in "Spice" and "K2" Type Products Now Under Federal Control and Regulation  
(news – 2011)  

**JWH-122** – synthetic, CB1 agonist

Analysis of 30 synthetic cannabinoids in serum by liquid chromatography-electrospray ionization tandem mass spectrometry after liquid-liquid extraction  
(abst – 2012)  

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

Inhibition of tumor angiogenesis by cannabinoids  
(full - 2003)  

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

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

Non-psychoactive CB2 cannabinoid agonists stimulate neural progenitor proliferation  
(full - 2006)  
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Agonists of cannabinoid receptor 1 and 2 inhibit experimental colitis induced by oil of mustard and by dextran sulfate sodium.  
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[http://ajpgi.physiology.org/content/291/2/G364.long](http://ajpgi.physiology.org/content/291/2/G364.long)

Signaling pathways involved in the cardioprotective effects of cannabinoids.  
(full - 2006)  
[https://www.jstage.jst.go.jp/article/jphs/102/2/102_2_155/_pdf](https://www.jstage.jst.go.jp/article/jphs/102/2/102_2_155/_pdf)
Cannabinoid-2 receptor mediates protection against hepatic ischemia/reperfusion injury (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228252/?tool=pmcentrez

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

Anti-inflammatory property of the cannabinoid receptor-2-selective agonist JWH-133 in a rodent model of autoimmune uveoretinitis (full - 2007)  

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

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

Attenuation of Experimental Autoimmune Hepatitis by Exogenous and Endogenous Cannabinoids: Involvement of Regulatory T Cells (full - 2008)  
http://molpharm.aspetjournals.org/content/74/1/20.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT#content-block

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

Additive Interaction of the Cannabinoid Receptor I Agonist Arachidonyl-2-chloroethylamide with Etomidate in a Sedation Model in Mice (full – 2008)  

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

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

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

Cannabinoids as novel anti-inflammatory drugs.  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2828614/?tool=pubmed

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

CB2 cannabinoid receptor activation is cardioprotective in a mouse model of ischemia/reperfusion  

Cannabinoids reduce ErbB2-driven breast cancer progression through Akt inhibition  
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Activation of cannabinoid 2 receptors protects against cerebral ischemia by inhibiting neutrophil recruitment.  
http://www.fasebj.org/content/24/3/788.long

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

Cannabinoid (JWH-133) therapy could be effective for treatment of corneal neovascularization  
http://www.doaj.org/doaj?func=abstract&id=844832&q1=cannabinoid&f1=all&b1=or&q2=cannabis&f2=all&recNo=68&uiLanguage=en

Cannabidiol and other cannabinoids reduce microglial activation in vitro and in vivo: relevance to Alzheimers' disease  
http://molpharm.aspetjournals.org/content/early/2011/02/24/mol.111.071290.long

Brain cannabinoid CB2 receptors modulate cocaine's actions in mice  
http://www.nature.com/neuro/journal/vaop/ncurrent/full/nn.2874.html

Atheroprotection via cannabinoid receptor-2 is mediated by circulating and vascular cells in vivo.  

Antinociceptive effects induced through the stimulation of spinal cannabinoid type 2 receptors in chronically inflamed mice  
http://www.unboundmedicine.com/medline/ebm/record/21771590/abstract/Antinociceptive_effects_induced_through_the_stimulation_of_spinal_cannabinoid_type_2_receptors_in_chronically_inflamed_mice

Cannabinoid receptor-2 (CB2) agonist ameliorates colitis in IL-10(-/-) mice by attenuating the activation of T cells and promoting their apoptosis.  
Beneficial paracrine effects of cannabinoid receptor 2 on liver injury and regeneration.  
(abst – 2011)  
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Spinal cannabinoid CB2 receptors as a target for neuropathic pain: an investigation using chronic constriction injury.  
(abst – 2011)  

Can marijuana curb cocaine addiction?  
(news – 2011)  
http://theweek.com/article/index/217709/can-marijuana-curb-cocaine-addiction

Prolonged oral Cannabinoid Administration prevents Neuroinflammation, lowers beta-amyloid Levels and improves Cognitive Performance in Tg APP 2576 Mice.  
(full – 2012)  

Cannabinoid Receptor 2-Mediated Attenuation of CXCR4-Tropic HIV Infection in Primary CD4+ T Cells  
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Cannabinoid type 2 receptor activation downregulates stroke-induced classic and alternative brain macrophage/microglial activation concomitant to neuroprotection.  
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Activation of cannabinoid receptor 2 attenuates leukocyte-endothelial cell interactions and blood-brain barrier dysfunction under inflammatory conditions.  
(abst – 2012)  

Cannabinoid receptor 2 agonist ameliorates mesenteric angiogenesis and portosystemic collaterals in cirrhotic rats.  
(abst – 2012)  

Cannabinoid receptor CB2 protects against balloon-induced neointima formation.  
(abst – 2012)  

JWH – 150  -synthetic, CB2 agonist

Cannabinoid Receptor 2-Mediated Attenuation of CXCR4-Tropic HIV Infection in Primary CD4+ T Cells  
(full – 2012)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0033961
**JWH-210** – synthetic, CB1 agonist

Analysis of 30 synthetic cannabinoids in serum by liquid chromatography-electrospray ionization tandem mass spectrometry after liquid-liquid extraction  
(abstract – 2012)  

**KIDNEYS**

Cream with endocannabinoids effective in the treatment of pruritus due to kidney disease  
(news – 2005)  

Modulation of P-glycoprotein activity by cannabinoid molecules in HK-2 renal cells  
(full – 2006)  

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/149/1/5619?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT](http://endo.endojournals.org/cgi/content/full/149/1/5619?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT)

The preventive effect of cannabinoids on reperfusion-induced ischemia of mouse kidney.  
(abstract – 2008)  

Ajulemic acid, a synthetic cannabinoid, increases formation of the endogenous proresolving and anti-inflammatory eicosanoid, lipoxin A4  
(full – 2009)  

The GPR55 ligand L-alpha-lysophosphatidylinositol promotes RhoA-dependent Ca2+ signaling and NFAT activation.  
(full – 2009)  
[http://www.fasebj.org/content/23/1/183.long](http://www.fasebj.org/content/23/1/183.long)

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

Cannabinoid-2 receptor limits inflammation, oxidative/nitrosative stress, and cell death in nephropathy.  
(full – 2010)  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2869084/?tool=pubmed](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2869084/?tool=pubmed)

Expression of cannabinoid receptors in human kidney.  
(abstract – 2010)  

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

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

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

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

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

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

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

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

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

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

Characterization of the diarylether sulfonylester (-)-(R)-3-(2-hydroxymethylindanyl-4-oxy)phenyl-4,4,4-trifluoro-1-sulfonate (BAY 38-7271) as a potent cannabinoid receptor agonist with neuroprotective properties.  (full – 2002)  
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Brain injury drug KN38-7271 increases survival: KeyNeurotek (news – 2009)

Early Survival of Comatose Patients after Severe Traumatic Brain Injury with the Dual Cannabinoid CB1/CB2 Receptor Agonist KN38-7271: A Randomized, Double-Blind, Placebo-Controlled Phase II Trial. (abst – 2012)

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

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


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


Defective adult neurogenesis in CB1 cannabinoid receptor knockout mice. (full - 2004) http://molpharm.aspetjournals.org/content/66/2/204.long
CB1 cannabinoid receptor knockout in mice leads to leanness, resistance to diet-induced obesity and enhanced leptin sensitivity (full - 2004)
http://www.nature.com/ijo/journal/v28/n4/full/0802583a.html

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

Overeating, Alcohol and Sucrose Consumption Decrease in Cb1 Receptor Deleted Mice. (abst – 2004)

Ethanol Induces Higher Bec in Cb1 Cannabinoid Receptor Knockout Mice While Decreasing Ethanol Preference. (full – 2005)
http://alcalc.oxfordjournals.org/content/40/1/54.long

Early age-related cognitive impairment in mice lacking cannabinoid CB1 receptors. (full – 2005) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1266095/?tool=pubmed

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

Involvement of Neuronal Cannabinoid Receptor CB1 in Regulation of Bone Mass and Bone Remodeling (full - 2006)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2238031/?tool=pmcentrez

Loss of Cannabinoid Receptor CB1 Induces Preterm Birth (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2553193/?tool=pmcentrez

The peripheral cannabinoid receptor knockout mice: an update. (full – 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219525/?tool=pubmed

Turned-Off Cannabinoid Receptor Turns On Colorectal Tumor Growth (news - 2008)
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Altered CB1 receptor and endocannabinoid levels precede motor symptom onset in a transgenic mouse model of Huntington's disease. (abst – 2009)


Role of CB1 cannabinoid receptors on GABAergic neurons in brain aging  (full– 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3131310/?tool=pubmed

Resistance to diet-induced adiposity in cannabinoid receptor-1 deficient mice is not due to impaired adipocyte function  (full – 2011)  http://www.nutritionandmetabolism.com/content/8/1/93

Early onset of aging-like changes is restricted to cognitive abilities and skin structure in Cnr1(-/-) mice. (abst – 2011)  http://www.ncbi.nlm.nih.gov/pubmed/20724033


The role of cannabinoid receptors in bone remodeling in a CB1/2 double knockout mouse (abst – 2011)  http://www.fasebj.org/cgi/content/meeting_abstract/25/1_MeetingAbstracts/492.5?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&sortspec=date&resourcetype=HWCIT


Role of CB1 cannabinoid receptors on GABAergic neurons in brain aging  (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3131310/?tool=pubmed

Upregulation of cannabinoid type 1 receptors in dopamine D2 receptor knockout mouse is reversed by chronic forced ethanol consumption. (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3004984/?tool=pubmed

Resistance to diet-induced adiposity in cannabinoid receptor-1 deficient mice is not due to impaired adipocyte function. (full – 2012)  http://www.nutritionandmetabolism.com/content/pdf/1743-7075-8-93.pdf
Angiotensin II induces vascular endocannabinoid release, which attenuates its vasoconstrictor effect via CB1 cannabinoid receptors. (full – 2012) http://www.jbc.org/content/early/2012/07/11/jbc.M112.346296.full.pdf+html


Cannabinoid CB1 receptor deficiency increases contextual fear memory under highly aversive conditions and long-term potentiation in vivo. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22579951


L-α-LYSOPHOSPHATIDYLINOSITOL – GPR-55 agonist

The GPR55 ligand L-alpha-lysophosphatidylinositol promotes RhoA-dependent Ca2+ signaling and NFAT activation. (full – 2009) http://www.fasebj.org/content/23/1/183.long

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Lipid bilayer molecular dynamics study of lipid-derived agonists of the putative cannabinoid receptor, GPR55.  (full – 2011)
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A role for L-alpha-lysophosphatidylinositol and GPR55 in the modulation of migration, orientation and polarization of human breast cancer cells.  (full – 2011)
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The L-α-lysophosphatidylinositol/GPR55 system and its potential role in human obesity.  (full – 2012)
http://diabetes.diabetesjournals.org/content/61/2/281.long

Modulation of L-α-lysophosphatidylinositol/GPR55 mitogen-activated protein kinase (MAPK) signaling by cannabinoids.  (abst – 2012)

**LBP-1**  synthetic, CB1 agonist

Low brain penetrant CB1 receptor agonists for the treatment of neuropathic pain.  (abst - 2012)

**LEGIONAIRES DISEASE**

CB(1) and CB(2) cannabinoid receptors mediate different aspects of delta-9-tetrahydrocannabinol (THC)-induced T helper cell shift following immune activation by Legionella pneumophila infection.  (abst – 2009)

Legionnaires disease in cannabis smokers.  (abst – 2011)
http://www.unboundmedicine.com/medline/ebm(record/20923802/abstract/Legionnaires_disease_in_cannabis_smokers

**LEISHMANIASIS**

Biologically Active Cannabinoids from High-Potency Cannabis sativa.  (abst - 2009)
http://www.unboundmedicine.com/medline/ebm(record/19344127/abstract/Biologically_ACTIVE_Cannabinoids_from_High_Potency_Cannabis_sativa
LIVER DISEASE - NON HEPATITIS - also see HEPATITIS

HEMP AS A MEDICAMENT: Importance of hemp seeds in the tuberculosis therapy (Forum thread- full- 1955) (EDEZYME. recipe) 


A Novel Synthetic Cannabinoid Derivative Inhibits Inflammatory Liver Damage via Negative Cytokine Regulation (full - 2003) http://molpharm.aspetjournals.org/content/64/6/1334.full


Endocannabinoid activation at hepatic CB1 receptors stimulates fatty acid synthesis and contributes to diet-induced obesity (full - 2005) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1087161/?tool=pmcentrez

Roles of anandamide in the hepatic microcirculation in cirrhotic rats (full – 2005) http://ajpgi.physiology.org/content/290/2/G328.full?sid=c16d770d-cd17-48c9-bbde-26f38f5eeb67


CB2 receptors as new therapeutic targets for liver diseases  (full - 2007) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219531/?tool=pubmed](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219531/?tool=pubmed)

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](http://www.jleukbio.org/cgi/content/full/82/6/1382)

Cannabinoids ameliorate cerebral dysfunction following liver failure via AMP-activated protein kinase  (full - 2007) [http://hmg.oxfordjournals.org/cgi/content/full/14/22/3389](http://hmg.oxfordjournals.org/cgi/content/full/14/22/3389)

Endocannabinoids acting at CB1 receptors mediate the cardiac contractile dysfunction in vivo in cirrhotic rats  (full - 2007) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225474/?tool=pmcentrez](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225474/?tool=pmcentrez)

Pivotal Advance: Cannabinoid-2 receptor agonist HU-308 protects against hepatic ischemia/reperfusion injury by attenuating oxidative stress, inflammatory response, and apoptosis  (full - 2007) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225476/?tool=pmcentrez](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225476/?tool=pmcentrez)

Anandamide inhibits cholangiocyte hyperplastic proliferation via activation of thioredoxin 1/redox factor 1 and AP-1 activation  (full – 2007) [http://ajpgi.physiology.org/content/294/2/G506.full](http://ajpgi.physiology.org/content/294/2/G506.full)

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Cannabinoid receptors as novel therapeutic targets for the management of non-alcoholic steatohepatitis  (full - 2008) [http://www.em-consulte.com/article/200095](http://www.em-consulte.com/article/200095)

CB2 receptors as new therapeutic targets for liver diseases.  (full - 2008) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219531/?tool=pubmed](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219531/?tool=pubmed)


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Endocannabinoids and Liver Disease. II. Endocannabinoids in the pathogenesis and treatment of liver fibrosis  (full – 2008) [http://ajpgi.physiology.org/content/294/2/G357_full?sid=872637e5-97b2-4103-aaf0-b3e8f6f0eb64](http://ajpgi.physiology.org/content/294/2/G357_full?sid=872637e5-97b2-4103-aaf0-b3e8f6f0eb64)

Endocannabinoids and Liver Disease. III. Endocannabinoid effects on immune cells: implications for inflammatory liver diseases  (full - 2008) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2376822/?tool=pmcentrez](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2376822/?tool=pmcentrez)
Endocannabinoids and Liver Disease. IV. Endocannabinoid involvement in obesity and hepatic steatosis (full - 2008)  http://ajpgi.physiology.org/cgi/content/full/294/5/G1101


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

Endocannabinoids and the Control of Energy Homeostasis (full - 2008)  http://www.ibc.org/content/283/48/33021.full?sid=931583b1-e797-43e0-8296-7f75bb49403

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

Endocannabinoids and cannabinoid receptors in ischaemia–reperfusion injury and preconditioning (full - 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219536/?tool=pmcentrez


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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

Systematic review and meta-analysis on the adverse events of rimonabant treatment: Considerations for its potential use in hepatology (full - 2009)  http://www.biomedcentral.com/1471-230X/9/75

Beneficial effects of a Cannabis sativa extract treatment on diabetes-induced neuropathy and oxidative stress. (abst - 2009)  
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Science: Oral intake of a cannabinoid together with a meal improved bioavailability by avoiding first-pass metabolism (abst - 2009)  

The role of CB2 cannabinoid receptor and Leptin in hepatic fibrosis via lymphocyte alterations and HSC phagocytosis (abst - 2009)  
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Cannabidiol ameliorates cognitive and motor impairments in mice with bile duct ligation. (abst - 2009)  
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Effect of (-)-Delta(9)-tetrahydrocannabinoid on the hepatic redox state of mice. (full – 2010)  

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Recent advances in the understanding of the role of the endocannabinoid system in liver diseases. (abst - 2010)  

Role of the endocannabinoid system in alcoholic liver disease. (abst – 2010)  

Endogenous cannabinoids in liver disease: Many darts for a single target (abst – 2010)  

Endocannabinoids in liver disease. (full – 2011)  

Cannabidiol causes activated hepatic stellate cell death through a mechanism of endoplasmic reticulum stress-induced apoptosis. (full – 2011)  

Cannabidiol, a Major Phytocannabinoid, as a Potent Atypical Inhibitor for Cytochrome P450 2D6. (full – 2011)  
http://dmd.aspetjournals.org/content/early/2011/08/05/dmd.111.041384.long

Therapeutic potential of cannabidiol against ischemia/reperfusion liver injury in rats. (abst – 2011)  
Identification of cytochrome P450 enzymes responsible for metabolism of cannabidiol by human liver microsomes. (abst – 2011)

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

Hyperactivation of anandamide synthesis and regulation of cell-cycle progression via cannabinoid type 1 (CB1) receptors in the regenerating liver (abst – 2011)
http://www.pnas.org/content/108/15/6323.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcetype=HWCIT

Cannabinoid CB2 receptors protect against alcoholic liver disease by regulating kupffer cell polarization in mice. (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/21735467


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Beneficial paracrine effects of cannabinoid receptor 2 on liver injury and regeneration. (abst – 2011)
http://www.unboundmedicine.com/medline/ebm/record/20597071/abstract/Beneficial_paracrine_effects_of_cannabinoid_receptor_2_on_liver_injury_and_regeneration


Hyperactivation of anandamide synthesis and regulation of cell–cycle progression via cannabinoid type 1 (CB1) receptors in the regenerating liver  (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3076854/?tool=pubmed


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The endocannabinoid 2-arachidonoylglicerol decreases calcium induced cytochrome c release from liver mitochondria. (abst – 2012)  http://www.springerlink.com/content/54jm40088728t0pn/

Prevention of Fibrosis Progression in CCl4-Treated Rats: Role of the Hepatic Endocannabinoid and Apelin Systems (abst – 2012)  http://jpet.aspetjournals.org/content/340/3/629.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5

**LONG TERM USE EFFECTS**


Regular Marijuana Users Have No Higher Rates Of Mortality, Long-Term Study Concludes (news – 1997)  

Long-term cannabis use: characteristics of users in an Australian rural area. (abst - 1998)  

Neuropsychological Performance in Long-term Cannabis Users (full - 2001)  
http://archpsyc.ama-assn.org/cgi/content/full/58/10/909?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&s=earchid=1&FIRSTINDEX=2880&resourcetype=HWCIT

The pharmacologic effects of daily marijuana smoking in humans (abst - 2002)  


17. LONG-TERM EFFECTS OF HEAVY MARIJUANA USE (news - 2002)  

Heavy Marijuana Use Doesn't Damage Brain (news – 2003)  

Minimal Long-Term Effects Of Marijuana Use Found In Central Nervous System By UCSD Researchers (news - 2003)  
http://www.sciencedaily.com/releases/2003/06/030630112652.htm

Survey of Australians using cannabis for medical purposes (full - 2005)  


http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2175501/?tool=pubmed

Protracted cannabinoid administration elicits antidepressant behavioral responses in rats: role of gender and noradrenergic transmission. (abst - 2009)  
The morphology of the immune system in opiomania, cannabism, and polynarcotism (abst - 2009)
http://www.unboundmedicine.com/medline/ebm/record/19938701/full_citation/%5BThe_morphology_of_the_immune_system_in_opiomania_cannabism_and_polynarcotism%5D

Effects of cannabis on lung function: a population-based cohort study. (full - 2010)
http://erj.ersjournals.com/content/35/1/42.long

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

Marijuana use among older adults in the U.S.A.: user characteristics, patterns of use, and implications for intervention (abst – 2011)
http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=8259427&fulltextType=RA&fileId=S1041610210002176


The histopathology of drugs of abuse (abst – 2011)

125 Year Old Woman Claimed Smoking Cannabis Everyday Was Her Secret to Long Life (news – 2011)

Assessing topographical orientation skills in cannabis users. (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3259701/?tool=pubmed


Pot smoking not tied to middle-age mental decline (news – 2012)

One Joint a Week for 49 Years Doesn’t Harm Lungs, Research Finds (news – 2012)
http://www.businessweek.com/news/2012-01-13/one-joint-a-week-for-49-years-doesn-t-harm-lungs-research-finds.html
**LUNG FUNCTION**

Byssinosis, Chronic Bronchitis, and Ventilatory Capacities in Workers Exposed to Soft Hemp Dust  
(full - 1968)  

Intravenous delta9-Tetrahydrocannabinol: Effects of ventilatory control and cardiovascular dynamics.  
(full - 1975)  

Physical assessment of 30 chronic cannabis users and 30 matched controls.  
(abst – 1976)  

Bronchodilator effect of delta1-tetrahydrocannabinol.  
(full - 1978)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1429361/

Acute Effects of Marihuana Smoking on Maximal Exercise Performance.  
(abst – 1986)  

No increase in carcinogen-DNA adducts in the lungs of monkeys exposed chronically to marijuana smoke.  
(abst – 1992)  

Health care use by frequent marijuana smokers who do not smoke tobacco.  
(full - 1993)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1311782/?tool=pmcentrez

Exogenous lipid pneumonia related to smoking weed oil following cadaveric renal transplantation  
(link to PDF - 2000)  

Cannabinoids and the immune system. Of men, mice and cells  
(abst – 2004)  
http://pharmgkb.org/pmid/15221424

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

Effects of Marijuana Smoking on Pulmonary Function and Respiratory Complications: A Systematic Review  
(full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2720277/?tool=pmcentrez

Virodhamine and CP55,940 modulate cAMP production and IL-8 release in human bronchial epithelial cells.  
(full – 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2042924/?tool=pubmed

“Usual” cannabis abuse producing an unusual incident  
(abst – 2007)  
(The Valsalva maneuver is performed by attempting to forcibly exhale while keeping the mouth and nose closed.  Don’t do it!)  
No Decrease in Pulmonary Function Associated with Long-Term Cannabis Smoking, Study Says  (news - 2007)  http://www.illinoisnorml.org/content/view/366/27/

Cannabinoid CB(2) receptor activation prevents bronchoconstriction and airway oedema in a model of gastro-oesophageal reflux. (abst - 2007)  http://www.ncbi.nlm.nih.gov/pubmed/17643417

"Bong lung" in cystic fibrosis: a case report  (full - 2010)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2998526/?tool=pmcentrez

Effects of cannabis on lung function: a population-based cohort study.  (full - 2010)  http://erj.ersjournals.com/content/35/1/42.long


Marijuana doesn't harm lung function, study found  (news – 2012)  http://news.yahoo.com/marijuana-doesnt-harm-lung-function-study-found-210146886.html


One Joint a Week for 49 Years Doesn’t Harm Lungs, Research Finds  (news – 2012)  http://www.businessweek.com/news/2012-01-13/one-joint-a-week-for-49-years-doesn-t-harm-lungs-research-finds.html


**LUPUS ERYTHEMATOSUS**

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

Lupus by Randi Cox (anecdotal – undated)
http://rxmarijuana.com/shared_comments/lupus.htm

Cannabis May Suppress Immune System (news - 2003)

Systemic Lupus by Dawn (anecdotal - 2005)

Suppression of human macrophage interleukin-6 by a nonpsychoactive cannabinoid acid.

Plaquenil, Rheumatoid Arthritis, Lupus and Marijuana (Cannabis) (news – 2010)

**LYME DISEASE**

Lyme Disease by Cynkay Morningstar (anecdotal – undated)
http://rxmarijuana.com/shared_comments/Lyme_Disease.htm

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

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

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

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

**MACULAR DEGENERATION**

Changes in endocannabinoid and palmitoylethanolamide levels in eye tissues of patients with diabetic retinopathy and age-related macular degeneration. (abst – 2006)
Mediation of Cannabidiol Anti-inflammation in the Retina by Equilibrative Nucleoside Transporter and A2A Adenosine Receptor  (full – 2008)  
http://www iovs org/content/49/12/5526.full

Presence and regulation of cannabinoid receptors in human retinal pigment epithelial cells.  (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697670/?tool=pubmed

**MAD COW/ CRUETZFELDT-JACOB DISEASE**  also see PRIONS

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


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

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

Pot smoking could stop Mad Cow Disease?  (news - 2008)  http://chattahbox.com/curiosity/2008/12/06/pot-smoking-could-stop-mad-cow-disease/

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

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


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

Chapter 3: Cannabis and Marinol Compared  (book excerpt - 2001)
http://www.or-coast.net/contigo/PDF%201%20Files/chpt_3.pdf


The Role of Cannabis and Cannabinoids  in Pain Management  (full – 2002)
http://www.humanhemphealth.ca/Russo-AAPM_chapter.pdf

Marinol Death Sentence: Oregon Man Denied Liver Transplant Because of Prescription -
- He's Not the Only One  (news – 2003)
http://stopthedrugwar.org/chronicle-old/299/notransplant.shtml

MARINOL® (Dronabinol) Capsules  (monograph - 2004)
http://www.fda.gov/ohrms/dockets/dockets/05n0479/05N-0479-emc0004-04.pdf

Marinol vs Natural Cannabis  (full - 2005)

Testimony of Terry Jacobs to FDA - why he prefers for medical marijuana to Marinol
(news/anecdotal - 2005)
http://www.examiner.com/examiner/x-19678-Cannabis-Revolution-Examiner-y2009m11d5-Testimony-of-
Terry-Jacobs-to-FDA--why-he-prefers-for-medical-marijuana-to-Marinol

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

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

ACG: Cannabinoid Activator Mellows Out Colon  (news - 2006)
http://www.medpagetoday.com/MeetingCoverage/ACG/4410

Cannabinoids in the management of difficult to treat pain  (full -2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2503660/?tool=pmcentrez

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

Deaths from Marijuana v. 17 FDA-Approved Drugs  (full- 2009)

Emerging strategies for exploiting cannabinoid receptor agonists as medicines.

Does the Pot Pill Work?  (news - 2009)
The FDA has written documentation that patients can overdose on Marinol and that it can be lethal (news - 2009) http://www.examiner.com/examiner/x-19678-Cannabis-Revolution-Examiner-y2009m10d23-The-FDA-has-written-documentation-that-patients-can-overdose-on-Marinol-and-that-it-can-be-lethal


My Life With Stiff Person Syndrome (anecdotal – 2012) http://tanyaslifewithsps.com/2012/05/03/dont-remind-me-i-already-know-sps-update-5312/

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


**MEIGE'S SYNDROME**

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

MEMORY  see IQ

MENIERE'S SYNDROME

Menière’s Syndrome by Charlie Ritchie (anecdotal - undated) http://www.rxmarijuana.com/shared_comments/ritchie.htm


MENINGITIS


MENOPAUSE  also see AGING, GYNOCOLOGY


Estrogen stimulates arachidonylethanolamide release from human endothelial cells and platelet activation (full – 2002) http://bloodjournal.hematologylibrary.org/content/100/12/4040.full
Regulation of Gonadotropin-Releasing Hormone Secretion by Cannabinoids  
(full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1237039/?tool=pmcentre

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

Study: Marijuana & The Fountain of Youth  
(news/ad - 2008)  

The effects of Cannabis sativa L. seed (hempseed) in the ovariectomized rat model of menopause.  
(abst – 2010)  

Are endocannabinoid type 1 receptor gene (CNR1) polymorphisms associated with obesity and metabolic syndrome in postmenopausal Polish women?  
(abst – 2011)  

Endocannabinoid type 1 receptor gene (CNR1) polymorphisms (rs806381, rs10485170, rs6454674, rs2023239) and cardiovascular risk factors in postmenopausal women.  
(abst – 2011)  

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

MENTAL DISORDERS - see SCHIZOPHRENIA/ MENTAL DISORDERS

METHODS OF USE – BREATH STRIPS

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

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

THC Breath Strips Are Here, And They Are Amazing!  
(anecdotal/news – 2008)  

Recipe for Breath Strips  
(forum post- #3 – 2009)  
http://boards.cannabis.com/concentrates/174379-re-creating-the-strips-home.html
METHODS OF USE – CAPSULES

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


Fred's THC Capsules (forum thread - 2008)
http://www.greenpassion.org/showthread.php?t=4012

Home-made Mari-pills (forum thread - 2009)
http://www.greenpassion.org/showthread.php?t=17874

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

METHODS OF USE – DECARBOXYLATION – a method to increase potency

Decarboxylation step-by-step decarboxylation (article- undated)
http://theweedsscene.com/decarboxilation/

Why should cannabis products be heated before eating? (news – 2001)
http://www.cannabis-med.org/english/faq/12-heating.htm


Cooking with Cannabis (news – 2008)

THC Decarboxylation (news – 2010)
http://420tainment.com/2010/03/decarboxylation-science-smoking/

How-to: Paleo’s Potent Decarboxylated Cannabis Oil (Edibles Technique) (forum post – 2011)
Controlled cannabis decarboxylation - Patent US2012046352 (A1) — 2012-02-23 (full – 2012)

METHODS OF USE- E-CIGARETTES

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

METHODS OF USE – EDIBLES – General use

Plasma delta-9-tetrahydrocannabinol concentrations and clinical effects after oral and intravenous administration and smoking (abst - 1980)
http://www.nature.com/clpt/journal/v28/n3/abs/clpt1980181a.html


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

Trick or treat from food endocannabinoids? (abst – 1998)
http://www.nature.com/nature/journal/v396/n6712/full/396636a0.html

High-performance liquid chromatographic determination of delta9-tetrahydrocannabinol and the corresponding acid in hemp containing foods with special regard to the fluorescence properties of delta9-tetrahydrocannabinol. (abst – 2000)


Cannabis Use As Described by People with Multiple Sclerosis. (full – 2003)
http://cjns.metapress.com/content/5mw9rpyxvtpirwfl/fulltext.pdf
A good pizza joint (news - 2005)
http://www.bmj.com/cgi/content/full/330/7492/670?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=2960&resourcetype=HWCIT

Delirium following ingestion of marijuana present in chocolate cookies (full - 2006)

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

Cooking with Cannabis (news – 2008)

Inadvertent ingestion of marijuana - Los Angeles, California, 2009 (full - 2009)
http://www.gov/mmwr/preview/mmwrhtml/mm5834a2.htm

Science: Oral intake of a cannabinoid together with a meal improved bioavailability by avoiding first-pass metabolism (abst - 2009)

Intestinal lymphatic transport enhances the post-prandial oral bioavailability of a novel cannabinoid receptor agonist via avoidance of first-pass metabolism. (abst - 2009)


Cannabis as a Unique Functional Food (full – 2011)
http://www.cannabisinternational.org/info/treatingyourself.pdf

http://www.patentstorm.us/applications/20110097283/fulltext.html

Simultaneous determination of delta-9-tetrahydrocannabinol cannabidiol and cannabinol in edible oil using ultra performance liquid chromatography-tandem mass spectrometry (abst – 2011)
http://www.unboundmedicine.com/medline/ebm/record/21381415/abstract/%5BSimultaneous_determinati_on_of_delta_9_tetrahydrocannabinol_cannabidiol_and_cannabinol_in_edible_oil_using_ultra_performance_liquid_chromatography_tandem_mass_spectrometry%5D

Accidental cannabis poisoning in children: report of four cases in a tertiary care center from southern Spain (abst – 2011)
http://www.unboundmedicine.com/medline/ebm/record/21283933/abstract/%5BAccidental_cannabis_poisoning_in_children:_report_of_four_cases_in_a_ tertiary_care_center_from_southern_Spain%5D
Prolonged coma in a child due to hashish ingestion with quantitation of THC metabolites in urine.  (abst – 2011)

Marijuana cannabinoids - oral and transdermal methods  (news – 2011)
http://www.naturalnews.com/034425_marijuana_cannabinoids_medicine.html


Hemp Seed Oil for Anxiety  (news – 2011)
http://www.livestrong.com/article/379150-hemp-seed-oil-for-anxiety/

Crumbs of comfort: Cannabis cookies are kosher for Passover  (news - 2012)

Beyond Pot Brownies: The New Cannabis Cuisine  (news – 2012)

METHODS- EDIBLES- BEVERAGES

How to Brew Marijuana Tea  (news – undated)
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Abnormalities in the cerebrospinal fluid levels of endocannabinoids in multiple sclerosis.  
Cannabinoid-mediated neuroprotection, not immunosuppression, may be more relevant to multiple sclerosis (abst – 2008)


Cannabis use in Spanish patients with multiple sclerosis (abst - 2008)

Cannabis May Halt Progression Of Multiple Sclerosis (news - 2008) http://norml.org/index.cfm?Group_ID=7704


Emerging Role of the CB2 Cannabinoid Receptor in Immune Regulation and Therapeutic Prospects (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2768535/?tool=pmcentrez

Cannabinoids as Therapeutic Agents for Ablating Neuroinflammatory Disease (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2750822/?tool=pmcentrez


Medical Marijuana and Multiple Sclerosis (MS) (news – 2009)
https://www.marijuanadoctors.com/content/ailments/view/80?ailment=multiple-sclerosis-ms-

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

Marijuana Eases Spasticity in MS Patients (news – 2009)

Pot shows promise for reducing multiple sclerosis patients' symptoms (news - 2009)
http://www.scientificamerican.com/blog/post.cfm?id=pot-shows-promise-for-reducing-mult-2009-12-02

Study Confirms That Cannabis Is Beneficial for Multiple Sclerosis (news - 2009)

Marijuana Chemicals Ease MS Symptoms, Review Confirms (news - 2009)
http://www.drugfree.org/uncategorized/marijuana-chemicals-ease-ms

14 of 15 MS patients show clinical improvement with cannabis consumption (news – 2009)

Cannabis can reduce spasticity in MS patients (news - 2009)

Standardized Cannabis in Multiple Sclerosis: A Case Report (full - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2806860/?tool=pubmed

New approaches in the management of spasticity in multiple sclerosis patients: role of cannabinoids (full - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2835560/?tool=pmcentrez

Cannabinoid-induced apoptosis in immune cells as a pathway to immunosuppression. (full - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3005548/?tool=pubmed

Randomized controlled trial of Sativex to treat detrusor overactivity in multiple sclerosis. (abst – 2010)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=314

Plasma endocannabinoid levels in multiple sclerosis. (abst – 2009)

Meta-analysis of the efficacy and safety of Sativex (nabiximols), on spasticity in people with multiple sclerosis (abst - 2010)
http://msj.sagepub.com/cgi/content/abstract/16/6/707?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=0&sortspec=date&resourcetype=HWCIT
The endocannabinoid system in the inflammatory and neurodegenerative processes of multiple sclerosis and of amyotrophic lateral sclerosis. (abst - 2010)  

The Multiplicity of Action of Cannabinoids: Implications for Treating Neurodegeneration. (abst - 2010)  

Julie Falco brings hope to Multiple Sclerosis patients. Cannabinoids manage pain and promote repair! (news - 2010)  

Nature's (Legal) Cannabinoids (news - 2010)  
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Marijuana and MS--an unfinished story. (news - 2010)  
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Weed Control Part 1: MS sufferer finds relief with medical marijuana (anecdotal/news - 2010)  
http://www.thestarphoenix.com/opinion/sufferer+finds+relief+with+medical+marijuana/3198412/story.htm

Anandamide inhibits Theiler's virus induced VCAM-1 in brain endothelial cells and reduces leukocyte transmigration in a model of blood brain barrier by activation of CB1 receptors. (full – 2011)  
http://www.jneuroinflammation.com/content/pdf/1742-2094-8-102.pdf

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

Gadolinium-HU-308-incorporated micelles. (full – 2011)  

 Emerging treatment options for spasticity in multiple sclerosis; clinical utility of cannabinoids (link to PDF – 2011)  
http://www.doaj.org/doaj?func=abstract&id=842067&q1=cannabinoid&f1=all&b1=or&q2=cannabis&f2=all&recNo=30&uiLanguage=en

Acute and chronic cannabinoid extracts administration affects motor function in a CREAE model of multiple sclerosis. (abst – 2011)  

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

Identification of the synthetic cannabinoid R(+)-WIN55,212-2 as a novel regulator of IFN regulatory factor 3 (IRF3) activation and IFN-β expression: relevance to therapeutic effects in models of multiple sclerosis. (abst – 2011)  

A randomized, double-blind, placebo-controlled, parallel-group, enriched-design study of nabiximols* (Sativex®), as add-on therapy, in subjects with refractory spasticity caused by multiple sclerosis. (abst – 2011)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=322

Treating pain in multiple sclerosis. (abst – 2011)  

THC and CBD oromucosal spray (Sativex®) in the management of spasticity associated with multiple sclerosis. (abst - 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21456949/abstract/THC_and_CBD_oromucosal_spray_Sativex%C2%AE_in_the_management_of_spasticity_associated_with_multiple_sclerosis

New metabolic pathway for controlling brain inflammation (news – 2011)  

The synthetic cannabinoid R(+)-WIN55,212-2 augments interferon-β expression via peroxisome proliferator-activated receptor-α (full – 2012)  
http://www.jbc.org/content/early/2012/05/31/jbc.M112.371757.full.pdf+html

Smoked cannabis for spasticity in multiple sclerosis: a randomized, placebo-controlled trial. (full – 2012)  
http://www.cmaj.ca/content/184/10/1143.long

Cannabinoids ameliorate disease progression in a model of multiple sclerosis in mice, acting preferentially through CB(1) receptor-mediated anti-inflammatory effects. (abst - 2012)  

The synthetic cannabinoid R(+)-WIN55,212-2 augments interferon-β expression via peroxisome proliferator-activated receptor-α (abst – 2012)  
http://www.ncbi.nlm.nih.gov/pubmed/22654113

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


**MUSCLE RELAXANT**


**MUSCULAR DYSTROPHY/ MD**


MYOCLONUS DIAPHRAGMATIC FLUTTER

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

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

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

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

Superiority of nabilone over prochlorperazine as an antiemetic in patients receiving cancer chemotherapy. (abst - 1979)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=126

Cannabinoids. II. Cardiovascular Effects (full - 1980)
http://jpet.aspetjournals.org/content/214/1/131.full.pdf+html?ijkey=e751d405c4b7e494e235b602119e4f9b8c62c04d&keytype2=tf_ipsecsha

Double-blind comparison of the antiemetic effects of nabilone and prochlorperazine on chemotherapy-induced emesis. (abst - 1980)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=131

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

A double-blind, controlled trial of nabilone vs. prochlorperazine for refractory emesis induced by cancer chemotherapy. (abst - 1982)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=146

A multi-institutional Phase III study of nabilone vs. placebo in chemotherapy-induced nausea and vomiting. (abst - 1982)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=156

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


A cross-over comparison of nabilone and prochlorperazine for emesis induced by cancer chemotherapy. (abst - 1985)  http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=128


A randomized trial of oral nabilone and prochlorperazine compared to intravenous metoclopramide and dexamethasone in the treatment of nausea and vomiting induced by chemotherapy regimens containing cisplatin or cisplatin analogues.  (abst – 1988)  

Effect of nabilone on nausea and vomiting after total abdominal hysterectomy    (abst - 1994)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=137

Effect of nabilone on nausea and vomiting           (letter - 1995)  
http://bja.oxfordjournals.org/cgi/reprint/74/1/111?maxtoshow=&hits=80&RESULTFORMAT=1&andorexacttitle=and&andorexacttitleabs=and&fulltext=cannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HWCIT

http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=11

The effects of the cannabinoid receptor agonist nabilone on L-DOPA induced dyskinesia in patients with idiopathic Parkinson's disease (PD).   (abst - 1998)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=153

Analgesic effect of the cannabinoid analogue nabilone is not mediated by opioid receptors.          (excerpt - 1999)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=203

Cannabis and cannabinoids: pharmacology and rationale for clinical use  (abst – 1999)  
http://pharmgkb.org/pmid/10575283

Different effects of nabilone and cannabidiol on binocular depth inversion in Man.  (abst – 2000)  

Delta(9)-tetrahydrocannabinol and synthetic cannabinoids prevent emesis produced by the cannabinoid CB(1) receptor antagonist/inverse agonist SR 141716A.  (full – 2001)  
http://www.nature.com/npp/journal/v24/n2/full/1395605a.html

Cannabinoids reduce levodopa-induced dyskinesia in Parkinson's disease: a pilot study.  (abst - 2001)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=54

Antiinflammatory action of endocannabinoid palmitoylethanolamide and the synthetic cannabinoid nabilone in a model of acute inflammation in the rat  (full - 2002)  

Cannabinoids and multiple sclerosis.   (abst - 2002)  

Cannabinoid rotation in a young woman with chronic cystitis     (abst - 2003)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=115
Therapeutic potential of cannabinoids in CNS disease.  (abst - 2003)  

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

Nabilone significantly reduces spasticity-related pain  (abst - 2006)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=200

The synthetic cannabinoid nabilone improves pain and symptom management in cancer patients  (abst - 2006)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=177

Low dose treatment with the synthetic cannabinoid Nabilone significantly reduces spasticity-related pain : A double-blind placebo-controlled cross-over trial.  (abst - 2006)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=200

Synthetic cannabinomimetic nabilone on patients with chronic pain  (abst - 2006)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=197

The synthetic cannabinoid nabilone improves pain and symptom management in cancer patients  (abst - 2006)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=177

Low dose treatment with the synthetic cannabinoid Nabilone significantly reduces spasticity-related pain : A double-blind placebo-controlled cross-over trial.  (abst - 2006)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=200

The synthetic cannabinoid nabilone improves pain and symptom management in cancer patients  (abst - 2006)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=177

Nabilone improves pain and symptom management in cancer patients  (abst - 2006)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=177

Synthetic cannabinomimetic nabilone on patients with chronic pain  (abst - 2006)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=197

2nd synthetic marijuana drug OK’d for chemo effects  (news – 2006)  

Cesamet (nabilone) capsule  (info page - 2007)  


Synthetic Cannabis for Fibromyalgia Pain? (news - 2007)
http://www.healthcentral.com/chronic-pain/c/5949/16104/fm-pain

Nabilone relieves many advanced Ca symptoms (news - 2007)
http://www.highbeam.com/doc/1G1-178441488.html

Cannabinoids in the management of difficult to treat pain (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2503660/?tool=pmcentrez

Comparison of analgesic effects and patient tolerability of nabilone and dihydrocodeine for chronic neuropathic pain: randomised, crossover, double blind study. (full – 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2213874/?tool=pubmed

Nabilone for the treatment of pain in fibromyalgia. (abst - 2008)


Science: Nabilone effective in the treatment of night sweats of four patients with advanced cancer (news – 2008)
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=277#1

Marijuana Derivative Called Effective in Fibromyalgia (news - 2008)
http://www.medpagetoday.com/Rheumatology/Fibromyalgia/8377

Marijuana-Based Drug Reduces Fibromyalgia Pain, Study Suggests (news - 2008)
http://www.sciencedaily.com/releases/2008/02/080217214547.htm

Two New Approaches for Fibromyalgia (news – 2008)
http://www.healthandage.com/Two-New-Approaches-for-Fibromyalgia

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

The Effects of Nabilone on Sleep in Fibromyalgia: Results of a Randomized Controlled Trial. (full - 2009) http://www.anesthesia-analgesia.org/content/110/2/604.long


A pilot study using nabilone for symptomatic treatment in Huntington's disease. (abst – 2009)
http://www.unboundmedicine.com/medline/ebm/record/19845035/abstract/A_pilot_study_using_nabilone_for_symptomatic_treatment_in_Huntington%27s_disease_
The use of a synthetic cannabinoid in the management of treatment-resistant nightmares in posttraumatic stress disorder (PTSD). (abst - 2009)  

CESAMET® CII (nabilone) Capsules For Oral Administration  
(Archived drug label - 2010)  

A randomized, double-blinded, crossover pilot study assessing the effect of nabilone on spasticity in persons with spinal cord injury. (abst - 2010)  

An Open-Label Comparison of Nabilone and Gabapentin as Adjuvant Therapy or Monotherapy in the Management of Neuropathic Pain in Patients with Peripheral Neuropathy. (abst – 2010)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=311

What Are Prescription Drugs That Are a Substitute for Marijuana? (news – 2011)  
http://www.livestrong.com/article/137065-what-are-prescription-drugs-that-are-substitute-marijuana/#ixzz21Ia1dVQG

Subjective, cognitive and cardiovascular dose-effect profile of nabilone and dronabinol in marijuana smokers. (abst – 2012)  

Cannabinoids in the treatment of chemotherapy-induced nausea and vomiting. (abst – 2012)  

A Randomized, Double-Blind, Placebo Controlled, Parallel Assignment, Flexible Dose, Efficacy Study of Nabilone as Adjuvant in the Treatment of Diabetic Peripheral Neuropathic Pain Using an Enriched Enrollment Randomized Withdrawal Design (S38.003) (abst – 2012)  
http://www.neurology.org/cgi/content/meeting_abstract/78/1_MeetingAbstracts/S38.003?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=180&sortspec=date&resourcetype=HWCIT

**NAIL-PATELLA SYNDROME**

Nail Patella Syndrome-Cannabinoids Relieve Symptoms (news – undated)  
http://medicalmarijuana.com/medical-marijuana-treatments/NPS

Chronic Cannabis Use in the Compassionate Investigational New Drug Program: An Examination of Benefits and Adverse Effects of Legal Clinical Cannabis (full – 2002)  

Federal Rx: Marijuana (article- 2002)  
http://www.spectacle.org/1202/largen.html
'Trying to ease my suffering’  (news – 2008)

Born With Nail Patella Syndrome, Charles Snyder Turns to Michigan’s Medical Marijuana Law  (news/anecdotal – 2011)
http://medicalmarijuana411.com/mmj411_v3/?p=5538

Charles Snyder III – Nail Patella Syndrome – Part Two  (news/anecdotal – 2011)
http://medicalmarijuana411.com/mmj411_v3/?p=469

**NAMISOL** – a THC tablet

Holland: Echo Pharmaceuticals develops THC tablet Namisol  (news – 2008)

Novel Δ(9)-tetrahydrocannabinol formulation Namisol® has beneficial pharmacokinetics and promising pharmacodynamic effects.  (abst – 2011)

Namisol granted €4,5M, for Clinical Phase II & III on Alzheimer’s and Neural Pain  (news - 2011)

Novel Δ(9) -tetrahydrocannabinol formulation Namisol® has beneficial pharmacokinetics and promising pharmacodynamic effects.  (abst – 2012)

**NAUSEA** - also see MORNING SICKNESS, MOTION SICKNESS, RADIATION-INDUCED NAUSEA


Delta-9-Tetrahydrocannabinol as an Antiemetic in Cancer Patients Receiving High-Dose Methotrexate  (full - 1979)  http://www.ukcia.org/research/AntiemeticForMethotrexate.php

Delta-9-tetrahydrocannabinol (THC) as an antiemetic in patients treated with cancer chemotherapy; a double-blind cross-over trial against placebo  (abst - 1979)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=27
Amelioration of cancer chemotherapy-induced nausea and vomiting by delta-9-tetrahydrocannabinol. (abst - 1979)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=107

Superiority of nabilone over prochlorperazine as an antiemetic in patients receiving cancer chemotherapy. (abst - 1979)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=126

Delta-9-tetrahydrocannabinol as an antiemetic for patients receiving cancer chemotherapy. A comparison with prochlorperazine and a placebo. (abst - 1979)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=5

Double-blind comparison of the antiemetic effects of nabilone and prochlorperazine on chemotherapy-induced emesis. (abst - 1980)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=131

Antiemetic effect of tetrahydrocannabinol. Compared with placebo and prochlorperazine in chemotherapy-associated nausea and emesis (abst - 1980)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=6

The antiemetic activity of tetrahydrocanabinol versus metoclopramide and thiethylperazine in patients undergoing cancer chemotherapy. (abst - 1980)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=24

Antiemetics in patients receiving chemotherapy for cancer: a randomized comparison of delta-9-tetrahydrocannabinol and prochlorperazine. (abst - 1980)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=3

Dose vs response of tetrahydroannabinol (THC) vs prochlorperazine as chemotherapy antiemetics. (abst - 1981)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=30

Physiologic observations in a controlled clinical trial of the antiemetic effectiveness of 5, 10, and 15 mg of delta 9-tetrahydrocannabinol in cancer chemotherapy. Ophthalmologic implications. (abst - 1981)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=88

Clinical experience with levonantradol hydrochloride in the prevention of cancer chemotherapy-induced nausea and vomiting. (abst – 1981)

Comparative trial of the antiemetic effects of THC and haloperidol (abst - 1981)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=64

A double-blind, controlled trial of nabilone vs. prochlorperazine for refractory emesis induced by cancer chemotherapy. (abst - 1982)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=146


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


A double-blind randomised cross-over comparison of nabilone and metoclopramide in the control of radiation-induced nausea. (abst - 1987)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=130

Oral vs. Inhaled Cannabinoids for Nausea/Vomiting from Cancer Chemotherapy (full - 1988)


Cannabinoids for control of chemotherapy induced nausea and vomiting: quantitative systematic review (full - 2001) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC34325/?tool=pmcentrez


The cannabinoid agonist WIN55,212-2 suppresses opioid-induced emesis in ferrets. (full - 2001) http://journals.lww.com/anesthesiology/Fulltext/2001/05000/The_Cannabinoid_Agonist_WIN55,212_2_Suppresses.29.aspx

The cannabinoid CB1 receptor antagonist SR 141716A reverses the antiemetic and motor depressant actions of WIN 55, 212-2 (abst – 2001) http://pharmgkb.org/pmid/11698062


Delta9-tetrahydrocannabinol selectively acts on CB1 receptors in specific regions of dorsal vagal complex to inhibit emesis in ferrets. (full – 2003) http://ajpgi.physiology.org/content/285/3/G566.long

Cannabinoids suppress synaptic input to neurones of the rat dorsal motor nucleus of the vagus nerve (full – 2004) http://jp.physoc.org/content/559/3/923.full#sec-19


Experience with the Synthetic Cannabinoid Nabilone in Chronic Noncancer Pain (abst – 2006)  
http://onlinelibrary.wiley.com/doi/10.1111/j.1526-4637.2006.00085.x/abstract;jsessionid=E64762ABC5DA541547D051CCC8EE2DFC.d03t01

Methods evaluating cannabinoid and endocannabinoid effects on gastrointestinal functions. (abst – 2006)  

Dronabinol for supportive therapy in patients with malignant melanoma and liver metastases. (abst - 2006)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=180

http://www.patentstorm.us/application/20070049645/fulltext.html

THC improves appetite and reverses weight loss in AIDS patients (abst - 2007)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=189


Efficacy of dronabinol alone and in combination with ondansetron versus ondansetron alone for delayed chemotherapy-induced nausea and vomiting. (abst - 2007)  
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Dronabinol and marijuana in HIV-positive marijuana smokers: caloric intake, mood, and sleep. (abst - 2007)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=190

Receptor mechanism and antiemetic activity of structurally-diverse cannabinoids against radiation-induced emesis in the least shrew. (abst - 2007)  
http://www.unboundmedicine.com/medline/ebm/record/17362921/abstract/Receptor_mechanism_and_antiemetic_activity_of_structurally_diverse_cannabinoids_against_radiation_induced_emesis_in_the_least_shrew

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

Medical marijuana: a surprising solution to severe morning sickness (news - 2008)  

Medical Marijuana and Severe Nausea (news – 2009)  
https://www.marijuanadoctors.com/content/ailments/view/99?ailment=severe-nausea

Mechanisms of Broad-Spectrum Antiemetic Efficacy of Cannabinoids against Chemotherapy-Induced Acute and Delayed Vomiting (full – 2010)  
Preliminary efficacy and safety of an oromucosal standardized cannabis extract in chemotherapy-induced nausea and vomiting (full - 2010)
http://www.unboundmedicine.com/medline/ebm/record/21039759/abstract/Preliminary_efficacy_and_safety_of_an_oromucosal_standardized_cannabis_extract_in_chemotherapy_induced_nausea_and_vomiting

The abuse potential of the synthetic cannabinoid nabilone. (abst – 2010)

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

Motion Sickness, Stress and the Endocannabinoid System (abst - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2873996/?tool=pmcentrez

Medical Marijuana: Can Pot Help Pregnant Women With Vomiting and Nausea? (article – 2011)


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

How Does Marijuana Help Cancer Patients? (news – 2011)

The Positive Uses of Marijuana for Cancer Patients (news – 2011)
http://www.livestrong.com/article/94355-positive-uses-marijuana-cancer-patients/#ixzz21Ib5ILhj

Medical Marijuana: Clearing Away the Smoke (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3358713/


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http://www.nature.com/oby/journal/v17/n2/full/oby2008509a.html

Differential alterations of the concentrations of endocannabinoids and related lipids in the subcutaneous adipose tissue of obese diabetic patients.  (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2868848/?tool=pubmed

Cannabinoid receptor stimulation impairs mitochondrial biogenesis in mouse white adipose tissue, muscle, and liver: the role of eNOS, p38 MAPK, and AMPK pathways.  (full – 2010)  
http://diabetes.diabetesjournals.org/content/59/11/2826.long#sec-25
A common polymorphism in the cannabinoid receptor 1 (CNR1) gene is associated with antipsychotic-induced weight gain in Schizophrenia. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3055343/?tool=pubmed


Cannabidiol Attenuates the Appetitive Effects of Δ9-Tetrahydrocannabinol in Humans Smoking Their Chosen Cannabis (abst - 2010) http://www.nature.com/npp/journal/vaop/ncurrent/abs/npp201058a.html

Deficiency of CB2 cannabinoid receptor in mice improves insulin sensitivity but increases food intake and obesity with age. (abst – 2010) http://www.springerlink.com/content/g037q1lh40l15161/


Cannabis Use and Obesity and Young Adults (abst - 2010) http://informahealthcare.com/doi/abs/10.3109/00952990.2010.500438


Resistance to diet-induced adiposity in cannabinoid receptor-1 deficient mice is not due to impaired adipocyte function (full – 2011) http://www.nutritionandmetabolism.com/content/8/1/93

Krill oil significantly decreases 2-arachidonoylglycerol plasma levels in obese subjects. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3048484/?tool=pubmed

Effect of dietary krill oil supplementation on the endocannabinoidome of metabolically relevant tissues from high-fat-fed mice (full – 2011) http://www.nutritionandmetabolism.com/content/8/1/51
Lipid transport function is the main target of oral oleoylethanolamide to reduce adiposity in high-fat-fed mice. (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3111743/?tool=pubmed

Sympathetic activity controls fat-induced oleoylethanolamide signaling in small intestine. (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3084524/?tool=pubmed

Gadolinium-HU-308-incorporated micelles. (full – 2011)  

Sweet taste and (AAT)12 repeat in the cannabinoid receptor gene in obese females (letter – 2011)  

Psychiatric adverse effects of rimonobant in adults with Prader Willi syndrome. (abst – 2011)  

The neutral cannabinoid CB\textsubscript{1} receptor antagonist AM4113 regulates body weight through changes in energy intake in the rat. (abst – 2011)  

Effects of Chronic Oral Rimonabant Administration on Energy Budgets of Diet-Induced Obese C57BL/6 Mice. (abst – 2011)  

The role of central CB2 cannabinoid receptors on food intake in neonatal chicks. (abst – 2011)  

Cannabidiol decreases body weight gain in rats: Involvement of CB2 receptors. (abst - 2011)  
http://marijuana.researchtoday.net/archive/8/1/3517.htm

Obesity and Cannabis Use: Results From 2 Representative National Surveys (abst – 2011)  

Are endocannabinoid type 1 receptor gene (CNR1) polymorphisms associated with obesity and metabolic syndrome in postmenopausal Polish women? (abst – 2011)  

Frequency Of Marijuana Use Associated With Lower Prevalence Of Obesity, Study Says (news – 2011)  
http://www.norml.org/index.cfm?Group_ID=8670

Smoking marijuana not linked to obesity: study (news – 2011)  
http://health.yahoo.net/news/s/nm/us_marijuana_obesity

Body's natural marijuana-like chemicals make fatty foods hard to resist (news – 2011)  

To Be or Not To Be—Obese (full – 2012) http://endo.endojournals.org/content/152/10/3592.long


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

Resistance to diet-induced adiposity in cannabinoid receptor-1 deficient mice is not due to impaired adipocyte function. (full – 2012) http://www.nutritionandmetabolism.com/content/pdf/1743-7075-8-93.pdf


Anti-obesity effects of the combined administration of CB1 receptor antagonist rimonabant and melanin-concentrating hormone antagonist SNAP-94847 in diet-induced obese mice. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22473329


**OBSESSIVE COMPULSIVE DISORDER/ OCD**

Improvement in Refractory Obsessive Compulsive Disorder With Dronabinol
(letter - 2008)  http://ajp.psychiatryonline.org/cgi/content/full/165/4/536

Science: THC effective in obsessive compulsive disorder according to case reports


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


OLEOYLETHANOLAMINE / OEA  - endocannabinoid, an anandamide analog, GPR 119 agonist

'Entourage' effects of N-palmitoylethanolamide and N-oleoylethanolamide on vasorelaxation to anandamide occur through TRPV1 receptors.  (full – 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597234/?tool=pubmed


The lipid messenger OEA links dietary fat intake to satiety.  
(full – 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2572640/?tool=pubmed

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

Abnormalities in the cerebrospinal fluid levels of endocannabinoids in multiple sclerosis.  
(abst – 2008)  

Biological functions and metabolism of oleoylethanolamide.  
(abst – 2008)  

Inhibitory effect of the anorexic compound oleoylethanolamide on gastric emptying in control and overweight mice.  
(abst – 2008)  

Fat-induced satiety factor oleoylethanolamide enhances memory consolidation  
(full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2683095/?tool=pubmed

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

Sleep deprivation increases oleoylethanolamide in human cerebrospinal fluid.  
(full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2757605/?tool=pubmed

Circulating endocannabinoids and N-acyl ethanolamines are differentially regulated in major depression and following exposure to social stress.  
(full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2716432/?tool=pubmed

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

Oleoylethanolamide exerts partial and dose-dependent neuroprotection of substantia nigra dopamine neurons.  
(abst – 2009)  

Plasma endocannabinoid levels in multiple sclerosis.  
(abst – 2009)  

N-acyl ethanolamines, anandamide and food intake.  
(abst – 2009)  

The fat-induced satiety factor oleoylethanolamide suppresses feeding through central release of oxytocin.  
(full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2900249/?tool=pubmed

Quantification of brain endocannabinoid levels: methods, interpretations and pitfalls  
(full – 2010)  


Administration of URB597, oleoylethanolamide or palmitoylethanolamide increases waking and dopamine in rats. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3136458/?tool=pubmed


Lipid transport function is the main target of oral oleoylethanolamide to reduce adiposity in high-fat-fed mice (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3111743/?tool=pubmed


Synthesis of oleylethanolamide using lipase. (full – 2012)  
http://pubs.acs.org/doi/full/10.1021/jf203629w

Orally administered oleylethanolamide protects mice from focal cerebral ischemic injury by activating peroxisome proliferator-activated receptor α. (abst – 2012)  

Stimulating beta cell replication and improving islet graft function by GPR119 agonists. (abst – 2012)  

Hedonic eating is associated with increased peripheral levels of ghrelin and the endocannabinoid 2-arachidonoyl-glycerol in healthy humans: a pilot study. (abst – 2012)  

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

Hemp Packs in Powerful Source of Preconception Nutrition (article - undated)  

Omega-3 and Omega-6 Essential fatty Acids (EFA) (infomercial/ad – undated)  

Occurrence of "omega-3" stearidonic acid in hemp seed (full - 1996)  
http://www.hempfood.com/IHA/iha03208.html

Effect of maternal under-nutrition on pup body weight and hypothalamic endocannabinoid levels. (abst – 2003)  

Oily fish makes 'babies brainier’ (news - 2006) (hemp seed- at the end)  
http://news.bbc.co.uk/2/hi/health/4631006.stm

Effect of dietary hempseed intake on cardiac ischemia-reperfusion injury. (full – 2007)  
http://ajpregu.physiology.org/content/292/3/R1198.long

Endocannabinoids and nutrition. (full – 2008)  

Hemp Seed Oil Benefits (news – 2009)  
http://www.livestrong.com/article/31903-hemp-seed-oil-benefits/

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
Effect of dietary fat on endocannabinoids and related mediators: consequences on energy homeostasis, inflammation and mood.  (abst – 2010)  

Effect of dietary krill oil supplementation on the endocannabinoidome of metabolically relevant tissues from high-fat-fed mice  (full – 2011)  
http://www.nutritionandmetabolism.com/content/8/1/51


Fish oil promotes survival and protects against cognitive decline in severely undernourished mice by normalizing satiety signals.  (abst – 2011)  

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

Omega-3 deficiency disrupts cannabinoid receptor function in brain (news – 2011)  
http://www.wellsphere.com/general-medicine-article/omega-3-deficiency-disrupts-cannabinoid-receptor-function-in-brain/1347465

A Brain Wrought Without Omega-3 (news – 2011)  
http://www.schizophreniaforum.org/new/detail.asp?id=1646

Poor Diet Impairs Cannabinoid Receptors  (news – 2011)  

Hemp Seed Oil for Anxiety  (news – 2011)  
http://www.livestrong.com/article/379150-hemp-seed-oil-for-anxiety/

Research provides new clues to understand link between deficits of AGPO-3, depression (news – 2011)  

Functional Metabolomics Reveals Novel Active Products in the DHA Metabolome.  (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3342038/?tool=pubmed

Nutritional n-3 polyunsaturated fatty acids deficiency alters cannabinoid receptor signaling pathway in the brain and associated anxiety-like behavior in mice.  (abst – 2012)  
http://www.springerlink.com/content/ur5784gm34782505/

Essential fatty acids and lipid mediators. Endocannabinoids  (abst – 2012)  
Cannabinoid Receptor Function is Altered by Nutritionally Deficient Diet  (news – 2012)  

ORGAN TRANSPLANTS

Fatal aspergillosis associated with smoking contaminated marijuana, in a marrow transplant recipient.  (full - 1988)  
http://chestjournal.chestpubs.org/content/94/2/432.long

Successfully treated invasive pulmonary aspergillosis associated with smoking marijuana in a renal transplant recipient.  (abst - 1996)  

Exogenous lipid pneumonia related to smoking weed oil following cadaveric renal transplantation  (link to PDF - 2000)  

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

Endocannabinoids and cannabinoid receptors in ischaemia–reperfusion injury and preconditioning  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219536/?tool=pmcentrez

The debate about marijuana usage in transplant candidates: recent medical evidence on marijuana health effects.  (abst - 2008)  

Medical Marijuana Users Denied Organ Transplants  (news – 2008)  
http://blogs.wsj.com/health/2008/05/19/medical-marijuana-users-denied-organ-transplants/

Is medical-marijuana use reason to deny someone an organ transplant?  (news – 2008)  
http://seattletimes.nwsource.com/html/health/2004389825_liver03m.html

Should Hepatitis C Patients Who Smoke Marijuana Be Eligible For Liver Transplants?  (news - 2008)  
http://www.sciencedaily.com/releases/2008/10/081022211032.htm

Marijuana Use in Potential Liver Transplant Candidates.  (abst - 2009)  

Woman Dies After Being Denied Organ Transplant  (news – 2009)  

646
Do cannabinoids have a therapeutic role in transplantation (full – 2010) 
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2923447/?tool=pubmed

Denial of hepatic transplantation on the basis of smoking: is it ethical? (abst – 2010) 

Oregon hospitals denying life saving organ transplants to legal medical marijuana patients (news - 2010) 
http://www.huffingtonpost.com/russ-belville/oregon-hospitals-denying_b_575965.html

Health Tragedy: Patients Denied Life-Saving Transplants for Their "Abuse of Illicit Substances" (abst – 2011) 
http://www.alternet.org/health/145432/health_tragedy%3A_patients_denied_life-saving_transplants_for_their_%22abuse_of_illicit_substances%22

http://jpet.aspetjournals.org/content/early/2011/06/14/jpet.111.182717.long

Cannabinoid receptor 2 and its agonists mediate hematopoiesis and hematopoietic stem and progenitor cell mobilization. (abst – 2011) 

The Denial of Organ Transplants to Medical Marijuana Patients (news – 2011) 

Cancer Patient Taken Off Of Liver Transplant List Because Of Medical Marijuana Use (news – 2011)  http://americansforsafeaccess.org/article.php?id=6986

Cedars-Sinai Denying Transplant To Medical Marijuana Patient With Inoperable Liver Cancer (news – 2011) 

OHSU eases marijuana restriction for transplant patients (news – 2012) 

OSTEOPOROSIS/ BONES

Cannabinoid receptor type 2 gene is associated with human osteoporosis (full - 2005) 
http://hmg.oxfordjournals.org/cgi/content/full/14/22/3389?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=400&resourcetype=HWCIT
Regulation of bone mass, bone loss and osteoclast activity by cannabinoid receptors (full - 2005) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1430341/?tool=pmcentrez

Peripheral cannabinoid receptor, CB2, regulates bone mass (full - 2006) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1334629/?tool=pmcentrez

Involved of Neuronal Cannabinoid Receptor CB1 in Regulation of Bone Mass and Bone Remodeling (full - 2006) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2238031/?tool=pmcentrez

Women with a variant of the CB2 gene have a three-fold higher risk of osteoporosis (news – 2006) http://www.xagena.it/news/medicine/news/8f1bac3967e0ff70ebc09d8ca5e08633.html


Prototype drug to prevent osteoporosis based on cannabinoids found in the body (news - 2006) http://www.news-medical.net/?id=15220


Cannabinoid receptors and the regulation of bone mass (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219540/?tool=pmcentrez
Regulation of Bone Mass, Osteoclast Function, and Ovariectomy-Induced Bone Loss by the Type 2 Cannabinoid Receptor

The cannabinoid CB1 receptor regulates bone formation by modulating adrenergic signaling.

Role of cannabinoid receptors in bone disorders: alternatives for treatment

Ajulemic acid, a nonpsychoactive cannabinoid acid, suppresses osteoclastogenesis in mononuclear precursor cells and induces apoptosis in mature osteoclast-like cells.

The putative cannabinoid receptor GPR55 affects osteoclast function in vitro and bone mass in vivo

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

Cannabinoids and the skeleton: From marijuana to reversal of bone loss.

Activation of CB2 cannabinoid receptors: a novel therapeutic strategy to accelerate osseointegration of dental implants.

Marijuana/Cannabis may protect against osteoporosis

Cannabis may prevent osteoporosis

Hypothalamic regulation of bone.

Cannabinoid Receptors as Target for Treatment of Osteoporosis: A Tale of Two Therapies

Tissue Engineering of Cartilage; Can Cannabinoids Help?


Endocannabinoids are expressed in bone marrow stromal niches and play a role in interactions of hematopoietic stem and progenitor cells with the bone marrow microenvironment (abst – 2010) http://www.ncbi.nlm.nih.gov/pubmed/20826813

The Type 2 Cannabinoid Receptor Regulates Bone Mass and Ovariectomy-Induced Bone Loss by Affecting Osteoblast Differentiation and Bone Formation (abst – 2011) http://www.unboundmedicine.com/medline/ebm/record/21447627/abstract/The_Type_2_Cannabinoid_Receptor_Regulates_Bone_Mass_and_Ovariectomy_Induced_Bone_Loss_by_Affecting_Osteoblast_Differentiation_and_Bone_Formation


The role of cannabinoid receptors in bone remodeling in a CB1/2 double knockout mouse (abst – 2011) http://www.fasebj.org/cgi/content/meeting_abstract/25/1_MeetingAbstracts/492.5?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&sortspec=date&resourcetype=HWCIT


Cannabinoids: novel therapies for arthritis?  (abst – 2012)

OVERDOSES OF CANNABINOIDS  also see CANNABINOID HYPEREMESIS

Cannabis Indica Poisoning   (1899)  http://www.onlinepot.org/medical/Dr_Tods_PDFs/s2_2.pdf

Two cases of Poisoning by Cannabis Indica   (1900)  http://www.onlinepot.org/medical/Dr_Tods_PDFs/s2_3.pdf

Collapse after intravenous injection of hashish.   (full - 1968)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1986226/?tool=pmcentrez&page=1


Inadvertent ingestion of marijuana - Los Angeles, California, 2009   (full - 2009)  http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5834a2.htm


Accidental cannabis poisoning in children: report of four cases in a tertiary care center from southern Spain  (abst – 2011)  http://www.unboundmedicine.com/medline/ebm/record/21283933/abstract/%5BAccidental_cannabis_pois oning_in_children:_report_of_four_cases_in_a_tertiary_care_center_from_southern_Spain%5D


OVERVIEWS

On Being Stoned: A Psychological Study of Marijuana Intoxication  

HEMP, THE PLANT THAT CAN SAVE MOTHER EARTH  (transcript – 1990)  
http://www.rational.org/renewables/hempHDRT.html


Cannabis: extracting the medicine  (book – 2007)  
http://mcforadhd.free.fr/Hazekamp%20EXTRACTING%20THE%20MEDICINE.pdf

Cannabinoids: A New Group of Agonists of PPARs  (full – 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2220031/?tool=pubmed

Cannabis and Endocannabinoids: The Old Man and the Teenagers  (full – 2007)  

Pharmacological actions and therapeutic uses of cannabis and cannabinoids  
(full – 2008)  

Medicinal Use of Cannabis in the United States: Historical Perspectives, Current Trends and future Directions  (full - 2009)  
http://www.letfreedomgrow.com/cmu/JOM_5-3-03-Carter.pdf


Information for Health Care Professionals- Marihuana (marijuana, cannabis)  dried plant  
for administration by ingestion or other means (Health Canada)  (full – 2010)  

Cannabis and Its Derivatives: Review of Medical Use  (full – 2011)  
http://www.jabfm.org/cgi/content/full/24/4/452

Global Commission Drug Report  (links to full in various languages – 2011)  
http://www.globalcommissionondrugs.org/Report

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

Introduction to the Endocannabinoid System  (news – 2011)  
http://norml.org/index.cfm?Group_ID=8444

Is Pot Good For You?  (news – 2011)  
http://www.time.com/time/magazine/article/0,9171,1003570,00.html
ANTI-EDEMA AND ANALGESIC PROPERTIES OF Δ9-TETRAHYDROCANNABINOL (THC) (abst- 1973)
http://jpet.aspetjournals.org/content/186/3/646.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=2160&resourcetype=HWCIT

Analgesic effect of delta-9-tetrahydrocannabinol. (abst - 1975)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=16

The analgesic properties of delta-9-tetrahydrocannabinol and codeine. (abst - 1975)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=17

Marihuana as a therapeutic agent for muscle spasm or spasticity. (abst - 1980)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=53

ANALGESIC AND ANTIINFLAMMATORY ACTIVITY OF CONSTITUENTS OF CANNABIS SATIVA L. (full - 1988)
http://www.ukcia.org/research/AnalgesicAndAntiInflammatoryActivityof Constituents.html

The effect of orally and rectally administered delta-9-tetrahydrocannabinol on spasticity: a pilot study with 2 patients. (abst - 1996)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=12


Pain relief with oral cannabinoids in familial Mediterranean fever (abst - 1997)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=18

Hypoactivity of the Spinal Cannabinoid System Results in NMDA-Dependent Hyperalgesia (full – 1998) http://www.jneurosci.org/content/18/1/451.long

Doped skin (news - 1998) (may need registration)
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

Analgesic effect of the cannabinoid analogue nabilone is not mediated by opioid receptors. (abst - 1999)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=203

Brain Releases Marijuana-Like Substance In Response To Pain, Study Finds (news - 1999) http://www.sciencedaily.com/releases/1999/10/991013074947.htm
Most pain patients gain benefit from cannabis in a British study (news - 2000)
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=84#1

Therapeutic aspects of cannabis and cannabinoids. (full - 2001)
http://bjp.rcpsych.org/cgi/content/full/178/2/107

Are cannabinoids an effective and safe treatment option in the management of pain? A qualitative systematic review (full - 2001)
http://www.ukcia.org/research/EffectiveTreatmentOptionForPain.pdf

Therapeutic Aspects of Cannabis and Cannabinoids (full - 2001)

Administration of Endocannabinoids Prevents a Referred Hyperalgesia Associated With Inflammation of the Urinary Bladder (full – 2001)

Tetrahydrocannabinol for treatment of chronic pain (abst - 2001)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=147

The Role of Cannabis and Cannabinoids in Pain Management (full – 2002)
http://www.humanhemphealth.ca/Russo-AAPM_chapter.pdf

A Dramatic Response to Inhaled Cannabis in a Woman with Central Thalamic Pain and Dystonia (full - 2002) http://www.jpsmjournal.com/article/PIIS0885392402004268/fulltext


The Pharmacology of Cannabinoid Derivatives: Are There Applications to Treatment of Pain? (abst – 2002)

A preliminary controlled study to determine whether whole-plant cannabis extracts can improve intractable neurogenic symptoms (full - 2003)
http://www.ukcia.org/research/WholePlantExtractsImproveNeurogenicSymptoms.pdf

http://www.jpsmjournal.com/article/S0885-3924(03)00142-8/fulltext

Inhibition of Inflammatory Hyperalgesia by Activation of Peripheral CB2 Cannabinoid Receptors (full – 2003)
Cannabis and Pain Management  (article - 2003)
http://www.letfreedomgrow.com/articles/can030828.htm

Topical cannabinoid enhances topical morphine antinociception.  (abst - 2003)

http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=91

http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=61

Cannabis Use in HIV for Pain and Other Medical Symptoms  (full - 2004)
http://www.jpsmjournal.com/article/S0885-3924(05)00063-1/fulltext

3-[2-cyano-3-(trifluoromethyl)phenoxy]phenyl-4,4,4-trifluoro-1-butanesulfonate (BAY 59-3074): a novel cannabinoid Cb1/Cb2 receptor partial agonist with antihyperalgesic and antiallodynic effects.  (full – 2004)  http://jpet.aspetjournals.org/content/310/2/620.long

Are oral cannabinoids safe and effective in refractory neuropathic pain?  

Ajulemic acid: A novel cannabinoid produces analgesia without a “high”  

Cannabinoids called equivalent to codeine for killing pain  (news - 2004)
http://findarticles.com/p/articles/mi_hb4365/is_13_37/ai_n29110217/?tag=content;col1

High hopes for cannabinoid analgesia  (news - 2004)
http://www.bmj.com/cgi/content/full/329/7460/257?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=2880&resourcetype=HWCIT

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

Chronic Pain and Cannabinoids  (full – 2005)
http://www.drkoprp.com/pdfs/fibromyalgia/CannabinoidsPPM.pdf

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

Ajulemic acid (IP-751): Synthesis, proof of principle, toxicity studies, and clinical trials  
(full - 2005)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751505/?tool=pubmed
Analgesia through endogenous cannabinoids (analysis - 2005)  
http://www.cmaj.ca/cgi/content/full/173/4/357?maxtoshow=&hit=10&RESULTFORMAT=&fulltext=endocannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=date&resource=HW C

Enhancement of transdermal fentanyl and buprenorphine antinociception by transdermal delta9-tetrahydrocannabinol. (abst - 2005)  

Cannabis: Use in HIV for Pain and Other Medical Symptoms (abst - 2005)  

Body's Pot-Like Chemicals May Help Curb Pain (news - 2005)  

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http://www.bjjprocs.boneandjoint.org.uk/content/94-B/SUPP_XVIII/7.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCT

The Novel Reversible Fatty Acid Amide Hydrolase Inhibitor ST4070 Increases Endocannabinoid Brain Levels and Counteracts Neuropathic Pain in Different Animal Models (abst – 2012)  
http://jpet.aspetjournals.org/content/342/1/188.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5

Hedonic eating is associated with increased peripheral levels of ghrelin and the endocannabinoid 2-arachidonoyl-glycerol in healthy humans: a pilot study. (abst – 2012)  

Palmitoylethanolamide is a new possible pharmacological treatment for the inflammation associated with trauma. (abst – 2012)  
Pharmacological inhibition of endocannabinoid degradation modulates the expression of inflammatory mediators in the hypothalamus following an immunological stressor.

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Mutations in ABHD12 cause the neurodegenerative disease PHARC: An inborn error of endocannabinoid metabolism. (full – 2011)
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The serine hydrolases MAGL, ABHD6 and ABHD12 as guardians of 2-arachidonoylglycerol signalling through cannabinoid receptors (full – 2011)

**PHYTOCANNABINOIDS/ PLANT EXTRACTS** - also see THC, CBD

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

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

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

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Chemical basis of hashish activity. (abst - 1970)

Anticonvulsant Action of Cannabis in the Rat: Role of Brain Monoamines.

Intraocular pressure following systemic administration of cannabinoids. (abst - 1982)


Advantages of polypharmaceutical herbal cannabis compared to single ingredient, synthetic tetrahydrocannabinol (full - 2000) http://cannabismovement.org/docs/cannabis%20terpenes.pdf

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


Natural cannabis 'better than extracts' (news - 2001) http://news.bbc.co.uk/2/hi/health/1261737.stm


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

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(may need registration)

Plant cannabinoids: a neglected pharmacological treasure trove.  (full - 2005)
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Chemical constituents of marijuana: the complex mixture of natural cannabinoids.

A tale of two cannabinoids:The therapeutic rationale for combining tetrahydrocannabinol and cannabidiol.  (full - 2006)

Unheated Cannabis sativa extracts and its major compound THC-acid have potential immuno-modulating properties not mediated by CB1 and CB2 receptor coupled pathways.  (abst - 2006)

The multidrug transporter ABCG2 (BCRP) is inhibited by plant-derived cannabinoids.  (full - 2007)
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The psychoactive plant cannabinoid, Delta9-tetrahydrocannabinol, is antagonized by Delta8- and Delta9-tetrahydrocannabivarin in mice in vivo.  (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189766/?tool=pubmed

Endocannabinoids and Related Compounds: Walking Back and Forth between Plant Natural Products and Animal Physiology  (full - 2007)

Medicinal chemistry endeavors around the phytocannabinoids.  (abst - 2007)

The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids: Δ9-tetrahydrocannabinol, cannabidiol and Δ9-tetrahydrocannabivarin  (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219532/

Antibacterial cannabinoids from Cannabis sativa: a structure-activity study.  (full - 2008)
http://www.cannabisasmedicine.com/story/antibacterial-cannabinoids-cannabis-sativa-structure%E2%88%92activity-study


Synthetic and plant-derived cannabinoid receptor antagonists show hypophagic properties in fasted and non-fasted mice (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697695/?tool=pubmed

Evaluation of prevalent phytocannabinoids in the acetic acid model of visceral nociception (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2765124/?tool=pubmed


Antidepressant-like effect of delta9-tetrahydrocannabinol and other cannabinoids isolated from Cannabis sativa L. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2866040/?tool=pubmed

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(abst – 2010)  
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A low-Δ9tetrahydrocannabinol cannabis extract induces hyperphagia in rats.  
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Cannabis constituents modulate δ9-tetrahydrocannabinol-induced hyperphagia in rats.  
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Preliminary efficacy and safety of an oromucosal standardized cannabis extract in chemotherapy-induced nausea and vomiting.  
(abst - 2010)  

Scientists Find New Sources of Plant Cannabinoids Other than Medical Marijuana?  
(news – 2010)  

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

Are There Any Herbal Supplements to Reduce Intraocular Pressure?  
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Gut feelings about the endocannabinoid system  
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Evaluation of the Cyclooxygenase Inhibiting Effects of Six Major Cannabinoids Isolated from Cannabis sativa  
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Treatment of Crohn's disease with cannabis: an observational study.  
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Phytocannabinoids for use in the treatment of cancer - Patent GB2478595 (A) — 2011-09-14  
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Heat Exposure of Cannabis sativa Extracts Affects the Pharmacokinetic and Metabolic Profile in Healthy Male Subjects.  
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Nature Against Depression.  
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Cannabis exposure associated with weight reduction and β-cell protection in an obese rat model.  
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Differential migratory properties of monocytes isolated from human subjects naïve and non-naïve to Cannabis.  
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Multiple Sclerosis and Extract of Cannabis: results of the MUSEC trial.  
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Non-Δ⁹tetrahydrocannabinol phytocannabinoids stimulate feeding in rats.  
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Modulation of paraoxon toxicity by the cannabinoid receptor agonist WIN 55,212-2.  
(abst – 2006)  

Monoacylglycerol lipase inhibition by organophosphorus compounds leads to elevation of brain 2-arachidonoylglycerol and the associated hypomotility in mice.  
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Activation of the endocannabinoid system by organophosphorus nerve agents  
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Behavioral sequelae following acute diisopropylfluorophosphate intoxication in rats: comparative effects of atropine and cannabimimetics.  
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(abst – 2010)  
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Effect of Developmental Chlorpyrifos Exposure on Endocannabinoid Metabolizing Enzymes in the Brain of Juvenile Rats.  (abst – 2011)  


POISONING - PARAQUAT

Paraquat goes to pot.  (full - 1978)  http://chestjournal.chestpubs.org/content/74/4/358.long

Paraquat and marihuana. Assessing the hazard.  (link to PDF - 1978)  
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PORPHYRIA

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http://rxmarijuana.com/shared_comments/Porphyria.htm

Porphyria by Sharon Place  (anecdotal – undated)  
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Effects of repeated administration with CP-55,940, a cannabinoid CB1 receptor agonist on the metabolism of the hepatic heme. (abst – 2005)  

Medical Marijuana and Porphyria  (news – 2009)  
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Porphyria—Alternative Symptom Treatments  (news – 2011)  

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Cannabinoid CB2 receptor agonist activity in the hindpaw incision model of postoperative pain. (abst - 2005)  

A multicenter dose-escalation study of the analgesic and adverse effects of an oral cannabis extract (Cannador) for postoperative pain management.  (full - 2006)  

Analgesic and adverse effects of an oral cannabis extract (Cannador) for postoperative pain  (abst - 2006)  

Delta(9)-tetrahydrocannabinol and the opioid receptor agonist piritramide do not act synergistically in postoperative pain  (abst – 2006)  

Cannabis effective at relieving pain after major surgery  (news - 2006)  

Cannador: Drug from cannabis plant-extract to reduce surgery pain  (news - 2006)  

Spinal cannabinoid receptor type 2 activation reduces hypersensitivity and spinal cord glial activation after paw incision.  (full - 2007)  

Cannabinoids for Postoperative Pain  (letter – 2007)  

Cannabinoid Receptor Agonist Significantly Reduces Post-Operative Pain, Study Says  (news – 2007)  
Evidence for a Role of Endocannabinoids, Astrocytes and p38 Phosphorylation in the Resolution of Postoperative Pain  (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2878341/?tool=pmcentrez

Compound boosts marijuana-like chemical in the body to relieve pain at injury site  (news - 2010)  

**POST POLIO SYNDROME**

Medical Marijuana and Post Polio Syndrome (PPS)  
https://www.marijuanadoctors.com/content/ailments/view/54?ailment=post-polio-syndrome-pps

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Never fear, cannabinoids are here  (article - 2002)  
http://mcforadhd.free.fr/naturefear.pdf

The endogenous cannabinoid system controls extinction of aversive memories.  (abst - 2002)  

'Natural' cannabis manages memory  (news - 2002)  
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Study: Marijuana Eases Traumatic Memories  (news - 2002)  

Cannabis-like Brain Chemical Blocks Out Bad Memories  (news - 2002)  
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Endocannabinoids extinguish bad memories in the brain  (news - 2002)  
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=123#1

Marijuana-Like Compound Banishes Fear  (news - 2002)  

Natural high helps banish bad memories  (news - 2002) (may need registration)  

Israel to soothe soldiers with marijuana  (news - 2004)  

Cannabinoid CB1 Receptor Mediates Fear Extinction via Habituation-LikeProcesses (full - 2006)  
http://www.jneurosci.org/cgi/content/full/26/25/6677?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=400&resourcetype=HWCIT

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Cannabis Eases Post Traumatic Stress  (news/ forum post - 2006)  

Modulation of Fear and Anxiety by the Endogenous Cannabinoid System  (full - 2007)  
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Inhibition of fatty-acid amide hydrolase accelerates acquisition and extinction rates in a spatial memory task.  (full – 2007)  

Posttraumatic stress symptom severity predicts marijuana use coping motives among traumatic event-exposed marijuana users  (abst - 2007)  
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Medical Marijuana: PTSD Medical Malpractice  (news - 2007)  

Cannabis for the Wounded - Another Walter Reed Scandal  (news - 2007)  
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Association of the Cannabinoid Receptor Gene (CNR1) With ADHD and Post-Traumatic Stress Disorder  (full – 2008)  
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Marijuana Therapy for Veterans with PTSD  (article – 2008)  
http://www.benefitsofmarijuana.com/ask/reader-questions/marijuana-therapy-for-veterans-with-ptsd/

Cannabinoid Receptor Activation in the Basolateral Amygdala Blocks the Effects of Stress on the Conditioning and Extinction of Inhibitory Avoidance  (full - 2009)   
http://www.jneurosci.org/cgi/content/full/29/36/11078?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=Dr.+Irit+Akirav+&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

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


'Pot' may help combat PTSD U. of Haifa study shows (news - 2009) http://www.jpost.com/LandedPages/PrintArticle.aspx?id=159548

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The role of cannabinoids in modulating emotional and non-emotional memory processes in the hippocampus. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3124830/?tool=pubmed
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Anti-Aversive Effects of Cannabidiol on Innate Fear-Induced Behaviors Evoked by an Ethological Model of Panic Attacks Based on a Prey vs the Wild Snake Epicrates cenchria cenchria Confrontation Paradigm. (abst - 2011)  

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Marijuana Administration After a Traumatic Experience May Prevent Post-Traumatic Stress Symptoms, Rat Study Suggests (news – 2011)  

Medical marijuana turns former soldier's life around (news – 2011)  

Marijuana blocks PTSD symptoms in rats: study (news - 2011)  

Cannabidiol, a Cannabis sativa constituent, as an anxiolytic drug. (full – 2012)  
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


Cannabinoid CB1 receptor deficiency increases contextual fear memory under highly aversive conditions and long-term potentiation in vivo. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22579951


PRADER WILLI SYNDROME

PREGNANCY/ PRENATAL EXPOSURE
also see PERINATAL HYPOXIC-ISCHEMIC INJURY, CHILDREN

Hemp Packs in Powerful Source of Preconception Nutrition (article - undated)

Effects of Alcohol and Cannabis during Labor. (article - 1930) (on page 2)
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Nonmutagenic action of cannabinoids in vitro (abst - 1978)
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Teratologic evaluation of synthetic delta 9-tetrahydrocannabinol in rabbits.

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Effects of prenatal exposure to cannabinoids. (abst – 1985)

Tolerance to the luteinizing hormone and prolactin suppressive effects of delta-9-tetrahydrocannabinol develops during chronic prepubertal treatment of female rats. (abst - 1986)
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Poor and pregnant: perinatal ganja use in rural Jamaica. (abst – 1989)

Marijuana Use in Pregnancy and Pregnancy Outcome. (abst – 1990)

Prenatal marijuana use and neonatal outcome.  (abst – 1991)

Analysis of Facial Shape in Children Gestationally Exposed to Marijuana, Alcohol, and/or Cocaine  (abst - 1992)
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Prenatal exposure to marihuana and tobacco during infancy, early and middle childhood: effects and an attempt at synthesis.  (abst – 1995)

Prenatal tobacco and marijuana use among adolescents: effects on offspring gestational age, growth, and morphology.  (abst – 1995)

Mortality Within the First 2 Years in Infants Exposed to Cocaine, Opiate, or Cannabinoid During Gestation  (abst - 1997)
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Maternal cannabis use and birth weight: a meta-analysis  (abst – 1997)
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Use of Marijuana During Pregnancy  (book excerpt - 1997)

Dr. Melanie Dreher, reefer researcher  (interview - 1998)
http://www.cannabisculture.com/v2/articles/1404.html

Cannabis and pregnancy  (full - 1999)
http://www.ukcia.org/research/CannabisAndPregnancy.php

Ganja mothers, ganja babies  (news - 1999)
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Dysregulated Cannabinoid Signaling Disrupts Uterine Receptivity for Embryo Implantation (full - 2001) http://www.jbc.org/content/276/23/20523.full


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The role of the endocannabinoid system in gametogenesis, implantation and early pregnancy (full - 2007) http://humupd.oxfordjournals.org/cgi/content/full/13/5/501?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=960&resourcetype=HWCIT


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Loss of Cannabinoid Receptor CB1 Induces Preterm Birth (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2553193/?tool=pmcentrez
Medical marijuana: a surprising solution to severe morning sickness  (news - 2008)  

Maternal tobacco, cannabis and alcohol use during pregnancy and risk of adolescent psychotic symptoms in offspring.  (full - 2009)  
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Localisation and Function of the Endocannabinoid System in the Human Ovary  (full - 2009)  
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Maternal Marijuana use not Associated with Psychotic Symptoms, but Alcohol is  (news - 2009)  

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A prospective study on intrauterine cannabis exposure and fetal blood flow.  (abst – 2010)  
Tocolytic Effect of Δ9-Tetrahydrocannabinol in Mice Model of Lipopolysaccharide—Induced Preterm Delivery: Role of Nitric Oxide  (abst - 2010)  
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Characteristics of pregnant illicit drug users and associations between cannabis use and perinatal outcome in a population-based study  (abst - 2010)  

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Pregnant women turning to cannabis for morning sickness relief risk prosecution  (news - 2010)  
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Sex difference in cell proliferation in developing rat amygdala mediated by endocannabinoids has implications for social behavior  (full – 2011)  
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Prenatal tobacco, marijuana, stimulant, and opiate exposure: outcomes and practice implications.  (full – 2011)  
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Commentary: Functional Neuronal CB2 Cannabinoid Receptors in the CNS.  (full – 2011)  
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Medical Marijuana: Can Pot Help Pregnant Women With Vomiting and Nausea?  (article – 2011)  

Cannabinoid hyperemesis syndrome: an underreported entity causing nausea and vomiting of pregnancy.  (abst – 2011)  

Cocaine, Opiate, and Cannabinoid Infant Mortality Study  (news – 2011)  

Pharmacological characterization of the peripheral FAAH inhibitor URB937 in female rodents: interaction with the Abcg2 transporter in the blood-placenta barrier.  (abst – 2012)  
Researchers study neuroprotective properties in cannabis (news - 2012) [link]

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**PRIONS**

Nonpsychoactive cannabidiol Prevents Prion Accumulation and Protects Neurons against Prion Toxicity (full - 2007) [link]

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QUITTING OTHER DRUGS

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**RADIATION SICKNESS**

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When spliff gets in your eyes... (news – 2004)
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**RIMONABANT/ACOMPLIA/SR141716/SR1** – a CB1 & CB2 antagonist


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**R(+)-METHANANANDAMIDE** – synthetic, Anandamide analog


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**CANNABINOIDS ALTER RECOGNITION MEMORY IN RATS**  (full – 2003)  

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Cannabinoid Receptor-Mediated Apoptosis Induced by R(+)-Methanandamide and Win55,212-2 Is Associated with Ceramide Accumulation and p38 Activation in Mantle Cell Lymphoma  (full - 2006)  
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Cannabinoid Receptor Activation Protects Coronary Endothelium Against Reperfusion
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(abst - 2009)
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c?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=720&
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R(+)methanandamide-induced apoptosis of human cervical carcinoma cells involves a
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Anandamide capacitates bull spermatozoa through CB1 and TRPV1 activation.
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Pharmacological elevation of anandamide impairs short-term memory by altering the
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Effects of Cannabinoid Agonists on Sheep Sphincter of Oddi in vitro.  (abst – 2011)

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**RWJ 400065** - synthetic cannabinoid

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**S-444823** – synthetic, CB1 & CB2 agonist


**SAFETY AS A MEDICINE**

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Cognition and Long-Term Use of Ganja (Cannabis) (full - 1981)
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Adverse effects of medical cannabinoids: a systematic review (full - 2008)
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Merck Manual - Marijuana (Cannabis) (excerpt - 2008)

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

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**URB - 754** - slows cannabinoid destruction

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**URB - 973** - slows cannabinoid destruction

Compound boosts marijuana-like chemical in the body to relieve pain at injury site  
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The effect of feeding hemp seed meal to laying hens. (abst – 2005)  

Evaluation of a Human On-site Urine Multidrug Test for Emergency Use With Dogs (abst - 2009)  
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Vets use hemp seed oil on animals with cancer  (news - 2010)  

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Fatty Acid Profile and Sensory Characteristics of Table Eggs from Laying Hens Fed Hempseed and Hempseed Oil. (abst – 2012)  

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**VIRODHAMINE** – an endocannabinoid, GPR-55 & CB2 agonist; CB1 agonist/antagonist depending on dose

Phytocannabinoids (news – undated)  
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Endogenous cannabinoids in liver disease: Many darts for a single target (abst – 2010)

The Endocannabinoids Anandamide and Virodhamine Modulate the Activity of the Candidate Cannabinoid Receptor GPR55. (abst – 2012)

VISION- also see GLAUCOMA

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**WILSON'S DISEASE**


**WIN 55,212-2** - a synthetic cannabinoid, CB1 agonist

Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents, CP 55,940, WIN 55,212-2 and anandamide.  (full - 1993)  
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(+)-WIN 55,212-2, a novel cannabinoid receptor agonist, exerts antidystonic effects in mutant dystonic hamsters.  (abst - 1994)  

Cannabinoid Receptor Agonists Protect Cultured Rat Hippocampal Neurons from Excitotoxicity  (full - 1998)  
http://molpharm.aspetjournals.org/content/54/3/459.full


Cannabinoids and Neuroprotection in Global and Focal Cerebral Ischemia and in Neuronal Cultures  (full - 1999)  
http://www.jneurosci.org/cgi/content/full/19/8/2987?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HWCT

The role of cannabinoid receptors in intestinal motility, defaecation and diarrhoea in rats  (abst - 1999)  

Involvement of Cannabinoid Receptors in the Intraocular Pressure-Lowering Effects of WIN55212-2  (full - 2000)  
http://jpet.aspetjournals.org/content/292/1/136.long

Cannabinoids might reduce spasticity in multiple sclerosis  (full - 2000)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1117698/?tool=pmcentrez

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

Central and peripheral cannabinoid modulation of gastrointestinal transit in physiological states or during the diarrhoea induced by croton oil  (full - 2000)  

Modulation of peristalsis by cannabinoid CB1 ligands in the isolated guinea-pig ileum  (full - 2000)  

Anti-tumoral action of cannabinoids: involvement of sustained ceramide accumulation and extracellular signal-regulated kinase activation.  (full - 2000)  

Delta(9)-tetrahydrocannabinol and synthetic cannabinoids prevent emesis produced by the cannabinoid CB(1) receptor antagonist/inverse agonist SR 141716A.  (full – 2001)  
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The cannabinoid agonist WIN55,212-2 suppresses opioid-induced emesis in ferrets. (link to PDF - 2001) [http://journals.lww.com/anesthesiology/Fulltext/2001/05000/The_Cannabinoid_Agonist_WIN55,212_2_Suppresses.29.aspx]

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Increased Severity of Stroke in CB1 Cannabinoid Receptor Knock-Out Mice (full - 2002) [http://www.jneurosci.org/cgi/content/full/22/22/9771?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HWCIT]

Contrasting effects of WIN 55212-2 on motility of the rat bladder and uterus. (full – 2002) [http://www.jneurosci.org/content/22/16/7147.long]

CB1 Receptors in the Preoptic Anterior Hypothalamus Regulate WIN 55212-2 [(4,5-Dihydro-2-methyl-4(4-morpholinylmethyl)-1-(1-naphthalenyl-carbonyl)-6H-pyrrolo[3,2,1ij]quinolin-6-one]-Induced Hypothermia (full - 2002) [http://jpet.aspetjournals.org/content/301/3/963.full]

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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]

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]

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Inhibition of tumor angiogenesis by cannabinoids   (full - 2003)  
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Effect of WIN 55212–2, a Cannabinoid Receptor Agonist, on Aqueous Humor Dynamics in Monkeys   (link to PDF - 2003)  
http://archophth.ama-assn.org/cgi/content/full/121/1/87?maxtoshow=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=640&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=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT

Immunoregulation of a viral model of multiple sclerosis using the synthetic cannabinoid R(+)-WIN55,212   (full - 2003)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC152941/?tool=pmcentrez

Cannabinoid receptor type 1 modulates excitatory and inhibitory neurotransmission in mouse colon   (full – 2003)  
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The effect of WIN 55,212-2, a cannabinoid agonist, on tactile allodynia in diabetic rats.   (abst – 2004)  

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

Enhancing Cannabinoid Neurotransmission Augments the Extinction of Conditioned Fear   (full - 2005)  
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Effects of cannabinoids on colonic muscle contractility and tension in guinea pigs.   (full – 2005)  
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The cannabinoid receptor agonist WIN 55212-2 inhibits neurogenic inflammations in airway tissues.   (full – 2005)  
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Systemic administration of WIN 55,212-2 increases norepinephrine release in the rat frontal cortex   (abst - 2005)  
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Increasing cannabinoid levels by pharmacological and genetic manipulation delay disease progression in SOD1 mice    (full - 2006)    http://www.fasebj.org/cgi/content/full/20/7/1003


Effects of a Cannabinoid Agonist on Spinal Nociceptive Neurons in a Rodent Model of Neuropathic Pain    (full - 2006)    http://jn.physiology.org/cgi/content/full/96/6/2984

The Endocannabinoid System Controls Key Epileptogenic Circuits in the Hippocampus    (full - 2006)    http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1769341/?tool=pmcentrez

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

Activation of the Cannabinoid Type-1 Receptor Mediates the Anticonvulsant Properties of Cannabinoids in the Hippocampal Neuronal Culture Models of Acquired Epilepsy and Status Epilepticus    (full - 2006)    http://jpet.aspetjournals.org/content/317/3/1072.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT#ref-list-1

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


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Continuous infusion of the cannabinoid WIN 55,212–2 to the site of a peripheral nerve injury reduces mechanical and cold hypersensitivity (full - 2007)  
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Cardiovascular effects of cannabinoids in conscious spontaneously hypertensive rats (full - 2007)  
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Cross-sensitization and cross-tolerance between exogenous cannabinoid antinociception and endocannabinoid-mediated stress-induced analgesia (full - 2007)  
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Anti-dyskinetic effects of cannabinoids in a rat model of Parkinson's disease: role of CB1 and TRPV1 receptors (full - 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2128772/?tool=pmcentrez

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Attenuation of Experimental Autoimmune Hepatitis by Exogenous and Endogenous Cannabinoids: Involvement of Regulatory T Cells  (full - 2008)  
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Cannabinoid 2 receptor induction by IL-12 and its potential as a therapeutic target for the treatment of anaplastic thyroid carcinoma.  (abst - 2008)  
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Cannabinoid receptor agonists inhibit growth and metastasis of breast cancer  (abst - 2008)  
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Scientists are High on Idea that Cannabis Reduces Memory Impairment  (news - 2008)  

Could Marijuana Substance Help Prevent Or Delay Memory Impairment In The Aging Brain?  (news - 2008)  

WIN55,212-2, a Cannabinoid Receptor Agonist, Protects Against Nigrostriatal Cell Loss in the MPTP Mouse Model of Parkinson’s Disease  (full - 2009)  
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Cannabinoid-1 (CB1) receptors regulate colonic propulsion by acting at motor neurons within the ascending motor pathways in mouse colon (full - 2009)  
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The CB1/CB2 receptor agonist WIN-55,212-2 reduces viability of human Kaposi’s sarcoma cells in vitro (full - 2009)  
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A synthetic cannabinoid agonist promotes oligodendrogliogenesis during viral encephalitis in rats (full – 2010)  
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Rimonabant-induced Delta9-tetrahydrocannabinol withdrawal in rhesus monkeys: discriminative stimulus effects and other withdrawal signs. (abst – 2010)  
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The cannabinoid WIN55212-2 promotes neural repair after neonatal hypoxia-ischemia. (abst - 2010)  

The cannabinoid WIN55, 212-2 abrogates dermal fibrosis in scleroderma bleomycin model. (abst - 2010)  

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Cannabinoid applications in glaucoma.  (abst – 2011)
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Effect of ion pairing on in vitro transcorneal permeability of a Δ(9)-tetrahydrocannabinol prodrug: Potential in glaucoma therapy.  (abst – 2011)

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Identification of the synthetic cannabinoid R(+)-WIN55,212-2 as a novel regulator of IFN regulatory factor 3 (IRF3) activation and IFN-{beta} expression: relevance to therapeutic effects in models of multiple sclerosis.  (abst – 2011)


Synthetic cannabinoid WIN 55,212-2 mesylate enhances the protective action of four classical antiepileptic drugs against maximal electroshock-induced seizures in mice.  (abst – 2011)
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The antimitogenic effect of the cannabinoid receptor agonist WIN55212-2 on human melanoma cells is mediated by the membrane lipid raft.  (abst – 2011)

Effects of Cannabinoid Agonists on Sheep Sphincter of Oddi in vitro.  (abst – 2011)


Δ(9)-THC and WIN55,212-2 affect brain tissue levels of excitatory amino acids in a phenotype-, compound-, dose-, and region-specific manner (abst – 2011)
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Unbalance of CB1 receptors expressed in GABAergic and glutamatergic neurons in a transgenic mouse model of Huntington's disease. (abst – 2011)

Reduced alcohol intake and reward associated with impaired endocannabinoid signaling in mice with a deletion of the glutamate transporter GLAST. (full – 2012)


Contrasting effects of different cannabinoid receptor ligands on mouse ingestive behavior (abst – 2012)
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The synthetic cannabinoid R(+)WIN55,212-2 augments interferon-β expression via peroxisome proliferator-activated receptor-α (full – 2012) http://www.jbc.org/content/early/2012/05/31/jbc.M112.371757.full.pdf+html

Angiotensin II induces vascular endocannabinoid release, which attenuates its vasoconstrictor effect via CB1 cannabinoid receptors. (full – 2012) http://www.jbc.org/content/early/2012/07/11/jbc.M112.346296.full.pdf+html

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Inverse relationship of cannabimimetic (R+)WIN 55, 212 on behavior and seizure threshold during the juvenile period. (abst – 2012)  

The Cannabinoid WIN 55212-2 Mitigates Apoptosis and Mitochondrial Dysfunction After Hypoxia Ischemia. (abst – 2012)  

Tolerance to cannabinoid-induced behaviors in mice treated chronically with ethanol. (abst – 2012)  

Cannabinoids and muscular pain. Effectiveness of the local administration in rat. (abst – 2012)  

Cannabinoids ameliorate disease progression in a model of multiple sclerosis in mice, acting preferentially through CB(1) receptor-mediated anti-inflammatory effects. (abst - 2012)  

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Vascular metabolism of anandamide to arachidonic acid affects myogenic constriction in response to intraluminal pressure elevation. (abst – 2012)  

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WITHDRAWAL SYNDROME

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The FAAH inhibitor URB-597 ameliorates cannabinoid withdrawal in mice   (abst - 2008)  http://www.fasebj.org/cgi/content/meeting_abstract/22/1_MeetingAbstracts/711.6?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=720&resourcetype=HWCIT


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Actions of delta-9-tetrahydrocannabinol in cannabis   (full - 2009)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2731700/?tool=pmcentrez


WOUNDS/ INJURIES


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YOUNG ADULTS - see CHILDREN/ YOUNG ADULTS