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-arachidonoylglycerol ether (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


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


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


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_behaviour


Protective effect of cannabinoid CB1 receptor activation against altered intrinsic repetitive firing properties induced by Aβ neurotoxicity. (abst – 2012)  

CB1 cannabinoid receptor activation rescues amyloid β-induced alterations in behaviour and intrinsic electrophysiological properties of rat hippocampal CA1 pyramidal neurones. (abst – 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)  

Contrasting protective effects of cannabinoids against oxidative stress and amyloid-β evoked neurotoxicity in vitro. (abst – 2012)  

Cannabinoids and muscular pain. Effectiveness of the local administration in rat. (abst – 2012)  

Revisiting CB1 Receptor as Drug Target in Human Melanoma. (abst – 2012)  

Photoperiodic Changes in Endocannabinoid Levels and Energetic Responses to Altered Signalling at CB1 Receptors in Siberian Hamsters (abst – 2012)  

Effect of ACEA-a selective cannabinoid CB1 receptor agonist on the protective action of different antiepileptic drugs in the mouse pentylenetetrazole-induced seizure model. (abst – 2012)  

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_._because__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/annviewer.asp?a=319

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

Bidirectional regulation of novelty-induced behavioral inhibition by the endocannabinoid system.  (abst – 2009)  

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)  

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

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

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)
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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)
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Lack of behavioral sensitization after repeated exposure to THC in mice and comparison to methamphetamine  (full - 2007)
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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)
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Calling B.S. on the Idea of ‘Marijuana Addiction’  (news – 2008)
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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)  
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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)  
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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)  
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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)  
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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)  
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2-Arachidonoylglycerol: A Possible Endogenous Cannabinoid Receptor Ligand in Brain  
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A Second Endogenous Cannabinoid That Modulates Long-term Potentiation.  
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Brain Chemicals Mimic Marijuana  (news - 1997)  
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2-Arachidonoyl-glycerol as an "endocannabinoid": limelight for a formerly neglected metabolite.  
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Evidence That the Cannabinoid CB1 Receptor Is a 2-Arachidonoylglycerol Receptor  
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Endocannabinoids control spasticity in a multiple sclerosis model  
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Cardiovascular effects of endocannabinoids--the plot thickens.  
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Endogenous cannabinoids and appetite.  
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Despite substantial degradation, 2-arachidonoylglycerol is a potent full efficacy agonist mediating CB(1) receptor-dependent G-protein activation in rat cerebellar membranes. (full – 2001) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572991/?tool=pubmed

Endogenous cannabinoids mediate hypotension after experimental myocardial infarction (full - 2001) http://content.onlinejacc.org/cgi/content/full/38/7/2048?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=560&resourcetype=HWCIT

Inhibition of Rat C6 Glioma Cell Proliferation by Endogenous and Synthetic Cannabinoids. Relative Involvement of Cannabinoid and Vanilloid Receptors (full - 2001) http://jpet.aspetjournals.org/content/299/3/951.full

Cannabinoid CB1-receptor mediated regulation of gastrointestinal motility in mice in a model of intestinal inflammation (full - 2001) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572987/?tool=pmcentrez

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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=750cba66-d3d1-484d-96e8-04975ba34325


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The potent emetogenic effects of the endocannabinoid, 2-AG (2-arachidonoylglycerol) are blocked by delta(9)-tetrahydrocannabinol and other cannabinoids. (full – 2002) http://jpet.aspetjournals.org/content/300/1/34.long

Comparison of the enzymatic stability and intraocular pressure effects of 2-arachidonoylglycerol and noladin ether, a novel putative endocannabinoid. (full – 2002) http://www.iovs.org/content/43/10/3216.full

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Endocannabinoids protect the rat isolated heart against ischaemia  (full - 2003)  
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New perspectives in the studies on endocannabinoid and cannabis: 2-arachidonoylglycerol as a possible novel mediator of inflammation  (full - 2004)  
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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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Opposing Actions of Endocannabinoids on Cholangiocarcinoma Growth: RECRUITMENT OF Fas AND Fas LIGAND TO LIPID RAFTS  (full – 2007)  http://www.jbc.org/content/282/17/13098.full

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

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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

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

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

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

Anxiolytic-like properties of the anandamide transport inhibitor AM404. (full – 2006)
http://www.nature.com/npp/journal/v31/n12/full/1301061a.html

Δ9-Tetrahydrocannabinol (THC) and AM 404 protect against cerebral ischaemia in gerbils through a mechanism involving cannabinoid and opioid receptors (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189998/?tool=pmcentrez

Pharmacological elevation of anandamide impairs short-term memory by altering the neurophysiology in the hippocampus. (abst – 2011)

The anandamide transport inhibitor AM404 reduces the rewarding effects of nicotine and nicotine-induced dopamine elevations in the nucleus accumbens shell in rats (abst – 2011)
http://www.unboundmedicine.com/medline/ebm/record/21557729/abstract/The_anandamide_transport_inhibitor_AM404_reduces_the_rewarding_effects_of_nicotine_and_nicotine_induced_dopamine_elevations_in_the_nucleus_accumbens_shell_in_rats

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

A nonsynonymous polymorphism in cannabinoid CB2 receptor gene is associated with eating disorders in humans and food intake is modified in mice by its ligands. (abst – 2010)  

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

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

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)  

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

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

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

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)  

AM1241, a cannabinoid CB2 receptor selective compound, delays disease progression in a mouse model of amyotrophic lateral sclerosis. (abst - 2006)  

 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)  


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

Cannabinoid CB2 receptor agonist activity in the hindpaw incision model of postoperative pain. (abst - 2005)  

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

Self-medication of a cannabinoid CB(2) agonist in an animal model of neuropathic pain.  
(abst – 2011)  

Regulation of hematopoietic stem cell trafficking and mobilization by the endocannabinoid system.  
(abst – 2011)  

Cannabinoid receptor 2 and its agonists mediate hematopoiesis and hematopoietic stem and progenitor cell mobilization.  
(abst – 2011)  

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

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

Therapeutic modulation of cannabinoid lipid signaling: Metabolic profiling of a novel antinociceptive cannabinoid-2 receptor agonist.  
(abst – 2012)  

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

AM-1346 - synthetic, CB1 agonist

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

Marijuana-like Chemical Can Restore Sperm Function Lost to Tobacco Abuse  
(news - 2006)  
http://www.rxpgnews.com/specialtopics/article_5093.shtml

Cannabis-based boost for smokers' suffering sperm  
(news - 2006)  
(may need registration)  
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&RESULTFORMATT=&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&RESULTFORMATT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourcetype=HWCIT

The neutral cannabinoid CB₃ 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  (abst - 1974)  
http://archpsyc.ama-assn.org/cgi/content/abstract/31/5/713?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

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


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

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

Rimonabant eliminates responsiveness to workload changes in a time-constrained food-reinforced progressive ratio procedure in rats.  (abst – 2012)  
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


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

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


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

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

Anandamide 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&RESULTFORMATT=&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, 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 cannabinoiids and appetite. (abst – 2000)
Anandamide and diet: inclusion of dietary arachidonate and docosahexaenoate leads to increased brain levels of the corresponding N-acyl ethanolamines 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://cardiovascres.oxfordjournals.org/content/55/3/619.full?sid=750c8a6-63d1-484d-96e8-04975b0a34325

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/11465574.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


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


Estrogen stimulates arachidonoylethanolamide release from human endothelial cells and platelet activation (full – 2002)  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

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

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


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

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-afaa05ee417c

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

Cannabis and the brain.  (full - 2003)  
http://brain.oxfordjournals.org/cgi/content/full/126/6/1252

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

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


Inhibition of C6 glioma cell proliferation by anandamide, 1-arachidonoylglycerol, and by a water soluble phosphate ester of anandamide: variability in response and involvement of arachidonic acid.  (abst – 2003)  
Therapeutic potential of cannabinoids in CNS disease. (abst - 2003)


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http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574255/?tool=pmcentrez

Endocannabinoids: Getting the message across (full - 2004)
http://www.pnas.org/content/101/23/8512.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabin&searchid=1&FIRSTINDEX=2880&resourcetype=HWCIT

Endocannabinoids and Their Implications for Epilepsy (full - 2004)

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

http://jcem.endojournals.org/cgi/content/full/89/11/5482?ijkey=5e8ec5690352ba9f6b990355b2ed69b1d2e58a5b

Arachidonyl ethanolamide induces apoptosis of uterine cervix cancer cells via aberrantly expressed vanilloid receptor-1 (full - 2004)
http://science.iowamedicalmarijuana.org/pdfs/cancer/Contassot%202004.pdf
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

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CANCER - BONE


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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/


Alteration of endocannabinoid system in human gliomas. (abst – 2012)  

CANNABIDIOL INHIBITS ANGIogenesis BY MULTIPLE MECHANISMS  

CANCER - HEAD AND NECK

Marijuana Unlikely to Cause Head, Neck, or Lung Cancer  

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

Marijuana May Reduce Risk of Certain Cancers, Study Says  
(news - 2009) http://www.drugfree.org/uncategorized/marijuana-may-reduce-risk-of

CANCER - KAPOSI'S SARCOMA

THC inhibits lytic replication of gamma oncogenic herpes viruses in vitro  
(full - 2004) http://www.pubmedcentral.nih.gov/pmc/articles/PMC1801884/

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

173
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/


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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_contrasting_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

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


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)  http://www.alternet.org/drugs/142271/smoking_marijuana_does_not_cause_lung_cancer/?page=entire


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


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)
{Delta}-9 Tetrahydrocannabinol inhibits growth and metastasis of lung cancer. (abst - 2007) 

Marijuana Cuts Lung Cancer Tumor Growth In Half, Study Shows (news – 2007)  

Pot's Active Ingredient Halts Lung Cancer Growth, Study Says (news - 2007) 

Marijuana Ingredients Slow Invasion by Cervical and Lung Cancer Cells (news - 2007) 

Marijuana Helps to Combat Lung Cancer (news – 2007) 

Marijuana May Fight Lung Tumors (news - 2007) 

Cannabis as a possible treatment for lung cancer (news - 2007) 

Marijuana Beneficial in Fighting Lung Tumors, Study (news – 2007) 

Inhibition of Cancer Cell Invasion by Cannabinoids via Increased Expression of Tissue Inhibitor of Matrix Metalloproteinases-1 (full - 2008) 

Doubts about the role of cannabis in causing lung cancer. (letter - 2008) 

Delta9-Tetrahydrocannabinol inhibits epithelial growth factor-induced lung cancer cell migration in vitro as well as its growth and metastasis in vivo. (abst – 2008) 

Decrease of plasminogen activator inhibitor-1 may contribute to the anti-invasive action of cannabidiol on human lung cancer cells. (abst - 2010) 

Cannabidiol inhibits cancer cell invasion via upregulation of tissue inhibitor of matrix metalloproteinases-1. (abst - 2010)
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

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

Anti-proliferative and Anti-angiogenic Effects of CB2R Agonist (JWH-133) in Non-small Lung Cancer Cells (A549) and Human Umbilical Vein Endothelial Cells: an in Vitro Investigation. (abst – 2012)  

CANCER - LYMPHOMA

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

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

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

Lymphoma may be slowed by cannabis  
(news - 2002)  

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

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

Cannabinoid receptor ligands mediate growth inhibition and cell death in mantle cell lymphoma.  
(abst - 2005)  

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

179

Medical Marijuana Use and Research Leukemia & Lymphoma Society Statement  

Expression of cannabinoid receptors type 1 and type 2 in non-Hodgkin lymphoma: growth inhibition by receptor activation.  

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

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

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WIN55,212-2 induces cytoplasmic vacuolation in apoptosis-resistant MCL cells.  

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**CANCER - MELANOMA**

Intractable nausea and vomiting due to gastrointestinal mucosal metastases  

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

Dronabinol for supportive therapy in patients with malignant melanoma and liver metastases.  

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

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


**CANCER - NEUROBLASTOMA**


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


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

Concomitant consumption of marijuana, alcohol and tobacco in oral squamous cell carcinoma development and progression: Recent advances and challenges. (abst – 2012)  

**CANCER - OVARIAN**

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

The putative cannabinoid receptor GPR55 defines a novel autocrine loop in cancer cell proliferation. (abst – 2011)  

**CANCER - PANCREATIC**

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

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

Cannabinoid derivatives induce cell death in pancreatic MIA PaCa-2 cells via a receptor-independent mechanism.  (abst – 2006)  

Cannabinoids Halt Pancreatic Cancer, Breast Cancer Growth, Studies Say  (news - 2006)  

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

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

Distinctive pattern of cannabinoid receptor type II (CB2) expression in adult and pediatric brain tumors.  
(abst – 2007)  

Father: Medical marijuana eased pain of my cancer-battling son  
(anecdotal – 2011)  

**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?jikey=951f5f9d238bdf059cf30ee2be3a5a31aaf2b094


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=&hit=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+cancer+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  

Active cannabis chemicals halt prostate cancer cell growth  

Cannabis may apparently stop prostate cancer growth  

Medical Marijuana and Cancer, Prostate  

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

The endocannabinoid system and cancer: therapeutic implication  

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

The endocannabinoid system in prostate cancer.  

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

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

Induction of apoptosis by cannabinoids in prostate and colon cancer cells is phosphatase dependent.  

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


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


**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.  (abst – 2012)  

Cannabis Oil Shrinks “One Of The Worst” Cancers  (news – infomercial – 2012)  
(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 metastasis1 (full - 2003) http://www.fasebj.org/cgi/reprint/17/12/1771

A new strategy to block tumor growth by inhibiting endocannabinoid inactivation. (full – 2006) http://www.fasebj.org/content/early/2004/10/02/fj.04-1754fje.long

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

Cannabinoid 2 receptor induction by IL-12 and its potential as a therapeutic target for the treatment of anaplastic thyroid carcinoma. (abst - 2008)
http://www.unboundmedicine.com/medline/ebm/record/18197164/full_citation/Cannabinoid_2_receptor_induction_by_IL_12_and_its_potential_as_a_therapeutic_target_for_the_treatment_of_anaplastic_thyroid_carcinoma

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

CANCER - VARIOUS/ UNNAMED

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

Analgescic 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

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


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


Toxicity and Carcinogenicity of {Delta}9-Tetrahydrocannabinol in Fischer Rats and B6C3F1 Mice  
http://toxsci.oxfordjournals.org/cgi/content/abstract/30/1/109?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT

Study: THC Not Cancer-Causing  
http://www.ukcia.org/research/cancer.php

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CBR - CB1 CANNABINOID RECEPTOR

-activated by THC, Anandamide, synthetics

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Effects of a Selective Cannabinoid CB2 Agonist and Antagonist on Intravenous Nicotine Self Administration and Reinstatement of Nicotine Seeking.  (full – 2012)  
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Selective small-molecule agonists of G protein-coupled receptor 40 promote glucose-dependent insulin secretion and reduce blood glucose in mice.  (full – 2008)
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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)


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

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Receptors for acylethanolamides-GPR55 and GPR119. (full – 2009)  
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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

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

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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


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The endogenous cannabinoid system protects against colonic inflammation (full - 2004) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC385396/?tool=pmcentre


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

The synthetic cannabinoid HU210 induces spatial memory deficits and suppresses hippocampal firing rate in rats (full – 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2013991/


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Increased brain metabolism after acute administration of the synthetic cannabinoid HU210: A small animal PET imaging study with (18)F-FDG.  (abst – 2011)  

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Long-term use of HU210 adversely affects spermatogenesis in rats by modulating the endocannabinoid system.  (abst – 2012)  

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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)  

The spice in France: mixed herbs containing synthetic cannabinoids.  (abst – 2012)  

Analgesic effects of cannabinoids on central pain syndrome  (abst – 2012)  

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

A nonpsychotropic cannabinoid, HU-211, has cerebroprotective effects after closed head injury in the rat.  (abst – 1993)  

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

45Ca accumulation in rat brain after closed head injury; attenuation by the novel neuroprotective agent HU-211.  (abst – 1995)  

Development of HU-211 as a neuroprotectant for ischemic brain damage.  (abst – 1995)  

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HU-211, a nonpsychotropic cannabinoid, produces short- and long-term neuroprotection after optic nerve axotomy.  (abst – 1996)  

Protection Against Septic Shock and Suppression of Tumor Necrosis Factor α and Nitric Oxide Production by Dexanabinol (HU-211), a Nonpsychotropic Cannabinoid  
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Cytokine production in the brain following closed head injury: dexanabinol (HU-211) is a novel TNF-alpha inhibitor and an effective neuroprotectant.  (abst – 1997)  

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

Dexanabinol: dexanabinone, HU 211, PA 50211, PRS 211007, sinnabidol. (abst - 2003)  

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

HU-308: a specific agonist for CB(2), a peripheral cannabinoid receptor. (full - 1999)  
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Non-psychoactive CB2 cannabinoid agonists stimulate neural progenitor proliferation (full - 2005)  
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Peripheral cannabinoid receptor, CB2, regulates bone mass  (full - 2005)  
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Cannabinoid CB2 receptor agonist activity in the hindpaw incision model of postoperative pain.  (abst - 2005)  

Activation of CB2 receptor attenuates bone loss in osteoporosis  (news - 2006)  

Non-psychoactive CB2 cannabinoid agonists stimulate neural progenitor proliferation (full – 2006)  
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Cannabinoid-2 receptor agonist HU-308 protects against hepatic ischemia/reperfusion injury by attenuating oxidative stress, inflammatory response, and apoptosis (full - 2007)  
http://www.jleukbio.org/cgi/content/full/82/6/1382

Endocannabinoids, cannabinoid receptors and inflammatory stress: an interview with Dr. Pál Pacher (interview - 2007)  
http://www.jleukbio.org/cgi/content/full/82/6/1390?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=880&resourcetype=HWCT

Regulation of Bone Mass, Osteoclast Function, and Ovariectomy-Induced Bone Loss by the Type 2 Cannabinoid Receptor (full - 2008)  
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CB2 Cannabinoid Receptors Promote Neural Progenitor Cell Proliferation via mTORC1 Signaling (abst – 2011)  
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Cannabinoid-2 Receptor Activation Protects against Infarct and Ischemia/Reperfusion Heart Injury. (abst – 2011)  

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

**HU-310**

The cannabinoids R(-)-7-hydroxy-delta-6-tetra-hydrocannabinol-dimethylheptyl (HU-210), 2-O-arachidonylglycerylether (HU-310) and arachidonyl-2-chloroethylamide (ACEA) increase isoflurane provoked sleep duration by activation of cannabinoids 1 (CB1)-receptors in mice. (abst – 2002)  
**HU-320** - synthetic

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. (full - 2006)  
[http://molpharm.aspetjournals.org/content/70/1/51.long](http://molpharm.aspetjournals.org/content/70/1/51.long)

A Cannabinoid Anticancer Quinone, HU-331, Is More Potent and Less Cardiotoxic Than Doxorubicin: A Comparative in Vivo Study  
(full - 2007)  
[http://jpet.aspetjournals.org/content/322/2/646.long](http://jpet.aspetjournals.org/content/322/2/646.full)

HU-331, a novel cannabinoid-based anticancer topoisomerase II inhibitor  
(full - 2007)

[http://mct.aacrjournals.org/content/6/1/173.long](http://mct.aacrjournals.org/content/6/1/173.long)

HU-331: a cannabinoid quinone, with uncommon cytotoxic properties and low toxicity.  
(abst - 2007)  

Antitumorigenic Effects of Cannabinoids beyond Apoptosis  
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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.  
(abst – 1996)  


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

Women with a variant of the CB2 gene have a three-fold higher risk of osteoporosis (news – 2006)  http://www.xagena.it/news/medicinenews_net_news/8f1bac3967e0ff70ebc09d8ca5e08633.html

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Genetic variations at the endocannabinoid type 1 receptor gene (CNR1) are associated with obesity phenotypes in men. (full – 2007)  http://jcem.endojournals.org/content/92/6/2382.long


Genetic Variations at the Endocannabinoid Type 1 Receptor Gene (CNR1) Are Associated with Obesity Phenotypes in Men (full - 2008) http://jcem.endojournals.org/cgi/content/full/92/6/2382

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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

Endocannabinoid receptor 1 gene variations increase risk for obesity and modulate body mass index in European populations (full – 2008) http://hmg.oxfordjournals.org/content/17/13/1916.long


The use and misuse of alcohol and marijuana can be traced to a common set of genes (news – 2009) http://www.eurekalert.org/pub_releases/2009-12/ace-tua121209.php

Cannabis and smoking gene links to schizophrenia ‘unfounded’ (news – 2009) http://tribes.tribe.net/depressionhelp/thread/101509b4-228a-498e-aec6-db5e2f536398

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

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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

Effects of a Commonly Occurring Genetic Polymorphism of Human CYP3A4 (I118V) on the Metabolism of Anandamide (full – 2010) http://dmd.aspetjournals.org/content/38/11/2075.full


Mutations in ABHD12 cause the neurodegenerative disease PHARC: An inborn error of endocannabinoid metabolism. (full – 2011) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2933347/?tool=pubmed](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2933347/?tool=pubmed)


Association between a cannabinoid receptor gene (CNR1) polymorphism and cannabinoid-induced alterations of the auditory event-related P300 potential. (abst – 2011) [http://www.unboundmedicine.com/medline/ebm/record/21513772/abstract/Association_between_a_cannabinoid_receptor_gene__CNR1__polymorphism_and_cannabinoid_inducedAlterations_of_the_auditory_event_related_P300_potential](http://www.unboundmedicine.com/medline/ebm/record/21513772/abstract/Association_between_a_cannabinoid_receptor_gene__CNR1__polymorphism_and_cannabinoid_inducedAlterations_of_the_auditory_event_related_P300_potential)

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Testing bidirectional effects between cannabis use and depressive symptoms: moderation by the serotonin transporter gene  (abst – 2011)  

Allele specific differences in the activity of a novel cannabinoid receptor 1 (CNR1) gene intronic enhancer in hypothalamus, dorsal root ganglia and hippocampus.  (full – 2012)  
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Cannabinoid Receptor Genotype Moderation of the Effects of Childhood Physical Abuse on Anhedonia and Depression.  (abst – 2012)  

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

G1359A polymorphism in the cannabinoid receptor-1 gene is associated with the presence of coronary artery disease in patients with type 2 diabetes.  (abst – 2012)  

Role of G1359A polymorphism of the cannabinoid receptor gene on weight loss and adipocytokines levels after two different hypocaloric diets.  (abst – 2012)  

**HUNTINGTON'S DISEASE**

Tetrahydrocannabinol potentiates reserpine-induced hypokinesia.  (abst – 1981)  

**EFFECTS OF CANNABIDIOL IN HUNTINGTON'S DISEASE**  (abst - 1986)  
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498


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508
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**JWH-073** - synthetic, CB1 & CB2 agonist

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**JWH-122** – synthetic, CB1 agonist

Analysis of 30 synthetic cannabinoids in serum by liquid chromatography-electrospray ionization tandem mass spectrometry after liquid-liquid extraction  
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Antitumorigenic Effects of Cannabinoids beyond Apoptosis   (full - 2010)  
http://jpet.aspetjournals.org/content/332/2/336.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17

Cannabinoid (JWH-133) therapy could be effective for treatment of corneal neovascularization    (link to PDF – 2010)  
http://www.doaj.org/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     (full – 2011)  
http://molpharm.aspetjournals.org/content/early/2011/02/24/mol.111.071290.long

Brain cannabinoid CB2 receptors modulate cocaine's actions in mice   (abst – 2011)  
http://www.nature.com/neuro/journal/vaop/ncurrent/full/nn.2874.html

Atheroprotection via cannabinoid receptor-2 is mediated by circulating and vascular cells in vivo.  (abst – 2011)  

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

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

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 (full – 2012)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0033961

Cannabinoid type 2 receptor activation downregulates stroke-induced classic and alternative brain macrophage/microglial activation concomitant to neuroprotection. (abst – 2012)  

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 (abst – 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/149/11/5619?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT

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

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

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

Cannabinoid Receptor 1 Blockade Ameliorates Albuminuria in Experimental Diabetic Nephropathy (full – 2010)  
http://diabetes.diabetesjournals.org/content/59/4/1046.full?sid=0bc8e3fa-5275-4b19-8acc-4ae5dfac384

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

Expression of cannabinoid receptors in human kidney. (abst – 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/
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)  
http://jpet.aspetjournals.org/content/302/1/359.long


**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](http://www.pnas.org/content/96/10/5780.long)


Increased Severity of Stroke in CB1 Cannabinoid Receptor Knock-Out Mice (full - 2002) [http://www.inaprosoc.org/cgi/content/full/22/22/9771?maxtosearch=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&resource=HWCT#Top](http://www.inaprosoc.org/cgi/content/full/22/22/9771?maxtosearch=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&resource=HWCT#Top)


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

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)  
http://www.sciencedaily.com/releases/2008/08/080801074056.htm

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

Bidirectional regulation of novelty-induced behavioral inhibition by the endocannabinoid system. (abst – 2009)  

CB2 receptor activation attenuates microcirculatory dysfunction during cerebral ischemic/reperfusion injury. (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

Impaired hippocampal glucoregulation in the cannabinoid CB(1) receptor knockout mice as revealed by an optimized in vitro experimental approach.  (abst – 2012)  

Cannabinoid modulation of midbrain urocortin 1 neurones during acute and chronic stress.  (abst – 2012)  

Cannabinoid CB1 receptor deficiency increases contextual fear memory under highly aversive conditions and long-term potentiation in vivo.  (abst – 2012)  

Age-related changes of anandamide metabolism in CB1 cannabinoid receptor knockout mice: correlation with behaviour.  (abst – 2012)  

Hypothalamic CB1 Cannabinoid Receptors Regulate Energy Balance in Mice.  (abst – 2012)  

Evidence for the Putative Cannabinoid Receptor (GPR55)-Mediated Inhibitory Effects on Intestinal Contractility in Mice.  (abst – 2012)  

Cannabinoid receptor 1 in the vagus nerve is dispensable for body weight homeostasis but required for normal gastrointestinal motility.  (abst – 2012)  

How Weed Can Protect Us From Cancer and Alzheimer's  (book excerpt – 2012)  
http://www.alternet.org/story/156269/how_weed_can_protect_us_from_cancer_and_alzheimer%27s

**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

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

Pharmacology of GPR55 in yeast and identification of GSK494581A as a mixed-activity glycine transporter subtype 1 inhibitor and GPR55 agonist.  (full – 2011)  
http://jpet.aspetjournals.org/content/337/1/236.long
Lipid bilayer molecular dynamics study of lipid-derived agonists of the putative cannabinoid receptor, GPR55. (full – 2011)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3086297/?tool=pubmed

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


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


**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
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-26f38f5e6b7


CB2 receptors as new therapeutic targets for liver diseases  (full - 2007)  
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

Cannabinoids ameliorate cerebral dysfunction following liver failure via AMP-activated protein kinase  (full - 2007)  
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

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

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

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

Cannabinoid receptors as new targets of antifibrosing strategies during chronic liver diseases.  (abst - 2007)  

Cannabinoid receptors as novel therapeutic targets for the management of non-alcoholic steatohepatitis  (full - 2008)  
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

Role of cannabinoids in chronic liver diseases  (full – 2008)  
http://www.wjgnet.com/1007-9327/full/v14/i40/6109.htm

Endocannabinoids and Liver Disease. I. Endocannabinoids and their receptors in the liver  (full – 2008)  
http://ajpgi.physiology.org/content/294/1/G9.full?sid=872637e5-97b2-4103-aa0-b3e8f6f0eb64

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-aa0-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
Endocannabinoids and Liver Disease. IV. Endocannabinoid involvement in obesity and hepatic steatosis (full - 2008) http://ajpgi.physiology.org/cgi/content/full/294/5/G1101

Endocannabinoids and Liver Disease. V. Endocannabinoids as mediators of vascular and cardiac abnormalities in cirrhosis (full – 2008) http://ajpgi.physiology.org/content/295/4/G649.full;sid=c16d770d-cd17-48c9-bbde-26f38f5eeb67

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-e797-43e0-8296-7fd75bb49403

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


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

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

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)
http://www.docstoc.com/docs/76792678/The-role-of-CB2-cannabinoid-receptor-and-Leptin-in-hepatic-

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

Effect of (-)-Delta(9)-tetrahydrocannabinoid on the hepatic redox state of mice.  (full – 2010)

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

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


Cannabidiol protects against hepatic ischemia/reperfusion injury by attenuating inflammatory signaling and response, oxidative/nitrative stress, and cell death.  (abst – 2011)  

Δ(8) -Tetrahydrocannabivarin protects against hepatic ischemia/reperfusion injury by attenuating oxidative stress and inflammatory response involving CB(2) receptors.  (abst – 2011)  http://www.ncbi.nlm.nih.gov/pubmed/21470208

Hyperactivation of anandamide synthesis and regulation of cell-cycle progression via cannabinoid type 1 (CB1) receptors in the regenerating liver.  (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21383171/abstract/Hyperactivation_of_anandamide_synthesis_and_regulation_of_cell_cycle_progression_via_cannabinoid_type_1_CB1_receptors_in_the_regenerating_liver


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


Δ(8) -Tetrahydrocannabivarin prevents hepatic ischaemia/reperfusion injury by decreasing oxidative stress and inflammatory responses through cannabinoid CB(2) receptors.  (abst – 2012)  http://www.ncbi.nlm.nih.gov/pubmed/21470208

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)  


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&searchid=1&FIRSTINDEX=2880&resourcetype=HWCIT


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_polynarcotism5D

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)  

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Initial experiences with medicinal extracts of cannabis for chronic pain: Results from 34 ‘N of 1’ studies  (full - 2004)  
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Experimental autoimmune encephalomyelitis disrupts endocannabinoid-mediated neuroprotection  
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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


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Pot shows promise for reducing multiple sclerosis patients' symptoms (news - 2009)
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Marijuana Chemicals Ease MS Symptoms, Review Confirms (news - 2009)
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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)
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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
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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!  
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Emerging treatment options for spasticity in multiple sclerosis; clinical utility of cannabinoids  
(link to PDF – 2011)  
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Acute and chronic cannabinoid extracts administration affects motor function in a CREAЕ model of multiple sclerosis.  
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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)  
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Treating pain in multiple sclerosis.  (abst – 2011)  

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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)  

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Cannabinoid receptor 2 agonists inhibit migration of activated dendritic cells via modulation of MMP-9  (abst – 2012)  
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**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)
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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

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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

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A multi-institutional Phase III study of nabilone vs. placebo in chemotherapy-induced nausea and vomiting. (abst - 1982)
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Anti-emetic efficacy and toxicity of nabilone, a synthetic cannabinoid, in lung cancer chemotherapy. (full - 1983)
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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 (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=HWCTT

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The effects of the cannabinoid receptor agonist nabilone on L-DOPA induced dyskinesia in patients with idiopathic Parkinson's disease (PD). (abst - 1998)
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Analgesic effect of the cannabinoid analogue nabilone is not mediated by opioid receptors. (excerpt - 1999)
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Nabilone Could Treat Chorea and Irritability in Huntington’s Disease (letter - 2006)

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

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

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

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

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2nd synthetic marijuana drug OK’d for chemo effects (news – 2006)

Cesamet (nabilone) capsule (info page - 2007)


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


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Marijuana-Based Drug Reduces Fibromyalgia Pain, Study Suggests (news - 2008) http://www.sciencedaily.com/releases/2008/02/080217214547.htm


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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


CESAMET® CII (nabilone) Capsules For Oral Administration
(Archived drug label - 2010)

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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)
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**NAIL-PATELLA SYNDROME**


'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


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 double-blind randomised cross-over comparison of nabilone and metoclopramide in the control of radiation-induced nausea. (abst - 1987) [Link]

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

Efficacy of tetrahydrocannabinol in patients refractory to standard anti-emetic therapy (abst - 1988) [Link]

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) [Link]

Marijuana as antiemetic medicine: a survey of oncologists' experiences and attitudes. (abst - 1991) [Link]

Effect of nabilone on nausea and vomiting after total abdominal hysterectomy. (abst - 1994) [Link]

Effect of nabilone on nausea and vomiting (letter - 1995) [Link]

An efficient new cannabinoid antiemetic in pediatric oncology. (abst - 1995) [Link]

Patent 5605928 - Antiemetic compositions (full – 1997) [Link]

Intractable nausea and vomiting due to gastrointestinal mucosal metastases relieved by tetrahydrocannabinol (dronabinol). (abst - 1997) [Link]

Cannabinoids for control of chemotherapy induced nausea and vomiting: quantitative systematic review (full - 2001) [Link]

Therapeutic Aspects of Cannabis and Cannabinoids (full - 2001) [Link]

Delta(9)-tetrahydrocannabinol and synthetic cannabinoids prevent emesis produced by the cannabinoid CB(1) receptor antagonist/inverse agonist SR 141716A. (full – 2001) [Link]

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  

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

US Patent Application 20070049645 - Anti-nausea and anti-vomiting activity of  
cannabinoid compounds  (full – 2007)  
http://www.patentstorm.us/applications/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

Cannabinoids in the treatment of chemotherapy-induced nausea and vomiting: beyond  

Efficacy of dronabinol alone and in combination with ondansetron versus ondansetron  
alone for delayed chemotherapy-induced nausea and vomiting.  (abst - 2007)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=191

Dronabinol and marijuana in HIV-positive marijuana smokers: caloric intake, mood, and  

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)  
http://current.com/items/89174292_medicinal-marijuana-a-surprising-solution-to-severe-morning- 
sickness.htm

Medical Marijuana and Severe Nausea  (news – 2009)  
https://www.marijuandanadoctors.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)


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

How Does Marijuana Help Cancer Patients? (news – 2011)

The Positive Uses of Marijuana for Cancer Patients (news – 2011)
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Medical Marijuana: Clearing Away the Smoke (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3358713/


**NEURONS/ BRAIN CELLS**


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


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


Neurons on cannabinoids: dead or alive?  (full - 2003)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574056/?tool=pmcentrez

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


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-afaa05ee417c

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

Cannabinoid Modulation of Peripheral Autonomic and Sensory Neurotransmission.  (abst - 2003)  

Cannabinoids and neuroinflammation  (full - 2004)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574256/?tool=pmcentrez

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

Marijuana-Like Chemicals in the Brain Calm Neurons  (news - 2004)  

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

Identification and functional characterization of brainstem cannabinoid CB2 receptors.  (full - 2005)  
http://www.sciencemag.org/content/310/5746/329.full

The endocannabinoid system drives neural progenitor proliferation.  (full – 2005)  
http://www.fasebj.org/content/early/2005/09/30/fj.05-3995fje.long

Sex differences in the cannabinoid modulation of an A-type K+ current in neurons of the mammalian hypothalamus.  (full – 2005)  
http://jn.physiology.org/content/94/4/2983.long

High-dose cannabis stimulates growth of brain cells in rats  (news – 2005)  
Marijuana Promotes Neuron Growth  (news - 2005)
http://english.ohmynews.com/articleview/article_view.asp?menu=c10400&no=253377&rel_no=1

Marijuana May Spur New Brain Cells  (forum/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 May Grow Neurons in the Brain  (news - 2005)
http://www.medpagetoday.com/Psychiatry/AnxietyStress/1934

Marijuana might cause new cell growth in the brain  (may need registration)

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

Differential effect of cannabinoid agonists and endocannabinoids on histamine release from distinct regions of the rat brain.  (full – 2006)
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The synthetic cannabinoid HU210 induces spatial memory deficits and suppresses hippocampal firing rate in rats  (full – 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2013991/


The CB2 Cannabinoid Receptor Controls Myeloid Progenitor Trafficking: INVOLVEMENT IN THE PATHOGENESIS OF AN ANIMAL MODEL OF MULTIPLE SCLEROSIS  (full – 2008)
http://www.ibc.org/content/283/19/13320.full?sid=a5db98db-f96-4187-8790-57097bbe15c1#sec-3
Design Logic of a Cannabinoid Receptor Signaling Network That Triggers Neurite Outgrowth (full – 2008)
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New brain cells implicated in machinery of cannabinoid signaling (news - 2008)


Cannabinoid agonist WIN-55,212-2 partially restores neurogenesis in the aged rat brain (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3011092/?tool=pubmed

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


Effects of cannabidiol on amphetamine-induced oxidative stress generation in an animal model of mania (abst – 2009) http://jop.sagepub.com/content/25/2/274.abstract


Cyclooxygenase-2 Mediates Anandamide Metabolism in the Mouse Brain (full – 2010) http://jpet.aspetjournals.org/content/335/2/380.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17

Cannabinoids Excite Circadian Clock Neurons (full - 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2927117/?tool=pmcentrez

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

AAV vector-mediated overexpression of CB1 cannabinoid receptor in pyramidal neurons of the hippocampus protects against seizure-induced excitotoxicity. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3006205/?tool=pubmed
Sex difference in cell proliferation in developing rat amygdala mediated by endocannabinoids has implications for social behavior. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2996668/?tool=pubmed

CB1 cannabinoid receptors increase neuronal precursor proliferation through AKT/glycogen synthase kinase-3beta/beta-catenin signaling. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2843172/?tool=pubmed

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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


PP-014 Control of receptor expression in vagal afferent neurons by activation of cannabinoid 1 receptors (abst - 2010) http://gut.bmj.com/cgi/content/meeting_abstract/59/1_MeetingAbstracts/A45-a?sid=0731f0e5-2071-4549-be57-57f444307138


Delta9-tetrahydrocannabinol is a full agonist at CB1 receptors on GABA neuron axon terminals in the hippocampus. (abst – 2010) http://www.unboundmedicine.com/medline/ebm/record/20417220/abstract/Delta9_tetrahydrocannabinol_is_a_full_agonist_at_CB1_receptors_on_GABA_neuron_axon_terminals_in_the_hippocampus


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Cannabinoid receptor agonist protects cultured dopaminergic neurons from the death by the proteasomal dysfunction. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3145842/?tool=pubmed


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


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Activation of Cannabinoid Type 2 Receptors Inhibits HIV-1 Envelope Glycoprotein gp120-Induced Synapse Loss  (abst – 2011)
http://molpharm.aspetjournals.org/content/80/3/357.abstract?sid=5a0b0e4c-1879-438e-a131-8829cc6f9bcb

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Role of CB1 cannabinoid receptors on GABAergic neurons in brain aging  (full – 2012)
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Mitochondrial CB(1) receptors regulate neuronal energy metabolism.  (abst – 2012)

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


Long-lasting potentiation of hippocampal synaptic transmission by direct cortical input is mediated via endocannabinoids  (abst – 2012)
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Excitability of prefrontal cortical pyramidal neurons is modulated by activation of 98 intracellular type-2 cannabinoid receptors.  (abst – 2012)

**NEUROPATHIC PAIN**

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Cannabinoid Receptor Messenger Rna Levels Decrease in a Subset of Neurons of the Lateral Striatum, Cortex and Hippocampus of Transgenic Huntington's Disease Mice.  (abst - 2000)  

The synthetic cannabinoid WIN55,212-2 attenuates hyperalgesia and allodynia in a rat model of neuropathic pain  (full - 2001)  

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Activation of CB2 cannabinoid receptors by AM1241 inhibits experimental neuropathic pain: Pain inhibition by receptors not present in the CNS  (full - 2003)  
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Analgesic effect of the synthetic cannabinoid CT-3 on chronic neuropathic pain: a randomized controlled trial.  (full - 2003)  
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The effects of smoked cannabis in painful peripheral neuropathy and cancer pain refractory to opioids.  (abst - 2003)  
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Initial experiences with medicinal extracts of cannabis for chronic pain: Results from 34 ‘N of 1’ studies  (full - 2004)  
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Efficacy of two cannabis based medicinal extracts for relief of central neuropathic pain from brachial plexus avulsion: results of a randomised controlled trial  (full - 2004)  
http://www.ukcia.org/research/CentralNeuropathicPainEfficacy.pdf

Are oral cannabinoids safe and effective in refractory neuropathic pain?  (abst - 2004)  
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Marijuana-like compounds may aid array of debilitating conditions ranging from Parkinson's to pain  (news – 2004)  

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

Smoked cannabis therapy for HIV-related painful peripheral neuropathy: results of a randomized, placebo-controlled clinical trial.  (abst - 2005)  
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Randomized, controlled trial of cannabis-based medicine in central pain in multiple sclerosis  (abst - 2005)  
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Effects of a Cannabinoid Agonist on Spinal Nociceptive Neurons in a Rodent Model of Neuropathic Pain  (full - 2006)  
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Actions of the FAAH inhibitor URB597 in neuropathic and inflammatory chronic pain models  (full - 2006)  
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Cannabinoids In Medicine: A Review Of Their Therapeutic Potential  (full – 2006)  

CB1 receptor selective activation inhibits beta-amyloid-induced iNOS protein expression in C6 cells and subsequently blunts tau protein hyperphosphorylation in co-cultured neurons.  (abst – 2006)  

In MedPanel Summit, Leading Pain Experts Name Cannabinoids Among Most Promising Approaches to Treating Neuropathic Pain, Assert That Sociopolitical Climate Will Hamper Drug Approvals  (news - 2006)  

Endocannabinoid metabolism and uptake: novel targets for neuropathic and inflammatory pain  (full - 2007)  
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Meta-analysis of cannabis based treatments for neuropathic and multiple sclerosis-related pain.  
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Sativex successfully treats neuropathic pain characterised by allodynia: A randomised, double-blind, placebo-controlled clinical trial  
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Oromucosal delta9-tetrahydrocannabinol/cannabidiol for neuropathic pain associated with multiple sclerosis: an uncontrolled, open-label, 2-year extension trial.  
(abst – 2007)  
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The synthetic cannabinoids attenuate allodynia and hyperalgesia in a rat model of trigeminal neuropathic pain.  
(abst – 2007)  
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Cannabis in painful HIV-associated sensory neuropathy: A randomized placebo-controlled trial.  
(abst - 2007)  
(http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=199)

Study Supports Medical Marijuana Use  
(news - 2007)  
(http://www.drugfree.org/join-together/drugs/study-supports-medical)

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**NEUROPROTECTANT**

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http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=177

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**NUTRITION – GENERAL** - also see OMEGA3/ CB 1 CONNECTION, METHODS OF USE- EDIBLES

Hemp and Flax Seeds and Oil in Modern Nutrition : An Overview  (article – undated)
http://www.industrialhemp.net/pdf/Leson.HempAndFlax.pdf

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Scientists Find New Sources of Plant Cannabinoids Other than Medical Marijuana? (news – 2010)

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Hemp Protein = King of the Plant Kingdom (article - undated)
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http://news.bbc.co.uk/2/hi/health/4631006.stm

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Hemp: A replacement for common food allergens?  (news - 2009)  

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Hemp Oil Compared to Flax Oil (article – 2010) http://www.ehow.com/facts_7639247_hemp-oil-compared-flax-oil.html


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A novel CB receptor GPR55 and its ligands are involved in regulation of gut movement in rodents.  
The abnormal cannabidiol analogue O-1602 reduces nociception in a rat model of acute arthritis via the putative cannabinoid receptor GPR55.  (abst – 2011)  


**O-1966** - a synthetic, CB2 agonist

Acute effects of a selective cannabinoid-2 receptor agonist on neuroinflammation in a murine model of traumatic brain injury  (abst – 2011)  


O-2050 - a synthetic CB1 antagonist

Hypothalamic 2-arachidonoylglycerol regulates multistage process of high-fat diet preferences. (full – 2012)
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0038609

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

OBESITY

Hemp & GLA: Good Fat Burns Bad Fat (article - undated)
http://manitobaharvest.com/articles_studies/3813/Hemp-%26amp%-GLA%-A-Good-Fat-Burns-Bad-Fat-.html

Effects of smoked marijuana on food intake and body weight of humans living in a residential laboratory. (abst - 1988)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=117

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

Dietary intake and nutritional status of US adult marijuana users: results from the Third National Health and Nutrition Examination Survey. (full – 2001)
http://journals.cambridge.org/action/displayFulltext?type=6&fid=626876&jid=PHN&volumeid=4&issueId =03&aid=562676&bodyId=&membershipNumber=&societyETOCSession=&fulltextType=RA&fileId=S1 368980001000738

Marijuana "Munchies" May Hold a Key to Obesity (news - 2001)
http://www.webmd.com/news/20010411/marijuana-munchies-may-hold-key-to-obesity

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 and the regulation of body fat: the smoke is clearing (full - 2003)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC166302/?tool=pmcentrez


CB1 cannabinoid receptor knockout in mice leads to leanness, resistance to diet-induced obesity and enhanced leptin sensitivity (full - 2004)
http://www.nature.com/jio/journal/v28/n4/full/0802583a.html
Activation of the Peripheral Endocannabinoid System in Human Obesity  (full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228268/?tool=pmcentrez

Endocannabinoid activation at hepatic CB1 receptors stimulates fatty acid synthesis and contributes to diet-induced obesity   (full - 2005)  
http://www.jci.org/articles/view/23057/version/1

Food for thought: endocannabinoid modulation of lipogenesis   (full - 2005)  
http://www.jci.org/articles/view/25076/version/1

Endocannabinoids and food intake: newborn suckling and appetite regulation in adulthood.   (full - 2005)  
http://ebm.rsmjournals.com/cgi/content/full/230/4/225

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

Endocannabinoids in the Regulation of Appetite and Body Weight.   (abst - 2005)  

Dysregulation of the Peripheral and Adipose Tissue Endocannabinoid System in Human Abdominal Obesity   (full – 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228260/?tool=pmcentrez

Regulation, Function, and Dysregulation of Endocannabinoids in Models of Adipose and β-Pancreatic Cells and in Obesity and Hyperglycemia   (full - 2006)  
http://jcem.endojournals.org/cgi/content/full/91/8/3171?ijkey=83a68cef202eafe129332eda53eee8eb61349982

AM 251 produces sustained reductions in food intake and body weight that are resistant to tolerance and conditioned taste aversion   (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1615836/?tool=pmcentrez

Weight Control in Individuals With Diabetes   (full - 2006)  
http://care.diabetesjournals.org/content/29/12/2749.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=2000&resourcetype=HWCIT

The emerging role of the endocannabinoid system in endocrine regulation and energy balance.   (full - 2006)  
http://edrv.endojournals.org/cgi/content/full/27/1/73

Does Cannabis Hold the Key to Treating Cardiometabolic Disease   (full - 2006)  

Human adipose tissue binds and metabolizes the endocannabinoids anandamide and 2-arachidonoylglycerol.   (abst – 2006)  

Identification of Endocannabinoids and Related Compounds in Human Fat Cells   (full - 2007)  
http://www.nature.com/oby/journal/v15/n4/full/oby2007100a.html
Genetic variations at the endocannabinoid type 1 receptor gene (CNR1) are associated with obesity phenotypes in men. (full – 2007)
http://jcem.endojournals.org/content/92/6/2382.long

The endogenous cannabinoid system: a new player in the brain-gut-adipose axis (full - 2007)

No evidence for an involvement of variants in the cannabinoid receptor gene (CNR1) in obesity in German children and adolescents. (abst – 2007)

Endocannabinoid receptor 1 gene variations increase risk for obesity and modulate body mass index in European populations (full – 2008)
http://hmg.oxfordjournals.org/content/17/13/1916.long

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

Activating Parabrachial Cannabinoid CB1 Receptors Selectively Stimulates Feeding of Palatable Foods in Rats (full - 2008)
http://www.jneurosci.org/cgi/content/full/28/39/9702?maxtoshow=&bits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

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

Targeted enhancement of oleoylethanolamide production in proximal small intestine induces across-meal satiety in rats. (full – 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2494809/?tool=pubmed

Endocannabinoids and the Control of Energy Homeostasis (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2586261/?tool=pmcentrez

The lipid messenger OEA links dietary fat intake to satiety. (full – 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2572640/?tool=pubmed

The Role of Adipocyte Insulin Resistance in the Pathogenesis of Obesity-Related Elevations in Endocannabinoids (full – 2008)
http://diabetes.diabetesjournals.org/content/57/5/1262.full?sid=00769f3d-54ab-451b-b69e-4650931c5e25

Genetic Variations at the Endocannabinoid Type 1 Receptor Gene (CNR1) Are Associated with Obesity Phenotypes in Men (full - 2008)
http://jcem.endojournals.org/cgi/content/full/92/6/2382

Endocannabinoid dysregulation in the pancreas and adipose tissue of mice fed with a high-fat diet. (full - 2008) http://www.nature.com/oby/journal/v16/n3/full/oby2007106a.html

Endocannabinoids and the Control of Energy Homeostasis (full – 2008) http://www.jbc.org/content/283/48/33021.full?sid=931583b1-e797-43e0-8296-7fd75bb49403


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

Peripheral endocannabinoid dysregulation in obesity: relation to intestinal motility and energy processing induced by food deprivation and re-feeding. (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2757684/?tool=pubmed

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

Biomarkers of Endocannabinoid System Activation in Severe Obesity (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2808340/?tool=pubmed

The endocannabinoid system and diabetes - critical analyses of studies conducted with rimonabant (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2770455/?tool=pmcentrez

Cannabinoids for clinicians: the rise and fall of the cannabinoid antagonists (full - 2009) http://www.eje-online.org/cgi/content/full/161/5/655?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT

Endocannabinoids and Their Receptors as Targets for Obesity Therapy (full - 2009) http://endo.endojournals.org/cgi/content/full/150/6/2531#top

Endocannabinoids and cardiovascular prevention: real progress?  (abst - 2009)  
http://www.pagepress.org/journals/index.php/hi/article/view/1162


Endogenous cannabinoid signalling and energy balance  (abst – 2009)  

Natural Pot-Like Compound Could Fight Obesity  (news - 2009)  
http://www.scientificamerican.com/podcast/episode.cfm?id=natural-pot-like-compound-could-fig-09-12-29

Alterations in the hippocampal endocannabinoid system in diet-induced obese mice.  (full – 2010)  
http://www.jneurosci.org/content/30/18/6273.long

Differential alterations of the concentrations of endocannabinoids and related lipids in the subcutaneous adipose tissue of obese diabetic patients  (full - 2010)  
http://www.lipidworld.com/content/9/1/43

Expression of cannabinoid CB1 receptors by vagal afferent neurons: kinetics and role in influencing neurochemical phenotype  (full – 2010)  
http://ajpgi.physiology.org/content/299/1/G63.full?sid=fc6948f0-78cf-405c-981b-a569e417c

The endocannabinoid system links gut microbiota to adipogenesis  (full - 2010)  
http://www.nature.com/msb/journal/v6/n1/full/msb201046.html

CD36 gene deletion decreases oleoylethanolamide levels in small intestine of free-feeding mice.  (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2846762/?tool=pubmed

A common CNR1 (cannabinoid receptor 1) haplotype attenuates the decrease in HDL cholesterol that typically accompanies weight gain.  (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3013130/?tool=pubmed

The Effects of Rimonabant on Brown Adipose Tissue in Rat: Implications for Energy Expenditure  (full - 2010)  
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

Rehashing endocannabinoid antagonists: can we selectively target the periphery to safely treat obesity and type 2 diabetes? (full – 2010)

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/

Analysis of gene expression pattern reveals potential targets of dietary oleoylethanolamide in reducing body fat gain in C3H mice. (abst – 2010)

G1359A polymorphism in the cannabinoid receptor-1 gene is associated with metabolic syndrome in the Chinese Han population. (abst – 2010)

Modulation of Adipocyte Biology by Δ9-Tetrahydrocannabinol (abst - 2010)
http://www.nature.com/oby/journal/vaop/ncurrent/abs/oby2010100a.html

Effect of dietary fat on endocannabinoids and related mediators: consequences on energy homeostasis, inflammation and mood. (abst - 2010)

Cannabis Use and Obesity and Young Adults (abst - 2010)

The endocannabinoid system modulates the valence of the emotion associated to food ingestion (abst – 2010)

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 CB1 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 (news - 2008)  

Medical Marijuana and Obsessive Compulsive Disorder (news – 2009)  
https://www.marijuanadoctors.com/content/ailments/view/49?ailment=obsessive-compulsive-disorder

Cannabidiol inhibitory effect on marble-burying behaviour: involvement of CB1 receptors. (abst - 2010)  

Plasma and brain pharmacokinetic profile of cannabidiol (CBD), cannabidivarine (CBDV), Δ(9)-tetrahydrocannabivarin (THCV) and cannabigerol (CBG) in rats and mice following oral and intraperitoneal administration and CBD action on obsessive-compulsive behaviour. (abst – 2011)  

Inhibition of endocannabinoid catabolic enzymes elicits anxiolytic-like effects in the marble burying assay. (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21145341/abstract/Inhibition_of_endocannabinoid_catabolic_enzymes_elicits_anxiolytic_like_effects_in_the_marble_burying_assay

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

Cannabidiol, a Cannabis sativa constituent, as an anxiolytic drug. (full – 2012)  

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

Endocannabinoids and nutrition. (full – 2008)  

Targeted enhancement of oleoylethanolamide production in proximal small intestine induces across-meal satiety in rats. (full – 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2494809/?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


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


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


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

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

CD36 gene deletion decreases oleoylethanolamide levels in small intestine of free-feeding mice. (full – 2010) 
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2846762/?tool=pubmed

Palmitoylethanolamide and other anandamide congeners. Proposed role in the diseased brain. (abst – 2010) 
http://www.ncbi.nlm.nih.gov/pubmed/20353771

Analysis of gene expression pattern reveals potential targets of dietary oleoylethanolamide in reducing body fat gain in C3H mice. (abst – 2010) 

Oleoylethanolamide affects food intake and sleep-waking cycle through a hypothalamic modulation. (abst – 2010) 

Circulating endocannabinoids and N-acyl-ethanolamides in patients with sleep apnea--specific role of oleoylethanolamide. (abst – 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

Sympathetic activity controls fat-induced oleoylethanolamide signaling in small intestine. (full – 2011) 
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3084524/?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

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

Anandamide and its congeners inhibit human plasma butyrylcholinesterase. Possible new roles for these endocannabinoids? (abst – 2011) 

Gut fat sensing in the negative feedback control of energy balance--recent advances. (abst – 2011) 

The cytoprotective effects of oleoylethanolamide in insulin-secreting cells do not require activation of GPR119. (full - 2012) 
Synthesis of oleoyl ethanolamide using lipase. (full – 2012)
http://pubs.acs.org/doi/full/10.1021/jf203629w

Orally administered oleoyl ethanolamide protects mice from focal cerebral ischemic injury by activating peroxisome proliferator-activated receptor α. (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


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

Nutritional omega-3 deficiency abolishes endocannabinoid-mediated neuronal functions. (abst – 2011)  

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)  

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


Exogenous lipid pneumonia related to smoking weed oil following cadaveric renal transplantation  (link to PDF - 2000)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219536/?tool=pmcentrez


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


Do cannabinoids have a therapeutic role in transplantation  (full – 2010)  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2923447/?tool=pubmed](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)  

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://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](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)  

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](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

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

Women with a variant of the CB2 gene have a three-fold higher risk of osteoporosis  
(news – 2006)  
http://www.xagena.it/news/medicinenews_net_news/8f1bac3967e0ff70ebc09d8ca5e08633.html

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PRADER WILLI SYNDROME

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Teratologic evaluation of synthetic delta 9-tetrahydrocannabinol in rabbits.

Acute effects of marihuana smoking on prolactin levels in human females.  (abst - 1985)
http://jpet.aspetjournals.org/content/232/1/220.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fullt
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caffeine on birth size and subsequent growth  (abst - 1987)

Poor and pregnant: perinatal ganja use in rural Jamaica.  (abst – 1989)

Marijuana Use in Pregnancy and Pregnancy Outcome.  (abst – 1990)

Five-year follow-up of rural Jamaican children whose mothers used marijuana during
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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Tobacco and marijuana use on offspring growth from birth through 3 years of age. (abst - 1992)

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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)
http://www.ingentaconnect.com/content/carfax/cadd/1997/00000092/00000011/art00015

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)
http://www.cannabisculture.com/articles/1422.html
Dysregulated Cannabinoid Signaling Disrupts Uterine Receptivity for Embryo Implantation  (full - 2001)  http://www.jbc.org/content/276/23/20523.full


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


Comparison of meconium and neonatal hair analysis for detection of gestational exposure to drugs of abuse  (full - 2003)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1721515/pdf/v088p00F98.pdf


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=5e8ec5690352ba9f6b990355b2ed69b1d2e58a5b


Determination of the prevalence of drug misuse by meconium analysis (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2672735/?tool=pubmed

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Parental marijuana use and risk of childhood acute myeloid leukaemia: a report from the Children's Cancer Group (United States and Canada). (abst – 2006)  

Prenatal exposure to a cannabinoid receptor agonist does not affect sensorimotor gating in rats  (abst - 2006)  

More Pregnancy Highs Than Lows (news - 2006)  

Oily fish makes 'babies brainier' (news - 2006) (hemp seed - at the end)  
http://news.bbc.co.uk/2/hi/health/4631006.stm

Dreher's Jamaican Pregnancy Study (news - 2006)  
http://www.november.org/stayinfo/breaking06/DreherStudy.html

Cannabis Relieves Morning Sickness (news/forum post - 2006)  

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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http://norml.org/index.cfm?Group_ID=8060

CB2 receptors in reproduction  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219526/

Volumetric MRI Study of Brain in Children With Intrauterine Exposure to Cocaine, Alcohol, Tobacco, and Marijuana (full - 2008)  

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)  
http://bjp.rcpsych.org/cgi/content/full/195/4/294

Localisation and Function of the Endocannabinoid System in the Human Ovary  (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2640464/?tool=pmcentrez

Marijuana/ Cannabis use in Pregnancy – Dr. Melanie Dreher  (article – 2009)  

During pregnancy, recreational drug-using women stop taking ecstasy (3,4-methylenedioxy-N-methylamphetamine) and reduce alcohol consumption, but continue to smoke tobacco and cannabis: initial findings from the Development and Infancy Study.  (abst - 2009)  

Cannabinoid/Endocannabinoid signaling impact on early pregnancy events.  (abst - 2009)  

Short communication: Urinary excretion of 11-nor-9-carboxy-Delta(9)-tetrahydrocannabinol in a pregnant woman following heavy, chronic cannabis use.  (letter - 2009)  
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CLAIM #7: MARIJUANA USE DURING PREGNANCY HARMS THE FETUS  
(news - 2009)  
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Maternal Marijuana use not Associated with Psychotic Symptoms , but Alcohol is  
(news - 2009)  

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2917192/?tool=pubmed

Cannabinoids and Reproduction: A Lasting and Intriguing History  (full – 2010)  

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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A common variation in the cannabinoid 1 receptor (CNR1) gene is associated with pre-eclampsia in the Central European population. (abst - 2010)  

Characteristics of pregnant illicit drug users and associations between cannabis use and perinatal outcome in a population-based study (abst - 2010)  

Pregnant Women Smoking Pot Could Reduce Infant Mortality (news - 2010)  
http://www.opposingviews.com/i/pregnant-women-smoking-pot-could-reduce-infant-mortality

Pregnant women turning to cannabis for morning sickness relief risk prosecution (news - 2010)  
http://stash.norml.org/pregnant-women-turning-to-cannabis-for-morning-sickness-relief-risk-prosecution

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

Sex difference in cell proliferation in developing rat amygdala mediated by endocannabinoids has implications for social behavior (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2996668/?tool=pubmed

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

PRIONS

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

Recent News: Marijuana (Cannabis) May Prevent Mad Cow Disease  (news - 2007)

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/

Alteration of the Endocannabinoid System In Mouse Brain During Prion Disease.  (abst – 2011)
http://www.unboundmedicine.com/medline/ebm/record/21195746/abstract/Alteration_of_the_Endocannabinoid_System_In_Mouse_Brain_During_Prion_Disease

PROXIMAL MYOTONIC MYOPATHY / PROMM

Marijuana for the Management of Proximal Myotonic Myopathy  (full - 2001)
http://www.jpsmjournal.com/article/S0885-3924(01)00252-4/fulltext

PRURITIS - chronic itch

Dronabinol in patients with intractable pruritus secondary to cholestatic liver disease.  (abst - 2002)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=116


Old drugs in new role: relieving chronic pruritus; Cannabinoid agonists, opioid receptor antagonists have attracted the attention of dermatologists  (news - 2005)  [http://www.thefreelibrary.com/Old+drugs+in+new+role%3a+relieving+chronic+pruritus%3b+Cannabinoid...-a0149197152](http://www.thefreelibrary.com/Old+drugs+in+new+role%3a+relieving+chronic+pruritus%3b+Cannabinoid...-a0149197152)


Neurophysiological, Neuroimmunological, and Neuroendocrine Basis of Pruritus  (full - 2006)  [http://www.nature.com/jid/journal/v126/n8/full/5700231a.html](http://www.nature.com/jid/journal/v126/n8/full/5700231a.html)


Chronic pruritus: targets, mechanisms and future therapies.  (abst - 2008)

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=pmcentrez

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Cannabis: Potential treatment for skin disorders?  (news - 2009)
http://www.examiner.com/article/cannabis-potential-treatment-for-skin-disorders

The Management of Chronic Pruritus in the Elderly  (full – 2010)
http://www.skintherapyletter.com/2010/15.8/2.html

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

CB1 receptors mediate rimonabant-induced pruritic responses in mice: investigation of locus of action.  (abst – 2011)

Endocannabinoid signaling and epidermal differentiation.  (abst – 2011)


PSORIASIS

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

Cannabinoids inhibit human keratinocyte proliferation through a non-CB1/CB2 mechanism and have a potential therapeutic value in the treatment of psoriasis (abst - 2007)  http://www.ncbi.nlm.nih.gov/pubmed/17157480


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=pmcentrez


Cannabinoid Treatment for Psoriasis Symptoms (article – 2012)  http://medicalmarijuana.com/medical-marijuana-treatments/Psoriasis


QUITTING CANNABIS - also see ADDICTION and WITHDRAWAL


Tobacco and Cannabis Smoking Cessation Can Lead to Intoxication with Clozapine or Olanzapine. (abst – 2002)  
http://medical-journals.healia.com/doc/11981356/Tobacco-and-cannabis-smoking-cessation-can-lead-to-intoxication-with-clozapine-or-olanzapine

The Time Course and Significance of Cannabis Withdrawal. (abst – 2003)  

Strategies for quitting among non-treatment-seeking marijuana smokers. (abst – 2005)  

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

How To Cleanse the Body From THC (news – 2010)  
http://www.livestrong.com/article/164646-how-to-cleanse-the-body-from-thc/

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

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

A Double-Blind Randomized Controlled Trial of N-Acetyl cysteine in Cannabis-Dependent Adolescents. (abst – 2012)  

Supplement Helps Teens Kick Pot Habit (news – 2012)  
http://www.medpagetoday.com/Psychiatry/Addictions/33286?utm_content=&utm_medium=email&utm_campaign=DailyHeadlines&utm_source=WC&eun=g522321d0r&userid=522321&email=tconnolly@wtis1110.com&mu_id=

QUITTING OTHER DRUGS

The Use of Indian Hemp in the Treatment of Chronic Chloral and Chronic Opium Poisoning (1889)  
http://www.onlinepot.org/medical/Dr_Tods_PDFs/s3_2.pdf

http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=86

Morphine-dependent rats: blockade of precipitated abstinence by tetrahydrocannabinol. (abst – 1975)  
Differential effect of cannabinol and cannabidiol on THC-induced responses during abstinence in morphine-dependent rats. (abst - 1975)

Effect of some cannabinoids on naloxone-precipitated abstinence in morphine-dependent mice. (abst – 1976)


The quasi-morphine withdrawal syndrome: effect of cannabinol, cannabidiol and tetrahydrocannabinol. (abst - 1985)


Therapeutic use of cannabis by crack addicts in Brazil. (full - 1999)
http://science.iowamedicalmarijuana.org/pdfs/addiction/Labigalini%20Therapeutic%20Cannabis%20Crack%20Brazil%20J%20Psychoact%20Drugs%20201999.pdf

Go clean with spliffs (news - 2001) (may need registration)

Crack heads and roots daughters: The therapeutic use of cannabis in Jamaica (cocaine) (abst - 2002)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=260


Modulation of oral morphine antinociceptive tolerance and naloxone-precipitated withdrawal signs by oral Delta 9-tetrahydrocannabinol. (full – 2003) http://jpet.aspetjournals.org/content/305/3/812.long

Cannabis as a Substitute for Alcohol (full - 2003)
http://www.doctordeluca.com/Library/AbstinenceHR/CannabisSubstituteAlcohol03.htm

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)

Delta9-tetrahydrocannabinol decreases somatic and motivational manifestations of nicotine withdrawal in mice.  (abst - 2004)

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

Role of cannabinoid receptors in alcohol abuse  (news - 2005)
http://www.medicalnewstoday.com/articles/30338.php

Subchronic cannabinoid agonist (WIN 55,212-2) treatment during cocaine abstinence alters subsequent cocaine seeking behavior.  (full - 2007)
http://www.nature.com/npp/journal/v32/n11/abs/1301365a.html

Chronologically overlapping occurrences of nicotine-induced anxiety- and depression-related behavioral symptoms: effects of anxiolytic and cannabinoid drugs  (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2075518/?tool=pubmed

Modulation of the endocannabinoid system: therapeutic potential against cocaine dependence.  (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2134985/?tool=pubmed

Inhibition of anandamide hydrolysis by URB597 reverses abuse-related behavioral and neurochemical effects of nicotine in rats.  (abst – 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2663803/?tool=pubmed

Curing Addiction With Cannabis Medicines?  (news - 2008)
http://www.sciencedaily.com/releases/2008/03/080307110348.htm

Cannabis-based Drugs can help you quit Smoking  (news - 2008)

Cannabidiol, a Nonpsychotropic Component of Cannabis, Inhibits Cue-Induced Heroin Seeking and Normalizes Discrete Mesolimbic Neuronal Disturbances  (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2829756/?tool=pmcentrez

Intermittent marijuana use is associated with improved retention in naltrexone treatment for opiate-dependence.  (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2753886/?tool=pubmed
Cannabis as a substitute for alcohol and other drugs. (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2795734/?tool=pmcentrez

Effects of the cannabinoid CB1 receptor antagonist AM 251 on the reinstatement of nicotine-conditioned place preference by drug priming in rats. (full - 2009)  

Interaction of the cannabinoid and opioid systems in the modulation of nociception. (abst - 2009)  

Medical Marijuana and Tobacco Dependence (news – 2009)  
https://www.marijuanadoctors.com/content/ailments/view/67?ailment=tobacco-dependence

Medical Marijuana and Opiate Dependence (news – 2009)  
https://www.marijuanadoctors.com/content/ailments/view/50?ailment=opiate-dependence

Is Cannabis the Answer to Booze Britain's Problems? (news - 2009)  

Medical Marijuana and Cocaine Dependence (news – 2009)  
https://www.marijuanadoctors.com/content/ailments/view/21?ailment=cocaine-dependence

Cannabis as a substitute for heavy alcohol usage? (news - 2009)  

Medical marijuana users in substance abuse treatment. (full - 2010)  
http://www.harmreductionjournal.com/content/pdf/1477-7517-7-3.pdf

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

Oaklanders Quitting Oxycontin with Cannabis (news - 2010)  

Marijuana To Control Alcohol Abuse (news - 2010)  

Marijuana could be an “exit drug” (news - 2010)  
http://newmexicoindependent.com/52915/marijuana-could-be-an-exit-drug

Study shows direct cellular interaction between endocannabinoids and alcohol in the brain (news - 2010)  

Brain cannabinoid CB2 receptors modulate cocaine's actions in mice  (abst – 2011)  http://www.nature.com/neuro/journal/vaop/ncurrent/full/nn.2874.html


RADIATION-INDUCED NAUSEA

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

Receptor mechanism and antiemetic activity of structurally-diverse cannabinoids against radiation-induced emesis in the least shrew.  (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1949344/?tool=pmcentrez

Medical Marijuana and Radiation Therapy (news – 2009)
https://www.marijuanadocs.com/content/ailments/view/56?ailment=radiation-therapy

RADIATION SICKNESS

Medical Marijuana and Radiation Therapy (news – 2009)
https://www.marijuanadocs.com/content/ailments/view/56?ailment=radiation-therapy


REFLEX SYMPATHETIC DYSTROPHY

DEA Raids Aurora Medical Marijuana User (news/ anecdotal – 2004)

Medi-Cal pays pot-related expenses  (news – 2007)

RSD Patient Gets Relief Through Medical Marijuana (news - 2009)

An Opiate Controlled Population by Ryan Harshbarger (news/ anecdotal- 2009)

Control of bone remodeling by nervous system. Nervous system and bone (abst – 2010)
RESTLESS LEG SYNDROME

Marijuana & Restless Leg Syndrome (news - undated)
http://www.ehow.com/about_5380787_marijuana-restless-leg-syndrome.html

Restless Leg Syndrome: Medical Marijuana Patients’ Say it Works (news - 2007)

Medical Marijuana and Wittmaack-Ekbom's Syndrome (news – 2009)
https://www.marijuanadoctors.com/content/ailments/view/170?ailment=wittmaack-ekbom-s-syndrome

RETINITIS PIGMENTOSA


Cannabis improves night vision: a case study of dark adaptometry and scotopic sensitivity in kif smokers of the Rif mountains of northern Morocco (full - 2004)
http://science.iowamedicalmarijuana.org/pdfs/misc/Russo%20et%20al.%20Cannabis%20Night%20Vision%20JEP%202004.pdf

When spliff gets in your eyes... (news – 2004)
http://www.guardian.co.uk/science/2004/jul/07/sciencenews.research

RIMONABANT/ ACOMPLIA/ SR141716/ SR1 – a CB1 & CB2 antagonist


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

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


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

Activation of the Peripheral Endocannabinoid System in Human Obesity (full - 2005) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228268/?tool=pmcentrez


Weight Control in Individuals With Diabetes (full - 2006) http://care.diabetesjournals.org/content/29/12/2749.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=2000&resourcetype=HWCIT

Lack of tolerance to the suppressing effect of rimonabant on chocolate intake in rats. (abst – 2006)  

Acomplia may be dangerous for women of reproductive age  
[news – 2006](http://www.xagena.it/news/medicinenews_net_news/1ef4c899cd6f0d5cae3a2ea3a91adc1c.html)

Big Pharma's Strange Holy Grail: Cannabis Without Euphoria?  
[news - 2006](http://www.counterpunch.org/gardner07082006.html)

Cross-sensitization and cross-tolerance between exogenous cannabinoid antinociception and endocannabinoid-mediated stress-induced analgesia  
[full - 2007](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2771679/?tool=pubmed)

Single and multiple doses of rimonabant antagonize acute effects of smoked cannabis in male cannabis users.  
[full - 2007](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2689519/?tool=pubmed)

Rimonabant (SR141716) exerts anti-proliferative and immunomodulatory effects in human peripheral blood mononuclear cells  
[full - 2007](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2267266/?tool=pmcentrez)

Cannabinoid CB1 receptors in the paraventricular nucleus and central control of penile erection: immunocytochemistry, autoradiography and behavioral studies  
[abst – 2007](http://pharmgkb.org/pmid/17507169)

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

Three Anti-Obesity Drugs Compared  
[news – 2007](http://www.healthandage.com/Three-Anti-Obesity-Drugs-Compared)

European watchdog warns about dangers of Acomplia  

Three Long-Term Diet Pills Show Poor Performance, Study Suggests  

FDA Advisory Panel Rejects Obesity Drug  
[news - 2007](http://firstwatch.jwatch.org/cgi/content/full/2007/615/2?maxtoshow=&hits=80&RESULTFORMAT=&full_text=cannabinoid&searchid=1&FIRSTINDEX=2800&resourcetype=HWCIT)

Differential response to a selective cannabinoid receptor antagonist (SR141716: rimonabant) in female mice from lines selectively bred for high voluntary wheel-running behaviour.  

Rimonabant doesn't reduce heart risk  
[news - 2008](http://www.healthandage.com/Rimonabant-doesnt-reduce-heart-risk)
Caution Urged With New Anti-Obesity Drug In Kids (news - 2008)
http://www.sciencedaily.com/releases/2008/05/080507133326.htm

The psychiatric side-effects of rimonabant. (full – 2009)

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

The endocannabinoid system and diabetes - critical analyses of studies conducted with rimonabant (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2770455/?tool=pmcentrez

Cannabinoids for clinicians: the rise and fall of the cannabinoid antagonists (full - 2009)
http://www.eje-online.org/cgi/content/full/161/5/655?maxtoshow=80&RESULTFORMAT=1&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT

Evaluation of Prevalent Phytocannabinoids in the Acetic Acid Model of Visceral Nociception (full – 2009)
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**SAFETY AS A MEDICINE**

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SCHIZOPHRENIA/ MENTAL DISORDERS

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**STORAGE**


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STUTTERING

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SUNBURN

Hemp Oil Benefits for Skin (news – 2010)
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Regulation of nausea and vomiting by cannabinoids  
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Medial prefrontal cortex endocannabinoid system modulates baroreflex activity through CB1 receptors (abst – 2012)  
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**URB - 754** - slows cannabinoid destruction

The CB1 Cannabinoid Receptor Mediates Excitotoxicity-induced Neural Progenitor Proliferation and Neurogenesis (full - 2007) http://www.ibc.org/content/282/33/23892.full

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Compound boosts marijuana-like chemical in the body to relieve pain at injury site (news - 2010) http://www.eurekalert.org/pub_releases/2010-09/uoc--cbm092010.php


**VAPORIZERS** - see METHODS OF USE- VAPORIZERS

**VETERINARY USE/ ANIMALS**

THE RELATIVE ACTIVITY OF VARIOUS PURIFIED PRODUCTS OBTAINED FROM AMERICAN GROWN HASHISH (abst - 1938)
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Influence of Feed Supplementation with Cannabis Sativa on Quality of Broilers Carcass  

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YOUNG ADULTS - see CHILDREN/ YOUNG ADULTS