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

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

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

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

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

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

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

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

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

2012 is supposed to be a time of change, an “interesting” year. It is time for us to demand a change in the laws on cannabis! We must keep telling the truth, keep presenting the facts to our friends and our families. The facts are there in PubMed- cannabis IS medicine! Our government lies to us about cannabis! And folks- “If the truth won’t do, then something is wrong!”
It Is Time for Marijuana to Be Reclassified as Something Other Than a Schedule I Drug!

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

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


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Attenuation of Experimental Autoimmune Hepatitis by Exogenous and Endogenous Cannabinoids: Involvement of Regulatory T Cells  (full - 2008)  http://molpharm.aspetjournals.org/content/74/1/20.full?maxtoshow=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 (abst - 2010) http://www.nature.com/npp/journal/vaop/ncurrent/full/npp2010214a.html


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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


ADD/ ADHD

ADHD by Ryan P  (anecdotal - no date)  http://www.rxmarijuana.com/shared_comments/ADHD4.htm

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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


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)  
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Cannabinoid receptors in brain: pharmacogenetics, neuropharmacology, neurotoxicology, and potential therapeutic applications  (abst – 2009)  
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Science: Cannabis effective in the treatment of TOURETTE Syndrome and attention deficit hyperactivity disorder (ADHD)  (news – 2010)  

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

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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)  

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Teen Pot Smoking Won't Lead to Other Drugs as Adults  (news - 2010)  http://www.webmd.com/parenting/news/20100902/teen-pot-smoking-wont-lead-to-other-drugs-as-adults

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

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

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

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2-AGE/ 2-ARACHIDONYL GLYCERYL ETHER/ NOLADIN ETHER
endocannabinoid, CB 1 & 2 agonist

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http://www.unboundmedicine.com/medline/ebm/record/21546126/abstract/An_amyloid_%CE%B2_42__dependent_deficit_in_anandamide_mobilization_is_associated_with_cognitive_dysfunction_in_Alzheimer%27s_disease_

Molecular reorganization of endocannabinoid signalling in Alzheimer's disease.  
(abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21459826/abstract/Molecular_reorganization_of_endocannabinoid_signalling_in_Alzheimer%27s_disease_

Palmitoylethanolamide counteracts reactive astrogliosis induced by beta-amyloid peptide.  
(abst – 2011)  

The role of phytochemicals in the treatment and prevention of dementia. (abst – 2011)  

Early onset of aging-like changes is restricted to cognitive abilities and skin structure in Cnr1(-/-) mice. (abst – 2011)  


AM-251 – synthetic, GPR 55 agonist, CB1 antagonist/inverse agonist

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

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

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

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

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

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

The cannabinoid 1 receptor antagonist, AM251, prolongs the survival of rats with severe acute pancreatitis.  (full - 2005)  
http://www.jstage.jst.go.jp/article/tjem/207/2/207_99/_article

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

Cannabinoid CB1 receptor antagonists cause status epilepticus-like activity in the hippocampal neuronal culture model of acquired epilepsy  (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1808496/?tool=pmcentrez

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

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

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

Cardiovascular effects of cannabinoids in conscious spontaneously hypertensive rats  (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190006/?tool=pmcentrez

CANNABINOID-INDUCED HYPERPHAGIA: CORRELATION WITH INHIBITION OF PROOPIOMELANOCORTIN NEURONS?  (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2720321/?tool=pmcentrez

Cannabinoid action in the olfactory epithelium  (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1815290/?tool=pmcentrez
Ultra-low dose cannabinoid antagonist AM251 enhances cannabinoid anticonvulsant effects in the pentylenetetrazole-induced seizure in mice. (abst – 2007)

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

Attenuation of 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

Loss of cannabinoid receptor 1 accelerates intestinal tumor growth (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2561258/?tool=pubmed

Acute hypertension reveals depressor and vasodilator effects of cannabinoids in conscious rats (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697765/?tool=pmcentre

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=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

Feeding induced by cannabinoids is mediated independently of the melanocortin system. (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2386290/?tool=pubmed


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

Endocannabinoids in the rat basolateral amygdala enhance memory consolidation and enable glucocorticoid modulation of memory (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2660732/?tool=pmcentre


Endocannabinoids prevent lysosomal membrane destabilisation evoked by treatment with β-amyloid in cultured rat cortical neurons (abst – 2009)


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


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

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

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


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

Cannabidiol as an anti-arrhythmic, the role of the CB1 receptors. (abst – 2011)  http://www.unboundmedicine.com/medline/ebm/record/22116907/abstract/17_Cannabidiol_as_an_anti_arrhythmic_the_role_of_the_CB1_receptors


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


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


AM-281  - synthetic, CB1 antagonist and inverse agonist


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

Effects of AM281, a cannabinoid antagonist, on circulatory deterioration and cytokine production in an endotoxin shock model: comparison with norepinephrine. (abst – 2006)  

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

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

**AM-404** – synthetic, CB1 agonist

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

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

Anxiolytic-like properties of the anandamide transport inhibitor AM404. (abst – 2006)  

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=pmcentre

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

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


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

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

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

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

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


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

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

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

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

The impact of changes in UK classification of the synthetic cannabinoid receptor agonists in 'Spice'.  (abst – 2011)  

**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](http://www.pnas.org/content/100/18/10529.full)


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

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

In vitro pharmacological characterization of AM1241: a protean agonist at the cannabinoid CB2 receptor?  (full - 2006)  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2013801/?tool=pubmed](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2013801/?tool=pubmed)

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

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

Peripheral Cannabinoids Attenuate Carcinoma Induced Nociception in Mice  (full - 2008)  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2771220/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2771220/)
Selective Activation of Cannabinoid CB2 Receptors Suppresses Neuropathic Nociception Induced by Treatment with the Chemotherapeutic Agent Paclitaxel in Rats  (full - 2008)  
http://jpet.aspetjournals.org/content/327/2/584.full#content-block

The endocannabinoid system in amyotrophic lateral sclerosis.  (abst - 2008)  

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

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

A cannabinoid 2 receptor agonist attenuates bone cancer-induced pain and bone loss.  (abst - 2010)  

Cannabinoids attenuate cancer pain and proliferation in a mouse model.  (abst - 2010)  

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

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)

Scientist Discovers New Molecule to Treat Chronic Pain  (news - 2008)

**AM-1710** – synthetic, CB2 agonist

Pharmacological characterization of AM1710, a putative cannabinoid CB(2) agonist from the cannabilactone class: Antinociception without central nervous system side-effects.  (abst – 2011)
http://www.unboundmedicine.com/medline/ebm/recor d/21382397/abstract/Pharmacological_characterization_of_AM1710_a_putative_cannabinoid_CB_2_agonist_from_the_cannabilactone_class:_Antinociceptio n_without_central_nervous_system_side_effects

**AM -2233** – synthetic, CB1 agonist

F200A substitution in the third transmembrane helix of human cannabinoid CB1 receptor converts AM2233 from receptor agonist to inverse agonist.  (abst – 2006)


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%20%2Bcannabinoid%22
AM-4113 — synthetic, CB1 antagonist

Effects of a Selective Cannabinoid Agonist and Antagonist on Body Temperature in Rats (abst - 2007)
http://www.fasebj.org/cgi/content/meeting_abstract/21/5/A409?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourcetype=HWCIT

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

AM 6545 — synthetic, CB1 antagonist

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

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.drugscience.org/Petition/C3F.html

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

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

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

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

ANANDAMIDE / AEA – endocannabinoid, CB 1 & 2 agonist

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

Cross-tolerance between delta-9-tetrahydrocannabinol and the cannabimimetic agents, 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

http://www.jbc.org/content/270/11/6030.long
Anandamide and delta 9-THC dilation of cerebral arterioles is blocked by indomethacin (abst - 1995)
http://ajpheart.physiology.org/cgi/content/abstract/269/6/H1859?maxtostow=&hits=80&RESULTFORMA
T=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=2320&resourcetype=HWCIT

Occurrence and biosynthesis of endogenous cannabinoid precursor, N-arachidonoyl phosphatidylethanolamine, in rat brain. (full – 1997)
http://www.jneurosci.org/content/17/4/1226.long

Cannabinoid-Induced Hypotension and Bradycardia in Rats Is Mediated by CB1-Like Cannabinoid Receptors (full - 1997)
http://jpet.aspetjournals.org/content/281/3/1030.full?maxtostow=&hits=80&RESULTFORMAT=&fulltext
=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT


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


Anandamide, an Endogenous Cannabinoid, Has a Very Low Physical Dependence Potential (full - 1998)
http://jpet.aspetjournals.org/content/287/2/598.full?maxtostow=&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


Pain modulation by release of the endogenous cannabinoid anandamide (full - 1999) http://www.pnas.org/content/96/21/12198.full


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

Why your brain is primed for a high  (news - 1999)
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)  


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

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

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

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

Palmitoylethanolamide inhibits the expression of fatty acid amide hydrolase and enhances the anti-proliferative effect of anandamide in human breast cancer cells  (full - 2001)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1222054/pdf/11485574.pdf?tool=pmcentrez
Mechanisms of anandamide-induced vasorelaxation in rat isolated coronary arteries (full - 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573021/?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

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

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

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

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

Estrogen stimulates arachidonylethanolamide 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=eb71d6d7a06f311440761efac6a7d081bcc2771d

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


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BREASTFEEDING/ INFANT APPETITE


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**BULIMIA**

Association study of cannabinoid receptor gene (CNR1) alleles and anorexia nervosa: differences between restricting and binging/purging subtypes.  (abst – 2004)

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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.  


Brain Type 1 Cannabinoid Receptor Availability in Patients with Anorexia and Bulimia Nervosa.  (abst – 2011)  http://www.ncbi.nlm.nih.gov/pubmed/21718968

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**CANCER – BASAL CELL CARCINOMA**  - see CANCER – SKIN

**CANCER – BLADDER / URETHRAL**


**CANCER - BONE**

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Reduction of bone cancer pain by activation of spinal cannabinoid receptor 1 and its expression in the superficial dorsal horn of the spinal cord in a murine model of bone cancer pain.  (full - 2009)  

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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

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A combination of THC and prochlorperazine effective in reducing vomiting in women following breast surgery  (news - 2006)  
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Cannabidiol as a novel inhibitor of Id-1 gene expression in aggressive breast cancer cells. (full - 2007)  
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Cannabis compound stops spread of breast cancer: researchers  (news - 2007)  

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Endocannabinoids in endocrine and related tumours  (full - 2008)  
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The anandamide analog, Met-F-AEA, controls human breast cancer cell migration via the RHOA/RHO kinase signaling pathway.  (full – 2008)  
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JunD is involved in the antiproliferative effect of Delta(9)-tetrahydrocannabinol on human breast cancer cells (abst - 2008)  

Cannabinoid receptor agonists inhibit growth and metastasis of breast cancer (abst - 2008)  
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Crosstalk between chemokine receptor CXCR4 and cannabinoid receptor CB2 in modulating breast cancer growth and invasion. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3168464/?tool=pubmed


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CANCER - CERVICAL


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**CANCER – CHOLANGIOCARCINOMA**

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The dual effects of delta(9)-tetrahydrocannabinol on cholangiocarcinoma cells: anti-invasion activity at low concentration and apoptosis induction at high concentration.  (abst – 2010)  

Anandamide exerts its antiproliferative actions on cholangiocarcinoma by activation of the GPR55 receptor.  (abst – 2011)  
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CANCER – COLON/COLORECTAL

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Inflammation and cancer IV. Colorectal cancer in inflammatory bowel disease: the role of inflammation. (full - 2004)
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Anandamide is an endogenous inhibitor for the migration of tumor cells and T lymphocytes. (abst - 2004)
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The endogenous cannabinoid, anandamide, induces cell death in colorectal carcinoma cells: a possible role for cyclooxygenase 2 (full - 2005)
The endogenous cannabinoid, anandamide, induces cell death in colorectal carcinoma cells: a possible role for cyclooxygenase 2

A new class of inhibitors of 2-arachidonoylglycerol hydrolysis and invasion of prostate cancer cells (full – 2005)
A new class of inhibitors of 2-arachidonoylglycerol hydrolysis and invasion of prostate cancer cells

Cannabinoids and cancer: potential for colorectal cancer therapy. (abst - 2005)
Cannabinoids and cancer: potential for colorectal ... [Biochem Soc Trans, 2005] - PubMed result

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

Opposing Actions of Endocannabinoids on Cholangiocarcinoma Growth : RECRUITMENT OF Fas AND Fas LIGAND TO LIPID RAFTS (full – 2007)
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The cannabinoid CB(2) receptor: a good friend in the gut. (abst – 2007)

Increased endocannabinoid levels reduce the development of precancerous lesions in the mouse colon.  (full – 2008)  
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Induction of the antitumorigenic NSAID-activated gene (NAG-1) in synthetic hexahydrocannabinol-induced apoptosis of human colorectal cancer cells  (abst - 2009)  http://www.fasebj.org/cgi/content/meeting_abstract/23/1_MeetingAbstracts/761.5?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=Hexahydrocannabinol&searchid=1&FIRSTINDEX=0&resourcetype=HW

Cannabinoid receptor-independent cytotoxic effects of cannabinoids in human colorectal carcinoma cells: synergism with 5-fluorouracil.  (abst + 1st page – 2009)  http://www.springerlink.com/content/45008p9643k139i4/


Involvement of NSAID-activated gene-1 in a novel synthetic hexahydrocannabinol analogue-induced growth inhibition and apoptosis of colon cancer cells (abst - 2010) http://www.fasebj.org/cgi/content/meeting_abstract/24/1_MeetingAbstracts/965.8?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=Hexahydrocannabinol&searchid=1&FIRSTINDEX=0&resourcetype=HW CIT

The endogenous cannabinoid, anandamide, induces COX-2-dependent cell death in apoptosis-resistant colon cancer cells. (abst, link to PDF - 2010) http://www.spandidos-publications.com/ijo/37/1/187


CANCER - ENDOMETRIAL

The Levels of the Endocannabinoid Receptor CB2 and Its Ligand 2-Arachidonoylglycerol Are Elevated in Endometrial Carcinoma (full – 2010) http://endo.endojournals.org/content/151/3/921.full

CANCER - GASTRIC


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**CANCER – GLIOMA** (brain cancer)


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Pot Shrinks Tumors; Government Knew in '74  (news - 2000)  http://www.alternet.org/story/9257/?page=entire

Inhibition of Glioma Growth in Vivo by Selective Activation of the CB2 Cannabinoid Receptor1  (full - 2001)  http://cancerres.aacrjournals.org/cgi/reprint/61/15/5784.pdf

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

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

Inhibition of tumor angiogenesis by cannabinoids  (full - 2003)  http://www.fasebi.org/cgi/reprint/02-0795fjev1?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=20&sortspec=relevance&resourcetype=HWCIT
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Anti-tumor effects of cannabidiol  (abst - 2003)  
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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)  

Up-Regulation of Cyclooxygenase-2 Expression Is Involved in R(−)-Methanandamide-Induced Apoptotic Death of Human Neuroglioma Cells  (full - 2004)  
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Cannabinoids Inhibit the Vascular Endothelial Growth Factor Pathway in Gliomas  (full - 2004)  
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Arachidonylethanolamide induces apoptosis of human glioma cells through vanilloid receptor-1.  (abst – 2004)  

Cannabis extract shrinks brain tumours  (news – 2004)  
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'Cannabis' brain tumour drug hope  (news - 2004)  
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Marijuana May Stall Brain Tumor Growth  (news - 2004)  

Marijuana Extract Fights Brain Cancer in Mice  (news - 2004)  
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Cancer Killer  (news - 2004)  

Marijuana Ingredient Inhibits VEGF Pathway Required For Brain Tumor Blood Vessels  (news - 2004)  

Cannabis extract makes brain tumors shrink, halts growth of blood vessels  (news - 2004)  
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Cannabidiol inhibits human glioma cell migration through a cannabinoid receptor-independent mechanism  (full - 2005)  

Endocannabinoid metabolism in human glioblastomas and meningiomas compared to human non-tumour brain tissue  (full - 2005)  
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Cannabinoids selectively inhibit proliferation and induce death of cultured human glioblastoma multiforme cells.  (abst - 2005)  


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Acyl-based anandamide uptake inhibitors cause rapid toxicity to C6 glioma cells at pharmacologically relevant concentrations.  (abst – 2006)  

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Safety and efficacy of a novel cannabinoid chemotherapeutic, KM-233, for the treatment of high-grade glioma.  (abst – 2006)  
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CANCER - RHABDOMYOSARCOMA

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CANCER - RISK CANNABIS VS TOBACCO

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**CANCER - TESTICULAR**

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


**CANNABIDIOLIC ACID**  - precursor to Cannabidiol

Purification and characterization of cannabidiolic-acid synthase from Cannabis sativa L.. Biochemical analysis of a novel enzyme that catalyzes the oxidocyclization of cannabigerolic acid to cannabidiolic acid.  (full – 1996)  http://www.ibc.org/content/271/29/17411.long

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


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**CANNABINOR** - synthetic, CB2 agonist

Pharmos Initiates Phase I Trial of CB2-Selective Drug Candidate Cannabinor (news – 2005)  

Cannabinoid Receptor Agonist Significantly Reduces Post-Operative Pain, Study Says (news – 2007)  
http://norml.org/index.cfm?Group_ID=7246

Patent application title: Treatment Of Lower Urinary Tract Dysfunction With CB2-Receptor-Selective Agonists (full – 2009)  
http://www.faqs.org/patents/app/20090312414

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

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

Analgesic and adverse effects of an oral cannabis extract (Cannador) for postoperative pain (abst - 2006)  
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Cannabis effective at relieving pain after major surgery (news - 2006)  

Cannador: Drug from cannabis plant-extract to reduce surgery pain (news - 2006)  

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

CARPAL TUNNEL SYNDROME


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

Cannabinoid Receptor Ligands (full - no date) http://www.tocris.com/pdfs/cannabinoid_receptor_review/page_001.html

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

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

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


Effects of Alcohol and Combined Marijuana and Alcohol Use During Adolescence on Hippocampal Volume and Asymmetry  (full - 2006)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1821342/?tool=pubmed

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


Moderate cannabis use not harmful to the brain of adolescents, M R I study finds  (news - 2006)  http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=218#3

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

Cannabis is a First-Line Treatment for Childhood Mental Disorders  (news - 2006)  http://www.counterpunch.org/mikuriya07082006.html


Pot May Not Shrink Teens' Brains After All  (news - 2006)  
http://www.medpagetoday.com/Neurology/GeneralNeurology/tb/3242

Some go without a cigarette: characteristics of cannabis users who have never smoked tobacco.  (full - 2007)  
http://archpedi.ama-assn.org/cgi/content/full/161/11/1042

Illicit Drug Use in Young Adults and Subsequent Decline in General Health: The Coronary Artery Risk Development in Young Adults (CARDIA) Study  (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1885466/?tool=pmcentrez

Prevalence of gestational exposure to cannabis in a Mediterranean city by meconium analysis.  (abst - 2007)  

Teens who use only cannabis appear to function better than those who also use tobacco  (news - 2007)  

Teens Who Smoke Marijuana But Not Tobacco Are Different From Other Teen Groups  (news - 2007)  

Swiss Study Finds Marijuana Use Alone May Benefit Some Teens  (news - 2007)  
http://www.foxnews.com/story/0,2933,308258,00.html

Are Cigarettes More of a Drag on Teens than Marijuana?  (news - 2007)  
http://www.scientificamerican.com/article.cfm?id=are-cigarettes-more-of-a

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

Marijuana Use by Young People: The Impact of State Medical Marijuana Laws  (full - 2008)  

Volumetric MRI Study of Brain in Children With Intrauterine Exposure to Cocaine, Alcohol, Tobacco, and Marijuana  (full - 2008)  
http://pediatrics.aappublications.org/cgi/reprint/121/4/741?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=400&resourceType=HWCT

The association between anxiety and alcohol versus cannabis abuse disorders among adolescents in primary care settings  (full - 2008)  
http://fampra.oxfordjournals.org/cgi/content/full/25/5/321

Characteristics of Adolescents Who Use Cannabis But Not Tobacco  (news - 2008)  

Medical marijuana: a surprising solution to severe morning sickness  (news - 2008)  
When Your Kid Smokes Pot  (news – 2008)
http://mensnewsdaily.com/2010/08/08/when-your-kid-smokes-pot/

Relief-oriented use of marijuana by teens  (full - 2009)

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

The influence of substance use on adolescent brain development.  (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2827693/?tool=pubmed


Cannabis use and destructive periodontal diseases among adolescents  (abst - 2009)
http://www.unboundmedicine.com/medline/ebm/record/19236530/abstract/Cannabis_use_anddestructive_periodontal_diseases_among_adolescents

Urinary toxicological screening: Analytical interference between niflumic acid and cannabis.  (abst - 2009)
http://www.unboundmedicine.com/medline/ebm/record/19716686/abstract/%5BUrinary_toxicological_screening:_Analytical_interference_between_niflumic_acid_and_cannabis_%5D


Is moderate substance use associated with altered executive functioning in a population-based sample of young adults?  (abst - 2009)

Long-term consequences of URB597 administration during adolescence on cannabinoid CB1 receptor binding in brain areas.  (abst – 2009)

White Matter Integrity in Adolescents with Histories of Marijuana Use and Binge Drinking.  (abst - 2009)
http://www.unboundmedicine.com/medline/ebm/record/19631736/abstract/White_Matter_Integrity_in_Adolescents_with_Histories_of_Marijuana_Use_and_Binge_Drinking

Cannabis and tobacco use: where are the boundaries? A qualitative study on cannabis consumption modes among adolescents.  (abst - 2009)
http://www.unboundmedicine.com/medline/ebm/record/19515745/full_citation/Cannabis_and_tobacco_use:_where_are_the_boundaries_A_qualitative_study_on_cannabis_consumption_modes_among_adolescents


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


Learning and memory performances in adolescent users of alcohol and marijuana: interactive effects.  (full – 2010)  http://www.thefreelibrary.com/Learning+and+memory+performances+in+adolescent+users+of+alcohol+and+marijuana-a0241277101

PTSD contributes to teen and young adult cannabis use disorders.  (full – 2010)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2784238/?tool=pubmed


Cannabis Use and Obesity and Young Adults  (abst - 2010)  http://informahealthcare.com/doi/abs/10.3109/00952990.2010.500438


12 Year Olds More Likely to Use Potentially Deadly Inhalants Than Cigarettes or Marijuana  (news - 2010)  http://www.sciencedaily.com/releases/2010/03/100312144534.htm

'Marijuana is helping my 9-year-old  (news/anecdotal - 2010)  http://theweek.com/article/index/202109/Marijuana_is_helping_my_9yearold

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


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

Early exposure to Environmental enrichment alters the expression of genes of the endocannabinoid system   (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21419109/abstract/Early_exposure_to_Environmental_enrichment_alters_the_expression_of_genes_of_the_endocannabinoid_system


Some features of teenage beer alcoholism combined with hashish addiction   (abst – 2011)  

The social contagion effect of marijuana use among adolescents.   (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3018468/?tool=pubmed


Accidental cannabis poisoning in children: report of four cases in a tertiary care center from southern Spain   (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21283933/abstract/Accidental_cannabis_poisoning_in_children:_report_of_four_cases_in_a_tertiary_care_center_from_southern_Spain%5D

Prolonged coma in a child due to hashish ingestion with quantitation of THC metabolites in urine.   (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/20634020/abstract/Prolonged_coma_in_a_child_due_to_hashish_ingestion_with_quantitation_of_THC_metabolites_in_urine

Pediatric cannabinoid hyperemesis: two cases.   (abst – 2011)  

Cannabinoids in children   (abst – 2011)  

Rural adolescent alcohol, tobacco, and illicit drug use: a comparison of students in victoria, australia, and washington state, United States.   (abst – 2011)  
http://marijuana.researchtoday.net/archive/8/10/4782.htm


CHOLERA


**CHOLESTEROL**

Cannabinoids impair the formation of cholesteryl ester in cultured human cells.  
(full – 1981)  
[http://atvb.ahajournals.org/cgi/reprint/1/6/449](http://atvb.ahajournals.org/cgi/reprint/1/6/449)

Cholesterol-induced stimulation of platelet aggregation is prevented by a hempseed-enriched diet.  
(abst – 2008)  

Cannabis plant extracts could potentially form the basic ingredients for a market-leading diabetes drug  
(news – 2009)  
[http://www.thefreelibrary.com/Cannabis+plant+extracts+could+potentially+form+the+basic+ingredients+-a0202701009](http://www.thefreelibrary.com/Cannabis+plant+extracts+could+potentially+form+the+basic+ingredients+-a0202701009)

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

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

The effect of dietary hempseed on atherogenesis and contractile function in aortae from hypercholesterolemic rabbits.  
(abst – 2011)  

**CHRONIC FATIGUE SYNDROME**

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

**COGNATIVE EFFECTS**  see IQ

**COLITIS**

Ulcerative Colitis and Marijuana  
(letter - 1990)  

Agonists of cannabinoid receptor 1 and 2 inhibit experimental colitis induced by oil of mustard and by dextran sulfate sodium.  
(full – 2006)  
[http://ajpgi.physiology.org/content/291/2/G364.long](http://ajpgi.physiology.org/content/291/2/G364.long)
Ulcerative colitis in AKR mice is attenuated by intraperitoneally administered anandamide. (full – 2008)
http://www.jpp.krakow.pl/journal/archive/12_08/pdf/673_12_08_article.pdf

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

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

Ulcerative Colitis Induces Changes on the Expression of the Endocannabinoid System in the Human Colonic Tissue (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2731878/?tool=pmcentrez

Cannabinoid, a safe and non-psychotropic ingredient of the marijuana plant Cannabis sativa, is protective in a murine model of colitis. (abst - 2009)
http://www.unboundmedicine.com/medline/ebm/record/19690824/abstract/Cannabinoid_a_safe_and_non_p sychotropic_ingredient_of_the_marijuana_plant_Cannabis_sativa_is_protective_in_a_murine_model_of_c olitis

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

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

Mice lacking cannabinoid CB1-, CB2-receptors or both receptors show increased susceptibility to trinitrobenzene sulfonic acid (TNBS)-induced colitis. (full – 2010)
http://www.jpp.krakow.pl/journal/archive/02_10/pdf/89_02_10_article.pdf

The effects of Delta-tetrahydrocannabinol and cannabidiol alone and in combination on damage, inflammation and in vitro motility disturbances in rat colitis. (full - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931570/?tool=pubmed


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

Increasing endogenous 2-arachidonoylglycerol levels counteracts colitis and related systemic inflammation. (abst – 2011)
http://www.unboundmedicine.com/medline/ebm/record/21551239/abstract/Increasing_endogenous_2_arac hidonoylglycerol_levels_counteracts_colitis_and_related_systemic_inflammation


**COPD/ CHRONIC OBSTRUCTIVE PULMONARY DISEASE**

Heavy Habitual Marijuana Smoking Does Not Cause an Accelerated Decline in FEV with Age (full - 1997) http://www.drugtext.org/library/research/cannabis/respiration/respiration02/resp02.htm


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


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

Marijuana and chronic obstructive lung disease: a population-based study (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2665947/?tool=pmcentrez
Does smoking marijuana increase the risk of chronic obstructive pulmonary disease? (article - 2009)  

Smoking Pot, Cigarettes Ups COPD Risk (news - 2009)  

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

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

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

Beneficial effects of cannabinoids (CB) in a murine model of allergen-induced airway inflammation: role of CB1/CB2 receptors. (abst – 2011)  

Marijuana Smoke Not as Damaging as Tobacco, Says Study (news - 2012)  

**COUGH**

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

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

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

Novel treatment for cough (full - 2006)  
Cannabis Cough Cure  (news - 2006)

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

**COWPOX**

"Recreational" drug abuse associated with failure to mount a proper antibody response after a generalised orthopoxvirus infection.  (abst – 2011)

**CP 47,497** - a synthetic cannabinoid, CB1 & CB2 agonist

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

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

Cannabinoids augment the release of neuropeptide Y in the rat hypothalamus

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

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


Pharmacological properties and dependence liabilities of synthetic cannabinoids
(abst – 2010)
http://www.unboundmedicine.com/medline/ebm/record/20681249/abstract%5BPharmacological_properties_and_dependence_liabilities_of_synthetic_cannabinoids%5D

THIS ISN'T YOUR MOTHER'S SPICE  (news - 2010)
http://www.mapinc.org/drugnews/v10/n497/a07.html?1

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

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

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


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


Synthetic cannabinoids in oral fluid.  (abst – 2011)


Use of high-resolution accurate mass spectrometry to detect reported and previously unreported cannabinomimetics in "herbal high" products.  (abst – 2011)

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


**CP 50,556-1 / LEVONANTRADOL** synthetic, CB1 & CB2 agonist

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

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

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

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

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

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

Thujone exhibits low affinity for cannabinoid receptors but fails to evoke cannabimimetic responses. (abst – 1999)  

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

Marijuana-based Drugs: Innovative Therapeutics or Designer Drugs of Abuse? (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3139381/?tool=pubmed
CP 55,940 - a synthetic cannabinoid-CB1 & CB2 agonist

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

Cannabinoid receptor agonists inhibit Ca current in NG108-15 neuroblastoma cells via a pertussis toxin-sensitive mechanism.  (full - 1992)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1907498/?tool=pmcentrez&page=1

Cross-tolerance between delta-9-tetrahydrocannabinol and the 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

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

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


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

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


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

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

CANNABINOIDS ALTER RECOGNITION MEMORY IN RATS (full – 2003)

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


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

Control of spasticity in a multiple sclerosis model is mediated by CB1, not CB2, cannabinoid receptors. (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189718/?tool=pubmed

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

CB2 receptors in the brain: role in central immune function (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219530/?tool=pmcentrez

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

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


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

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


The schizophrenia susceptibility gene neuregulin 1 modulates tolerance to the effects of cannabinoids.  (abst – 2011)  http://www.unboundmedicine.com/medline/ebm/record/20701826/abstract/The_schizophrenia_susceptibility_gene_neuregulin_1_modulates_tolerance_to_the_effects_of_cannabinoids

A synthetic cannabinoid, CP55940, inhibits lipopolysaccharide-induced cytokine mRNA expression in a cannabinoid receptor-independent mechanism in rat cerebellar granule cells.  (abst – 2011)  http://www.unboundmedicine.com/medline/ebm/record/21492165/abstract/A_synthetic_cannabinoid_CP55940_inhibits_lipopolysaccharide_induced_cytokine_mRNA_expression_in_a_cannabinoid_receptor_independent_mechanism_in_rat_cerebellar_granule_cells
CROHN'S  - see BOWEL DISORDERS

CRUETZFELDT-JACOB DISEASE  - see MAD COW DISEASE

CT-3  - synthetic – also see AJULMIC ACID

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

Symptomatic treatment of multiple sclerosis using cannabinoids: recent advances.  

CYSTIC FIBROSIS

I have Cystic fibrosis  (anecdotal - no date)
http://www.masscann.org/consumption/73-medicine/314-i-have-cystic-fibrosis

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

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

The endocannabinoid-CB receptor system: Importance for development and in pediatric disease.  


Vaporized marijuana effect on CF. NOT smoking  (forum post - 2007)
http://www.topix.com/forum/health/cystic-fibrosis/TBQ56B1VNGGAODTKA

Marijuana (Cannabis) and Cystic Fibrosis; A Case Study  (case study/ad- 2009)
"Bong lung" in cystic fibrosis: a case report  (full - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2998526/?tool=pmcentrez

**CYSTITIS**

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


**DENTISTRY** - see TEETH

**DEPRESSION**


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


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

Cannabinoids promote hippocampus neurogenesis and produce anxiolytic- and antidepressant-like effects  (full - 2005)  http://www.jci.org/cgi/content/full/115/11/3104
Antidepressant-like activity by blockade of anandamide hydrolysis
(full - 2005)

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

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

New Antidepressant Drug Increases 'Brain's Own Cannabis' (news - 2005)
http://www.sciencedaily.com/releases/2005/12/051213172852.htm

Cannabis' Acts as Antidepressant (news - 2005)

Cannabis And Depression Research (news - 2005)

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

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

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

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

Decreased depression in marijuana users. (full - 2006)

The synthetic cannabinoid nabilone improves pain and symptom management in cancer patients (abst - 2006)
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Marijuana Use is Not Associated with Cervical Human Papillomavirus Natural History or Cervical Neoplasia in HIV-Seropositive or HIV-Seronegative Women (abst - 2010)  
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The Central Cannabinoid Receptor Inactivation Suppresses Endocrine Reproductive Functions.  (abst – 2001)  

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Male-female differences in the effects of cannabinoids on sexual behavior and gonadal hormone function. (abst - 2009)  

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

Endogenous cannabinoid signaling is essential for stress adaptation (full - 2010)  
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Scientific Opinion on the safety of hemp (Cannabis genus) for use as animal feed (full – 2011) (deceptive title)  


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CB1 cannabinoid receptor mediates glucocorticoid effects on hormone secretion induced by volume and osmotic changes. (abst – 2011)  
HPV/ HUMAN PAPILLOMA VIRUS

Marijuana use and cervical HPV/neoplasia   (abst - 2008)
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Bogarting that joint might decrease oral hpv among cannabis users.   (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2794675/?tool=pubmed

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

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


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


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

Influence of the CB1 receptor antagonist, AM 251, on the regional haemodynamic effects of WIN-55212-2 or HU 210 in conscious rats  (full - 2002)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573379/?tool=pmcentrez

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

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

The cannabinoids R(-)-7-hydroxy-delta-6-tetra-hydrocannabinol-dimethylheptyl (HU-210), 2-O-arachidonoylglycerylether (HU-310) and arachidonyl-2-chloroethanamide (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

Inhibition of tumor angiogenesis by cannabinoids  (full - 2003)
http://www.fasebj.org/cgi/reprint/02-0795fjev1?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=20&sortspec=relevance&resourcetype=HWCIT

CB1 cannabinoid receptor antagonism promotes remodeling and cannabinoid treatment prevents endothelial dysfunction and hypotension in rats with myocardial infarction  (full - 2003)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573770/?tool=pmcentrez


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

Direct cerebrovascular effects of CB1 receptor activation by the synthetic endocannabinoid HU-210 in vivo  (full - 2005)
http://www.nature.com/jcbfm/journal/v25/n1s/full/9591524.0581a.html

Cannabinoids promote embryonic and adult hippocampus neurogenesis and produce anxiolytic- and antidepressant-like effects  (full - 2005)
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Marijuana May Grow Neurons in the Brain (news - 2005) http://www.medpagetoday.com/Psychiatry/AnxietyStress/1934


Actions of the FAAH inhibitor URB597 in neuropathic and inflammatory chronic pain models (full - 2006) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751298/?tool=pmcentrez


Increased endocannabinoid levels reduce the development of precancerous lesions in the mouse colon (full - 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2755791/?tool=pmcentrez

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

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


Repeated Cannabinoid Injections into the Rat Periaqueductal Gray Enhances Subsequent Morphine Antinociception (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2743428/?tool=pmcentrez

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

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


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


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


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

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


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

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

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

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

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


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

Cannabinoid-2 receptor agonist HU-308 protects against hepatic ischemia/reperfusion injury by attenuating oxidative stress, inflammatory response, and apoptosis (full - 2007) http://www.jleukbio.org/cgi/content/full/82/6/1382
Endocannabinoids, cannabinoid receptors and inflammatory stress: an interview with Dr. Pál Pacher  
(interview - 2007)  
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Regulation of Bone Mass, Osteoclast Function, and Ovariectomy-Induced Bone Loss by the Type 2 Cannabinoid Receptor  
(full - 2008)  
http://endo.endojournals.org/cgi/content/full/149/11/5619?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT

CB2 Cannabinoid Receptors Promote Neural Progenitor Cell Proliferation via mTORC1 Signaling  
(abst – 2011)  
http://www.jbc.org/content/287/2/1198.abstract?sid=2c3b88ec-b6e6-4245-a171-2e24c17b5e8b

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

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

A Cannabinoid Anticancer Quinone, HU-331, Is More Potent and Less Cardiotoxic Than Doxorubicin: A Comparative in Vivo Study  
(full - 2007)  
http://jpet.aspetjournals.org/content/322/2/646.full
HU-331, a novel cannabinoid-based anticancer topoisomerase II inhibitor  (full - 2007)  
http://mct.aacrijournals.org/content/6/1/173.long

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

**HU-910** – synthetic, CB2 agonist

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

**HUNTINGTON’S DISEASE**

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

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

Loss of cannabinoid receptors in the substantia nigra in Huntington's disease.  
(abst – 1993)  

Cannabis in movement disorders.  
(abst - 1999)  

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)  

Changes in endocannabinoid transmission in the basal ganglia in a rat model of Huntington's disease.  
(abst – 2001)  

Alleviation of motor hyperactivity and neurochemical deficits by endocannabinoid uptake inhibition in a rat model of Huntington's disease.  
(abst – 2002)  
Loss of cannabinoid CB(1) receptors in the basal ganglia in the late akinetic phase of rats with experimental Huntington's disease.  (abst – 2002)

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


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

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

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

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


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**HYPEREMESIS** see CANNABINOID HYPEREMESIS SYNDROME

**HYSTERECTOMY**


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IDIOPATHIC INTRACRANIAL HYPERTENSION


IDRASIL – a natural THC pill


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420


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d+-a0241277101

The effects of Delta-tetrahydrocannabinol and cannabidiol alone and in combination on damage, inflammation and in vitro motility disturbances in rat colitis.  (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931570/?tool=pubmed

THC Prevents MDMA Neurotoxicity in Mice.  (abst - 2010)  

Cannabinoid receptor agonist protects cultured dopaminergic neurons from the death by the proteasomal dysfunction.  (full – 2011)  
The neuroprotective effect of cannabidiol in an in vitro model of newborn hypoxic-ischemic brain damage in mice is mediated by CB(2) and adenosine receptors. (abst – 2010) http://www.unboundmedicine.com/medline/ebm/record/19900555/abstract/The_neuroprotective_effect_of_cannabidiol_in_an_in_vitro_model_of_newborn_hypoxic_ischemic_brain_damage_in_mice_is_mediated_by_CB_2__and_adenosine_receptors


Cannabinoid type 2 receptor activation downregulates stroke-induced classic and alternative brain macrophage/microglial activation concomitant to neuroprotection. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22020035


NIEMANN-PICK DISEASE

**NIGHT SWEATS**

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


**NUTRITION – GENERAL** - also see OMEGA3/ CB 1 CONNECTION


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=S1368980001000738

Beta-caryophyllene is a dietary cannabinoid  (full - 2008)  http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2449371&tool=pmcentrez


Anti-inflammatory compound from cannabis found in herbs  (news - 2008)  http://www.rsc.org/chemistryworld/News/2008/June/24060801.asp

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

Poor Diet Impairs Cannabinoid Receptors  (news – 2011) 

NUTRITION – HEMP SEED

Hemp Protein = King of the Plant Kingdom   (article - no date) 
http://manitobaharvest.com/articles_studies/3804/Hemp-Protein-%3D-King-of-the-Plant-Kingdom.html

Hemp Powder Vs. Hemp Oil   (article – no date)  

Hemp Foods & Oils Primer   (article - no date) 

Hemp Packs in Powerful Source of Preconception Nutrition   (article - no date) 

Hemp: Nature's Forgotten Superfood   (article - no date) 
http://manitobaharvest.com/articles_studies/3802/Hemp%3A-Nature%27s-Forgotten-Superfood.html

Cannabis Sativa Seed Pressings   (ad - no date) 
http://www.med-marijuana.com/index.htm


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

HEMP SEED: THE MOST NUTRITIONALLY COMPLETE FOOD SOURCE IN THE WORLD (1)  (full - 1992)  
http://www.ratical.org/renewables/hempseed1.html

HEMP SEED: THE MOST NUTRITIONALLY COMPLETE FOOD SOURCE IN THE WORLD (2)  (full - 1992)  
http://www.ratical.org/renewables/hempseed2.html
Hempseed: Nature’s Perfect Food? (news - 1992)
http://www.marijuanalibrary.org/HT_Hempseed_0492.html

Marijuana-positive urine test results from consumption of hemp seeds in food products.

Hemp Foods and THC Levels: A Scientific Assessment 1 (full - 1999)
http://www.hempfood.com/thclimits1.html

Hemp Foods and THC Levels: A Scientific Assessment 2 (full - 1999)
http://www.hempfood.com/thclimits2a.html

Hemp and Health (book excerpt - 1999)
http://www.rexresearch.com/hhusb/hmphlth.htm#hhl3

A history of the Royal Grain (news - 1999)
http://www.cannabisculture.com/v2/articles/1425.html

Evaluating the impact of hemp food consumption on workplace drug tests.

Nutritional Profile and Benefits of Hemp Seed, Nut, and Oil (full - 2003)

Cannabis butter to spread across Europe (news - 2004)

The effect of feeding hemp seed meal to laying hens. (abst – 2005)

Alpha-linolenic acid content of commonly available nuts in Hangzhou. (abst – 2006)

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

Δ9-Tetrahydrocannabinol Content of Commercially Available Hemp Products

Characterization, amino acid composition and in vitro digestibility of hemp (Cannabis) proteins (abst - 2008) http://cat.inist.fr/?aModele=afficheN&cpsidt=20168114


The cardiac and haemostatic effects of dietary hempseed.  (full - 2010)  http://www.nutritionandmetabolism.com/content/pdf/1743-7075-7-32.pdf


Evaluating the Quality of Protein from Hemp Seed (Cannabis sativa L.) Products Through the use of the Protein Digestibility-Corrected Amino Acid Score Method (abst - 2010)  http://pubs.acs.org/doi/abs/10.1021/jf102636b


Hemp Seeds are Full of Health  (news - 2010)  http://www.naturalnews.com/029729_hemp_seeds_health.html

Efficacy of a Chinese herbal proprietary medicine (Hemp Seed Pill) for functional constipation.  (full – 2011)  http://www.nature.com/ajg/journal/v106/n1/pdf/ajg2010305a.pdf


NUTRITION – HEMP SEED OIL

King’s College Review of Nutritional Attributes of Cold Pressed Hemp Seed Oil (full – no date)  http://www.goodwebsite.co.uk/kingsreport.pdf

Hemp Foods & Oils Primer  (article - no date)  

Hemp Oil vs Flax Oil. Which One is Right for Me?  (article - no date)  
http://manitobaharvest.com/articles_studies/3794/Hemp-Oil-vs-Flax-Oil-Which-One-is-Right-for-Me%3F.html

Hemp Powder Vs. Hemp Oil  (article – no date)  

Hemp & GLA: Good Fat Burns Bad Fat  (article - no date)  
http://manitobaharvest.com/articles_studies/3813/Hemp-%26amp%3B-GLA%3A-Good-Fat-Burns-Bad-Fat-.html

Uses for Hemp Oil  (article – no date)  
http://www.ehow.com/about_5340254_uses-hemp-oil.html

Hemp Seed Oil - Your source for essential fat  (article - no date)  

Hemp: The Right Choice for Omega-6  (article - no date)  
http://manitobaharvest.com/articles_studies/3814/Hemp-%3A-The-Right-Choice-for-Omega-6-.html

Hemp Oil Vs. Flax Oil (article – no date)  
http://www.ehow.com/facts_5949889_hemp-oil-vs_-flax-oil.html

Cannabis Sativa Seed Pressings  (ad - no date)  
http://www.med-marijuana.com/index.htm

Therapeutic Hemp Oil  (news - 1993)  
http://www.ukcia.org/research/TherapeuticHempOil.php

Hemp seed oil: A source of valuable essential fatty acids  (full - 1996)  
http://www.hempfood.com/IHA/hta03101.html

Occurrence of "omega-3" stearidonic acid in hemp seed  (full - 1996)  
http://www.hempfood.com/IHA/hta03208.html

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

Hemp and Health  (book excerpt - 1999)  
http://www.rexresearch.com/hhusb/hmphlth.htm#hhl4


Characteristics of hemp (Cannabis sativa L.) seed oil  (abst – 2002)  http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T6R-44KW0MJ-6&_user=10&_coverDate=01%2F31%2F2002&_alid=1224442428&_rdoc=729&_fmt=high&_orig=search&_cdi=5037&_sort=r&_st=13&_docanchor=&view=c&_ct=14348&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=39826d98860a306a6242e1b6f6d60bd7


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


Hemp Oil Vs. Flax Oil  (news – 2011)
http://www.livestrong.com/article/413750-hemp-oil-vs-flax-oil/

What Are the Benefits of Hemp Seed Oil?  (news – 2011)

**O-1602**  – synthetic Cannabidiol analog, GPR – 55 agonist


**0-1966**  – 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)

Hemp & GLA: Good Fat Burns Bad Fat  (article - no date)
http://manitobaharvest.com/articles_studies/3813/Hemp-%26-GLA%3A-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=5626766&bodyId=&membershipNumber=&societyETOCSession=&fulltextType=RA&fileId=S13636898001000738

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/ijo/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

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


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 ß-Pancreatic Cells and in Obesity and Hyperglycemia (full - 2006) http://jcem.endojournals.org/cgi/content/full/91/8/3171?ijkey=83a68ceef202eaf129332eda53ee8eb61349982

Does Cannabis Hold the Key to Treating Cardiometabolic Disease (full - 2006) http://www.nature.com/nrcardio/journal/v3/n3/full/ncpcardio0504.html

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


Identification of Endocannabinoids and Related Compounds in Human Fat Cells (full - 2007) http://www.nature.com/oby/journal/v15/n4/full/oby2007100a.html


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=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

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

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


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.ejelibraryonline.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.pagerpress.org/journals/index.php/hi/article/view/1162


Endogenous cannabinoid signalling and energy balance  (abst – 2009)  
http://gradworks.umi.com/NR/44/NR44386.html

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-afaa05ee417c

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

Cannabinoid receptor stimulation impairs mitochondrial biogenesis in mouse white adipose tissue, muscle, and liver: the role of eNOS, p38 MAPK, and AMPK pathways. (full – 2010)  http://diabetes.diabetesjournals.org/content/59/11/2826.long#sec-25

A common polymorphism in the cannabinoid receptor 1 (CNR1) gene is associated with antipsychotic-induced weight gain in Schizophrenia.  (full – 2010)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3055343/?tool=pubmed


Cannabidiol Attenuates the Appetitive Effects of Δ9-Tetrahydrocannabinol in Humans Smoking Their Chosen Cannabis  (abst - 2010)  http://www.nature.com/npp/journal/vaop/ncurrent/abs/npp201058a.html

Deficiency of CB2 cannabinoid receptor in mice improves insulin sensitivity but increases food intake and obesity with age.  (abst – 2010)  http://www.springerlink.com/content/g037q1lh40l15161/


Cannabis Use and Obesity and Young Adults  (abst - 2010)  http://informahealthcare.com/doi/abs/10.3109/00952990.2010.500438

Krill oil significantly decreases 2-arachidonoylglycerol plasma levels in obese subjects.  (full – 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3048484/?tool=pubmed


Cannabidiol decreases body weight gain in rats: Involvement of CB2 receptors. (abst - 2011)  http://marijuana.researchtoday.net/archive/8/1/3517.htm


**OBSESSIVE COMPULSIVE DISORDER**


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)  http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=268#2


Plasma and brain pharmacokinetic profile of cannabidiol (CBD), cannabidivarin (CBDV), Δ(9)-tetrahydrocannabinvarin (THCV) and cannabigerol (CBG) in rats and mice following oral and intraperitoneal administration and CBD action on obsessive-compulsive behaviour. (abst – 2011)  http://www.ncbi.nlm.nih.gov/pubmed/21796370
Inhibition of endocannabinoid catabolic enzymes elicits anxiolytic-like effects in the marble burying assay. (abst – 2011)
http://www.unboundmedicine.com/medline/ehb/record/21145341/abstract/Inhibition_of_endocannabinoid_catabolic_enzymes_elicits_anxiolytic_like_effects_in_the_marble_burying_assay

**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 - no date)

Omega-3 and Omega-6 Essential fatty Acids (EFA) (infomercial/ad – no date)

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 fat on endocannabinoids and related mediators: consequences on energy homeostasis, inflammation and mood. (abst – 2010)

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


Fish oil promotes survival and protects against cognitive decline in severely undernourished mice by normalizing satiety signals. (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/21109417

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


**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


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


Should Hepatitis C Patients Who Smoke Marijuana Be Eligible For Liver Transplants? (news - 2008)  

Marijuana Use in Potential Liver Transplant Candidates. (abst - 2009)  

Woman Dies After Being Denied Organ Transplant (news – 2009)  

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" (news – 2010)  
[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)  

Cannabis 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)  
OSTEOPOROSIS/ BONES

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

Regulation of bone mass, bone loss and osteoclast activity by cannabinoid receptors (full - 2005) 
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1430341/?tool=pmcentrez

Peripheral cannabinoid receptor, CB2, regulates bone mass (full - 2006) 
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1334629/?tool=pmcentrez

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

Researchers from the Hebrew University Discover New Drug for Osteoporosis (news – 2006) 

New hope for osteoporosis sufferers (news - 2006) 

Prototype drug to prevent osteoporosis based on cannabinoids found in the body (news - 2006) 
http://www.news-medical.net/?id=15220

Hebrew U. Researchers Find Cannabis Can Strengthen Bones (news - 2006) 

Scientists Develop Prototype Drug To Prevent Osteoporosis Based On Cannabinoids Produced By Body (news - 2006) 
http://www.sciencedaily.com/releases/2006/01/060104232013.htm

New Weapon In Battle Against Osteoporosis (news - 2006) 
http://www.medicalnewstoday.com/articles/35621.php

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

Cannabis-like compound prevents bone loss (news - 2006) 

Regulation of skeletal remodeling by the endocannabinoid system. (abst - 2007) 
Cannabinoids stimulate fibroblastic colony formation by bone marrow cells indirectly via CB2 receptors. (abst – 2007)  

Cannabinoid receptors and the regulation of bone mass  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219540/?tool=pmcentrez

Regulation of Bone Mass, Osteoclast Function, and Ovariectomy-Induced Bone Loss by the Type 2 Cannabinoid Receptor  (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 cannabinoid CB1 receptor regulates bone formation by modulating adrenergic signaling.  (full - 2008)  
http://www.fasebj.org/cgi/content/full/22/1/285

Role of cannabinoid receptors in bone disorders: alternatives for treatment  
(abst - 2008)  

Ajulemic acid, a nonpsychoactive cannabinoid acid, suppresses osteoclastogenesis in mononuclear precursor cells and induces apoptosis in mature osteoclast-like cells.  
(abst - 2008)  

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

The influence of cannabinoid CB2 receptor in adult rat mesenchymal stem cell viability  
(abst – 2009)  

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

Cannabinoids and the skeleton: From marijuana to reversal of bone loss.  
(abst - 2009)  
http://www.unboundmedicine.com/medline/ebm/record/19634029/abstract/Cannabinoids_and_the_skeleton:_From_marijuana_to_reversal_of_bone_loss

Activation of CB2 cannabinoid receptors: a novel therapeutic strategy to accelerate osseointegration of dental implants.  
(abst - 2009)  

Marijuana/Cannabis may protect against osteoporosis  
(news - 2009)  

Cannabis may prevent osteoporosis  
(news - 2009)  
http://news.bbc.co.uk/2/hi/uk_news/scotland/edinburgh_and_east/8199007.stm

515
Hypothalamic regulation of bone. (full – 2010)
http://jme.endocrinology-journals.org/cgi/content/full/45/4/175

Cannabinoid Receptors as Target for Treatment of Osteoporosis: A Tale of Two Therapies (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3001217/?tool=pubmed

Tissue Engineering of Cartilage; Can Cannabinoids Help? (full – 2010)


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http://www.patentstorm.us/patents/6949582/fulltext.html

20050070596 - Methods for treatment of inflammatory diseases using CT-3 or analogs thereof (full - 2005)  
http://www.patentstorm.us/applications/20050070596/fulltext.html

Method of relieving analgesia and reducing inflammation using a cannabinoid delivery topical liniment (full - 2005)  
http://www.patentstorm.us/patents/6949582/fulltext.html

http://www.patentstorm.us/applications/20060160888/fulltext.html

US Patent 7088914 - Device, method and resistive element for vaporizing a medicament (full - 2006)  
http://www.patentstorm.us/patents/7088914/fulltext.html

http://www.patentstorm.us/applications/20060167084/fulltext.html

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http://www.patentstorm.us/patents/7025992/fulltext.html

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US Patent 7109245 - Vasoconstrictor cannabinoid analogs (full - 2006)  
http://www.patentstorm.us/patents/7109245/fulltext.html

http://www.patentstorm.us/applications/20070020193/fulltext.html

20080057117 - PHARMACEUTICAL COMPOSITION MADE UP OF CANNIBUS EXTRACTS (full - 2007)  
http://www.patentstorm.us/applications/20080057117/fulltext.html

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http://www.patentstorm.us/applications/20070099987/fulltext.html
Patent 7344736 - Extraction of pharmaceutically active components from plant materials (full – 2008)  
http://www.patentstorm.us/patents/7344736/description.html

20080275237 - Method for Obtaining Pure Tetrahydrocannabinol  (full – 2008)  
http://www.faqs.org/patents/app/20080275237

US Patent 7402686 - Cannabinoid crystalline derivatives and process of cannabinoid purification  (full - 2008)  
http://www.patentstorm.us/patents/7402686/fulltext.html

US Patent 7399872 - Conversion of CBD to Δ-THC and Δ-THC  (full - 2008)  
http://www.patentstorm.us/patents/7399872/fulltext.html

http://www.patentstorm.us/applications/20080112895/fulltext.html

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Patent 7524881 - Production of Δ 9 tetrahydrocannabinol  (full – 2009)  
http://www.patentstorm.us/patents/7524881/fulltext.html

http://www.patentstorm.us/applications/20090324797/fulltext.html

US Patent 7622140 - Processes and apparatus for extraction of active substances and enriched extracts from natural products  (full - 2009)  
http://www.patentstorm.us/patents/7622140/fulltext.html

http://www.patentstorm.us/applications/20090197941/fulltext.html

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NEW USE FOR CANNABINOID-CONTAINING PLANT EXTRACTS  
Patent application number: 20100249223  (full - 2010)  
http://www.faqs.org/patents/app/20100249223

535
CANNABINOID-CONTAINING PLANT EXTRACTS AS NEUROPROTECTIVE AGENTS Patent application number: 20100239693 (full - 2010)  
http://www.faqs.org/patents/app/20100239693

http://www.faqs.org/patents/app/20080255224

http://www.patentstorm.us/applications/20100012118/fulltext.html

Patent 7741365 Peripheral cannabinoid receptor (CB2) selective ligands (full – 2010)  
http://www.patentstorm.us/patents/7741365/fulltext.html

Patent 7816143 Oral detection test for cannabinoid use (full - 2010)  
http://www.patentstorm.us/patents/7816143/fulltext.html

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

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

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

US Patent Application 20110052694 - USE OF CANNABIDIOL PRODRUGS IN TOPICAL AND TRANSDERMAL ADMINISTRATION WITH MICRONEEDLES (full – 2011)  
http://www.patentstorm.us/applications/20110052694/fulltext.html

US Patent Application 20110073120 - Smoke and Odor Elimination Filters, Devices and Methods (full – 2011)  
http://www.patentstorm.us/applications/20110073120/fulltext.html

http://www.patentstorm.us/applications/20110020945/fulltext.html

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PEA – PALMITOYLETHANOLAMIDE  - endocannabinoid, GPR55 & GPR119 agonist

Palmitoylethanolamide inhibits the expression of fatty acid amide hydrolase and enhances the anti-proliferative effect of anandamide in human breast cancer cells (full - 2001)  


Effects of palmitoylethanolamide on signaling pathways implicated in the development of spinal cord injury.  (full – 2008)  http://jpet.aspetjournals.org/content/326/1/12.long


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

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

Palmitoylethanolamide reduces granuloma-induced hyperalgesia by modulation of mast cell activation in rats  (full – 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3034677/?tool=pubmed


**PHARC**

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


**PHYTOCANNABINOIDs/ PLANT EXTRACTS** - also see THC, CBD

ACCESSING 0.5 to 2.0 GRAMS CBD FRACTIONATING THE PHYTOCANNABINOIDs BY THEIR VAPORIZATION POINTS (article - no date ) http://forum.grasscity.com/medical-marijuana/610429-need-cbd.html

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


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

Cannabinoids in clinical practice.  (abst - 2000)

Cannabis and Cannabis Extracts: Greater Than the Sum of Their Parts?
(full - 2001)

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

Natural cannabis 'better than extracts'  (news - 2001)
http://news.bbc.co.uk/2/hi/health/1261737.stm

Whether whole Plant Cannabis extracts can improve intractable neurogenic symptoms?

Cannabis can help MS sufferers  (news - 2003)

Efficacy, safety and tolerability of an orally administered cannabis extract in the
treatment of spasticity in patients with multiple sclerosis: a randomized, double-blind,
placebo-controlled, crossover study.  (full - 2004)
http://www.ukcia.org/research/EfficacySafetyTolerabilityInMSSpasticityTreatment.pdf

Initial experiences with medicinal extracts of cannabis for chronic pain: Results from 34

Efficacy of two cannabis based medicinal extracts for relief of central neuropathic pain
from brachial plexus avulsion: results of a randomised controlled trial  (full - 2004)
http://www.ukcia.org/research/CentralNeuropathicPainEfficacy.pdf

Cannabis truly helps multiple sclerosis sufferers  (news - 2004)

Plant cannabinoids: a neglected pharmacological treasure trove.  (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751232/?tool=pubmed

Chemical constituents of marijuana: the complex mixture of natural cannabinoids.

A tale of two cannabinoids:The therapeutic rationale for combining tetrahydrocannabinol
and cannabidiol.  (full - 2006)

Unheated Cannabis sativa extracts and its major compound THC-acid have potential
immuno-modulating properties not mediated by CB1 and CB2 receptor coupled
pathways.  (abst - 2006)
The psychoactive plant cannabinoid, Delta9-tetrahydrocannabinol, is antagonized by Delta8- and Delta9-tetrahydrocannabivarin in mice in vivo. (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189766/?tool=pubmed

The multidrug transporter ABCG2 (BCRP) is inhibited by plant-derived cannabinoids. (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190019/?tool=pubmed

Endocannabinoids and Related Compounds: Walking Back and Forth between Plant Natural Products and Animal Physiology (full - 2007)  

Medicinal chemistry endeavors around the phytocannabinoids. (abst - 2007)  

The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids: Δ9-tetrahydrocannabinol, cannabidiol and Δ9-tetrahydrocannabivarin (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219532/

Antibacterial cannabinoids from Cannabis sativa: a structure-activity study. (full - 2008)  
http://www.cannabisasmedicine.com/story/antibacterial-cannabinoids-cannabis-sativa-structure%E2%88%92activity-study

Pain relief with cannabinoids-- the importance of endocannabinoids and cannabinoids for pain therapy (abst - 2008)  

Antihyperalgesic effect of a Cannabis sativa extract in a rat model of neuropathic pain: mechanisms involved. (abst - 2008)  

Interaction of plant cannabinoids with the multidrug transporter ABCC1 (MRP1). (abst - 2008)  

Immunomodulatory lipids in plants: plant fatty acid amides and the human endocannabinoid system. (abst – 2008)  

PKS activities and biosynthesis of cannabinoids and flavonoids in Cannabis sativa L. plants (abst - 2008)  

Non-psychotropic plant cannabinoids: new therapeutic opportunities from an ancient herb (full - 2009)  
http://cannabisinternational.org/info/Non-Psychoactive-Cannabinoids.pdf

1.0 Chemistry (full - 2009)  
http://www.hc-sc.gc.ca/dhp-mps/marihuana/how-comment/medpract/infoprof/chemistry-chimie-eng.php#a1_1
Synthetic and plant-derived cannabinoid receptor antagonists show hypophagic properties in fasted and non-fasted mice. (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697695/?tool=pubmed

Evaluation of prevalent phytocannabinoids in the acetic acid model of visceral nociception. (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2765124/?tool=pubmed

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

Phytocannabinoids and endocannabinoids. (abst - 2009)

Pharmacological and therapeutic secrets of plant and brain (endo)cannabinoids. (abst - 2009)

Phytocannabinoid scientists unveils lozenge to treat H1N1 swine flu and H5N1 bird flu (news/ad - 2009)

Antidepressant-like effect of delta9-tetrahydrocannabinol and other cannabinoids isolated from Cannabis sativa L. (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2866040/?tool=pubmed

The plant cannabinoid Delta9-tetrahydrocannabinivarin can decrease signs of inflammation and inflammatory pain in mice. (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931567/?tool=pubmed

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

Non-CB1, non-CB2 receptors for endocannabinoids, plant cannabinoids, and synthetic cannabimimetics: focus on G-protein-coupled receptors and transient receptor potential channels. (abst – 2010)
http://www.unboundmedicine.com/medline/ebm/record/19847654/abstract/Non_CB1_non_CB2_receptors_for_endocannabinoids_plant_cannabinoids_and_synthetic_cannabimimetics_focus_on_G_protein_coupled_receptors_and_transient_receptor_potential_channels

A low-Δ9tetrahydrocannabinol cannabis extract induces hyperphagia in rats. (abst – 2010)

Cannabis constituents modulate δ9-tetrahydrocannabinol-induced hyperphagia in rats. (abst – 2010)

Preliminary efficacy and safety of an oromucosal standardized cannabis extract in chemotherapy-induced nausea and vomiting. (abst - 2010)
Scientists Find New Sources of Plant Cannabinoids Other than Medical Marijuana? (news – 2010)

Nature's (Legal) Cannabinoids (news - 2010)
http://www.mapinc.org/drugnews/v10/n126/a04.html?1194

Gut feelings about the endocannabinoid system (full – 2011)


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

The role of phytochemicals in the treatment and prevention of dementia. (abst – 2011)


Prospects for cannabinoid therapies in basal ganglia disorders. (abst – 2011)

Cannabinoi ds: occurrence and medicinal chemistry. (abst – 2011)
http://www.unboundmedicine.com/medline/ebm/record/21254969/abstract/Cannabinoids:_occurrence_and_medical_chemistry

Taming THC: potential cannabis synergy and phytocannabinoid-terpenoid entourage effects. (abst - 2011)

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

Phytocannabinoids as novel therapeutic agents in CNS disorders (abst – 2011)

Cannabis sativa and the endogenous cannabinoid system: therapeutic potential for appetite regulation. (abst – 2011)

Non-Δ9tetrahydrocannabinol phytocannabinoids stimulate feeding in rats. (abst – 2011)


POISONING - ORGANOPHOSPHATE


Activation of the endocannabinoid system by organophosphorus nerve agents  (abst - 2008)  http://www.nature.com/nchembio/journal/v4/n6/abs/nchembio.86.html


Cannabinoid Receptor Agonist WIN-55,212-2 Protects Differentiated PC12 Cells From Organophosphorus- Induced Apoptosis  (abst – 2010)  http://ijt.sagepub.com/content/29/2/201.abstract


POISONING - PARAQUAT

An effect of paraquat on the lungs of rabbits. Its implications in smoking contaminated marihuana.  (full - 1978)  http://chestjournal.chestpubs.org/content/74/4/418.long
Paraquat goes to pot.  (full - 1978)  http://chestjournal.chestpubs.org/content/74/4/358.long

Paraquat and marihuana. Assessing the hazard.  (full - 1978)  http://chestjournal.chestpubs.org/content/74/4/357.long


**POST-OPERATIVE PAIN**


Analgesic and adverse effects of an oral cannabis extract (Cannador) for postoperative pain  (abst - 2006)  http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=184


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

Cannabinoid Receptor Agonist Significantly Reduces Post-Operative Pain, Study Says (news – 2007)  
http://norml.org/index.cfm?Group_ID=7246

Evidence for a Role of Endocannabinoids, Astrocytes and p38 Phosphorylation in the Resolution of Postoperative Pain (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2878341/?tool=pmcentrez

Compound boosts marijuana-like chemical in the body to relieve pain at injury site (news - 2010)  

**POST TRAUMATIC STRESS DISORDER/ PTSD**

Never fear, cannabinoids are here (article - 2002)  
http://mcforadhd.free.fr/naturefear.pdf

The endogenous cannabinoid system controls extinction of aversive memories. (abst - 2002)  

'Natural' cannabis manages memory (news - 2002)  
http://news.bbc.co.uk/2/hi/health/2163405.stm

Study: Marijuana Eases Traumatic Memories (news - 2002)  

Cannabis-like Brain Chemical Blocks Out Bad Memories (news - 2002)  
http://www.scientificamerican.com/article.cfm?id=cannabis-like-brain-chemi

Endocannabinoids extinguish bad memories in the brain (news - 2002)  
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=123#1

Marijuana-Like Compound Banishes Fear (news - 2002)  

Natural high helps banish bad memories (news - 2002)  

Israel to soothe soldiers with marijuana (news - 2004)  

Cannabinoid CB1 Receptor Mediates Fear Extinction via Habituation-Like Processes (full - 2006)  
http://www.jneurosci.org/cgi/content/full/26/25/6677?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=400&resourcetyp=HWCIT

Aversive memory reactivation engages in the amygdala only some neurotransmitters involved in consolidation.  (full – 2006)  http://learnmem.cshlp.org/content/13/4/426.long

PTSD and Cannabis: A Clinician Ponders Mechanism of Action  (news - 2006)  
http://ccrmg.org/journal/06spr/perspective2.html

Cannabis Eases Post Traumatic Stress  (news - 2006)  
http://ccrmg.org/journal/06spr/ptsd.html

Modulation of Fear and Anxiety by the Endogenous Cannabinoid System  (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2789283/?tool=pmcentrez

Inhibition of fatty-acid amide hydrolase accelerates acquisition and extinction rates in a spatial memory task.  (full – 2007)  

Posttraumatic stress symptom severity predicts marijuana use coping motives among traumatic event-exposed marijuana users  (abst - 2007)  
http://marijuana.researchtoday.net/archive/4/8/1378.htm

Medical Marijuana: PTSD Medical Malpractice  (news - 2007)  

Cannabis for the Wounded - Another Walter Reed Scandal  (news - 2007)  
http://www.libertypost.org/cgi-bin/readart.cgi?ArtNum=179973&Disp=11

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

Marijuana Therapy for Veterans with PTSD  (article – 2008)  
http://www.benefitofmarijuana.com/ask/reader-questions/marijuana-therapy-for-veterans-with-ptsd/

Cannabinoid Receptor Activation in the Basolateral Amygdala Blocks the Effects of Stress on the Conditioning and Extinction of Inhibitory Avoidance  (full - 2009)  
http://www.jneurosci.org/cgi/content/full/29/36/11078?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=Dr.+Irit+Akirav+&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&resourcetyp=HWCIT

The use of a synthetic cannabinoid in the management of treatment-resistant nightmares in posttraumatic stress disorder (PTSD).  (abst - 2009)  
Cannabinoid receptors in brain: pharmacogenetics, neuropharmacology, neurotoxicology, and potential therapeutic applications  (abst – 2009)  http://pharmgkb.org/pmid/19897083


Marijuana could prove helpful for post-traumatic stress disorder patients.  (news - 2009)  http://www.thefreelibrary.com/Marijuana+could+prove+helpful+for+post-traumatic+stress+disorder...a0211332139

'Spot' may help combat PTSD U. of Haifa study shows  (news - 2009)  http://www.vawatchdog.org/09/nf09/nfnov09/nf110509-7.htm

PTSD contributes to teen and young adult cannabis use disorders.  (full – 2010)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2784238/?tool=pubmed


The role of cannabinoids in modulating emotional and non-emotional memory processes in the hippocampus.  (full – 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3124830/?tool=pubmed


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

**PRADER WILLI SYNDROME**

Hemp Packs in Powerful Source of Preconception Nutrition  (article - no date)

Effects of Alcohol and Cannabis during Labor.  (article - 1930) (on page 2)

Nonmutagenic action of cannabinoids in vitro  (abst - 1978)
http://content.karger.com/ProdukteDB/produkte.asp?Doi=136789

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=&fulltext=marihuana&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

Effects of prenatal exposure to cannabinoids.  (abst – 1985)

Tolerance to the luteinizing hormone and prolactin suppressive effects of delta-9-tetrahydrocannabinol develops during chronic prepubertal treatment of female rats.  (abst - 1986)
http://jpet.aspetjournals.org/content/238/3/1034.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=3760&resourcetype=HWCIT

A comparison of the effects of prenatal exposure to tobacco, alcohol, cannabis and 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)

Prenatal marijuana use and neonatal outcome. (abst – 1991)

Analysis of Facial Shape in Children Gestationally Exposed to Marijuana, Alcohol, and/or Cocaine (abst - 1992)
http://pediatrics.aappublications.org/cgi/content/abstract/89/1/67?maxtoshow=&hits=80&RESULTFORM
AT=&fulltext=marihuana&searchid=1&FIRSTINDEX=960&resourcetype=HWCIT

Tobacco and marijuana use on offspring growth from birth through 3 years of age. (abst - 1992)
&ordinalpos=10&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed
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THREE THINGS MARIJUANA DOESN'T DO (news - 1992)
http://www.ukcia.org/research/mjfaq2.php


The preimplantation mouse embryo is a target for cannabinoid ligand-receptor signaling. (full - 1995) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC40821/

Prenatal exposure to marihuana and tobacco during infancy, early and middle childhood: effects and an attempt at synthesis. (abst – 1995)

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

Mortality Within the First 2 Years in Infants Exposed to Cocaine, Opiate, or Cannabinoid During Gestation (abst - 1997)
http://pediatrics.aappublications.org/cgi/content/abstract/100/1/79?maxtoshow=&hits=80&RESULTFORM
AT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=640&resourcetype=HWCIT

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

http://safeaccess.ca/research/cannabis_nausea2006.pdf

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 - 2006)
http://ccrmg.org/journal/06spr/dreher.html#morning

The role of the endocannabinoid system in gametogenesis, implantation and early pregnancy    (full - 2007)  
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Prevalence of gestational exposure to cannabis in a Mediterranean city by meconium analysis.    (abst - 2007)  

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)  
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Localisation and Function of the Endocannabinoid System in the Human Ovary  (full - 2009)  
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Marijuana/ Cannabis use in Pregnancy – Dr. Melanie Dreher  (article – 2009)  

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

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STORAGE


STROKE

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**YOUNG ADULTS** - see CHILDREN/ YOUNG ADULTS
A few definitions to help you along-

**Agonist** – a chemical that activates a receptor
**Analogue** – a synthetic version
**Anandamide** - A “messenger chemical” made by your body – similar to THC
**Angiogenesis** - making new blood vessels, often to feed a tumor
**Antagonist** – a chemical that blocks the action of an agonist
**Anti-nociception** - pain relieving
**Anxiolytic** – calming, anti-anxiety
**Apoptosis** - a process that leads to the normally programed death of a cell.
**Autophagy** – the cell self-destructs

**Beta amyloid plaque / β-amyloid/ Aβ** – the stuff that gums up your brain in Alzheimer’s
**Bronchodilator** – opens up the lungs
**Cannabinoids** – they activate CB receptors and come from your body, cannabis or labs.
**Chronic** – long term

**Downregulation** – a decrease in number

**Endocannabinoid** – a chemical messenger made by your body- anandamide and 2-AG
**Endocannabinoid System** – a system of chemical receptors on and between your cells
**Endogenous** – made in your own body
**Epidermal** – pertaining to the skin

**Hyperalgesia** – severe pain

**In vivo** – in a live animal
**In vitro** – in a test tube
**Ischemia** – damage from lack of blood to an area

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

**Metastasis** – spreading through the body

**Neurogenesis** – new brain cells are being formed
**Neuropathic Pain** – pain due to nerve injury
**Neuroprotective** – protects nerves and brain cells
**Nonpsychoactive** – won’t get you high

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

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

**Upregulation** – increase in number

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

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

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

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

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

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

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

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

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

If the truth won’t do, then something is wrong!
Introduction - July 2010 - This is my third year of sharing "Granny's list" with all of you. Last year, I told you "How this list came about." This year, it's "Why you should be sharing my list!"

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Here's some of what I have found. All I've done is copy the URLs, then put them all in some semblance order for everyone to use as a reference. Please feel free to share this list with anyone who could benefit from it.
July 30, 2007

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

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

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

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