Granny Storm Crow's List - January 2015

CONDITIONS and RELATED ARTICLES

* = older studies in Pre-2000 List.

2000 to 2009

ACNE

Cannabis (Marijuana) Being Looked at For Acne Clearing Properties  (news – 2007)

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

Cannabis - Why it could be an acne cure  (news – 2008)

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

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

ACUPUNCTURE/ ELECTROACUPUNCTURE

Processing cardiovascular information in the vIPAG during electroacupuncture in rats: roles of endocannabinoids and GABA  (full – 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2692771/#!po=4,54545

Pretreatment with electroacupuncture induces rapid tolerance to focal cerebral ischemia through regulation of endocannabinoid system.  (full – 2009)
http://stroke.ahajournals.org/content/40/6/2157.long

ADD/ ADHD *

Recipe For Trouble  (anecdotal/ news - 2002)
http://www.cbsnews.com/stories/2002/03/05/48hours/main503022.shtml

Association between cannabinoid receptor gene (CNR1) and childhood attention deficit/hyperactivity disorder in Spanish male alcoholic patients  (full - 2003)
http://www.nature.com/mp/journal/v8/n5/full/4001278a.html

Cannabinoids effective in animal model of hyperactivity disorder  (abst - 2003)
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=162#4

Cannabis 'Scrips to Calm Kids?  (news - 2004)
http://www.foxnews.com/story/0,2933,117541,00.html

Fitness to drive in spite (because) of THC  (abst - 2007)
http://www.unboundmedicine.com/medline/ebm/record/17879702/abstract/%5BFitness_to_drive_in_spite__because_of_THC%5D

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

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

Cannabis Improves Symptoms of ADHD  (full - 2008)

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

Autism, ADD, ADHD and Marijuana Therapy  (news - 2008)

ALTERED ANANDAMIDE DEGRADATION IN ATTENTION-DEFICIT/HYPERACTIVITY DISORDER  (full – 2009)
http://www.neurology.org/content/72/17/1526.long

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

Bidirectional regulation of novelty-induced behavioral inhibition by the endocannabinoid system.  (abst – 2009)
Cannabinoid receptors in brain: pharmacogenetics, neuropharmacology, neurotoxicology, and potential therapeutic applications  (abst – 2009)  

Doctors recommend medical marijuana for minors with ADHD in California  (news – 2009)  
http://www.nydailynews.com/life-style/health/doctors-recommend-medical-marijuana-minors-adhd-california-article-1.419585#ixzz2Ui5xXtRZ

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

http://www.rxmarijuana.com/lee.htm

**ADDITION** *

Which drugs are the most addictive?  (chart – undated)  
http://www.druglibrary.org/schaffer/Library/basicfax5.htm

Tokepure  (news – undated)  
http://ukcia.org/activism/tokepure.php

Variation in youthful risks of progression from alcohol and tobacco to marijuana and to hard drugs across generations.  (full – 2001)  

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

Chronic Morphine Modulates the Contents of the Endocannabinoid, 2-Arachidonoyl Glycerol, in Rat Brain  (full - 2003)  
http://www.nature.com/npp/journal/v28/n6/full/1300117a.html

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2943839/

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

Review of the Validity and Significance of Cannabis Withdrawal Syndrome  (full – 2004)  
Cannabis Abuse is Not a Risk Factor for Treatment Outcome in Methadone Maintenance Treatment: a 1-year Prospective Study in an Israeli Clinic. (abst – 2004)  

Alcohol Consumption Moderates the Link Between Cannabis Use and Cannabis Dependence in an Internet Survey. (abst – 2005)  
http://psycnet.apa.org/journals/adb/19/2/212/

Teen Drug Use Has Changed Little Since 1970s : Genetics, environment, nature of drug determine number of new users who become dependent. (news – 2005)  

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

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

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

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

Buspirone, Fluoxetine May Counter Cannabis Use (news – 2007)  

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

Study of 4000 indicates marijuana discourages use of hard drugs. (news – 2008)  
http://www.csdp.org/publicservice/medicalmj08.htm

Calling B.S. on the Idea of 'Marijuana Addiction' (news – 2008)  
http://www.alternet.org/drugs/80408/?page=entire

When Your Kid Smokes Pot (news – 2008)  

Adolescent Exposure to Chronic Delta-9-Tetrahydrocannabinol Blocks Opiate Dependence in Maternally Deprived Rats (full - 2009)  
http://www.nature.com/npp/journal/v34/n11/full/npp200970a.html
Decrease in Adolescent Cannabis Use From 2002 to 2006 and Links to Evenings Out With Friends in 31 European and North American Countries and Regions (full - 2009)  

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

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

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

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

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

Marijuana: Help or hassle? (news – 2009)  
http://www.heretohelp.bc.ca/visions/cannabis-vol5/marijuana-help-or-hassle

Cannabis use among teens is down - perhaps not everyone got the memo (news - 2009)  

ADOLESCENTS/YOUNG ADULTS

Variation in youthful risks of progression from alcohol and tobacco to marijuana and to hard drugs across generations. (full – 2001)  

Patterns of use, cannabis beliefs and dependence: study of 159 adolescent users (abst – 2002)  

Experiences with THC-treatment in children and adolescents (abst - 2003)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=80


Aetiology - Review: current evidence does not show a strong causal relation between the use of cannabis in young people and psychosocial harm (full - 2004)  
http://ebmh.bmj.com/content/7/4/119.long
Treatment with CBD in oily solution of drug-resistant paediatric epilepsies. (abst - 2005)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=173&search_pattern=EPILEPSY


Teens in Recovery Drop Drugs but Add Pounds (news – 2005)

Teen Drug Use Has Changed Little Since 1970s: Genetics, environment, nature of drug determine number of new users who become dependent. (news – 2005)

A preliminary DTI study showing no brain structural change associated with adolescent cannabis use (full - 2006)

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

The Mental Health Risks of Adolescent Cannabis Use (full - 2006)


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

Cannabis is a First-Line Treatment for Childhood Mental Disorders (news - 2006) http://www.counterpunch.org/2006/07/08/cannabis-is-a-first-line-treatment-for-childhood-mental-disorders/


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

Topical adelmidrol 2% emulsion, a novel aliamide, in the treatment of mild atopic dermatitis in pediatric subjects: a pilot study  

Teens who use only cannabis appear to function better than those who also use tobacco  

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

Are Cigarettes More of a Drag on Teens than Marijuana?  
http://wwwscientificamerican.com/article.cfm?id=are-cigarettes-more-of-a

Marijuana Use by Young People: The Impact of State Medical Marijuana Laws  

Understanding the association between adolescent marijuana use and later serious drug use: gateway effect or developmental trajectory?  

Characteristics of Adolescents Who Use Cannabis But Not Tobacco  

When Your Kid Smokes Pot  

Smokers of Cigarettes and Marijuana Fare Worse  

Maternal tobacco, cannabis and alcohol use during pregnancy and risk of adolescent psychotic symptoms in offspring.  
http://bip.rcpsych.org/cgi/content/full/195/4/294

White Matter Integrity in Adolescents with Histories of Marijuana Use and Binge Drinking.  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2762024/
Decrease in Adolescent Cannabis Use From 2002 to 2006 and Links to Evenings Out With Friends in 31 European and North American Countries and Regions  (full - 2009)

Cannabis and tobacco use: where are the boundaries? A qualitative study on cannabis consumption modes among adolescents.  (full - 2009)
http://her.oxfordjournals.org/content/25/1/74.long

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

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


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

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)

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

Doctors recommend medical marijuana for minors with ADHD in California (news – 2009)
http://www.nydailynews.com/life-style/health/doctors-recommend-medical-marijuana-minors-adhd-california-article-1.419585#ixzz2Ui5xXtRZ

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


Cannabis use among teens is down - perhaps not everyone got the memo  (news - 2009)
AGING - also see OLDER ADULT CANNABIS USERS, MENOPAUSE

Post-Menopausal Hot Flashes by Anonymous (anecdotal – undated)
http://www.rxmarijuana.com/shared_comments/menopause.htm

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

Decreased age-related cardiac dysfunction, myocardial nitratrative stress, inflammatory gene expression, and apoptosis in mice lacking fatty acid amide hydrolase. (full – 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225473/?tool=pubmed


Cannabinoid receptor stimulation is anti-inflammatory and improves memory in old rats (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2586121/?tool=pmcentrez


Cannabinoid agonist WIN-55,212-2 partially restores neurogenesis in the aged rat brain (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3011092/?tool=pubmed
Cannabinoid receptor type 1 protects against age-related osteoporosis by regulating osteoblast and adipocyte differentiation in marrow stromal cells. (full – 2009) http://www.sciencedirect.com/science/article/pii/S1550413109002022

**ALCOHOLISM / ALCOHOL** *

Which drugs are the most addictive? (chart – undated) http://www.druglibrary.org/schaffer/Library/basicfax5.htm


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

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

Endocannabinoid signaling via cannabinoid receptor 1 is involved in ethanol preference and its age-dependent decline in mice (full - 2003) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC298783/?tool=pmcentrez


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

Role of the endocannabinoid system in the development of tolerance to alcohol
Ethanol Induces Higher Bec in Cb1 Cannabinoid Receptor Knockout Mice While Decreasing Ethanol Preference.  (full – 2005)  
http://alcalc.oxfordjournals.org/content/40/1/15.long

Suppressing effect of the cannabinoid CB1 receptor antagonist, SR147778, on alcohol intake and motivational properties of alcohol in alcohol-prefering sP rats.  (full – 2005)  
http://alcalc.oxfordjournals.org/content/40/1/54.long

Alcohol Consumption Moderates the Link Between Cannabis Use and Cannabis Dependence in an Internet Survey.  (abst – 2005)  
http://psycnet.apa.org/journals/adb/19/2/212/

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

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

In vivo effects of CB1 receptor ligands on lipid peroxidation and antioxidant defense systems in the rat brain of healthy and ethanol-treated rats.  (full – 2006)  

SR147778, a CB1 cannabinoid receptor antagonist, suppresses ethanol preference in chronically alcoholized Wistar rats  (abst – 2006)  

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

The endocannabinoid signaling system: a potential target for next-generation therapeutics for alcoholism  (full - 2007)  

Involvement of cannabinoid CB2 receptor in alcohol preference in mice and alcoholism in humans  (abst – 2007)  

Effects of different substance misuse in genital reflexes of paradoxical sleep deprived male rats.  (abst – 2007)  

Report: Marijuana Less Harmful than Alcohol or Tobacco  (news - 2008)  
http://www.drugfree.org/join-together/other/report-marijuana-less

White Matter Integrity in Adolescents with Histories of Marijuana Use and Binge Drinking.  (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2762024/
Maternal tobacco, cannabis and alcohol use during pregnancy and risk of adolescent psychotic symptoms in offspring  
(full – 2009)  
http://bjp.rcpsych.org/content/195/4/294.full

Cannabis as a substitute for alcohol and other drugs.  
(full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2795734/?tool=pmcentrez

During pregnancy, recreational drug-using women stop taking ecstasy (3,4-methylenedioxyn-N-methylamphetamine) and reduce alcohol consumption, but continue to smoke tobacco and cannabis: initial findings from the Development and Infancy Study.  
(full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3564500/

Magnolia officinalis reverses alcoholic fatty liver by inhibiting the maturation of sterol regulatory element-binding protein-1c.  
(full – 2009)  

Daily marijuana users with past alcohol problems increase alcohol consumption during marijuana abstinence.  
(abort - 2009)  
http://www.unboundmedicine.com/medline/ebm/record/19783385/full_citation/Daily_marijuana_users_with_past_alcohol_problems_increase_alcohol_consumption_during_marijuana_abstinence

Cannabis, Tobacco and Alcohol Use in Canada  
(news – 2009)  

Tobacco-Related Health Costs: $800; Booze-Related Health Costs: $165; Pot-Related Health Costs: $20 – Any Questions?  
(news – 2009)  
http://www.huffingtonpost.com/paul-armentano/tobacco-related-health-co_b_362539.html

Maternal Marijuana use not Associated with Psychotic Symptoms, but Alcohol is  
(news - 2009)  

Marijuana: Help or hassle?  
(news – 2009)  
http://www.heretohelp.bc.ca/visions/cannabis-vol5/marijuana-help-or-hassle

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

Medical Marijuana and Delirium Tremens  
(news – 2009)  
https://www.marijuanadoctors.com/content/ailments/view/22?ailment=delirium-tremens

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

Medical Marijuana and Alcoholism  
(news – 2009)  
https://www.marijuanadoctors.com/content/ailments/view/6?ailment=alcoholism
**ALLERGIES AND CANNABIS**


**ALLERGIES TO CANNABIS** *

- Sensitization and Allergy to Cannabis sativa Leaves in a Population of Tomato Sensitized Patients. (abst - 2008) http://marijuana.researchtoday.net/archive/5/2/1629.htm

**ALS / AMYOTROPHIC LATERAL SCLEROSIS**

- Marijuana in the management of amyotrophic lateral sclerosis (abst - 2001) http://ajh.sagepub.com/cgi/content/abstract/18/4/264?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=1200&resourcetype=HWCIT


Increasing cannabinoid levels by pharmacological and genetic manipulation delay disease progression in SOD1 mice (full - 2006) http://www.ncbi.nlm.nih.gov/pubmed/16781706


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

The endocannabinoid system in targeting inflammatory neurodegenerative diseases (full - 2007) http://www.academia.edu/5172933/The_endocannabinoid_system_in_targeting_inflammatory_neurodegenerative_diseases


Altered presymptomatic AMPA and cannabinoid receptor trafficking in motor neurons of ALS model mice: implications for excitotoxicity. (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3991137/


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

Medical Marijuana and Amyotrophic Lateral Sclerosis (ALS) (news – 2009)  
https://www.marijuanaldoctors.com/content/ailments/view/92?ailment=amyotrophic-lateral-sclerosis-als-

Medical Marijuana and Lou Gehrig's Disease (news – 2009)  
https://www.marijuanaldoctors.com/content/ailments/view/91?ailment=lou-gehrig-s-disease

ALZHEIMER'S DISEASE *

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

(Assignee (owner)- the US GOVERNMENT!)  
http://www.google.com/patents/US6630507

Cannabinoid CB2 Receptors and Fatty Acid Amide Hydrolase Are Selectively Overexpressed in Neuritic Plaque-Associated Glia in Alzheimer's Disease Brains (full – 2003)  
http://www.jneurosci.org/content/23/35/11136.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&resourcetype=HWCIT

http://www.cannabis-medit.org/studies/ww_en_db_study_show.php?s_id=61

http://www.cannabis-medit.org/studies/ww_en_db_study_show.php?s_id=92

Neuroprotective effect of cannabidiol, a non-psychoactive component from Cannabis sativa, on β-amyloid-induced toxicity in PC12 cells (full - 2004)  
http://www3.interscience.wiley.com/cgi-bin/fulltext/118757302/HTMLSTART

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

Prevention of Alzheimer's Disease Pathology by Cannabinoids: Neuroprotection Mediated by Blockade of Microglial Activation (full - 2005)  
http://www.jneurosci.org/cgi/content/full/25/8/1904

Stimulation of cannabinoid receptor 2 (CB2) suppresses microglial activation


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

Marijuana Ingredient May Stall Decline From Alzheimer's (news - 2005)  
http://www.sciencedaily.com/releases/2005/02/050224111638.htm

Research shows preventive effects of cannabinoids on Alzheimer’s disease (news – 2005)  

Marijuana Slows Alzheimer's Decline (news - 2005)  
http://www.mapinc.org/drugnews/v05/n307/a10.html

Marijuana May Block Alzheimer's (news - 2005)  
http://news.bbc.co.uk/2/hi/health/4286435.stm

Marijuana Ingredient May Help Alzheimer's (news - 2005)  

Cannabinoids reduce the progression of Alzheimer's disease in animals (news - 2005)  
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=187#1

Pass the Doobie, pops (news - 2005)  
http://www.thefreelibrary.com/Pass+the+doobie%2c+pops.-a0131273013

The Cannabinoid CB2 Receptor as a Target for Inflammation-Dependent Neurodegeneration (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2435344/?tool=pmcentrez

A Molecular Link between the Active Component of Marijuana and Alzheimer’s Disease Pathology (full - 2006)  
http://www.ukcia.org/research/AlzheimersDiseasePathology.pdf

Delta-9-tetrahydrocannabinol for nighttime agitation in severe dementia (full/ forum repost - 2006)  


Marijuana's Active Ingredient May Slow Progression Of Alzheimer's Disease (news - 2006) http://www.sciencedaily.com/releases/2006/10/061009031544.htm

Marijuana may help stave off Alzheimer’s  (news - 2006) http://www.msnbc.msn.com/id/15145917/


Cannabidiol in vivo blunts β-amyloid induced neuroinflammation by suppressing IL-1β and iNOS expression  (full - 2007) http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2189818&tool=pmcentrez

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

The endocannabinoid system in targeting inflammatory neurodegenerative diseases (full - 2007)
http://www.academia.edu/5172933/The_endocannabinoid_system_in_targeting_inflammatory_neurodegenerative_diseases

Comparison Analysis of Gene Expression Patterns between Sporadic Alzheimer's and Parkinson's Disease (abst – 2007)
http://iospress.metapress.com/content/336t86725725564t/?p=00368d67a25c414b9e1ecc38b534bd6c&pi=10

Cannabinoid CB2 receptors in human brain inflammation (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219537/

Cannabinoid receptor stimulation is anti-inflammatory and improves memory in old rats (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2586121/?tool=pmcentrez

Inflammation and aging: can endocannabinoids help? (full - 2008)

Amyloid precursor protein 96-110 and beta-amyloid 1-42 elicit developmental anomalies in sea urchin embryos and larvae that are alleviated by neurotransmitter analogs for acetylcholine, serotonin and cannabinoids. (full – 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2579926/?tool=pubmed


Scientists are High on Idea that Cannabis Reduces Memory Impairment (news - 2008) http://www.physorg.com/news146320102.html


Cannabis 'could stop dementia in its tracks' (news - 2008)


Cannabis-derived medicines may help Alzheimer's (news - 2008) [http://www.news-medical.net/news/2008/03/10/36024.aspx]


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


Medical Marijuana and Alzheimer's Disease (news – 2009) [https://www.marijuanadoctors.com/content/ailments/view/76?ailment=alzheimer-s-disease]

**AMOTIVATIONAL SYNDROME** *

ANECDOtal / PERSONal STORIES

ANECDOtal ARTICLES  (anecdotal - undated)
http://cannabislink.ca/medical/#medanecdotal

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

Cannabis and Aspergers, My Experience by Anonymous  (anecdotal- undated)
http://rxmarijuana.com/cannabis_aspergers.htm

Medical Marijuana as a Cure for Autism  (anecdotal – undated)
http://www.autism-pdd.net/testdump/test13417.htm

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

Marijuana and Epilepsy  (anecdotal- undated)  http://www.rxmarihuana.com/epilepsy.htm

Bipolar Disorder and Endometriosis by Anonymous  (anecdotal – undated)
http://rxmarijuana.com/shared_comments/Endometriosis4.htm

Hiccups by Ben  (anecdotal – undated)  http://rxmarijuana.com/shared_comments/hiccups.htm

MARIJUANA AND IRRITABLE BOWEL SYNDROME (IBS)
(anecdotal- undated)  http://www.rxmarihuana.com/christine.htm

Lupus by Randi Cox  (anecdotal – undated)
http://rxmarijuana.com/shared_comments/lupus2.htm

Lyme Disease by Cynkay Morningstar  (anecdotal – undated)
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The Cannabinoid CB2 Receptor as a Target for Inflammation-Dependent Neurodegeneration (full – 2006)
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The endocannabinoid 2-AG protects the blood-brain barrier after closed head injury and inhibits mRNA expression of proinflammatory cytokines. (abst – 2006)

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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The cannabinoid CB1 receptor regulates bone formation by modulating adrenergic signaling. (full – 2008) http://www.fasebj.org/cgi/content/full/22/1/285


LSUHSC research reports new method to protect brain cells from diseases like Alzheimer’s (news – 2008)

Breakthrough in treatment of Traumatic Brain Injury: KeyNeurotek’s clinical study reaches primary endpoint and shows significant increase in survival (news – 2009)
BREASTFEEDING/ LACTATION/ INFANT APPETITE *

Born with the munchies  (news - 2000)  (may need registration)  

Critical role of the endogenous cannabinoid system in mouse pup suckling and growth  

The endocannabinoid system: function in survival of the embryo, the newborn and the neuron.  

Endocannabinoids in the central nervous system--an overview.  

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

Endocannabinoids and food intake: newborn suckling and appetite regulation in adulthood.  

The cannabinoid system and its importance in the perinatal period  

Endocannabinoids, feeding and suckling – from our perspective  
(full – 2006)  http://www.nature.com/ijo/journal/v30/n1s/full/0803274a.html

Inhibition of milk ingestion and growth after administration of a neutral cannabinoid CB1 receptor antagonist on the first postnatal day in the mouse.  

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Elevated cannabinoid 1 receptor mRNA is linked to eating disorder related behavior and attitudes in females with eating disorders. (abst – 2009) http://www.ncbi.nlm.nih.gov/pubmed/19046818

Medical Marijuana and Bulimia (news – 2009) https://www.marijuanadoctors.com/content/ailments/view/18?ailment=bulimia

BURN INJURY


CACHEXIA – weight loss from toxic cytokines deranging carbohydrate, lipid and protein metabolism

Comparison of orally administered cannabis extract and delta-9-tetrahydrocannabinol in treating patients with cancer-related anorexia-cachexia syndrome: a multicenter, phase III, randomized, double-blind, placebo-controlled clinical trial from the Cannabis-In-Cachexia-Study-Group. (full - 2006)  http://jco.ascopubs.org/content/24/21/3394.long


**CAFFEINE and the ENDOCANNABINOID SYSTEM**


**CANCER – ADRENAL CORTICAL**


**CANCER – BLADDER / URETHRAL**


**CANCER – BONE**
Acute and chronic administration of the cannabinoid receptor agonist CP 55,940 attenuates tumor-evoked hyperalgesia. (full – 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1995024/


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The cannabinoid receptor agonist, WIN 55, 212-2, attenuates tumor-evoked hyperalgesia through peripheral mechanisms. (full – 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2678169/


**CANCER – BREAST** *


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Effect on cancer cell proliferation of palmitoylethanolamide, a fatty acid amide interacting with both the cannabinoid and vanilloid signalling systems. (abst – 2002) http://www.ncbi.nlm.nih.gov/pubmed/12570018


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Cannabinoids As Cancer Hope (article - 2006) http://www.norml.org/index.cfm?Group_ID=6814


A combination of THC and prochlorperazine effective in reducing vomiting in women following breast surgery (news - 2006) http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=219#1


Cannabidiol as a novel inhibitor of Id-1 gene expression in aggressive breast cancer cells. (full - 2007) http://mct.aacrjournals.org/content/6/11/2921.long


Cannabidiol may be helpful in reducing the aggressiveness of breast cancer cells (news - 2007) http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=258


Cannabis compound may stop the spread of breast cancer cells        (news - 2007)  

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

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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Cannabinoids for cancer treatment: progress and promise.      (full – 2008)  http://cancerres.aacrjournals.org/content/68/2/339.long


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


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


CXCR4-chemokine receptor and Cannabinoid Receptor 2 (CB2) heterodimerization suggests a mechanism for breast metastasis regulation  (abst – 2009)

http://www.aacrmeetingabstracts.org/cgi/content/meeting_abstract/2009/2_Annual_Meeting/4280?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=date&resource=HWCIT

CANCER - CERVICAL

Arachidonyl ethanolamide induces apoptosis of uterine cervix cancer cells via aberrantly expressed vanilloid receptor-1  (abst - 2004)

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


Inhibition of Cancer Cell Invasion by Cannabinoids via Increased Expression of Tissue Inhibitor of Matrix Metalloproteinases-1  (full - 2008)
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Marijuana use and cervical HPV/neoplasia  (abst - 2008)
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R(+) -methanandamide-induced apoptosis of human cervical carcinoma cells involves a cyclooxygenase-2-dependent pathway.  (abst – 2009)

CANCER – CHOLANGIOCARCINOMA

Opposing Actions of Endocannabinoids on Cholangiocarcinoma Growth  (full - 2007)
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The endocannabinoid anandamide inhibits cholangiocarcinoma growth via activation of the noncanonical Wnt signaling pathway  (full - 2008)
Emerging role of cannabinoids in gastrointestinal and liver diseases: basic and clinical aspects (abst – 2008)  http://gut.bmj.com/content/57/8/1140.abstract

CANCER - COLON / COLORECTAL

Possible endocannabinoid control of colorectal cancer growth. (abst - 2003) Possible endocannabinoid control of colorectal can... [Gastroenterology. 2003] - PubMed result


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Opposing Actions of Endocannabinoids on Cholangiocarcinoma Growth:
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The cannabinoid delta(9)-tetrahydrocannabinol inhibits RAS-MAPK and PI3K-AKT survival signalling and induces BAD-mediated apoptosis in colorectal cancer cells.

The cannabinoid CB(2) receptor; a good friend in the gut.

Increased endocannabinoid levels reduce the development of precancerous lesions in the mouse colon.

Cannabinoid receptor activation induces apoptosis through tumor necrosis factor alpha-mediated ceramide de novo synthesis in colon cancer cells.

Loss of cannabinoid receptor 1 accelerates intestinal tumor growth

Emerging role of cannabinoids in gastrointestinal and liver diseases: basic and clinical aspects

Estrogenic induction of cannabinoid CB1 receptor in human colon cancer cell lines.

Turned-Off Cannabinoid Receptor Turns On Colorectal Tumor Growth

Marijuana takes on colon cancer

Cannabinoid cell surface receptor plays a tumor-suppressing role in human colorectal cancer

Induction of the antitumorigenic NSAID-activated gene (NAG-1) in synthetic hexahydrocannabinol-induced apoptosis of human colorectal cancer cells

Cannabinoid receptor-independent cytotoxic effects of cannabinoids in human colorectal carcinoma cells: synergism with 5-fluorouracil.
Cannabinoids in intestinal inflammation and cancer (abst - 2009)  

CANCER - ENDOMETRIAL

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https://www.marijuanadoctors.com/content/ailments/view/69?ailment=cancer-uterine

CANCER – EWING TUMORS - also see CANCER – PNET

High expression of the evolutionarily conserved alpha/beta hydrolase domain containing 6 (ABHD6) in Ewing tumors. (full – 2009)  

CANCER – GASTRIC *

Human tumor cell growth inhibition by nontoxic anthocyanidins, the pigments in fruits and vegetables. (abst – 2005)  

The effect of cannabinoid to gastric cancer (abst - 2006)  
http://www.aacrmeetingabstracts.org/cgi/content/abstract/2006/1/958-a?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=1360&resourcetype=HWCIT

Pharmacological synergism between cannabinoids and paclitaxel in gastric cancer cell lines. (abst – 2008)  

CANCER – GLIOMA/ BRAIN CANCERS *

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Anti-tumoral action of cannabinoids: involvement of sustained ceramide accumulation and extracellular signal-regulated kinase activation. (full - 2000)  

Marijuana's Active Ingredient Targets Deadly Brain Cancer (news - 2000)  

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Inhibition of Glioma Growth in Vivo by Selective Activation of the CB2 Cannabinoid Receptor1 (full - 2001)  
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Inhibition of Rat C6 Glioma Cell Proliferation by Endogenous and Synthetic Cannabinoids. Relative Involvement of Cannabinoid and Vanilloid Receptors (full - 2001)  
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Control of the cell survival/death decision by cannabinoids. (abst – 2001)  

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De novo-synthesized ceramide is involved in cannabinoid-induced apoptosis. (full - 2002)  

Cannabinoids and cell fate. (abst – 2002)  


Inhibition of tumor angiogenesis by cannabinoids (full - 2003)  
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Cannabinoids Inhibit the Vascular Endothelial Growth Factor Pathway in Gliomas  
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Antitumor effects of cannabidiol, a nonpsychoactive cannabinoid, on human glioma cell lines.  
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Marijuana May Stall Brain Tumor Growth  
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Marijuana Extract Fights Brain Cancer in Mice  
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Cancer Killer  
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Marijuana Ingredient Inhibits VEGF Pathway Required For Brain Tumor Blood Vessels  
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Cannabis extract makes brain tumors shrink, halts growth of blood vessels  
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Endocannabinoid metabolism in human glioblastomas and meningiomas compared to human non-tumour brain tissue  
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Cannabinoids selectively inhibit proliferation and induce death of cultured human glioblastoma multiforme cells. (abst - 2005)  


Cannabinoids down-regulate PI3K/Akt and Erk signalling pathways and activate proapoptotic function of Bad protein. (abst – 2005)  

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Amphiregulin is a factor for resistance of glioma cells to cannabinoid-induced apoptosis  (abst – 2009)  

Predominant CB2 receptor expression in endothelial cells of glioblastoma in humans.  (abst – 2009)  

THC initiates brain cancer cells to destroy themselves  (news - 2009)  
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Active Ingredient in Marijuana Kills Brain Cancer Cells  (news - 2009)  

Marijuana Chemical May Fight Brain Cancer  (news - 2009)  

Active Component Of Marijuana Has Anti-Cancer Effects, Study Suggests  (news - 2009)  

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Medical Marijuana and Brain Tumor, Malignant  (news – 2009)  
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**CANCER - HEAD AND NECK**

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

Marijuana use and Risk of Oral Squamous Cell Carcinoma  (full - 2004)  
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Cannabis use and cancer of the head and neck: Case-control study  (full - 2008)  
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The presence of aberrant DNA methylation in noncancerous esophageal mucosae in association with smoking history: a target for risk diagnosis and prevention of esophageal cancers.  (full – 2009)  

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

**CANCER - KAPOSI'S SARCOMA**

THC inhibits lytic replication of gamma oncogenic herpes viruses in vitro  (full - 2004)  

The CB1/CB2 receptor agonist WIN-55,212-2 reduces viability of human Kaposi’s sarcoma cells in vitro  (abst - 2009)  

Recreational Drug Use and Risk of Kaposi’s Sarcoma in HIV- and HHV-8-Coinfected Homosexual Men  (full - 2009)  
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**CANCER – LEUKEMIA** *

Anandamide Induces Apoptosis in Human Cells via Vanilloid Receptors  
(full - 2000)  
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Characterization of palmitoylethanolamide transport in mouse Neuro-2a neuroblastoma and rat RBL-2H3 basophilic leukaemia cells: comparison with anandamide.  
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Targeting CB2 cannabinoid receptors as a novel therapy to treat malignant lymphoblastic disease  (full - 2002)  
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Cannabis-induced cytotoxicity in leukemic cell lines: the role of the cannabinoid receptors and the MAPK pathway (full - 2004) http://bloodjournal.hematologylibrary.org/cgi/content/full/105/3/1214


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Cannabidiol inhibits tumour growth in leukaemia and breast cancer in animal studies (news - 2006)
HU-331, a novel cannabinoid-based anticancer topoisomerase II inhibitor  (full - 2007)
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Cannabinoid receptors expression in bone marrow trephine biopsy of chronic lymphocytic leukaemia patients treated with purine analogues.  (abst – 2007)


Enhancing the in vitro cytotoxic activity of Δ9-tetrahydrocannabinol in leukemic cells through a combinatorial approach  (abst - 2008)

Marijuana's Active Ingredient Kills Leukemia Cells  (news - 2009)  http://medicalmarijuanadoctors.org/marijuana-active-ingredient-kills-leukemia-cells

CANCER – LIVER

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

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

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

Marijuana Use and the Risk of Lung and Upper Aerodigestive Tract Cancers: Results of a Population-Based Case-Control Study (full - 2006)
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Study Finds No Link Between Marijuana Use And Lung Cancer (news - 2006)
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Marijuana Cuts Lung Cancer Tumor Growth In Half, Study Shows (news – 2007) 

Pot's Active Ingredient Halts Lung Cancer Growth, Study Says (news - 2007) 
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Marijuana Ingredients Slow Invasion by Cervical and Lung Cancer Cells (news - 2007) 

Marijuana Helps to Combat Lung Cancer (news – 2007) 

Marijuana May Fight Lung Tumors (news - 2007) 

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

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

Inhibition of Cancer Cell Invasion by Cannabinoids via Increased Expression of Tissue Inhibitor of Matrix Metalloproteinases-1 (full - 2008) 
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http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2786519/?tool=pmcentrez

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(full – 2009)  http://www.faqs.org/patents/app/20090324797

Effects of Gibberellic Acid on Primary Terpenoids and Delta-Tetrahydrocannabinol in Cannabis sativa at Flowering Stage.  (abst - 2009)
http://www.unboundmedicine.com/medline/ebm/record/19522814/abstract/Effects_of_Gibberellic_Acid_on_Primary_Terpenoids_and_Delta_Tetrahydrocannabinol_in_Cannabis_sativa_at_Flowering_Stag


A qualitative and quantitative HPTLC densitometry method for the analysis of cannabinoids in Cannabis sativa L.  (abst - 2009)
Innovative development and validation of an HPLC/DAD method for the qualitative and quantitative determination of major cannabinoids in cannabis plant material  
(abstract - 2009)  

Average Marijuana Potency by Year, 1975-2003  
(news – 2009)  

CHEMOTHERAPY *

Therapeutic Aspects of Cannabis and Cannabinoids  
(full - 2001)  

Effects of smoked cannabis and oral d9-tetrahydrocannabinol on nausea and emesis after cancer chemotherapy  
(full – 2001)  

Cannabinoids for control of chemotherapy induced nausea and vomiting: quantitative systematic review  
(full - 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC34325/?tool=pubmed

The cannabinoids: an overview. Therapeutic implications in vomiting and nausea after cancer chemotherapy, in appetite promotion, in multiple sclerosis and in neuroprotection.  
(abstract - 2001)  

Cannabinoids may prevent chemotherapy related sickness  
(news -2001)  

Cisplatin increases brain 2-arachidonoylglycerol (2-AG) and concomitantly reduces intestinal 2-AG and anandamide levels in the least shrew.  
(abstract – 2005)  

Different views on the association between cannabinoids and cancer  
(abstract - 2006)  

Dronabinol for supportive therapy in patients with malignant melanoma and liver metastases  
(abst - 2006)  

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

Cesamet, THC and chemotherapy  
(news – 2006)  
Activation of cannabinoid CB1 and CB2 receptors suppresses neuropathic nociception evoked by the chemotherapeutic agent vincristine in rats.  (full – 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190028/?tool=pubmed


Pharmacological Inhibition of CB1 Cannabinoid Receptor Protects Against Doxorubicin-Induced Cardiotoxicity  (full - 2008)  http://content.onlinejacc.org/cgi/content/full/50/6/528


CHILDREN (12 and under) *

Nutrition for Moms-to-be! (article - undated)

Cannabis use falls among Dutch youth (abst - 2000)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC118548/?tool=pubmed

Maternal use of cannabis and pregnancy outcome. (abst – 2002)

Endocannabinoids in the central nervous system--an overview. (abst – 2002)


Recipe For Trouble (news/anecdotal - 2002)
http://www.cbsnews.com/stories/2002/03/05/48hours/main503022.shtml

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

Experiences with THC-treatment in children and adolescents (abst - 2003)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=80


Medical marijuana: a surprising solution to severe morning sickness (news - 2004)
http://www.mothering.com/community/a/medical-marijuana-a-surprising-solution-to-severe-morning-sickness

Endocannabinoids and food intake: newborn suckling and appetite regulation in adulthood. (full/ forum repost - 2005)

The cannabinoid system and its importance in the perinatal period (abst – 2005)

Treatment with CBD in oily solution of drug-resistant paediatric epilepsies. (abst - 2005)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=173&&search_pattern=EPILEPSY
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

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

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/2006/07/08/cannabis-is-a-first-line-treatment-for-childhood-mental-disorders/

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

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

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


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

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

Pot smoking cockroach song angers parents (news – 2008)  
http://www.parentdish.com/2008/10/16/pot-smoking-cockroach-song-angers-parents/

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

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

Accidental cannabis poisoning in children: experience of the Marseille poison center
Maternal Marijuana use not Associated with Psychotic Symptoms, but Alcohol is

(News - 2009)

Doctors recommend medical marijuana for minors with ADHD in California

(News - 2009)
http://www.nydailynews.com/life-style/health/doctors-recommend-medical-marijuana-minors-adhd-california-article-1.419585#ixzz2Ui5xXtRZ

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

Why I Give My 9-year-old Pot Part 1 & 2 (News/ Anecdotal - 2009)
http://www.rxmarijuana.com/lee.htm

CHOLERA *

An endogenous cannabinoid tone attenuates cholera toxin-induced fluid accumulation in mice. (Full - 2003)
http://www.gastrojournal.org/article/S0016-5085(03)00892-8/fulltext

Cannabinoids and the digestive tract. (Abst - 2005)

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

CHOLESTEROL *

Role of activated endocannabinoid system in regulation of cellular cholesterol metabolism in macrophages (Full - 2008)
http://cardiovascres.oxfordjournals.org/content/81/4/805.full?sid=7d2438c4-a727-410f-870d-4a971695b4f


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

**COLITIS** * - also see BOWEL DISORDERS

Cannabinoids spell relief in colon inflammation (news – 2004)

Cannabinoids and the digestive tract. (abst – 2005)

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

Ulcerative colitis in AKR mice is attenuated by intraperitoneally administered anandamide. (full – 2008)
http://www.jpp.krakow.pl/journal/archive/12_08/pdf/673_12_08_article.pdf

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


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

Cannabidiol, 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/Cannabidiol_a_safe_and_non_psychotropic_ingredient_of_the_marijuana_plant_Cannabis_sativa_is_protective_in_a_murine_model_of_colitis

Cannabis for Ulcerative Colitis and Crohn's Disease treatment (news - 2009)
Medical Marijuana and Colitis  (news – 2009)
https://www.marijuanadoctors.com/content/ailments/view/132?ailment=colitis

COPD/ CHRONIC OBSTRUCTIVE PULMONARY DISEASE *


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


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

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


COUGH

Bidirectional control of airway responsiveness by endogenous cannabinoids

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

US Patent 6974568 - Treatment for cough  (full - 2005)
http://www.archpatent.com/patents/6974568


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


Cannabis Cough Cure  (news - 2006)

Inhibitory activity of the novel CB2 receptor agonist, GW833972A, on guinea-pig and human sensory nerve function in the airways.  (full – 2008)
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Cough sensors. III. Opioid and cannabinoid receptors on vagal sensory nerves.

CROHN’S DISEASE  * - also see BOWEL DISORDERS

Cannabinoids spell relief in colon inflammation  (news – 2004)


Crohn's Patients Report Symptomatic Relief From Cannabis  (news - 2005)
Endocannabinoids and the gastrointestinal tract. (abst – 2006)

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

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

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

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

Alternatives: Miracle Marijuana (anecdotal/news - 2009)
http://www.here-to-help.bc.ca/visions/cannabis-vol5/alternatives

CRPS/ RSD - COMPLEX REGIONAL PAIN SYNDROME/ REFLEX SYMPATHETIC DYSTROPHY/ CAUSALGIA

Opiate sparing effects of cannabinoid in refractory CRPS patients (abst – 2009)


CYSTIC FIBROSIS *

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

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


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

**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]


**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
Depression in Parkinson's disease is related to a genetic polymorphism of the cannabinoid receptor gene (CNR1)

Antidepressant-like Activity and Modulation of Brain Monoaminergic Transmission by Blockade of Anandamide Hydrolysis.

Decreased Depression in Marijuana Users

Survey of Australians using cannabis for medical purposes

The medicinal use of cannabis in the UK: results of a nationwide survey

New Antidepressant Drug Increases 'Brain's Own Cannabis'

Cannabis' Acts as Antidepressant

Cannabis And Depression Research

High-dose cannabis stimulates growth of brain cells in rats

Good News For The Medical Marijuana Movement: Pot Proliferates Brain Cells And Boosts Mood

Marijuana might cause new cell growth in the brain

Surprising Brain Effects From Pot-Like Drug

The synthetic cannabinoid nabilone improves pain and symptom management in cancer patients

Marijuana use and depression among adults: Testing for causal associations.
Do patients use marijuana as an antidepressant? (abst – 2006)  

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

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

Cannabinoids elicit antidepressant-like behavior and activate serotonergic neurons through the medial prefrontal cortex.  
(full - 2007)  
http://www.jneurosci.org/cgi/content/full/27/43/11700

Antidepressant-like activity of the fatty acid amide hydrolase inhibitor URB597 in a rat model of chronic mild stress.  
(abst – 2007)  

Neuropharmacological effects of oleamide in male and female mice.  
(abst – 2007)  

Dronabinol and marijuana in HIV-positive marijuana smokers: caloric intake, mood, and sleep.  
(abst - 2007)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=190

Marijuana-Like Brain Chemicals Work As Antidepressant  
(news - 2007)  

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

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

Synthetic form of THC is an effective anti-depressant at low doses  
(news - 2007)  

Treating depression with cannabinoids  
(full - 2008)  

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

Animal research highlights a therapeutic potential of cannabinoids for the treatment of depression  
(full - 2008)  
Cannabinoid receptor 1 (CNR1) gene: impact on antidepressant treatment response and emotion processing in major depression. (abst – 2008)  

Evaluation of Delta9-Tetrahydrocannabinoland other Cannabinoids for Antidepressant-like Actions in the Mouse Forced Swim Test (abst – 2008)  

Circulating endocannabinoids and N-acyl ethanolamines are differentially regulated in major depression and following exposure to social stress. (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2716432/?tool=pubmed

Role of endocannabinoid signaling in anxiety and depression. (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3808114/

Impairments in Endocannabinoid Signaling and Depressive Illness (abst + 1st page – 2009)  

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

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

Medical Marijuana and Major Depression (news – 2009)  
https://www.marijuanadoctors.com/content/ailments/view/41?ailment=major-depression

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DERMATITIS *

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

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

Hemp-seed and olive oils: their stability against oxidation and use in O/W emulsions. (abst – 2004)  

Efficacy of dietary hempseed oil in patients with atopic dermatitis. (abst - 2005)  

Involvement of the Cannabinoid CB2 Receptor and Its Endogenous Ligand 2-Arachidonoylglycerol in Oxazolone-Induced Contact Dermatitis in Mice (full – 2006)  
http://www.jimmunol.org/content/177/12/8796.full
Anandamide Regulates Keratinocyte Differentiation by Inducing DNA Methylation in a CB1 Receptor-dependent Manner (full – 2007)
http://www.jbc.org/content/283/10/6005.full?sid=931583b1-e797-43e0-8296-7fd75bb49403#sec-4


Hippies vindicated: Human-produced cannabinoids have anti-inflammatory powers (news – 2007)
http://www.sciencecodex.com/hippies_vindicated_human_produced_cannabinoids_have_anti_inflammatory_powers

Role seen for cannabis in helping to alleviate allergic skin disease (news - 2007)


Hashing Out Allergic Contact Dermatitis — Another Medical Use for Marijuana? (news - 2007)
http://dermatology.jwatch.org/cgi/content/full/2007/622/1?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=1920&resourcetype=HWCIT

Cannabis May Help Alleviate Allergic Skin Disease (news - 2007)

Constituents Of Hashish And Marijuana May Help To Fight Inflammation And Allergies (news - 2007) http://www.sciencedaily.com/releases/2007/06/070607171120.htm

Cannabis compound reduces skin allergies in mice (news – 2007) (may need registration)


Marijuana Skin Cream? (news - 2007)
http://www.drugfree.org/join-together/drugs/marijuana-skin-cream

Cannabis for allergic contact dermatitis (news - 2007)

Want Nice Skin? Then Smoke Cannabis! (news/ forum repost – 2007)

Attenuation of Allergic Contact Dermatitis Through the Endocannabinoid System  
(full - 2008)  

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

Cannabinomimetic Control of Mast Cell Mediator Release: New Perspective in Chronic Inflammation  
(full – 2008)  

Body's Own 'Cannabis (Marijuana)' Is Good For The Skin, Scientists Find  
(news - 2008)  
http://www.sciencedaily.com/releases/2008/07/080702160944.htm

Substances Similar To The Body's Own 'Cannabis (Marijuana) Are Necessary For Healthy Skin And May Lead To New Skin Disease Treatments  
(news - 2008)  
http://www.medicalnewstoday.com/articles/113812.php

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

The cannabinoid receptor CB2 exerts antifibrotic effects in experimental dermal fibrosis  
(full - 2009)  

Cannabinoid system in the skin - a possible target for future therapies in dermatology.  
(full - 2009)  

Cannabinoids produced in the human body have an anti-inflammatory effect  
(news – 2009)  

Granny's cannabis skin ointment really did work, new study shows  
(news/forum repost - 2009)  
http://www.marijuana.com/threads/de-grannys-cannabis-skin-ointment-really-did-work-new-study-shows.176910/

**DIABETES**
Cannabidiol Preserves Retinal Neurons and Reduces Vascular Permeability in Experimental Diabetes      (abst - 2004)  
http://abstracts iovs.org/cgi/content/abstract/45/5/860?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=1760&resourcetype=HWCIT


Cannabidiol lowers incidence of diabetes in non-obese diabetic mice      (full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2270485/?tool=pmcentrez

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

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

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

Neuroprotective and Blood-Retinal Barrier-Preserving Effects of Cannabidiol in Experimental Diabetes      (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1592672/?tool=pubmed

Regulation, Function, and Dysregulation of Endocannabinoids in Models of Adipose and β-Pancreatic Cells and in Obesity and Hyperglycemia      (full - 2006)  

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

Changes in endocannabinoid and palmitoylethanolamide levels in eye tissues of patients with diabetic retinopathy and age-related macular degeneration.      (abst – 2006)  

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

The Cannabinergic System as a Target for Anti-inflammatory Therapies (abst - 2006)    http://www.ingentaconnect.com/content/ben/ctmc/2006/00000006/00000013/art00008

Marijuana Compound May Help Stop Diabetic Retinopathy  (news - 2006)  
http://www.sciencedaily.com/releases/2006/02/060227184647.htm

Marijuana Compound Offers Hope In Diabetic Retinopathy Prevention  (news – 2006)  
http://www.bio-medicine.org/medicine-news/Marijuana-Compound-Offers-Hope-In-Diabetic-Retinopathy-Prevention-8121-1/

Cannabinoid reduces the development of diabetes in an animal study  (news - 2006)  

Getting Eye On Cannabinoids  (news - 2006)  

Marijuana compound could prevent eye damage in diabetics  (news - 2006)  

Compound found in marijuana may defend against diabetic retinopathy  (news – 2006)  
http://www.news-medical.net/news/2006/03/01/16284.aspx

Cannabidiol arrests onset of autoimmune diabetes in NOD mice  (full - 2007)  

Expression of Cannabinoid CB1 Receptors in Models of Diabetic Neuropathy  (full - 2007)  
http://jpet.aspetjournals.org/content/323/2/508.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT

Cannabidiol attenuates high-induced endothelial cell inflammatory response and barrier disruption  (full - 2007)  

http://www.google.com/patents/US8071641

Role of cannabinoid CB2 receptors in glucose homeostasis in rats  (abst – 2007)  

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

Anticoagulant Effects of a Cannabis Extract in an Obese Rat Model  (abst – 2007)  

Mediation of Cannabidiol anti-inflammation in the Retina by Equilibrative Nucleoside Transporter and A2A Adenosine Receptor  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2588644/?tool=pmcentrez
The Role of Adipocyte Insulin Resistance in the Pathogenesis of Obesity-Related Elevations in Endocannabinoids (full – 2008)  
http://diabetes.diabetesjournals.org/content/57/5/1262.full?sid=00769f3d-54ab-451b-b69e-4650931e5e25

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

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

Endocannabinoid Dysregulation in the Pancreas and Adipose Tissue of Mice Fed With a High-fat Diet (full - 2008)  

Neuroprotective effects of cannabidiol in endotoxin-induced uveitis: critical role of p38 MAPK activation. (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2592995/?tool=pubmed

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

Mediation of Cannabidiol Anti-inflammation in the Retina by Equilibrative Nucleoside Transporter and A2A Adenosine Receptor (full – 2008)  
http://www.iovs.org/content/49/12/5526.full

Effect of anandamide in improving of the non-adrenergic non-cholinergic relaxation of the corpus cavernosum from diabetic rats (abst – 2008)  
http://journals.tums.ac.ir/abs.aspx?org_id=59&culture_var=en&journal_id=9&issue_id=1415&manuscript_id=12280&segment=fa


Cannabidiol As a Putative Novel Therapy for Diabetic Retinopathy: A Postulated Mechanism of Action as an Entry Point for Biomarker-Guided Clinical Development. (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2955420/?tool=pubmed

Cannabidiol Attenuates Myocardial Dysfunction, Fibrosis, Inflammation, Cell Death and Interrelated Signaling Pathways Associated With Diabetic Cardiomyopathy (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3026637/

Cannabinoids as novel anti-inflammatory drugs. (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2828614/?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

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

Biological effects of THC and a lipophilic cannabis extract on normal and insulin resistant 3T3-L1 adipocytes  (abst - 2009)
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**EPILEPSY/ SEIZURES** * also see EPIDIOLEX in the “PHYTOCANNABINOID"s section

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The role of the endocannabinoid system in gametogenesis, implantation and early pregnancy (full - 2007)  
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FEVER/ TEMPERATURE CONTROL *

CB1 Receptors in the Preoptic Anterior Hypothalamus Regulate WIN 55212-2 [(4,5-Dihydro-2-methyl-4(4-morpholinylmethyl)-1-(1-naphthalenyl-carbonyl)-6H-pyrrolo[3,2,1ij]quinolin-6-one]-Induced Hypothermia (full - 2002) http://jpet.aspetjournals.org/content/301/3/963.full

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**FIBROMYALGIA**

Cannabis Sativa (Marijuana) for Fibromyalgia (list - undated)
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Clinical Endocannabinoid Deficiency  (full - 2004)

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Chronic Pain and Cannabinoids  (full – 2005)
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Delta-9-THC based monotherapy in fibromyalgia patients on experimentally induced pain, axon reflex flare, and pain relief  (abst - 2006)

THC Reduces Pain in Fibromyalgia Patients  (news - 2006)
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Study of analgesic effects of oral THC in Germany ...  (abst - 2007)
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Fibromyalgia: Effective Treatment with Medical Marijuana  (news - 2007)

Synthetic Cannabis for Fibromyalgia Pain?  (news - 2007)
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Are cannabinoids a new treatment option for pain in patients with fibromyalgia?

Anandamide and neutrophil function in patients with fibromyalgia.  (abst - 2008)

Clinical endocannabinoid deficiency (CECD): can this concept explain therapeutic benefits of cannabis in migraine, fibromyalgia, irritable bowel syndrome and other treatment-resistant conditions?  (abst – 2008)

Nabilone for the treatment of pain in fibromyalgia.  (abst - 2008)


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Tetrahydrocannabinol (Delta 9-THC) Treatment in Chronic Central Neuropathic Pain and Fibromyalgia Patients: Results of a Multicenter Survey (full - 2009)  

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Can cannabis cure swine flu? (news – 2009)  
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Cannabis shows promise as treatment for swine flu (news – 2009)  

Phytocannabinoid scientists unveils lozenge to treat H1N1 swine flu and H5N1 bird flu (news/ad - 2009)  
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Cannabinoid CB1-mediated inhibition of stress-induced gastric ulcers in rats (abst – 2000)  http://www.springerlink.com/content/w3jc8rk16k9p92fl/


GATEWAY THEORY *


Endogenous cannabinoid are not involved in cocaine reinforcement (abst - 2004)  
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No 'Smoking' Gun: Research Indicates Teen Marijuana Use Does Not Predict Drug, Alcohol Abuse (news - 2006)  
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Gateway To Nowhere? The Evidence That Pot Doesn't Lead To Heroin (news - 2006)  

Understanding the association between adolescent marijuana use and later serious drug use: gateway effect or developmental trajectory? (abst – 2008)  

Study of 4000 indicates marijuana discourages use of hard drugs. (news – 2008)  
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Cannabidiol, a Nonpsychotropic Component of Cannabis, Inhibits Cue-Induced Heroin Seeking and Normalizes Discrete Mesolimbic Neuronal Disturbances (full - 2009)  
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Adolescent Exposure to Chronic Delta-9-Tetrahydrocannabinol Blocks Opiate Dependence in Maternally Deprived Rats (full - 2009)  
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The Surprising Effect Of Marijuana On Morphine Dependence (news - 2009)  

Active Ingredient In Cannabis Eliminates Morphine Dependence In Rats (news - 2009)  
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Cb(1) Receptor Mediation of Cannabinoid Behavioral Effects in Male and Female Rats.  (abst - 2004)  

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Waterborne lead exposure affects brain endocannabinoid content in male but not female fathead minnows (Pimephales promelas).  (abst – 2005)  

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Novel epidemiology in lung cancer - non-smokers, women and cannabis  (abst – 2007)  


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Cannabinoid1 receptor in the dorsal vagal complex modulates lower oesophageal sphincter relaxation in ferrets (full – 2003) [http://jphysiol.org/content/550/1/149.full](http://jphysiol.org/content/550/1/149.full)

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Involvement of cannabinoid receptors in gut motility and visceral perception
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The gastrointestinal pharmacology of cannabinoids: an update.        (abst – 2004)

Cannabinoids and the digestive tract.        (abst – 2005)

Endocannabinoids and the gastrointestinal tract: what are the key questions?
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Cannabinoid CB(2) receptor activation prevents bronchoconstriction and airway oedema
in a model of gastro-oesophageal reflux.        (abst - 2007)

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

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GLAUCOMA * - also see VISION

Involvement of Cannabinoid Receptors in the Intraocular Pressure-Lowering Effects of
WIN55212-2        (full - 2000)  http://jpet.aspetjournals.org/content/292/1/136.long

A submicron emulsion of HU-211, a synthetic cannabinoid, reduces intraocular pressure

Therapeutic aspects of cannabis and cannabinoids.        (full - 2001)
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The synthetic cannabinoid WIN55212-2 decreases the intraocular pressure in human
glaucoma resistant to conventional therapies.        (abst – 2001)

Chronic Cannabis Use in the Compassionate Investigational New Drug Program:
An Examination of Benefits and Adverse Effects of Legal Clinical Cannabis
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Effect of Sublingual Application of Cannabinoids on Intraocular Pressure (abst - 2006)  
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Involvement of the Endocannabinoid System in Retinal Damage after High Intraocular Pressure–Induced Ischemia in Rats (full - 2007)  
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Neuroprotective and Intraocular Pressure-Lowering Effects of (-)Delta-Tetrahydrocannabinol in a Rat Model of Glaucoma. (abst - 2007)  
Additive Effects of Timolol and Cannabinoids on Intraocular Pressure in a Rat Glaucoma Model  (abst - 2007)
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Mediation of Cannabidiol Anti-inflammation in the Retina by Equilibrative Nucleoside Transporter and A2A Adenosine Receptor  (full – 2008)
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Endocannabinoids in the retina: from marijuana to neuroprotection.  (full - 2008)  
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Role of the cannabinoids in glaucoma  (article – 2009)  

Medical Marijuana and Glaucoma  (news – 2009)  
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A Novel Intervention for the Treatment of Gout in an Elderly Rehabilitation Patient in Whom Conventional Treatment was Ineffective  (full – 2004)  
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Medical Marijuana and Arthropathy, gout  (news – 2009)
**GRANULOMA** - a noncancerous inflammation in tissue


**GRAVE'S DISEASE** (overactive thyroid)

Acute effects of endocannabinoid anandamide and CB1 receptor antagonist, AM251 in the regulation of thyrotropin secretion. (full – 2008) [http://joe.endocrinology-journals.org/content/199/2/235.long](http://joe.endocrinology-journals.org/content/199/2/235.long)

Medical Marijuana and Graves Disease (news – 2009) [https://www.marijuanadoctors.com/content/ailments/view/33?ailment=graves-disease](https://www.marijuanadoctors.com/content/ailments/view/33?ailment=graves-disease)

**GYNECOLOGY / FEMALE SEXUAL FUNCTION** *


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Menstrual cramps, morning sickness and labour pain (anecdotal – 2001)

Cannabis Treatments in Obstetrics and Gynecology: A Historical Review (full - 2002)

Low fatty acid amide hydrolase and high anandamide levels are associated with failure to achieve an ongoing pregnancy after IVF and embryo transfer (full – 2002)

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N-Acylethanolamines in human reproductive fluids. (abst – 2002)

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The impact of obesity on reproduction in women with polycystic ovary syndrome. (full – 2006)

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Expression of the Endocannabinoid System in Human First Trimester Placenta and Its Role in Trophoblast Proliferation (full – 2008)

Spatio-temporal expression patterns of anandamide-binding receptors in rat implantation sites: evidence for a role of the endocannabinoid system during the period of placental development (full – 2009)

Fluctuation in anandamide levels from ovulation to early pregnancy in in-vitro fertilization-embryo transfer women, and its hormonal regulation (full – 2009)

Endocannabinoids and reproductive biology. (letter - 2009)

Endocannabinoids: friends and foes of reproduction. (abst – 2009)


HAIR


Inhibition of human hair follicle growth by endo and exocannabinoids (full - 2007) http://www.fasebj.org/cgi/reprint/21/13/3534?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=10&sortspec=relevance&resourcetype=HWCIT

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HEARING * - also see TINNITUS; also see AM-111 in SYNTHETICS SECTION


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Cochlear implantation trauma and noise-induced hearing loss: Apoptosis and therapeutic strategies. (full - 2006)  

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Intratympanic treatment of acute acoustic trauma with a cell-permeable JNK ligand: a prospective randomized phase I/II study (abst – 2007)  

Cannabinoid receptor down-regulation in the ventral cochlear nucleus in a salicylate model of tinnitus. (abst - 2007)  

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Cannabinoid CB2 receptor expression in the rat brainstem cochlear and vestibular nuclei. (abst – 2008)  

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Blocking pro-cell-death signal pathways to conserve hearing. (abst - 2009)  

**HEART DISEASE/ CARDIOVASCULAR** *

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

Involvement of central and peripheral cannabinoid receptors in the regulation of heart resistance to arrhythmogenic effects of epinephrine. (abst - 2000)  

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
Mechanisms of anandamide-induced vasorelaxation in rat isolated coronary arteries  
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Endocannabinoids are implicated in the infarct size-reducing effect conferred by heat stress preconditioning in isolated rat hearts  
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Endogenous cannabinoid anandamide increases heart resistance to arrhythmogenic effects of epinephrine: role of CB(1) and CB(2) receptors.  
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Influence of the CB1 receptor antagonist, AM 251, on the regional haemodynamic effects of WIN-55212-2 or HU 210 in conscious rats  
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Endocannabinoids are implicated in the infarct size-reducing effect conferred by heat stress preconditioning in isolated rat hearts.  
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Estrogen stimulates arachidonylethanolamide release from human endothelial cells and platelet activation  
(full – 2002)  
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Activation of cannabinoid receptors decreases the area of ischemic myocardial necrosis.  
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Anandamide and R-(+)-methanandamide prevent development of ischemic and reperfusion arrhythmia in rats by stimulation of CB2-receptors  
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Increase of the heart arrhythmo genetic resistance and decrease of the myocardial necrosis zone during activation of cannabinoid receptors  
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Endogenous cannabinoids improve myocardial resistance to arrhythmogenic effects of coronary occlusion and reperfusion: a possible mechanism.  
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The quest for a vascular endothelial cannabinoid receptor.  
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Endocannabinoids protect the rat isolated heart against ischaemia (full - 2003)
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Vasodilator actions of abnormal-cannabidiol in rat isolated small mesenteric artery (full - 2003)
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CB1 cannabinoid receptor antagonism promotes remodeling and cannabinoid treatment prevents endothelial dysfunction and hypotension in rats with myocardial infarction (full - 2003)
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Cannabinoid CB2 receptor activation reduces mouse myocardial ischemia-reperfusion injury: involvement of cytokine/chemokines and PMN (full - 2003)
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Estrogen stimulates arachidonoyl ethanolamide release from human endothelial cells and platelet activation (full – 2002) http://bloodjournal.hematologylibrary.org/content/100/12/4040.full


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

Altered Lipid Metabolism in Brain Injury and Disorders  (full - 2008)
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Alternatives: Miracle Marijuana  (anecdotal/news - 2009)  http://www.heretohelp.bc.ca/visions/cannabis-vol5/alternatives

**IBUPROFEN** – blocks the breakdown of anandamide (which is what actually relieves your pain)

Differences in the pharmacological properties of rat and chicken brain fatty acid amidohydrolase. (full – 2000)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572338/

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Inhibition of fatty acid amide hydrolase, a key endocannabinoid metabolizing enzyme, by analogues of ibuprofen and indomethacin. (abst – 2009)

**IDIOPATHIC INTRACRANIAL HYPERTENSION**

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Immunomodulation by Cannabinoids is Absent in Mice Deficient for the Cannabinoid Cb(2) Receptor. (abst – 2000)

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Minimal Long-Term Effects Of Marijuana Use Found In Central Nervous System By UCSD Researchers     (news - 2003)
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The synthetic cannabinoid HU210 induces spatial memory deficits and suppresses hippocampal firing rate in rats     (full – 2007)http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2013991/
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The GPR55 ligand L-alpha-lyso phosphatidylinositol promotes RhoA-dependent Ca2+ signaling and NFAT activation. (full – 2009) http://www.fasebj.org/content/23/1/183.long

**LEGIONAIRES DISEASE** (the news is not good)

Delta 9-tetrahydrocannabinol treatment suppresses immunity and early IFN-gamma, IL-12, and IL-12 receptor beta 2 responses to Legionella pneumophila infection.  
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The THC-induced suppression of Th1 polarization in response to Legionella pneumophila infection is not mediated by increases in corticosterone and PGE2.  
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**LIVER DISEASE - NON HEPATITIS**  * - also see HEPATITIS

Preliminary observation with dronabinol in patients with intractable pruritus secondary to cholestatic liver disease.  

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

The cannabinoid agonist WIN 55, 212-2 increases nociception threshold in cholestatic rats: implications for the treatment of the pruritus of cholestasis.  

Pathogenesis and treatment of pruritus in patients with cholestasis  

Treatment of the Pruritus of Cholestasis.  
The endocannabinoid system in chronic liver disease (full - 2005)

(Marijuana/Hash) Endocannabinoids and liver disease - review (full - 2005)

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

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

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

Antifibrogenic role of the cannabinoid receptor CB2 in the liver. (abst – 2005)


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

Cannabinoid-2 receptor agonist HU-308 protects against hepatic ischemia/reperfusion injury by attenuating oxidative stress, inflammatory response, and apoptosis (full - 2007)
http://www.jleukbio.org/cgi/content/full/82/6/1382

Cannabinoids ameliorate cerebral dysfunction following liver failure via AMP-activated protein kinase (full - 2007)
http://www.fasebj.org/content/21/10/2431.full

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

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

Anandamide inhibits cholangiocyte hyperplastic proliferation via activation of thioredoxin 1/redox factor 1 and AP-1 activation (full – 2007)
http://ajpgi.physiology.org/content/294/2/G506.full
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Endocannabinoids and Liver Disease. I. Endocannabinoids and their receptors in the liver (full – 2008) http://ajpgi.physiology.org/content/294/1/G9.full?sid=872637e5-97b2-4103-aaf0-b3e8f6f0eb64

Endocannabinoids and Liver Disease. II. Endocannabinoids in the pathogenesis and treatment of liver fibrosis (full – 2008) http://ajpgi.physiology.org/content/294/2/G357.full?sid=872637e5-97b2-4103-aaf0-b3e8f6f0eb64

Endocannabinoids and Liver Disease. III. Endocannabinoid effects on immune cells: implications for inflammatory liver diseases (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2376822/?tool=pmcentrez

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


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

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

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

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

Cannabinoid receptors as novel therapeutic targets for the management of non-alcoholic steatohepatitis  (abst - 2008)  http://www.ncbi.nlm.nih.gov/pubmed/19195630


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

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

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


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

LONG TERM USE EFFECTS *

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

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


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

Minimal Long-Term Effects Of Marijuana Use Found In Central Nervous System By UCSD Researchers (news - 2003)
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Survey of Australians using cannabis for medical purposes (full - 2005)


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

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

The morphology of the immune system in opiomania, cannabism, and polynarcotism (abst - 2009)
http://www.unboundmedicine.com/medline/ebm/record/19938701/full_citation/%5BThe_morphology_of_the_immune_system_in_opiomania_cannabism_and_polynarcotism%5D


LUNG FUNCTION *

Exogenous lipid pneumonia related to smoking weed oil following cadaveric renal transplantation (full - 2000) http://www.pulsus.com/journals/pdf_frameset.jsp?jnlKy=4&atKy=4570&isArt=t&inAdvert=Resp&adver ifHCTp=&sTitle=Exogenous%20lipid%20pneumonia%20related%20to%20smoking%20weed%20oil%20following%20cadaveric%20renal%20transplantation,%20Pulsus%20Group%20Inc&VisitorType=

The THC-induced suppression of Th1 polarization in response to Legionella pneumophila infection is not mediated by increases in corticosterone and PGE2. (full – 2004) http://www.jleukbio.org/content/76/4/854.long


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


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

“Usual” cannabis abuse producing an unusual incident (abst – 2007) (The Valsalva maneuver is performed by attempting to forcibly exhale while keeping the mouth and nose closed. Don’t do it!) http://www.ncbi.nlm.nih.gov/pubmed/17342632

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

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

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

Lupus by Randi Cox   (anecdotal – undated)
http://rxmarijuana.com/shared_comments/lupus2.htm

Cannabis May Suppress Immune System   (news - 2003)
Systemic Lupus  by Dawn   (anecdotal - 2005)

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

**MACULAR DEGENERATION**

Changes in endocannabinoid and palmitoylethanolamide levels in eye tissues of patients with diabetic retinopathy and age-related macular degeneration.   (abst – 2006)

Mediation of Cannabidiol Anti-inflammation in the Retina by Equilibrative Nucleoside Transporter and A2A Adenosine Receptor   (full – 2008)
http://www.iovs.org/content/49/12/5526.full

Presence and regulation of cannabinoid receptors in human retinal pigment epithelial cells.   (full – 2009)
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**MAD COW/ CRUETZFELDT-JACOB DISEASE:**  - also see PRIONS

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

Recent News: Marijuana (Cannabis) May Prevent Mad Cow Disease
(news/ forum repost - 2007)
Cannabidiol May be Effective in Preventing Bovine Spongiforme Enzephalopathy (Mad Cow Disease)  (news - 2007)  http://www.letfreedomgrow.com/articles/fr070916.htm

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

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

MAGNETIC STIMULATION


MALE SEXUAL FUNCTION *


Idiopathic infertility: susceptibility of spermatozoa to in-vitro capacitation, in the presence and the absence of palmitylethanolamide (a homologue of anandamide), is strongly correlated with membrane polarity studied by Laurdan fluorescence (full – 2003)  http://molehr.oxfordjournals.org/content/9/7/381.full


Cannabis-based boost for smokers’ suffering sperm (news - 2006) (may need registration)

Role of the nitric oxide pathway and the endocannabinoid system in neurogenic relaxation of corpus cavernosum from biliary cirrhotic rats (full – 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2013996/


Effect of Endocannabinoid System on the Neurogenic Function of Rat Corpus Cavernosum (abst – 2007)

Genetic Loss of Faah Compromises Male Fertility in Mice (full - 2008)
http://www.biolreprod.org/content/80/2/235.long

Effect of biliary cirrhosis on nonadrenergic noncholinergic-mediated relaxation of rat corpus cavernosum: Role of nitric oxide pathway and endocannabinoid system (abst – 2008)
http://journals.tums.ac.ir/abs.aspx?culture_var=en&journal_id=9&org_id=59&manuscript_id=6272

Effect of anandamide in improving of the non-adrenergic non-cholinergic relaxation of the corpus cavernosum from diabetic rats (abst – 2008)
http://journals.tums.ac.ir/abs.aspx?org_id=59&culture_var=en&journal_id=9&issue_id=1415&manuscript_id=12280&segment=fa

Opioids and cannabinoids influence mobility of spermatozoids (news - 2008)

The endocannabinoid 2-arachidonoylglycerol promotes sperm development through activation of cannabinoid-2 receptors (full – 2009)


Endocannabinoids: friends and foes of reproduction. (abst – 2009)

Outline for a Marijuana Medical Handbook - Tod Mikuriya  (undated)  
http://www.ukcia.org/medical/marijuanamedicalhandbook.php

Medical Marijuana Movement Notches Several Victories  (news – 2003)  

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

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

Medical Marijuana and the Supreme Court  (article – 2005)  

As Voters Pass Pot Measures, Grass Grows Under Plans' Feet  (article – 2005)  

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

Medical Marijuana, American Federalism, and the Supreme Court  (news – 2005)  
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The Thin Green Line: Employers and Medical Marijuana  (news – 2005)  

STUDENT POT USE DECLINES IN CALIFORNIA FOLLOWING APPROVAL OF PROPOSITION 215  (news – 2005)  
http://www.canorml.org/prop/studentMJuse.html

Medi-Cal pays pot-related expenses  (news – 2007)  
http://www.mapinc.org/norml/v07/n809/a08.htm

Medical Marijuana Users Denied Organ Transplants  (news – 2008)  
http://blogs.wsj.com/health/2008/05/19/medical-marijuana-users-denied-organ-transplants/

Is medical-marijuana use reason to deny someone an organ transplant?  (news – 2008)  
http://seattletimes.nwsource.com/html/health/2004389825_liver03m.html

Internist Group Backs Use of Medical Marijuana  (news – 2008)  

Should Hepatitis C Patients Who Smoke Marijuana Be Eligible For Liver Transplants?  (news - 2008)  
http://www.sciencedaily.com/releases/2008/10/081022211032.htm
A Brief History of Medical Marijuana (news – 2009)
http://content.time.com/time/health/article/0,8599,1931247,00.html

Medical Use of Cannabis (marijuana) (news – 2009)
http://www.heretohelp.bc.ca/factsheet/medical-use-of-cannabis

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

Medical Marijuana Verdict Elusive Despite Study, Debate (news – 2009)

Medical Use of Marijuana Divides AMA Delegates (news – 2009)

Doctors recommend medical marijuana for minors with ADHD in California (news – 2009)
http://www.nydailynews.com/lifestyle/health/doctors-recommend-medical-marijuana-minors-adhd-california-article-1.419585#ixzz2Ui5xXtRZ

Why People Use Cannabis (news – 2009)
http://www.heretohelp.bc.ca/visions/cannabis-vol5/why-people-use-cannabis

Marijuana: Help or hassle? (news – 2009)
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Senior Citizens and Medical Marijuana- Cannabis- Orange County Seniors demand Medical Marijuana (news – 2009)

The Health Effects of Medical Marijuana Project (HEMMP) (news – 2009)
http://www.heretohelp.bc.ca/visions/cannabis-vol5/the-health-effects-medical-marijuana-project-hemmp

Alternatives: Miracle Marijuana (anecdotal/news - 2009)
http://www.heretohelp.bc.ca/visions/cannabis-vol5/alternatives

MEDICAL MARIJUANA – STUDIES *

The Medical use of Cannabis in Germany (full – 2002)
http://jod.sagepub.com/content/32/2/607.full.pdf+html

Using Cannabis Therapeutically in the UK: A Qualitative Analysis (full – 2003)
http://jod.sagepub.com/content/33/2/325.full.pdf+html
US Supreme Court says no to medical marijuana  (full – 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC558405/

Survey of Australians using cannabis for medical purposes  (full – 2005)
http://www.harmreductionjournal.com/content/2/1/18

It Is Time for Marijuana to Be Reclassified as Something Other Than a Schedule I Drug!  
(article - 2005)  

The medicinal use of cannabis in the UK: results of a nationwide survey  
(abst – 2005)  

Mother's milk and the muffin man: grassroots innovations in medical marijuana delivery systems.  
(abst – 2005)  

Dosing Medical Marijuana: Rational Guidelines on Trial in Washington State  
(full – 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2100129/

New dosage limits for medical marijuana: But where's the science?  
(full – 2007)  
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Letter: The herbal way - a response to Ethan Russo  
(letter – 2007)  

Medical marijuana and the developing role of the pharmacist.  
(abst – 2007)  

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

The Significance of US Govt Cannabinoid Patent 6,630,507  
(news – 2008)  
http://stopthedrugwar.org/speakeasy/2008/jul/23/significance_us_govt_cannabinoid

MENIERE'S SYNDROME

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

Menière's Syndrome By Martin Martinez  
(anecdotal - undated)  
http://www.rxmarijuana.com/martinez2.htm

Doctors say cannabis treats Meniere’s disease  
(news - 2006)
MENOPAUSE * - also see AGING, GYNOCOLOGY

Post-Menopausal Hot Flashes by Anonymous (anecdotal – undated)
http://www.rxmarijuana.com/shared_comments/menopause.htm

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

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

Regulation of Bone Mass, Osteoclast Function, and Ovariectomy-Induced Bone Loss by the Type 2 Cannabinoid Receptor (full - 2008)

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

METHODS OF USE – BREATH STRIPS

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

https://www.google.com/patents/US20060039959

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

Your breath smells minty marijuana fresh (news – 2009)
http://www.inquisitr.com/14068/your-breath-smells-minty-marijuana-fresh/

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

Comparison of smoked marijuana and oral Delta(9)-tetrahydrocannabinol in humans.  

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

Why should cannabis products be heated before eating?  

Decarboxylation  

Cooking with Cannabis  

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

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

GC-MS analysis of the total delta9-THC content of both drug- and fiber-type cannabis seeds.  

Cannabis Use As Described by People with Multiple Sclerosis.  
(full – 2003)  [http://cjns.metapress.com/content/5mw9rpyxytpirw41/fulltext.pdf](http://cjns.metapress.com/content/5mw9rpyxytpirw41/fulltext.pdf)

Pharmacokinetics and pharmacodynamics of cannabinoids.  

Determination of cannabinoids in hemp food products by use of headspace solid-phase microextraction and gas chromatography-mass spectrometry.  

Delirium following ingestion of marijuana present in chocolate cookies  
Anti-inflammatory cannabinoids in diet   (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2633791/?tool=pmcentrez

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

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

Accidental cannabis poisoning in children: experience of the Marseille poison center   (abst – 2009)  

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

**METHODS – EDIBLES - BEVERAGES - OTHER***

Holi Recipes » Bhang Recipes   (undated)  
http://www.holifestival.org/bhang-recipes.html

How to Make Hemp Milk   (article – undated)  
http://www.ehow.com/how_5609776_make-hemp-milk.html

Marijuana Tea (actually on making a liqueur, “Crème de Gras”) (article- undated)  
http://www.how-to-marijuana.com/marijuana-tea.html

Milking your options-- Rice, hemp, cow, soy, almond or goat milk -- which one is better for you?   (news – 2009)  
http://www.mnn.com/health/fitness-well-being/stories/milking-your-options

**METHODS - EDIBLES- BEVERAGES - CANNABIS TEA***

How to Brew Marijuana Tea   (news – undated)  
http://www.mahalo.com/how-to-brew-marijuana-tea/

Cannabis Tea   (news – undated)  
http://cannabisplus.net/cannabis-tea/

Cuppa Gives A Better ‘ooh’   (news - 2006)
Cannabis tea revisited: A systematic evaluation  (abst - 2007)

METHODS – EDIBLES – FOODS *


Cannabis butter to spread across Europe  (news - 2004)

METHODS - EDIBLES - RAW UNHEATED CANNABIS JUICE

Unheated Cannabis sativa extracts and its major compound THC-acid have potential immuno-modulating properties not mediated by CB1 and CB2 receptor coupled pathways.  (full - 2006)
https://openaccess.leidenuniv.nl/bitstream/handle/1887/3744/07.pdf?sequence=6

METHODS OF USE - INHALERS

Pharmacological evaluation of aerosolized cannabinoids in mice.  (abst – 2000)

Physiochemical and pharmacological characterization of a Delta(9)-THC aerosol generated by a metered dose inhaler.  (abst – 2002)


Development and pharmacokinetic characterization of pulmonal and intravenous delta-9-tetrahydrocannabinol (THC) in humans.  (abst – 2004)
METHODS OF USE – INJECTION *-  **DO NOT TRY A DIY!**  (see PRE-2000 studies!)

Development and pharmacokinetic characterization of pulmonal and intravenous delta-9-tetrahydrocannabinol (THC) in humans.  (abst – 2004)  

The urinary disposition of intravenously administered 11-nor-9-carboxy-delta-9-tetrahydrocannabinol in humans  (abst – 2007)  

Pharmacokinetics of 11-nor-9-carboxy-Delta(9)-tetrahydrocannabinol (CTHC) after intravenous administration of CTHC in healthy human subjects.  (abst – 2007)  

METHODS OF USE - NASAL SPRAYS


Intranasal absorption of Delta(9)-tetrahydrocannabinol and WIN55,212-2 mesylate in rats.  (abst – 2007)  

METHODS OF USE - OROMUCOSAL SPRAY  - also see Sativex

Cannabis; Adverse Effects from an Oromucosal Spray.  (full – 2007)  
METHODS OF USE – RSO / RICK SIMPSON’S OIL/ HEMP OIL/ PHOENIX OIL

“Run From the Cure” Transcript  (forum post - 2009)  
https://www.greenpassion.org/index.php?/topic/14222-run-from-the-cure-transcript-of-the-video/page_p_138476_hl_transcript_fromsearch_1#entry138476

Making a Small Batch of Hemp Oil– Easy Peasy!  (recipe – 2009)  

METHODS OF USE – SECOND-HAND SMOKE

Passive Inhalation of Cannabis Smoke.  (abst – 2004)  

Passive inhalation of cannabis smoke--is it detectable?  (abst - 2009)  

METHODS OF USE - SMOKING * - also see SMOKED CANNABIS AS MEDICINE

Tokepure  (news – undated)  http://ukcia.org/activism/tokepure.php

How to Smoke Cannabis  (news – undated)  http://ukcia.org/culture/smoking.php

Rolling a Joint - Basic joint rolling tips  (article – undated)  http://www.weedfarmer.com/joint_rolling/rolling/rolling.htm

Smoking Cannabis  (news - undated)  http://www.ukcia.org/culture/smoking.php#knife

Marijuana Water Pipe and Vaporizer Study  (news - 2000)  
http://www.maps.org/news-letters/v06n3/06359mj1.html

A primer for patients’ use of medicinal marijuana  (full - 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC81348/pdf/20010807s00037p329.pdf


Patterns of use, cannabis beliefs and dependence: study of 159 adolescent users

Cannabis Use As Described by People with Multiple Sclerosis. (full – 2003)  http://cjns.metapress.com/content/5mw9rpyxvtpirwf1/fulltext.pdf


“Usual" cannabis abuse producing an unusual incident (abst – 2007)  (The Valsalva maneuver is performed by attempting to forcibly exhale while keeping the mouth and nose closed- “clamping down hard” on a hit. Don’t even think of doing it while smoking!)  http://www.ncbi.nlm.nih.gov/pubmed/17342632


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

Cannabis smoke condensate I: the effect of different preparation methods on tetrahydrocannabinol levels. (abst - 2008)  http://marijuana.researchtoday.net/archive/5/7/1888.htm

Cannabinoid Receptor 1 Binding Activity and Quantitative Analysis of Cannabis sativa L. Smoke and Vapor (full – 2009)  https://www.jstage.jst.go.jp/article/cpb/58/2/58_2_201/_pdf
Comparison of subjective, pharmacokinetic, and physiological effects of marijuana smoked as joints and blunts. (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2776770/

A comparison of drug use and dependence between blunt smokers and other cannabis users (abst - 2009)  
http://www.unboundmedicine.com/medline/ebm/record/19212929/abstract/A_comparison_of_drug_use_and_dependence_between_blunt_smokers_and_other_cannabis_users_

**METHODS OF USE – TINCTURES** *

Tinctures - by Dr. Jay R. Cavanaugh, Ph.D. (undated)  
http://www.letfreedomgrow.com/recipes/tincture.htm

Cooking With Cannabis (news – undated)  
http://ukia.org/culture/eat.php

Timeless tinctures (forum - 2003)  
http://www.cannabisculture.com/articles/3005.html

Cannabis improves night vision: a case study of dark adaptometry and scotopic sensitivity in kif smokers of the Rif mountains of northern Morocco. (abst – 2004)  

Pharmacokinetics and cannabinoid action using oral cannabis extract (news – 2005)  
http://www.medicalnewstoday.com/releases/29638.php

Unheated Cannabis sativa extracts and its major compound THC-acid have potential immuno-modulating properties not mediated by CB1 and CB2 receptor coupled pathways. (full - 2006)  
https://openaccess.leidenuniv.nl/bitstream/handle/1887/3744/07.pdf?sequence=6

The Definitive Green Dragon (Revised, Updated, Combined) (forum thread - 2006)  

Cannabis tinctures and extracts – in vitro profiling for cytotoxic and anti-inflammatory effects (abst – 2007)  

Glysabis (forum thread - 2007)  
METHODS OF USE - TOPICAL OINTMENTS


METHODS OF USE - TRANSDERMAL PATCH


**METHODS OF USE – VAPORIZERS** *

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**NAUSEA** - also see MORNING SICKNESS, MOTION SICKNESS, RADIATION-INDUCED NAUSEA

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**SAFETY - ADULTERANTS/ CONTAMINANTS** *


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Endocannabinoid signalling in the blood of patients with schizophrenia (full – 2003) http://www.lipidworld.com/content/2/1/5

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


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Medical use of cannabis in sickle cell disease   (news - 2005)
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Medical Marijuana and Sinusitis   (news – 2009)
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**SLEEP APNEA**


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"Recreational" drug abuse associated with failure to mount a proper antibody response after a generalised orthopoxvirus infection  (abst – 2007)

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Chronic Cannabis Use in the Compassionate Investigational New Drug Program

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**SPASTICITY**

Endocannabinoids control spasticity in a multiple sclerosis model  (full - 2000)  http://www.fasebj.org/content/early/2001/02/02/fj.00-0399fje.full.pdf+html?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=10&sortspec=relevance&resourcetype=HWCT


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Marijuana Eases Spasticity in MS Patients  (news – 2009)  

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

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**SPINAL CORD INJURY** *

A step closer to cannabinoids for pain relief  (news – 2000)  

Selective cannabinoid CB1 receptor activation inhibits spinal nociceptive transmission in vivo.  (full – 2001)  
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Clinical investigation of delta-9-tetrahydrocannabinol (THC) as an alternative therapy for overactive bladders in spinal cord injury (SCI) patients.  (abst - 2001)  
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Medical Marijuana and Whiplash (news – 2009)
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CB2 cannabinoid receptors promote mouse neural stem cell proliferation. (abst – 2007)

**Stiff-Person Syndrome**

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**Stress** - also see Anxiety, Post Traumatic Stress Disorder

Cannabinoid CB1-mediated inhibition of stress-induced gastric ulcers in rats  (abst – 2000) http://www.springerlink.com/content/w3jc8rk16k9p92fl/

Synergistic Interactions between Cannabinoids and Environmental Stress in the Activation of the Central Amygdala (full - 2005)  
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Endocannabinoids: Stress, Anxiety, and Fear (full - 2009)  
http://neuro.psychiatryonline.org/article.aspx?articleid=103676&resultClick=3

Circulating endocannabinoids and N-acyl ethanolamines are differentially regulated in major depression and following exposure to social stress. (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2716432/?tool=pubmed

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

Voluntary Exercise and Sucrose Consumption Enhance Cannabinoid CB1 Receptor Sensitivity in the Striatum (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3055381/?tool=pubmed

Chronic stress differentially regulates cannabinoid CB1 receptor binding in distinct hippocampal subfields. (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2746437/

Effects of \(\Delta 9\)-tetrahydrocannabinol on reward and anxiety in rats exposed to chronic unpredictable stress. (abst - 2009)  
http://www.unboundmedicine.com/medline/ebm/record/19406854/abstract/Effects_of_%7BDelta%7D9_tetrahydrocannabinol_on_reward_and_anxiety_in_rats_exposed_to_chronic_unpredictable_stress

Caffeine drinking potentiates cannabinoid transmission in the striatum: interaction with stress effects (abst – 2009)  
http://www.frontiersin.org/publications/19027757
STORAGE of CANNABIS  (I know these are old, but questions on storage come up often!)

Storing Medical Cannabis  (news – undated)
http://www.harborsidehealthcenter.com/learn/storing-medical-cannabis.html

The stability of cannabis and its preparations on storage.  (abst – 1976)

The decomposition of acidic and neutral cannabinoids in organic solvents.  (abst – 1977)


Stability of Cannabis sativa L. samples and their extracts, on prolonged storage in Delhi.  (abst – 1978)

Stability of Cannabinoids in Dried Samples of Cannabis Dating from Around 1896-1905.  (abst – 1990)

STROKE  * - also see PERINATAL HYPOXIC-ISCHEMIC INJURY

Control of the cell survival/death decision by cannabinoids.  (abst – 2001)

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

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

(Assignee (owner)- the US GOVERNMENT!)
http://www.google.com/patents/US6630507

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

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

Cannabidiol Prevents Cerebral Infarction Via a Serotonergic 5-Hydroxytryptamine1A Receptor–Dependent Mechanism (full - 2005) http://stroke.ahajournals.org/cgi/content/full/36/5/1071


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

Cannabinoid CB2 receptor activation decreases cerebral infarction in a mouse focal ischemia/reperfusion model (full - 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2637559/?tool=pmcentrez

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

Delayed treatment with cannabidiol has a cerebroprotective action via a cannabinoid receptor-independent myeloperoxidase-inhibiting mechanism. (full - 2007) http://www3.interscience.wiley.com/cgi-bin/fulltext/118484119/HTMLSTART

Delta(9)-tetrahydrocannabinol (Delta(9)-THC) prevents cerebral infarction via hypothalamic-independent hypothermia. (abst - 2007) http://www.unboundmedicine.com/medline/ebm/record/17289082/abstract/Delta_9__tetrahydrocannabinol__Delta_9__THC__prevents_cerebral_infarction_via_hypothalamic_independent_hypothermia


Role of cannabinoids and endocannabinoids in cerebral ischemia (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2581413/?tool=pmcentrez

Modulation of the balance between cannabinoid CB(1) and CB(2) receptor activation during cerebral ischemic/reperfusion injury (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2577828/

Cannabinoid receptors in acute and chronic complications of atherosclerosis (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219535/?tool=pmcentrez
Endocannabinoids and cannabinoid receptors in ischaemia–reperfusion injury and preconditioning  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219536/?tool=pmcentrez

Cannabinol prevents a post-ischemic injury progressively induced by cerebral ischemia via a high-mobility group box1-inhibiting mechanism.  

Endocannabinoids mediate neuroprotection after transient focal cerebral ischemia.  
(abst – 2008)  

Modulation of cannabinoid receptor activation as a neuroprotective strategy for EAE and stroke.  
(full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2855650/?tool=pubmed

Therapeutic time window of cannabidiol treatment on delayed ischemic damage via high-mobility group box1-inhibiting mechanism.  
(full – 2009)  
https://www.jstage.jst.go.jp/article/bpb/32/9/32_9_1538/_pdf

Pretreatment with electroacupuncture induces rapid tolerance to focal cerebral ischemia through regulation of endocannabinoid system.  
(full – 2009)  
http://stroke.ahajournals.org/content/40/6/2157.long

Post-ischemic brain damage: the endocannabinoid system in the mechanisms of neuronal death.  
(full - 2009)  

CB2 receptor activation attenuates microcirculatory dysfunction during cerebral ischemic/reperfusion injury.  
(full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3319431/

**STUTTERING**

Marihuana and Stuttering  
(anecdotal – undated)  
http://rxmarijuana.com/shared_comments/stuttering.htm

Medical Marijuana and Stuttering  
(news – 2009)  
https://www.marijuanadoctors.com/content/ailments/view/63?ailment=stuttering

**SUICIDE**

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

TASTE  * - also see APPETITE


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

Endocannabinoid hedonic hotspot for sensory pleasure: anandamide in nucleus accumbens shell enhances 'liking' of a sweet reward.  (full – 2007)
http://www.nature.com/npp/journal/v32/n11/full/1301376a.html

Endocannabinoids selectively enhance sweet taste  (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2818929/?tool=pmcentrez


Chemicals in pot stimulate tongue receptors to taste sweetness.  (news - 2009)
http://www.thefreelibrary.com/Chemicals+in+pot+stimulate+tongue+receptors+to+taste+sweetness.-a0215089160

Enhanced sweet taste: This is your tongue on pot  (news – 2009)

TAXONOMY/ GENETICS OF CANNABIS  *

Boys and Girls Come Out to Play: The Molecular Biology of Dioecious Plants (full - 2000)
http://aob.oxfordjournals.org/cgi/reprint/86/2/211?maxtoshow=&hits=80&RESUTEFORM=&fulltext=cannabis&searchid=1&FIRSTINDEX=1440&resourceType=HWCTT
Variations of D9-THC content in single plants of hemp varieties (full - 2000)
http://www.ukcia.org/research/VariationOfTHCContent.pdf

THC (TETRAHYDROCANNABINOL) ACCUMULATION IN GLANDS OF CANNABIS (CANNABACEAE) (full - 2001)
http://www.hempreport.com/issues/17/malbody17.html

The inheritance of chemical phenotype in Cannabis sativa L. (full - 2002)

An overview of DNA methods for the identification and individualization of marijuana. (full - 2003)

The Gene Controlling Marijuana Psychoactivity : MOLECULAR CLONING AND HETEROLOGOUS EXPRESSION OF Δ1-TETRAHYDROCANNABINOLIC ACID SYNTHASE FROM CANNABIS SATIVA L. (full - 2004)
http://www.jbc.org/content/279/38/39767.full

A chemotaxonomic analysis of cannabinoid variation in Cannabis (Cannabaceae) (full – 2004)
http://www.amjbot.org/content/91/6/966.full

http://www.jbc.org/content/279/38/39767.long

The sexual differentiation of Cannabis sativa L.: A morphological and molecular study (abst – 2004)
http://cat.inist.fr/?aModele=afficheN&cpsidt=16554943

RAPD markers encoding retrotransposable elements are linked to the male sex in Cannabis sativa L. (full – 2005)

Tetrahydrocannabinolic acid synthase, the enzyme controlling marijuana psychoactivity, is secreted into the storage cavity of the glandular trichomes. (full – 2005)
http://pcp.oxfordjournals.org/content/46/9/1578.long

Genetic Variation in Hemp and Marijuana (Cannabis sativa L.) According to Amplified Fragment Length Polymorphisms (full – 2006)

DNA polymorphisms in the tetrahydrocannabinolic acid (THCA) synthase gene in “drug-type” and “fiber-type” Cannabis sativa L. (abst - 2006)

Cannabidiolic-acid synthase, the chemotype-determining enzyme in the fiber-type Cannabis sativa (full – 2007)

Phytochemical and genetic analyses of ancient cannabis from Central Asia (full - 2008) http://jxb.oxfordjournals.org/cgi/content/full/59/15/4171


Results of molecular analysis of an archaeological hemp (Cannabis sativa L.) DNA sample from North West China (abst – 2008) http://link.springer.com/article/10.1007%2Fs10722-008-9343-9


**TEETH/DENTISTRY**

Illicit drugs for toothache  (letter - 2002)  
http://www.nature.com/bdj/journal/v192/n3/full/4801311a.html

Inhibition of Salivary Secretion by Activation of Cannabinoid Receptors  
(full/forum repost - 2006)  

Endocannabinoid, anandamide in gingival tissue regulates the periodontal inflammation through NF-kappaB pathway inhibition.  (abst – 2006)  

Comments on a home remedy for Abcessed Tooth.  (forum post - 2007)  
http://www.myhomeremedies.com/remedy.cgi?remedyid=4638

Effect of a mucoadhesive gel and dental scaling on gingivitis in dogs.  (abst – 2008)  

Anandamide injected into the lateral ventricle of the brain inhibits submandibular salivary secretion by attenuating parasympathetic neurotransmission  (full – 2009)  

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

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

Cannabis and caries—does regular cannabis use increase the risk of caries in cigarette smokers?  (abst – 2009)  

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**THYROID FUNCTION**  – also see GRAVES DISEASE

Evidence for functional CB1 cannabinoid receptor expressed in the rat thyroid  
(full – 2002)  
http://www.eje-online.org/content/147/2/255.full.pdf+html
Influence of cannabinoids on immunoreactivity of regulatory peptides, produced in rat thyroid C cells; preliminary investigations. (abst – 2004)  

Implication of the Endocannabinoid System in the Locomotor Hyperactivity Associated with Congenital Hypothyroidism (full – 2008)  
http://endo.endojournals.org/content/149/5/2657.abstract?sid=f5b14012-9fbe-4f10-890c-386313060cf8

Acute effects of endocannabinoid anandamide and CB1 receptor antagonist, AM251 in the regulation of thyrotropin secretion. (full – 2008)  
http://joe.endocrinology-journals.org/content/199/2/235.long

Type 1 cannabinoid receptor-containing axons innervate hypophysiotropic thyrotropin-releasing hormone-synthesizing neurons. (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2630898/

TIC DOULOUREUX/ TRIGEMINAL NEUROPATHIC PAIN

Tic Douloureux – Cannabis (news – undated)  
http://medicalmarijuana.com/medical-uses/condition.cfm?conID=56

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

Therapeutic potential of cannabinoids in trigeminal neuralgia. (abst – 2004)  

The synthetic cannabinoids attenuate allodynia and hyperalgesia in a rat model of trigeminal neuropathic pain. (abst – 2007)  

Medical Marijuana and Tic Douloureux (news – 2009)  
https://www.marijuananadoctors.com/content/ailments/view/139?ailment=tic-douloureux

TIME PERCEPTION *

Cannabinoid Modulation of Time Estimation in the Rat. (link to PDF– 2001)  

Marijuana Alters the Human Cerebellar Clock. (abst – 2003)
Cannabinoid modulation of sensitivity to time.  (abst – 2003)

Effects of marijuana on temporal discriminations in humans.  (abst – 2006)

**Tinnitus** - also see Hearing


**Tobacco and Cannabis** *

Which drugs are the most addictive?  (chart – undated)  http://www.druglibrary.org/schaffer/Library/basicfax5.htm

Tokepure  (news – undated)  http://ukcia.org/activism/tokepure.php

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

Behavioural and biochemical evidence for interactions between Δ9-tetrahydrocannabinol and nicotine  (full - 2002)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573143/?tool=pmcentrez


Comparing cannabis with tobacco—again Link between cannabis and mortality is still not established  (full - 2003)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC196384/?tool=pmcentrez

‘You can’t go without a fag . . . you need it for your hash’—a qualitative exploration of smoking, cannabis and young people  (full - 2004)
http://www.ukcia.org/research/YouCantGoWithoutAFag.pdf

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

Cannabis and tobacco smoke are not equally carcinogenic  (full - 2005)

Cigars-for-blunts: choice of tobacco products by blunt smokers.  (abst – 2005)

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

Cancer Risk from Tobacco Greater than Marijuana Smoking, Researcher Says  (news - 2005)
http://www.drugfree.org/Join-Together/Drugs/Cancer-Risk-From-Tobacco-Than


DISTINGUISHING BLUNTS USERS FROM JOINTS USERS: A COMPARISON OF MARIJUANA USE SUBCULTURES  (full – 2006)

Aluminum in Tobacco and Cannabis and Smoking-Related Disease  (abst - 2006)


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

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


Genotype effects of CHRNA7, CNR1 and COMT in schizophrenia: interactions with tobacco and cannabis use. (full – 2007) http://bjp.rcpsych.org/content/191/5/402.long

Progression from marijuana use to daily smoking and nicotine dependence in a national sample of U.S. adolescents (abst - 2007) http://www.erowid.org/references/refs_view.php?ID=6951


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

Cannabinoid Receptor 1 Gene Association With Nicotine Dependence (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2733353/

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

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

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

Report: Marijuana Less Harmful than Alcohol or Tobacco  (news - 2008)
http://www.drugfree.org/join-together/other/report-marijuana-less

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

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

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

Smokers of Cigarettes and Marijuana Fare Worse  (news – 2008)

Maternal tobacco, cannabis and alcohol use during pregnancy and risk of adolescent psychotic symptoms in offspring  (full – 2009)
http://bip.rcpsych.org/content/195/4/294.full

Cannabis and tobacco use: where are the boundaries? A qualitative study on cannabis consumption modes among adolescents.  (full - 2009)
http://her.oxfordjournals.org/content/25/1/74.long

Effects of the cannabinoid CB1 receptor antagonist AM 251 on the reinstatement of nicotine-conditioned place preference by drug priming in rats.  (full - 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.  (full - 2009)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3564500/

Comparison of subjective, pharmacokinetic, and physiological effects of marijuana smoked as joints and blunts.  (full - 2009)


A comparison of drug use and dependence between blunt smokers and other cannabis users  (abst - 2009)
http://www.unboundmedicine.com/medline/ebm/record/19212929/abstract/A_comparison_of_drug_use_and_dependence_between_blunt_smokers_and_other_cannabis_users_

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

Cannabis, Tobacco and Alcohol Use in Canada  (news – 2009)  

**TOLERANCE**

Which drugs are the most addictive?  (chart – undated)  
http://www.druglibrary.org/schaffer/Library/basicfax5.htm

Opiates and cannabinoids: the fight against pain  (news – 2003)  

Role of lipids and lipid signaling in the development of cannabinoid tolerance  
(abst – 2005)  

A Molecular Basis of Analgesic Tolerance to Cannabinoids  (full - 2007)  
http://www.inneurosci.org/cgi/content/full/27/15/4165?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=20&sortspec=relevance&resourcetype=HWCIT

Repeated Treatment with Cannabidiol but Not Delta9-tetrahydrocannabinol Has a Neuroprotective Effect Without the Development of Tolerance  
(abst - 2007)  

Blunted Psychotomimetic and Amnestic Effects of Δ-9-Tetrahydrocannabinol in Frequent Users of Cannabis  
(full – 2008)  
http://www.nature.com/npp/journal/v33/n10/full/1301643a.html

Prolonged exposure to WIN55,212-2 causes downregulation of the CB1 receptor and the development of tolerance to its anticonvulsant effects in the hippocampal neuronal culture model of acquired epilepsy.  
(full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2757117/?tool=pubmed

**TOURETTE'S SYNDROME** *

Science/Germany: Clinical study on THC in TOURETTE's syndrome  (news – 2000)  
http://www.cannabismed.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=70&search_pattern=tourette#1

Treatment of Tourette's syndrome with Delta 9-tetrahydrocannabinol (THC): a randomized crossover trial.  (abst - 2002)

Science: THC effective in TOURETTE-Syndrome  (news - 2002)
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=114&search_pattern=tourette#1

http://www.nature.com/npp/journal/v28/n2/abs/1300047a.html

Delta 9-tetrahydrocannabinol (THC) is effective in the treatment of tics in Tourette syndrome: a 6-week randomized trial.  (abst - 2003)

Cannabinoids reduce symptoms of Tourette's syndrome.  (abst - 2003)

Science: THC effective in TOURETTE syndrome in a 6-week trial  (news - 2003)
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=146&search_pattern=tourette#1


Treatment of Tourette-syndrome with cannabinoids: results from clinical and neuroimaging studies  (abst – 2005)

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


Medical Marijuana and Tourette's Syndrome  (news – 2009)
TRICHOTILLOMANIA - compulsive hair pulling – also see OBSESSIVE-COMPULSIVE DISORDER

Medical Marijuana and Trichotillomania (news – 2009)
https://www.marijuanadoctors.com/content/ailments/view/138?ailment=trichotillomania

TUBERCULOSIS *

A cluster of tuberculosis associated with use of a marijuana water pipe. (abst - 2003)

Tuberculosis Outbreak in Marijuana Users, Seattle, Washington, 2004 (full - 2004)

Pot is good for you? Marijuana fights the superbugs (forum post/news - 2008)

VETERINARY USE/ ANIMALS *

Differences in the pharmacological properties of rat and chicken brain fatty acid amidohydrolase. (full – 2000) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572338/

Behavioral, pharmacological, and molecular characterization of an amphibian cannabinoid receptor. (full – 2000)

CB1 cannabinoid receptor expression in brain regions associated with zebra finch song control. (abst – 2000)

Cannabinoid receptors are absent in insects. (abst - 2001)

Two hundred and thirteen cases of marijuana toxicoses in dogs. (abst – 2002)  

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

BfCBR: a cannabinoid receptor ortholog in the cephalochordate Branchiostoma floridae (Amphioxus). (abst – 2007)  
http://www.frontiersin.org/publications/17553639

Characterization of cannabinoid-binding sites in zebrafish brain. (abst – 2007)  
http://www.frontiersin.org/publications/17178193

Evaluation of a Human On-site Urine Multidrug Test for Emergency Use With Dogs (abst - 2009)  
http://www.jaaha.org/cgi/content/abstract/45/2/59?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=3200&resourcetype=HWCIT

Effect of a mucoadhesive gel and dental scaling on gingivitis in dogs. (abst – 2008)  

VISION *- also see GLAUCOMA, RETINITIS PIGMENTOSA

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

Neuroprotective Effect of(−)Δ9-Tetrahydrocannabinol and Cannabidiol in N-Methyl-d-Aspartate-Induced Retinal Neurotoxicity - Involvement of Peroxynitrite (full - 2003)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1892413/?tool=pmcentrez

Dexanabinol (HU-211) has a beneficial effect on axonal sprouting and survival after rat optic nerve crush injury. (abst – 2003)  

Cannabis improves night vision: a case study of dark adaptometry and scotopic sensitivity in kif smokers of the Rif mountains of northern Morocco. (abst – 2004)  

Cannabidiol Preserves Retinal Neurons and Reduces Vascular Permeability in Experimental Diabetes (abst - 2004)  
http://abstracts.iovs.org/cgi/content/abstract/45/5/860?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=1760&resourcetype=HWCIT

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

Marijuana Cured My Color-Blindness (anecdotal – 2005) http://mmj.tribe.net/thread/ae2e9a56-f117-4e96-b24d-ae799e956b00

Neuroprotective and Blood-Retinal Barrier-Preserving Effects of Cannabidiol in Experimental Diabetes (full - 2006) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1592672/?tool=pubmed

R(+) -methanandamide and other cannabinoids induce the expression of cyclooxygenase-2 and matrix metalloproteinases in human nonpigmented ciliary epithelial cells. (full – 2006) http://jpet.aspetjournals.org/content/316/3/1219.long


Endocannabinoids in the retina: From marijuana to neuroprotection. (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2584875/?tool=pmcentrez


Topical WIN55212-2 alleviates intraocular hypertension in rats through a CB1 receptor mediated mechanism of action. (full – 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2637200/?tool=pubmed

Endocannabinoids in the retina: from marijuana to neuroprotection. (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2584875/

Mediation of Cannabidiol anti-inflammation in the Retina by Equilibrative Nucleoside Transporter and A2A Adenosine Receptor (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2588644/?tool=pmcentrez

Reduction of Congenital Nystagmus in a Patient after Smoking Cannabis. (abst - 2008)
Assessing changes in pupillary size in Rifian smokers of kif (Cannabis sativa L.). (abst - 2008)  


The role of endocannabinoid system in physiological and pathological processes in the eye  

(abst - 2008)  

http://www.unboundmedicine.com/medline/ebm/record/19195174/abstract/%5BThe_role_of_endocannabinoid_system_in_physiological_and_pathological_processes_in_the_eye%5D

Cannabidiol As a Putative Novel Therapy for Diabetic Retinopathy: A Postulated Mechanism of Action as an Entry Point for Biomarker-Guided Clinical Development.  

(full - 2009)  

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2955420/?tool=pubmed

Presence and regulation of cannabinoid receptors in human retinal pigment epithelial cells.  

(full – 2009)  

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697670/?tool=pubmed

WILSON'S DISEASE

Cannabis sativa and dystonia secondary to Wilson's disease.  

(needs free registration)  

(abst - 2005)  


WITHDRAWAL SYNDROME *

Which drugs are the most addictive?  

(chart – undated)  

http://www.druglibrary.org/schaffer/Library/basicfax5.htm

Abstinence symptoms during withdrawal from chronic marijuana use.  

(abst – 2000)  


Marijuana abstinence effects in marijuana smokers maintained in their home environment.  

(full – 2001)  

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Granny Storm Crow's List - January 2015

THE ENDOCANNABINOID SYSTEM

2000-2009

**ABHD6/ a/β-hydrolase domain 6** - breaks down 2-AG

Activation of the endocannabinoid system by organophosphorus nerve agents (full - 2008)  
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Monoacylglycerol lipase limits the duration of endocannabinoid-mediated depolarization-induced suppression of excitation in autaptic hippocampal neurons. (full – 2009)  
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High expression of the evolutionarily conserved alpha/beta hydrolase domain containing 6 (ABHD6) in Ewing tumors. (full – 2009)  

**2-AG / 2-ARACHIDONOYLGLYCEROL** - CB 1 agonist

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2-Arachidonylglycerol, an endogenous cannabinoid, inhibits tumor necrosis factor-alpha production in murine macrophages, and in mice. (abst – 2000)

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A Comprehensive Profile of Brain Enzymes that Hydrolyze the Endocannabinoid 2-Arachidonoylglycerol (full – 2007)
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**ANANDAMIDE / AEA / N–ARACHIDONOYLETHANOLAMINE** * – CB 1 & 2 agonist

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**CBR - CB2 CANNABINOID RECEPTOR**  * - no “high”, activated by THC, Anandamide, 2−AG, THC

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

Cannabinoid CB2 receptor activation decreases cerebral infarction in a mouse focal ischemia/reperfusion model  (full - 2007)  
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The CB2 cannabinoid agonist AM-1241 prolongs survival in a transgenic mouse model of amyotrophic lateral sclerosis when initiated at symptom onset  (full - 2007)  
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CB2 receptors in the brain: role in central immune function  (full - 2007)  
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BfCBR: a cannabinoid receptor ortholog in the cephalochordate Branchiostoma floridae (Amphioxus). (abst – 2007) 
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Cannabilactones: a novel class of CB2 selective agonists with peripheral analgesic activity. (abst – 2007) 

CB2 cannabinoid receptors promote mouse neural stem cell proliferation. (abst – 2007) 

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Cannabinoid receptors expression in bone marrow trephine biopsy of chronic lymphocytic leukaemia patients treated with purine analogues. (abst – 2007) 

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Role of cannabinoid CB2 receptors in glucose homeostasis in rats  
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The cannabinoid CB(2) receptor: a good friend in the gut.  
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Involvement of cannabinoid CB2 receptor in alcohol preference in mice and alcoholism in humans  
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Cannabinoids stimulate fibroblastic colony formation by bone marrow cells indirectly via CB2 receptors.  
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Selective CB2 up-regulation in women affected by endometrial inflammation  
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Cannabinoid receptor 2 is increased in acutely and chronically inflamed bladder of rats  
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Cannabinomimetic Control of Mast Cell Mediator Release: New Perspective in Chronic Inflammation  
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Regulation of Bone Mass, Osteoclast Function, and Ovariectomy-Induced Bone Loss by the Type 2 Cannabinoid Receptor  
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The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids: Δ9-tetrahydrocannabinol, cannabidiol and Δ9-tetrahydrocannabivarin  (full - 2008)  
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Pleiotropic effects of the CB2 cannabinoid receptor activation on human monocyte migration: implications for atherosclerosis and inflammatory diseases  (full – 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2267750/?tool=pubmed  

Crucial Role of CB2 Cannabinoid Receptor in the Regulation of Central Immune Responses during Neuropathic Pain  (full - 2008)  
http://www.jneurosci.org/cgi/content/full/28/46/12125  

Expression of the Endocannabinoid System in Human First Trimester Placenta and Its Role in Trophoblast Proliferation  (full – 2008)  
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Endocannabinoids and cannabinoid receptors in ischaemia–reperfusion injury and preconditioning (full - 2008)
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The CB(2) cannabinoid receptor controls myeloid progenitor trafficking: involvement in the pathogenesis of an animal model of multiple sclerosis. (full - 2008)
http://www.jbc.org/content/283/19/13320.long

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Role of activated endocannabinoid system in regulation of cellular cholesterol metabolism in macrophages (full – 2008)
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Expression of cannabinoid receptors type 1 and type 2 in non-Hodgkin lymphoma: growth inhibition by receptor activation. (full – 2008)

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

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http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597252/

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Role of CB2 receptors in neuroprotective effects of cannabinoids. (abst - 2008)


Glial expression of cannabinoid CB(2) receptors and fatty acid amide hydrolase are beta amyloid-linked events in Down's syndrome. (abst – 2008)  http://www.ncbi.nlm.nih.gov/pubmed/18068305


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Spatio-temporal expression patterns of anandamide-binding receptors in rat implantation sites: evidence for a role of the endocannabinoid system during the period of placental development (full – 2009) http://www.rbej.com/content/7/1/121

Peripheral and central sites of action for the non-selective cannabinoid agonist WIN 55,212-2 in a rat model of post-operative pain (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2707976/

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


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Cannabinoid receptor 2 mediates the retention of immature B cells in bone marrow sinusoids. (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2768754/


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Selective ligands and cellular effectors of a G protein-coupled endothelial cannabinoid receptor. (full – 2003) [http://molpharm.aspetjournals.org/content/63/3/699.long](http://molpharm.aspetjournals.org/content/63/3/699.long)

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

Heterogeneity in the mechanisms of vasorelaxation to anandamide in resistance and conduit rat mesenteric arteries (full – 2004) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574972/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574972/)

Vasorelaxant effects of oleamide in rat small mesenteric artery indicate action at a novel cannabinoid receptor. (full – 2006) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1616976/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1616976/)


**CBR–GPR-18 CANNABINOID RECEPTOR** - activated by Abnormal CBD, NAGly, O-1602, THC, Anandamide


**CBR – GPR-40 CANNABINOID RECEPTOR/FFAR1** - activated by GW1100, TAK-875


Pharmacological regulation of insulin secretion in MIN6 cells through the fatty acid receptor GPR40: identification of agonist and antagonist small molecules. (full - 2006) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751878/?tool=pubmed](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751878/?tool=pubmed)
Expression of the Gene for a Membrane-bound Fatty Acid Receptor in the Pancreas and Islet Cell Tumours in Humans: Evidence for Gpr40 Expression in Pancreatic Beta Cells and Implications for Insulin Secretion. (abst – 2006)

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

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


CBR - GPR55/ CB3 CANNABINOID RECEPTOR *
Activated by 1-α-lyso-phosphatidyl-inositol (LPI), and to a lesser extent possibly by THC, CBD,O-1602, PEA, 2-AG, Anandamide, Virodhamine

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


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

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

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

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

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

GPR55 is a novel cannabinoid receptor (full - 2007)
http://www.biomedcentral.com/1471-2210/7/S2/A3
CB1 receptors mediate the analgesic effects of cannabinoids on colorectal distension-induced visceral pain in rodents.  

GPR55 is a cannabinoid receptor that increases intracellular calcium and inhibits M current  

Endocannabinoids in the retina: from marijuana to neuroprotection.  

Interactions of the G protein-coupled receptor-associated sorting proteins (GASP) 1 and 2 with the novel cannabinoid receptor GPR55  

The putative cannabinoid receptor GPR55 affects osteoclast function in vitro and bone mass in vivo  

Receptors for acylethanolamides-GPR55 and GPR119.  

Cannabinoid receptor ligands as potential anticancer agents--high hopes for new therapies?  

Endocannabinoid-mediated control of synaptic transmission.  

The GPR55 ligand L-alpha-lysophosphatidylinositol promotes RhoA-dependent Ca2+ signaling and NFAT activation.  

Atypical responsiveness of the orphan receptor GPR55 to cannabinoid ligands.  

Receptors for acylethanolamides-GPR55 and GPR119.  

Is GPR55 an anandamide receptor?  

The enigmatic pharmacology of GPR55.

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


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


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


**CBR - GPR158 CANNABINOID RECEPTOR**

**DAGL/DIACYLGLYCEROL LIPASE** – an enzyme involved in making endocannabinoids

Endocannabinoids in the retina: from marijuana to neuroprotection.  
(full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2584875/

Presence of functional cannabinoid receptors in human endocrine pancreas.  
(abst – 2008)  
http://www.frontiersin.org/publications/18092149

**ENDOCANNABINOIDS** *- also see ANANDAMIDE, 2-AG, NADA, NAGly, OEA, PEA, VIRODHAMINE

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

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

Enhanced levels of endogenous cannabinoids in the globus pallidus are associated with a reduction in movement in an animal model of Parkinson’s disease  
(full - 2000)  
http://www.fasebj.org/content/14/10/1432.full.pdf+html

Endocannabinoids control spasticity in a multiple sclerosis model  
(full - 2000)  
http://www.fasebj.org/cgi/reprint/00-0399fev1?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=10&sortspec=relevance&resourcetype=HWCIT

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

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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 cannabinoids: an overview. Therapeutic implications in vomiting and nausea after cancer chemotherapy, in appetite promotion, in multiple sclerosis and in neuroprotection.  
(abst - 2001)  

The secret of internal bliss revealed  
(news – 2001)  
Endocannabinoids are implicated in the infarct size-reducing effect conferred by heat stress preconditioning in isolated rat hearts.  (full – 2002)  
http://cardiovascres.oxfordjournals.org/content/55/3/619.long

Endocannabinoid Degradation, Endotoxic Shock and Inflammation  
(link to PDF – 2002)  
http://www.eurekaselect.com/91915/article

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

N-Acylethanolamines in human reproductive fluids.  (abst – 2002)  

Endocannabinoids in the central nervous system--an overview.  (abst - 2002)  

Changes in endocannabinoid contents in the brain of rats chronically exposed to nicotine, ethanol or cocaine.  (abst – 2002)  

Endocannabinoids in the immune system and cancer.  (abst – 2002)  

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

Endocannabinoids as mediators in the heart: a potential target for therapy of remodelling after myocardial infarction?  (full - 2003)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573769/?tool=pmcentrez

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

Endocannabinoid signaling via cannabinoid receptor 1 is involved in ethanol preference and its age-dependent decline in mice  (full - 2003)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC298783/?tool=pmcentrez

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

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

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

Possible endocannabinoid control of colorectal cancer growth.  (abst - 2003)  

Keeping the Brain's Activity under Control  (news – 2003)
Effects of Cannabis Therapy on Endogenous Cannabinoids  (full - 2004)

Endocannabinoids and Their Implications for Epilepsy  (full - 2004)

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

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Clinical Endocannabinoid Deficiency  (full - 2004)

The endocannabinoid system: physiology and pharmacology.  (full - 2004)
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Endocannabinoids Acting at Cannabinoid-1 Receptors Regulate Cardiovascular Function in Hypertension  (full - 2004)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2756479/?tool=pmcentrez

Endogenous Cannabinoids Take the Edge off Neuroendocrine Responses to Stress  (full – 2004)

The gastrointestinal pharmacology of cannabinoids: an update.  (abst – 2004)

Endogenous cannabinoids are candidates for lipid mediators of bone cement implantation syndrome.  (abst – 2004)

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

Harm reduction-the cannabis paradox  (full - 2005)
http://www.harmreductionjournal.com/content/2/1/17

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

The endogenous cannabinoid, anandamide, induces cell death in colorectal carcinoma cells: a possible role for cyclooxygenase 2  (full - 2005)

Effects of cannabinoids on hypothalamic and reproductive function.  (abst – 2005)
Waterborne lead exposure affects brain endocannabinoid content in male but not female fathead minnows (Pimephales promelas). (abst – 2005)

The endocrinological basis of recurrent miscarriages. (abst – 2005)

A role for endocannabinoids in viral-induced dyskinetic and convulsive phenomena. (abst – 2005)

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

Blocking the destruction of endocannabinoids (news – 2005)

Body's Pot-Like Chemicals May Help Curb Pain (news - 2005)

Body's Own Marijuana-Like Compounds Are Crucial For Stress-Induced Pain Relief (news - 2005)

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

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

Multiple sclerosis may disrupt endocannabinoid brain protection mechanism (full - 2006)

Role of the Cannabinoid System in Pain Control and Therapeutic Implications for the Management of Acute and Chronic Pain Episodes (full - 2006)

Neural contractions in colonic strips from patients with diverticular disease: role of endocannabinoids and substance P (full – 2006)

Endocannabinoid overactivity and intestinal inflammation (full - 2006)

Experimental autoimmune encephalomyelitis disrupts endocannabinoid-mediated neuroprotection (full - 2006)


Endocannabinoids Mediate the Effects of Acute Stress and Corticosterone on Sex Behavior (full – 2007)  http://endo.endojournals.org/content/148/2/493.full


Endocannabinoids block status epilepticus in cultured hippocampal neurons (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2617750/?tool=pmcentrez

Endocannabinoids and the haematological system (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190025/?tool=pmcentrez

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

Human Cannabinoid Pharmacokinetics (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2689518/?tool=pmcentrez

Endocannabinoids and the gastrointestinal tract: what are the key questions? (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190011/

Endocannabinoids as emerging suppressors of angiogenesis and tumor invasion (Review) (link to PDF – 2007)  http://www.spandidos-publications.com/or/17/4/813

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


Hippies vindicated: Human-produced cannabinoids have anti-inflammatory powers (news – 2007)  http://www.sciencodex.com/hippies_vindicated_human_produced_cannabinoids_have_anti_inflammator_y_powers
Migraine may be related to under production of cannabinoids (news - 2007)

Brain's Fear Response Could Help Treat Pain And Anxiety (news – 2007)

New Study Examines 'Brain's Own Marijuana' (news - 2007)
http://www.sciencedaily.co.uk/releases/2007/05/070516191916.htm

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Endogenous cannabinoids: structure and metabolism. (abst - 2008)

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Immunomodulatory Lipids in Plants: Plant Fatty Acid Amides and the Human Endocannabinoid System (abst – 2008)

Cannabinoid receptors: where they are and what they do. (abst - 2008)

Dysregulation of the endocannabinoid system in obesity. (abst – 2008)

Potential roles of (endo)cannabinoids in the treatment of glaucoma: from intraocular pressure control to neuroprotection. (abst – 2008)

The role of endocannabinoid system in physiological and pathological processes in the eye (abst - 2008)
http://www.unboundmedicine.com/medline/ebm/record/19195174/full_citation/%5BThe_role_of_endocannabinoid_system_in_physiological_and_pathological_processes_in_the_eye%5D

New brain cells implicated in machinery of cannabinoid signaling (news – 2008)

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

Salutary pizza spice (news – 2008)

Cannabinoids, Endocannabinoids, and Related Analogs in Inflammation (full - 2009)
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Changes in the Endocannabinoid System May Give Insight into new and Effective Treatments for Cancer (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2791688/?tool=pmcentrez

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

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

Voluntary Exercise and Sucrose Consumption Enhance Cannabinoid CB1 Receptor Sensitivity in the Striatum  (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3055381/?tool=pubmed

Cannabinoids: An emerging role in pain management?  (full - 2009)  

Dynamic regulation of the endocannabinoid system: implications for analgesia (full - 2009)  
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Endocannabinoid signalling as an anti-inflammatory therapeutic target in atherosclerosis: does it work?  (full – 2009)  
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Cannabinoids, Endocannabinoids, and Related Analogs in Inflammation (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2664885/?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 as a link between homeostatic and hedonic pathways involved in energy balance regulation  (full – 2009)  
http://www.nature.com/ijo/journal/v33/n2s/full/ijo200967a.html

The emerging role of the endocannabinoid system in cardiovascular disease (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2791499/?tool=pmcentrez

Endocannabinoid signaling in microglial cells.  (full - 2009)  
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http://physrev.physiology.org/content/89/1/309.long

Febrile seizures: mechanisms and relationship to epilepsy.  (full – 2009)  
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Endocannabinoids may mediate the ability of (n-3) fatty acids to reduce ectopic fat and inflammatory mediators in obese Zucker rats.  (full – 2009)  
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Selective blockade of 2-arachidonoylglycerol hydrolysis produces cannabinoid behavioral effects  (full – 2009)  
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Post-ischemic brain damage: the endocannabinoid system in the mechanisms of neuronal death.  (full - 2009)  

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

The endocannabinoid system as a target for the treatment of motor dysfunction. (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697699/

Role of endocannabinoid signaling in anxiety and depression. (full – 2009)
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Circulating endocannabinoids and N-acyl ethanolamines are differentially regulated in major depression and following exposure to social stress. (full – 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2716432/?tool=pubmed

Unconventional neurotransmitters, neurodegeneration and neuroprotection (full – 2009)

Cannabinoids, Miracle Drug of the 21st Century by Jeffrey Dach MD (web site article/ad - 2009) (has a free e-book)

The Endocannabinoid System in the Brain: From Biology to Therapy (editorial - 2009)
http://www.researchgate.net/publication/233707914_Editorial_Hot_TopicThe_Endocannabinoid_System_i n_the_Brain_From_Biology_to_Therapy_%28Guest_Editor_Mauro_Maccarrone%29

Endocannabinoids and reproductive biology. (letter - 2009)
http://humrep.oxfordjournals.org/content/24/7/1771.full.pdf+html

Impairments in Endocannabinoid Signaling and Depressive Illness (abst + 1st page – 2009)

The endocannabinoid system: an ancient signaling involved in the control of male fertility. (abst – 2009)

Cannabinoid receptors in brain: pharmacogenetics, neuropharmacology, neurotoxicology, and potential therapeutic applications. (abst - 2009)

Endocannabinoid system modulation in cancer biology and therapy. (abst – 2009)

Endocannabinoids: friends and foes of reproduction. (abst – 2009)

Bidirectional regulation of novelty-induced behavioral inhibition by the endocannabinoid system. (abst – 2009)
Neurobiology and Systems Physiology of the Endocannabinoid System  (abst – 2009)  

Distribution and function of cannabinoid receptors 1 and 2 in the rat, monkey and human bladder.  (abst - 2009)  

An examination of anthocyanins' and anthocyanidins' affinity for cannabinoid receptors.  (abst – 2009)  

The endocannabinoid system: Its general strategy of action, tools for its pharmacological manipulation and potential therapeutic exploitation  (abst - 2009)  


Cannabinoid receptors: a brief history and "what's hot".  (abst - 2009)  

An introduction to the endocannabinoid system: from the early to the latest concepts  (abst - 2009)  
http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WBD-4VTDPJT-2&_user=10&_origUdi=B6TBG-4Y95RFK-3&_fmt=high&_coverDate=02%2F28%2F2009&_rdoc=1&_orig=article&_acct=C000050221&_version=1&_userid=10&md5=8eec6f23b0ded1d277a88710fc8c37bb

Endocannabinoid System: An overview of its potential in current medical practice.  (abst - 2009)  

Natural inhibitors of FAAH: a proposed mechanism for the modulation of their activity  (abst – 2009)  
http://art.torvergata.it/handle/2108/862

Roles of the endocannabinoid system in learning and memory.  (abst - 2009)  

From endocannabinoid profiling to 'endocannabinoid therapeutics'.  (abst – 2009)  

Altered pattern of cannabinoid type 1 receptor expression in adipose tissue of dysmetabolic and overweight patients  (abst – 2009)  
http://www.metabolismjournal.com/article/S0026-0495%2808%2900398-3/abstract

Leptin, ghrelin, and endocannabinoids: potential therapeutic targets in anorexia nervosa.  (abst – 2009)  
The endovanilloid/endocannabinoid system in human osteoclasts: possible involvement in bone formation and resorption. (abst – 2009)  

Modulation of the endocannabinoid-degrading enzyme fatty acid amide hydrolase by follicle-stimulating hormone. (abst – 2009)  

Effects of central endocannabinoid system on visceral hyposensitivity induced by rapid eye movement sleep deprivation: experiment with rats (abst – 2009)  

Enhanced Sweet Taste: Endocannabinoids Act Directly on Tongue Taste Receptors (news - 2009)  

The cannabinoid system: cannabinoids and receptors (news – 2009)  

Enhanced sweet taste: This is your tongue on pot (news – 2009)  

ENTOURAGE EFFECT – ENDOCANNABINOIDS*

2-Arachidonyleglycerol, an endogenous cannabinoid, inhibits tumor necrosis factor-alpha production in murine macrophages, and in mice. (abst – 2000)  

Effects of homologues and analogues of palmitoylethanolamide upon the inactivation of the endocannabinoid anandamide. (full – 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1621151/

'Entourage' effects of N-acyl ethanolamines at human vanilloid receptors. Comparison of effects upon anandamide-induced vanilloid receptor activation and upon anandamide metabolism. (full – 2002)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573364/

Effect on cancer cell proliferation of palmitoylethanolamide, a fatty acid amide interacting with both the cannabinoid and vanilloid signalling systems. (abst – 2002)  

Differential effects of the sleep-inducing lipid oleamide and cannabinoids on the induction of long-term potentiation in the CA1 neurons of the rat hippocampus in vitro. (abst – 2004)  
'Entourage' effects of N-palmitoylethanolamide and N-oleoylethanolamide on vasorelaxation to anandamide occur through TRPV1 receptors.  (full – 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597234/

The endogenous fatty acid amide, palmitoylethanolamide, has anti-allodynic and anti-hyperalgesic effects in a murine model of neuropathic pain: involvement of CB(1), TRPV1 and PPARgamma receptors and neurotrophic factors.  (abst – 2008)  

Enhancement of the hypotensive effects of intrathecally injected endocannabinoids by the entourage compound palmitoylethanolamide.  (abst – 2009)  

**FAAH/ FATTY ACID AMIDE HYDROLASE** - breaks down anandamide

Differences in the pharmacological properties of rat and chicken brain fatty acid amidohydrolase.  (full – 2000)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572338/

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

Characterization of palmitoylethanolamide transport in mouse Neuro-2a neuroblastoma and rat RBL-2H3 basophilic leukaemia cells: comparison with anandamide.  (full – 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572744/

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 pH on the inhibition of fatty acid amidohydrolase by ibuprofen.  (full – 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572815/

Fatty acid amide hydrolase inhibition by neurotoxic organophosphorus pesticides.  (abst – 2001)  

Effect on cancer cell proliferation of palmitoylethanolamide, a fatty acid amide interacting with both the cannabinoid and vanilloid signalling systems.  (abst – 2002)  
Low fatty acid amide hydrolase and high anandamide levels are associated with failure to achieve an ongoing pregnancy after IVF and embryo transfer (full – 2002) http://molehr.oxfordjournals.org/content/8/2/188.full


The postmortal accumulation of brain N-arachidonylethanolamine (anandamide) is dependent upon fatty acid amide hydrolase activity. (full – 2005) http://www.jlr.org/content/46/2/342.long

Dual modulation of endocannabinoid transport and fatty acid amide hydrolase protects against excitotoxicity (full – 2005) http://www.jneurosci.org/content/25/34/7813.long


Cisplatin increases brain 2-arachidonoylglycerol (2-AG) and concomitantly reduces intestinal 2-AG and anandamide levels in the least shrew. (abst – 2005) http://www.ncbi.nlm.nih.gov/pubmed/15921709

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

A second fatty acid amide hydrolase with variable distribution among placental mammals. (full – 2006) http://www.jbc.org/content/281/48/36569.long

The Endogenous Cannabinoid Anandamide Produces δ-9-Tetrahydrocannabinol-Like Discriminative and Neurochemical Effects That Are Enhanced by Inhibition of Fatty Acid Amide Hydrolase but Not by Inhibition of Anandamide Transport  (full - 2007)  http://jpet.aspetjournals.org/content/321/1/370.full

The fatty acid amide hydrolase inhibitor URB597 (cyclohexylcarbamic acid 3'-carbamoylbiphenyl-3-yl ester) reduces neuropathic pain after oral administration in mice.  (full – 2007)  http://jpet.aspetjournals.org/content/322/1/236.long

Decreased age-related cardiac dysfunction, myocardial nitrative stress, inflammatory gene expression, and apoptosis in mice lacking fatty acid amide hydrolase.  (full – 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225473/?tool=pubmed


Organophosphate-Sensitive Lipases Modulate Brain Lysophospholipids, Ether Lipids and Endocannabinoids  (full – 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2582404/

Activation of the endocannabinoid system by organophosphorus nerve agents  (full - 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597283/

Genetic Loss of Faah Compromises Male Fertility in Mice  (full - 2008)  http://www.biolreprod.org/content/80/2/235.long

Endocannabinoids in the retina: from marijuana to neuroprotection.  (full - 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2584875/

The FAAH inhibitor URB-597 ameliorates cannabinoid withdrawal in mice  (abst - 2008)  http://www.fasebj.org/cgi/content/meeting_abstract/22/1_MeetingAbstracts/711.6?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=720&resourcetype=HWCIT


ALTERED ANANDAMIDE DEGRADATION IN ATTENTION-DEFICIT/HYPERACTIVITY DISORDER (full – 2009) http://www.neurology.org/content/72/17/1526.long


Role of endocannabinoid signaling in anxiety and depression. (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3808114/


Endocannabinoids and reproductive biology. (letter - 2009) http://humrep.oxfordjournals.org/content/24/7/1771.full.pdf+html

Inhibition of fatty acid amide hydrolase, a key endocannabinoid metabolizing enzyme, by analogues of ibuprofen and indomethacin. (abst – 2009) http://www.ncbi.nlm.nih.gov/pubmed/17397826


Natural inhibitors of FAAH: a proposed mechanism for the modulation of their activity (abst – 2009) http://art.torvergata.it/handle/2108/862

Effects of central endocannabinoid system on visceral hyposensitivity induced by rapid eye movement sleep deprivation: experiment with rats (abst – 2009)
HEMOPRESSIN - CB1 inverse agonist

Hemopressin is an inverse agonist of CB1 cannabinoid receptors  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2154475/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2154475/)

Novel endogenous peptide agonists of cannabinoid receptors  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2735371/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2735371/)

L-α-LYSOPHOSPHATIDYLINOSITOL – GPR-55 agonist

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

MAGL/ MGL/ MONOACYLGLYCEROL LIPASE - breaks down 2-AG

Monoacylglycerol lipase inhibition by organophosphorus compounds leads to elevation of brain 2-arachidonylglycerol and the associated hypomotility in mice.  

A Comprehensive Profile of Brain Enzymes that Hydrolyze the Endocannabinoid 2-Arachidonoylglycerol  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2692834/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2692834/)

Organophosphate-Sensitive Lipases Modulate Brain Lysophospholipids, Ether Lipids and Endocannabinoids  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2582404/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2582404/)

Activation of the endocannabinoid system by organophosphorus nerve agents  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597283/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597283/)

Endocannabinoids in the retina: from marijuana to neuroprotection.  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2584875/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2584875/)


Blockade of 2-arachidonoylglycerol hydrolysis by selective monoacylglycerol lipase inhibitor 4-nitrophenyl 4-(dibenzo[d][1,3]dioxol-5-yl(hydroxy)methyl)piperidine-1-carboxylate (JZL184) Enhances retrograde endocannabinoid signaling.  (full – 2009)  http://jpet.aspetjournals.org/content/331/2/591.long

Monoacylglycerol lipase limits the duration of endocannabinoid-mediated depolarization-induced suppression of excitation in autaptic hippocampal neurons.  (full – 2009)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2784730/


**NADA/ N-ARACHIDONOYLDOPAMINE** - CB1 agonist


Mechanisms of HIV-1 inhibition by the lipid mediator N-arachidonoyldopamine.  (full – 2005)  http://www.jimmunol.org/content/175/6/3990.long
Vascular effects of delta 9-tetrahydrocannabinol (THC), anandamide and N-arachidonoyldopamine (NADA) in the rat isolated aorta.  (abst – 2005)  

Targeted lipidomics: fatty acid amides and pain modulation.  (abst – 2005)  

Arvanil, anandamide and N-arachidonoyl-dopamine (NADA) inhibit emesis through cannabinoid CB1 and vanilloid TRPV1 receptors in the ferret.  (abst – 2007)  

Increased depressor response to N-arachidonoyl-dopamine during high salt intake: role of the TRPV1 receptor.  (abst – 2007)  

Inhibition of human neutrophil chemotaxis by endogenous cannabinoids and phytocannabinoids: evidence for a site distinct from CB1 and CB2.  (full – 2008)  
http://molpharm.aspetjournals.org/content/73/2/441.long

N-arachidonoyl dopamine is a possible factor of the rate of tentacle formation in freshwater hydra  (abst – 2008)  

The role of the CB1 receptor in the regulation of sleep.  (abst – 2008)  

The biosynthesis of N-arachidonoyl dopamine (NADA), a putative endocannabinoid and endovanilloid, via conjugation of arachidonic acid with dopamine  (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2757501/

Opposite effects of anandamide and n-arachidonoyl dopamine in the regulation of prostaglandin E2 and 8-iso-PGF2α formation in primary glial cells  (full – 2009)  

Enhancement of the hypotensive effects of intrathecally injected endocannabinoids by the entourage compound palmitoylethanolamide.  (abst – 2009)  

**NAGly/ N-ARACHIDDONOYL GLYCINE** – GPR-18 agonist

Identification of a new class of molecules, the arachidonyl amino acids, and characterization of one member that inhibits pain.  (full – 2001)  
http://www.jbc.org/content/276/46/42639.long

Regulation of anandamide tissue levels by N-arachidonoylglycine.  (abst – 2002)  


The endocannabinoid anandamide is a precursor for the signaling lipid N-arachidonoyl glycine by two distinct pathways (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2689249/?tool=pubmed


**NARAS / N-ARACHIDONOYL-L-SERINE** - binds very weakly to cannabinoid CB₁ and CB₂


N-arachidonoyl L-serine, a putative endocannabinoid, alters the activation of N-type Ca2+ channels in sympathetic neurons. (full – 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2652135/

Inhibition of human neutrophil chemotaxis by endogenous cannabinoids and phytocannabinoids: evidence for a site distinct from CB1 and CB2. (full – 2008) http://molpharm.aspetjournals.org/content/73/2/441.long

**OEA / OLEOYLETHANOLAMIDE** - an anandamide analog, GPR 119 agonist
Endocannabinoids and fatty acid amides in cancer, inflammation and related disorders.  

Anandamide degradation and N-acyl ethanolamines level in wild-type and CB1 cannabinoid receptor knockout mice of different ages  

'Entourage' effects of N-acyl ethanolamines at human vanilloid receptors. Comparison of effects upon anandamide-induced vanilloid receptor activation and upon anandamide metabolism.  
(full – 2002)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573364/

N-Acylethanolamines in human reproductive fluids.  


The postmortal accumulation of brain N-arachidonylethanolamine (anandamide) is dependent upon fatty acid amide hydrolase activity.  
(full – 2005)  http://www.jlr.org/content/46/2/342.long

Synergistic antinociceptive effects of anandamide, an endocannabinoid, and nonsteroidal anti-inflammatory drugs in peripheral tissue: a role for endogenous fatty-acid ethanolamides?  

'Entourage' effects of N-palmitoylethanolamide and N-oleoylethanolamide on vasorelaxation to anandamide occur through TRPV1 receptors.  
(full – 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597234/?tool=pubmed

Evaluation of fatty acid amides in the carrageenan-induced paw edema model.  
(full – 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2200792/

Gastrointestinal Regulation of Food Intake: General Aspects and Focus on Anandamide and Oleoylethanolamide  

Endocannabinoids and nutrition.  

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

'Entourage' effects of N-palmitoylethanolamide and N-oleoylethanolamide on vasorelaxation to anandamide occur through TRPV1 receptors.  
(full – 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597234/
The lipid messenger OEA links dietary fat intake to satiety. (full – 2008) [link]

Endogenous and synthetic agonists of GPR119 differ in signalling pathways and their effects on insulin secretion in MIN6c4 insulinoma cells. (full – 2008) [link]

An endocannabinoid signaling system modulates anxiety-like behavior in male Syrian hamsters. (full – 2008) [link]

Abnormalities in the cerebrospinal fluid levels of endocannabinoids in multiple sclerosis. (abst – 2008) [link]

Biological functions and metabolism of oleoylethanolamide. (abst – 2008) [link]

The role of the CB1 receptor in the regulation of sleep. (abst – 2008) [link]

Inhibitory effect of the anorexic compound oleoylethanolamide on gastric emptying in control and overweight mice. (abst – 2008) [link]

Fat-induced satiety factor oleoylethanolamide enhances memory consolidation (full – 2009) [link]

GPR119 is essential for oleoylethanolamide-induced glucagon-like peptide-1 secretion from the intestinal enteroendocrine L-cell. (full – 2009) [link]

Sleep deprivation increases oleoylethanolamide in human cerebrospinal fluid. (full – 2009) [link]

Circulating endocannabinoids and N-acyl ethanolamines are differentially regulated in major depression and following exposure to social stress. (full – 2009) [link]

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

N-oleoyl ethanolamine (OEA) (article – 2009) [link]

Remembering dinner: OEAsy does it (article – 2009) [link]

Oleoylethanolamide exerts partial and dose-dependent neuroprotection of substantia nigra dopamine neurons. (abst – 2009) [link]
Plasma endocannabinoid levels in multiple sclerosis.  (abst – 2009)  

N-acylethanolamines, anandamide and food intake.  (abst – 2009)  

Oleamide is a selective endogenous agonist of rat and human CB1 cannabinoid receptors.  (full – 2004)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574194/

Vasorelaxant effects of oleamide in rat small mesenteric artery indicate action at a novel cannabinoid receptor.  (full – 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1616976/

Enhanced radiosensitization of p53 mutant cells by oleamide.  (abst - 2006)  

Oleamide: a fatty acid amide signaling molecule in the cardiovascular system?  (full – 2007)  

Fatty acid amide hydrolase: from characterization to therapeutics.  (abst – 2007)  

Anxiolytic-like effects of oleamide in group-housed and socially isolated mice.  (abst – 2007)  

Neuropharmacological effects of oleamide in male and female mice.  (abst – 2007)  

Overview of the chemical families of fatty acid amide hydrolase and monoacylglycerol lipase inhibitors.  (abst – 2008)  

Effect of oleamide on pentylenetetrazole-induced seizures in rats.  (abst – 2008)  

Mechanisms involved in oleamide-induced vasorelaxation in rat mesenteric resistance arteries.  (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2664517/

**OMEGA-3/ CB1 CONNECTION**  
* - without Omega 3, new CB1 receptors are made imperfectly -  
also see NUTRITION – HEMP SEED OIL, CBR- CB1 receptors
OMEGA-6 / ENDOCANNABINOID CONNECTION - endocannabinoids are made from Omega 6
Endocannabinoids in the retina: from marijuana to neuroprotection. (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2584875/

**PEA – PALMITOYLETHANOLAMIDE** - CB 2, GPR55 & GPR119 agonist, limits FAAH

Differences in the pharmacological properties of rat and chicken brain fatty acid amidohydrolase. (full – 2000) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572338/


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


Anandamide degradation and N-acylethanolamines level in wild-type and CB1 cannabinoid receptor knockout mice of different ages (full – 2001) http://onlinelibrary.wiley.com/doi/10.1046/j.1471-4159.2001.00413.x/full

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APPETITE - also see TASTE, OBESITY


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Cardiovascular Effects of Cannabis  (news - undated)
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Cannabinoids impair the formation of cholesteryl ester in cultured human cells.
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The Volatile Oil Composition of Fresh and Air-Dried Buds of Cannabis sativa

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The Use of Cannabis as a Mood Stabilizer in Bipolar Disorder: Anecdotal Evidence and
the Need for Clinical Research  (full - 1998)
http://www.ukcia.org/research/TheUseofCannabisasaMoodStabilizerinBipolarDisorder.html

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Comparative diuretic activity of delta9-tetrahydrocannabinol, cannabinol, cannabidiol, cannabinol
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Open label evaluation of cannabidiol in dystonic movement disorders. (full - 1986)
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Anandamide, a Natural Ligand for the Peripheral Cannabinoid Receptor Is a Novel Synergistic Growth Factor for Hematopoietic Cells (full – 1997)
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The inhibitory effects of cannabinoids, the active constituents of Cannabis sativa L. on human and rabbit platelet aggregation. (abst - 1989)

**BLOOD PRESSURE**

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Reduction by Δ9-tetrahydrocannabinol in the blood pressure of hypertensive rats bearing regenerated adrenal glands (full – 1973)
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The effect of cannabichromene on mean blood pressure, heart rate, and respiration rate responses to tetrahydrocannabinol in the anesthetized rat (abst – 1979)

Effect of marihuana on intraocular and blood pressure in glaucoma (full - 1980)
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The cardiovascular and autonomic effects of repeated administration of delta-9-tetrahydrocannabinol to rhesus monkeys. (abst – 1981)

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**BOWEL DISORDERS** - also see COLITIS, CROHN'S

Effects of cannabidiol derivatives on intestinal motility  (abst - undated)  
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Absence of Cerebral Atrophy in Chronic Cannabis Users. Evaluation by Computerized Transaxial Tomography.  
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Computed tomographic examination of heavy marijuana smokers.  
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Neurological and neuroradiological examination of chronic cannabis smokers.  
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Chronic Exposure to Delta 9-tetrahydrocannabinol Fails to Irreversibly Alter Brain Cannabinoid Receptors.  
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Cannabinoid receptors in the human brain: a detailed anatomical and quantitative autoradiographic study in the fetal, neonatal and adult human brain.  
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A nonpsychotropic cannabinoid, HU-211, has cerebroprotective effects after closed head injury in the rat.  
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Development of HU-211 as a neuroprotectant for ischemic brain damage.  
(abst – 1995)  

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

Cytokine production in the brain following closed head injury: dexanabinol (HU-211) is a novel TNF-alpha inhibitor and an effective neuroprotectant.  
(abst – 1997)  

How hash became a smash in brain trauma research  
(news – 1998)
BREASTFEEDING/ LACTATION/ INFANT APPETITE


Inhibition of Suckling-Induced Milk Ejections in the Lactating Rat by Δ9-Tetrahydrocannabinol (abst – 1987)
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Mammary excretion of cannabidiol in rabbits after intravenous administration. (abst - 1994)

CANCER - BREAST

The endogenous cannabinoid anandamide inhibits human breast cancer cell proliferation (full - 1998) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC20983/

CANCER - GASTRIC

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

CANCER – GLIOMA/ BRAIN CANCERS


Δ9-Tetrahydrocannabinol induces apoptosis in C6 glioma cells  (full – 1998)

CANCER - LEUKEMIA

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

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

Fatal aspergillosis associated with smoking contaminated marijuana, in a marrow
transplant recipient.  (full - 1988)

CANCER - LUNG

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

Anticancer activity of cannabinoids  (full - 1975)

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In vivo effects of cannabinoids on macromolecular biosynthesis in Lewis lung

Anti-emetic efficacy and toxicity of nabilone, a synthetic cannabinoid, in lung cancer
chemotherapy.  (full - 1983)
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Marijuana Less Harmful to Lungs than Cigarettes  (news - 1994)
http://www.ukcia.org/research/lungs.php
So, you thought it was the tar that caused cancer...  
(http://www.ukcia.org/research/cancer2.php)

**CANCER - LYMPHOMA**

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

**CANCER - MELANOMA**

Intractable nausea and vomiting due to gastrointestinal mucosal metastases  
(abst - 1997)  
(http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=35)

**CANCER - NEUROBLASTOMA**

Inhibition of neuroblastoma adenylate cyclase by cannabinoid and nantradol compounds  
(abst – 1984)  
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Interaction of delta-9-tetrahydrocannabinol with rat B103 neuroblastoma cells.  
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(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1907498/?tool=pmcentrez&page=1)

Stimulation of anandamide biosynthesis in N-18TG2 neuroblastoma cells by delta 9-tetrahydrocannabinol (THC).  
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(http://www.ncbi.nlm.nih.gov/pubmed/7702643)
Potential biosynthetic connections between the two cannabimimetic eicosanoids, anandamide and 2-arachidonoyl-glycerol, in mouse neuroblastoma cells. (abst – 1996)  

Tau protein after delta-9-tetrahydrocannabinol in a human neuroblastoma cell line. (abst – 1996)  

**CANCER - ORAL**


**CANCER - PROSTATE**

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

**CANCER - RISK CANNABIS VS TOBACCO**

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

Marijuana Less Harmful to Lungs than Cigarettes (news - 1994)  
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Why Doesn't Smoking Marijuana Cause Cancer? (news - 1999)  
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Chemotherapy for Testicular Cancer  (anecdotal - undated)  
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Crossover comparison of the antiemetic efficacy of nabilone and alizapride in patients with nonseminomatous testicular cancer receiving cisplatin therapy  (abst - 1986)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=127

**CANCER - VARIOUS/ UNNAMED**

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

Analgiesic effect of delta-9-tetrahydrocannabinol.  (abst - 1975)  
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The analgesic properties of delta-9-tetrahydrocannabinol and codeine.  (abst - 1975)  
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Delta-9-Tetrahydrocannabinol as an Antiemetic in Cancer Patients Receiving High-Dose Methotrexate  (full - 1979)  
http://www.ukcia.org/research/AntiemeticForMethotrexate.php

Delta-9-tetrahydrocannabinol as an antiemetic for patients receiving cancer chemotherapy. A comparison with prochlorperazine and a placebo.  (abst - 1979)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=5

Delta-9-tetrahydrocannabinol (THC) as an antiemetic in patients treated with cancer chemotherapy; a double-blind cross-over trial against placebo  (abst - 1979)  
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Amelioration of cancer chemotherapy-induced nausea and vomiting by delta-9-tetrahydrocannabinol.  (abst - 1979)  
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The antiemetic activity of tetrahydrocanabinol versus metoclopramide and thiethylperazine in patients undergoing cancer chemotherapy.  (abst - 1980)  
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http://www.gacareproject.com/flash-back-how-georgia-legalized-medical-marijuana/

A multi-institutional Phase III study of nabilone vs. placebo in chemotherapy-induced nausea and vomiting. (abst - 1982)
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Evaluation of the Use of Both Marijuana and THC in Cancer Patients for the Relief of Nausea and Vomiting Associated With Cancer Chemotherapy After Failure of Conventional Anti-Emetic Therapy: Efficacy and Toxicity (full – 1983)

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


Toxicity and Carcinogenicity of {Delta}9-Tetrahydrocannabinol in Fischer Rats and B6C3F1 Mice (full - 1996) http://toxsci.oxfordjournals.org/content/30/1/109.full.pdf+html


**CANNABINOIDS IN OTHER PLANTS**

**CBC/ CANNABICHROMENE** - phytocannabinoid, unknown receptor

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


CBD/ CANNABIDIOL  phytocannabinoids, antagonist of CB1 and CB2, GPR – 55 and 18

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

ACCESSING 0.5 to 2.0 GRAMS CBD FRACTIONATING THE PHYTOCANNABINOID BY THEIR VAPORIZATION POINTS  (article - undated )  

Effects of cannabidiol derivatives on intestinal motility  (abst - undated)  
http://www.docstoc.com/docs/26071658/Effects-cannabidiol-derivatives-on-intestinal-motility-

STUDIES ON THE PHARMACOLOGY AND ACUTE TOXICITY OF COMPOUNDS WITH MARIHUANA ACTIVITY  (abst - 1946)  
http://jpet.aspetjournals.org/content/88/2/154.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

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Some actions of delta-1 tetrahydrocannabinol and cannabidiol at cholinergic junctions.  (full – 1971)  

A metabolic interaction in vivo between cannabidiol and Δ1-tetrahydrocannabinol  (full - 1972)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1666148/?tool=pubmed

Cannabidiol interferes with the effects of Δ9-tetrahydrocannabinol in man  (abst – 1974)  

Interactions in man of delta-9-tetrahydrocannabinol. II. Cannabinol and cannabidiol.  (abst – 1975)  

Differential effect of cannabinol and cannabidiol on THC-induced responses during abstinence in morphine-dependent rats.  (abst - 1975)  

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

The influence of delta9-tetrahydrocannabinol, cannabinol and cannabidiol on tissue oxygen consumption.  (abst – 1975)  
Absence of interaction between delta9-tetrahydrocannabinol (delta-THC) and cannabidiol (CBD) in aggression, muscle control and body temperature experiments in mice. (abst – 1975) http://www.ncbi.nlm.nih.gov/pubmed/1171491


Cannabidiol--antiepileptic drug comparisons and interactions in experimentally induced seizures in rats. (abst - 1977) http://jpet.aspetjournals.org/content/201/1/26.abstract?ijkey=8457ace5313942358e64d156c12d04bd3c7d5f21&keytype2=tf_ipsecsha


CHRONIC ADMINISTRATION OF CANNABIDIOL TO HEALTHY VOLUNTEERS AND EPILEPTIC PATIENTS (full - 1980) http://web.acsalaska.net/~warmgun/es201.html

Sedative activity of cannabis in relation to its delta'-trans-tetrahydrocannabinol and cannabidiol content. (full - 1981) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2071638/?tool=pmcentrez


Action of cannabidiol on the anxiety and other effects produced by delta 9-THC in normal subjects. (abst – 1982)  

Allergenic properties of naturally occurring cannabinoids. (abst - 1983)  

Ocular Hypotension, Ocular Toxicity, and Neurotoxicity in Response to Marihuana Extract and Cannabidiol. (abst - 1984)  

Stimulation of Sphingomyelin Hydrolysis by Cannabidiol in Fibroblasts from a Niemann-pick Patient. (abst - 1984)  

Treatment of Meige's syndrome with cannabidiol. (abst - 1984)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=114

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

Beneficial and adverse effects of cannabidiol in a Parkinson patient with sinemet-induced dystonic dyskinesia. (abst - 1985)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=142

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

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

Cannabidiol in dystonic movement disorders. (abst - 1986)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=139


The inhibitory effects of cannabinoids, the active constituents of Cannabis sativa L. on human and rabbit platelet aggregation. (abst - 1989)  

Antianxiety effect of cannabidiol in the elevated plus-maze. (abst – 1990)  

Mammary excretion of cannabidiol in rabbits after intravenous administration. (abst - 1994)
Cannabidiol and (−)Δ9-tetrahydrocannabinol are neuroprotective antioxidants  
(full - 1998)  

Marijuana chemical tapped to fight strokes  ?  (news - 1998)  

Cannabinoid Antioxidant Protects Brain Cells -- Without the High  (news – 1998)  

Cannabinoid-induced mesenteric vasodilation through an endothelial site distinct from CB1 or CB2 receptors.  (full – 1999)  

**CBDA/ CANNABIDIOLIC ACID**  -  phytocannabinoids, 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)  

**CBG/ CANNABIGEROL**  -  phytocannabinoid, CB2 agonist  

Phytocannabinoids  (news – undated)  

Allergic properties of naturally occurring cannabinoids.  (abst - 1983)  

Intraocular pressure, ocular toxicity and neurotoxicity after administration of cannabinol or cannabigerol.  (abst – 1984)  

Identification of a New Chemotype in Cannabis sativa: Cannabigerol - Dominant Plants, Biogenetic and Agronomic Prospects  (abst – 1987)  

The inhibitory effects of cannabinoids, the active constituents of Cannabis sativa L. on human and rabbit platelet aggregation.  (abst - 1989)


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

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


Evidence for the presence of cannabinoid CB1 receptors in mouse urinary bladder  (full – 1996)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1909890/


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


Hypoactivity of the Spinal Cannabinoid System Results in NMDA-Dependent Hyperalgesia  (full – 1998)  http://www.jneurosci.org/content/18/1/451.long
Assessment of Anandamide Interaction with the Cannabinoid Brain Receptor: SR 141716A Antagonism Studies in Mice and Autoradiographic Analysis of Receptor Binding in Rat Brain (full – 1998) http://jpet.aspetjournals.org/content/284/3/1209.long


Evidence That the Cannabinoid CB1 Receptor Is a 2-Arachidonoylglycerol Receptor (full – 1999) http://www.jbc.org/content/274/5/2794.long

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

Cannabinoid-induced mesenteric vasodilation through an endothelial site distinct from CB1 or CB2 receptors. (full – 1999) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC24203/


**CBR - CB2 CANNABINOID RECEPTOR** - no "high", activated by THC, Anandamide, 2-AG, synthetics

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


Cannabis and cannabinoids: pharmacology and rationale for clinical use.  

**CBR - CBe**  – endothelial cannabinoid receptor

Cannabinoid-induced mesenteric vasodilation through an endothelial site distinct from CB1 or CB2 receptors.  (full – 1999)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC24203/

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


**CEREBRAL PALSY**


**CHEMICAL COMPOSITION**

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


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

HEMP AS A MEDICAMENT: Survey of clinical experiences (full - 1955) 
http://www.bushka.cz/KabelikEN/survey.html

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

Recent Developments in Cannabis Chemistry (full - 1972)  
http://www.onlinepot.org/medical/Dr_Tods_PDFs/s5_6.pdf

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

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

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

Cannabinoid Phenotypes in Cannabis sativa (abst - 1973)  
http://www.nature.com/nature/journal/v245/n5421/abs/245147a0.html

Constituents of Cannabis sativa L. II: Absence of cannabidiol in an african variant (abst – 1975)  

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

Cannabinoid Profile and Elemental Uptake of Cannabis sativa L. as Influenced by Soil Characteristics (abst - 1975)  

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

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

Cannabinoid formation in Cannabis sativa grafted inter-racially, and with two Humulus species (abst - 1975)  

The decomposition of acidic and neutral cannabinoids in organic solvents. (abst – 1977)  
CHEMOTAXONOMY OF CANNABIS 1. CROSSBREEDING BETWEEN CANNABIS SATIVA AND C. RUDERALIS, WITH ANALYSIS OF CANNABINOID CONTENT  (full - 1978)

Cannabinoid composition and gland distribution in clone of Cannabis sativa L. (Cannabaceae)  (full – 1978)


An investigation of procedures reported to increase potency of marijuana: a chemical analysis and psychological interpretation.  (abst – 1978)


Interrelationships of glandular trichomes and cannabinoid content II. Developing vegetative leaves of Cannabis sativa L. (Cannabaceae)  (full - 1981)

Chemataxonomic researches in higher plants. XV Carotenoid and chlorophyll pigments in the leaves of Cannabis sativa L.  (link to PDF - 1981)

Constituents of Cannabis sativa L., XX: the cannabinoid content of Mexican variants grown in Mexico and in Mississippi, United States of America  (full - 1982)


Identification of a New Chemotype in Cannabis sativa: Cannabigerol - Dominant Plants, Biogenetic and Agronomic Prospects  (abst – 1987)

UV-B radiation effects on photosynthesis, growth and cannabinoid production of two Cannabis sativa chemotypes  (abst – 1987)

Histochemical detection of hemp trichomes and their correlation with the THC content.  
( abst - 1988)  

Characterization of the lipophilicity of natural and synthetic analogs of delta-9-tetrahydrocannabinol and its relationship to pharmacological potency.  
( abst - 1990)  
http://jpet.aspetjournals.org/content/255/2/624.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT

Cannabinoid acids analysis.  
( abst – 1992)  

Some features of Cannabis plants grown in the United Kingdom from seeds of known origin.  
( abst - 1992)  
http://www.unboundmedicine.com/medline/ebm/record/1361557/abstract/

Chemical ecology of Cannabis  
( full – 1994)  
http://www.hempfood.com/IHA/iha01201.html

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

Effect of nitrogen on tetrahydrocannabinol (THC) content in hemp (Cannabis sativa L.) leaves at different positions  
( full - 1997)  
http://www.internationalhempassociation.org/jiha/jiha4207.html

Essential Oil of Cannabis sativa L. Strains  
( full – 1997)  
http://www.cannabis-science.com/papers/essentialoilcsativa.html

Immunochemical localization of tetrahydrocannabinol (THC) in cryofixed glandular trichomes of Cannabis (Cannabaceae)  
( full – 1997)  
http://www.amjbot.org/content/84/3/336.full.pdf+html

Capillary electrochromatography of cannabinoids.  
( abst – 1998)  

Medical Cannabis Potency Testing Project  
( full - 1999)  

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

CHEMOTHERAPY
Antiemetic effect of delta-9-tetrahydrocannabinol in patients receiving cancer chemotherapy. (abst - 1975)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=4

Delta-9-Tetrahydrocannabinol as an Antiemetic in Cancer Patients Receiving High-Dose Methotrexate (full - 1979)
http://www.ukcia.org/research/AntiemeticForMethotrexate.php

Delta-9-tetrahydrocannabinol as an antiemetic for patients receiving cancer chemotherapy. A comparison with prochlorperazine and a placebo. (abst - 1979)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=5

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

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

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

Antiemetic effect of tetrahydrocannabinol. Compared with placebo and prochlorperazine in chemotherapy-associated nausea and emesis. (abst - 1980)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=6

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

Antiemetics in patients receiving chemotherapy for cancer: a randomized comparison of delta-9-tetrahydrocannabinol and prochlorperazine. (abst - 1980)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=3

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

Physiologic observations in a controlled clinical trial of the antiemetic effectiveness of 5, 10, and 15 mg of delta 9-tetrahydrocannabinol in cancer chemotherapy. Ophthalmologic implications. (abst - 1981)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=131

Clinical experience with levonantradol hydrochloride in the prevention of cancer chemotherapy-induced nausea and vomiting. (abst – 1981)
Dose vs response of tetrahydroannabinol (THC) vs prochlorperazine as chemotherapy antiemetics. (abst - 1981)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=30

Comparative trial of the antiemetic effects of THC and haloperidol (abst - 1981)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=64

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)  

Cannabis and cancer chemotherapy: a comparison of oral delta-9-THC and prochlorperazine. (abst – 1982)  

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

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

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

Evaluation of the Use of Both Marijuana and THC in Cancer Patients for the Relief of Nausea and Vomiting Associated With Cancer Chemotherapy After Failure of Conventional Anti-Emetic Therapy: Efficacy and Toxicity (full – 1983)  

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)  

THC or Compazine for the cancer chemotherapy patient—the UCLA study. Part II: Patient drug preference. (abst - 1985)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=34

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

Nabilone: an alternative antiemetic for cancer chemotherapy. (full - 1986)
Crossover comparison of the antiemetic efficacy of nabilone and alizapride in patients with nonseminomatous testicular cancer receiving cisplatin therapy  (abst - 1986)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=127

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

http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=120

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

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

Marijuana as antiemetic medicine : A Survey of Oncologists' Experiences and Attitudes  (full - 1991)  
http://www.maps.org/docs/doblin-mt.html

Dronabinol and prochlorperazine in combination for treatment of cancer chemotherapy-induced nausea and vomiting.  (abst - 1991)  

An efficient new cannabinoid antiemetic in pediatric oncology  (full - 1995)  
http://www.druglibrary.org/olsen/hemp/pha/pha02210.html

**CHILDREN/ YOUNG ADULTS**

Nutrition for Moms-to-be!  (article - undated)  

HEMP AS A MEDICAMENT : Importance of hemp seeds in the tuberculosis therapy  (forum thread- full - 1955)  (EDEZYME recipe)  
http://www.bushka.cz/KabelikEN/hempseed.html

Survey of adolescent drug use. I. Sex and grade distribution.  (full – 1971)  

Nabilone: an alternative antiemetic for cancer chemotherapy.  (abst - 1986)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=123

Nabilone versus prochlorperazine for control of cancer chemotherapy-induced emesis in children  (abst - 1987)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=120

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


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)  

An efficient new cannabinoid antiemetic in pediatric oncology.  (abst - 1995)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=7


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

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

The Changing Pattern of Substance Abuse in Urban Adolescents  (full – 1998)
http://archpedi.jamanetwork.com/article.aspx?articleid=189315&r esultClick=3

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


**CHOCOLATE** contains a small amount of Anandamide and compounds that block its breakdown


**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)

**CHRONIC FATIGUE SYNDROME/ MYALGIC ENCEPHALOMYELITIS**

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

A Practical treatise on nervous exhaustion(neurasthenia) aka Chronic Fatigue Syndrome  
(full – 1894)  
[https://archive.org/details/apracticaltreat03beargoog](https://archive.org/details/apracticaltreat03beargoog)

**COLITIS** - also see BOWEL DISORDERS

Ulcerative Colitis and Marijuana  
(letter - 1990)  

**COPD/ CHRONIC OBSTRUCTIVE PUMONARY DISEASE**

Heavy Habitual Marijuana Smoking Does Not Cause an Accelerated Decline in FEV with Age  
(full - 1997)  

Marijuana. Respiratory tract effects.  
(abst - 1997)  

Heavy Long-Term Marijuana Use Does Not Impair Lung Function  
(news - 1997)  

**CP 47,497** - synthetic, CB1 & CB2 agonist
Cannabimimetic activity from CP-47,497, a derivative of 3-phenylcyclohexanol (abst - 1982)
http://jpet.aspetjournals.org/content/223/2/516.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=Hexahydrocannabinol&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

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)


CP 55,940 - synthetic , CB1, CB2 & GPR-55 agonist

Molecular cloning of a human cannabinoid receptor which is also expressed in testis (full – 1991)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1151556/
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

Cannabinoids enhance human B-cell growth at low nanomolar concentrations. (abst – 1995)  

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

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

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

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

Cannabinoid modulation of intestinal propulsion in mice. (abst – 1998)  
http://www.frontiersin.org/publications/9570450

The role of cannabinoid receptors in intestinal motility, defaecation and diarrhoea in rats (abst - 1999)  

**CROHN’S DISEASE**  - also see BOWEL DISORDERS

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

**CYSTIC FIBROSIS**

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

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

The perceived effects of smoked cannabis on patients with multiple sclerosis.  

**DERMATITIS**

Allergenic properties of naturally occurring cannabinoids.  

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

**DRIVING AND CANNABIS**

Comparison of the Effects of Marijuana and Alcohol on Simulated Driving Performance  

Simulated Flying Performance After Marihuana Intoxication.  

Marijuana effects on simulated flying ability.  

Abstracts of several studies  

Marijuana And Actual Driving Performance  
(full - 1993)  [http://science.iowamedicalmarijuana.org/pdfs/driving/doths808078.pdf](http://science.iowamedicalmarijuana.org/pdfs/driving/doths808078.pdf)

CANNABIS AND ROAD SAFETY: AN OUTLINE OF THE RESEARCH STUDIES TO EXAMINE THE EFFECTS OF CANNABIS ON DRIVING SKILLS AND ON ACTUAL DRIVING PERFORMANCE  
(full - c.1995)  [http://www.ukcia.org/research/driving2.htm](http://www.ukcia.org/research/driving2.htm)

Cannabis and driving  
University Of Toronto Study Shows Marijuana Not A Factor In Driving Accidents

DRUG TESTING

Legal and ethical aspects of drug testing.  (full - 1989)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1807765/?tool=pmcentrez&page=1

Interference of Common Household Chemicals in Immunoassay Methods for Drugs of Abuse  (full - 1989)

Test Negative A look at the "evidence" justifying illicit-drug tests  (news – 1990)
http://druglibrary.org/schaffer/MISC/testneg.htm


DRUG TESTING - BLOOD


Characterization of the absorption phase of marijuana smoking.  (abst – 1992)
**DRUG TESTING - HAIR**

Testing human hair for cannabis  
(abort - 1995)  

Drugs in Prehistory: Chemical Analysis of Ancient Human Hair.  
(abort – 1998)  
http://www.fsijournal.org/article/S0379-0738(99)00204-2/abstract

Are cannabinoids detected in hair after washing with Cannabio shampoo?  
(abort - 1999)  

**DRUG TESTING - FINGERNAILS**

Nail analysis for drugs of abuse: extraction and determination of cannabis in fingernails by RIA and GC-MS.  
(full – 1999)  
http://jat.oxfordjournals.org/content/23/3/147.long

**DRUG TESTING - URINE**

Delta-9-tetrahydrocannabinol: Metabolism and Disposition in Long-term Marihuana Smokers.  
(abort – 1971)  

Confirmation of the Presence of 11-Hydroxy-r 9-Tetrahydrocannabinol in the Urine of Marijuana Smokers  
(full - 1972)  

Detection of cannabis products in urine by radioimmunoassay.  
(full - 1975)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1673774/?tool=pmcentrez&page=1

Homogeneous enzyme immunoassay for cannabinoids in urine.  
(full - 1978)  
http://www.clinchem.org/cgi/reprint/24/1/95

Laboratory verification of “heavy” and “light” users of cannabis  
(abort - 1981)  

Persistence of Urinary Marijuana Levels After Supervised Abstinence.  
(abort – 1982)  


SIMPLE WAY TO BEAT URINE TESTS -- JUST DRINK WATER  (news – 1990)  http://druglibrary.org/schaffer/MISC/drinkwater.htm


Increased detection of marijuana use with a 50 micrograms/L urine screening cutoff. (full - 1994)  http://www.clinchem.org/cgi/reprint/40/11/2114

Hemp oil ingestion causes positive urine tests for Δ9-tetrahydrocannabinol carboxylic acid  (full - 1997)  http://www.druglibrary.org/crl/drugtesting/Constantino%20et.al%2097%20Hemp%20Oil%20JanToxicol.pdf

A procedure to overcome interferences caused by the adulterant "Klear" in the GC-MS analysis of 11-nor-delta9-THC-9-COOH.  (full – 1997)  http://jat.oxfordjournals.org/content/21/3/240.long

Excretion of Cannabinoids in Urine After Ingestion of Cannabis Seed Oil.  (full – 1997)  http://jat.oxfordjournals.org/content/21/5/373.long

Marijuana-positive urine test results from consumption of hemp seeds in food products.
In vivo adulteration: excess fluid ingestion causes false-negative marijuana and cocaine urine test results. (full – 1998)  http://jat.oxfordjournals.org/content/22/6/460.long


Adulteration of urine by "Urine Luck". (full – 1999) http://www.clinchem.org/cgi/content/full/45/7/1051


**DYSKINESIA**


**DYSTONIA**


Cannabidiol (CBD) in dystonic movement disorders.   (abst - 1986)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=139

(+)-WIN 55,212-2, a novel cannabinoid receptor agonist, exerts antidystonic effects in mutant dystonic hamsters.   (abst - 1994)  

Cannabis in movement disorders.   (abst - 1999)  

EDEMA

ANTI-EDEMA AND ANALGESIC PROPERTIES OF Δ9-
TETRAHYDROCANNABINOL (THC)   (abst - 1973)  
http://jpet.aspetjournals.org/content/186/3/646.abstract?maxtoshow=&hiti=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=2160&resourcetype=HWCIT

ENCEPHALOMYELITIS/ EAE - a mouse multiple sclerosis model

Suppression of experimental autoimmune encephalomyelitis by cannabinoids.  
(abst – 1997)  

ENDOCANNABINOIDS - also see ANANDAMIDE, 2-AG,

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

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

Anandamide amidohydrolase reacting with 2-arachidonoylglycerol, another cannabinoid receptor ligand   (full – 1997)  
http://www.druglibrary.org/crl/receptors/endogenous/Goparahu%20et.al%2098%202-AG_%20FEBSLet.pdf

Brain Chemicals Mimic Marijuana   (news - 1997)  
http://www.ukcia.org/research/anandami.php
Body's 'cannabis' could hold blood pressure key  (news - 1998)
http://www.ukcia.org/research/blood-pressure.php

Cannabis and cannabinoids: pharmacology and rationale for clinical use  (abst – 1999)


### ENDOCANNABINOID SYSTEM - also see CBRs, ENDOCANNABINOIDS, 2-AG, ANANDAMIDE

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Marijuana Effects on the Endocrine and Reproductive Systems  (full - 1984)
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HU-210 - synthetic, CB 1 & CB 2 agonist

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HU-211 / DEXANABINOL/ ETS-2101 - synthetic, CB 2 agonist


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**HUMAN ENDOCANNABINOID SYSTEM GENETICS**


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(abst - 1977)
http://www.unboundmedicine.com/medline/ebm/record/903049/abstract/Muscular_dystrophy_in_mice_afer_chronic_subcutaneous_treatment_with_cannabinoids

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

GENERIC NAME: NABILONE - ORAL (NAB-ih-lone)
Brand Names : Cesamet   (monograph - undated)
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Microbiological transformations of nabilone, a synthetic cannabinoid.  (full - 1979)
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Double-blind comparison of the antiemetic effects of nabilone and prochlorperazine on chemotherapy-induced emesis.  (abst - 1980)
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A double-blind, controlled trial of nabilone vs. prochlorperazine for refractory emesis induced by cancer chemotherapy.  (abst - 1982)
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Respiratory and cardiovascular depressant effects of nabilone, N-methyllevonantradol and delta 9-tetrahydrocannabinol in anesthetized cats.  (abst - 1983)
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Crossover comparison of the antiemetic efficacy of nabilone and alizapride in patients with nonseminomatous testicular cancer receiving cisplatin therapy.  (abst - 1986)
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Prospective randomized double-blind trial of nabilone versus domperidone in the treatment of cytotoxic-induced emesis.  (abst - 1986)
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A randomized trial of oral nabilone and prochlorperazine compared to intravenous metoclopramide and dexamethasone in the treatment of nausea and vomiting induced by chemotherapy regimens containing cisplatin or cisplatin analogues. (abst – 1988)  

Effect of nabilone on nausea and vomiting after total abdominal hysterectomy (abst - 1994)  
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Effect of nabilone on nausea and vomiting (letter - 1995)  
http://bja.oxfordjournals.org/cgi/reprint/74/1/111?maxtoshow=&hits=80&RESULTFORMAT=1&andorexacttitle=and&andorexacttitleabs=and&fulltext=cannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HWCIT

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

The effects of the cannabinoid receptor agonist nabilone on L-DOPA induced dyskinesia in patients with idiopathic Parkinson's disease (PD). (abst - 1998)  
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Cannabis and cannabinoids: pharmacology and rationale for clinical use (abst – 1999)  
NAUSEA - also see RADIATION-INDUCED NAUSEA


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

Comparative trial of the antiemetic effects of THC and haloperidol (abst - 1981)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=64

A double-blind, controlled trial of nabilone vs. prochlorperazine for refractory emesis induced by cancer chemotherapy. (abst - 1982)
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A multi-institutional Phase III study of nabilone vs. placebo in chemotherapy-induced nausea and vomiting. (abst - 1982)
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Evaluation of the Use of Both Marijuana and THC in Cancer Patients for the Relief of Nausea and Vomiting Associated With Cancer Chemotherapy After Failure of Conventional Anti-Emetic Therapy: Efficacy and Toxicity (full – 1983)

Anti-emetic efficacy and toxicity of nabilone, a synthetic cannabinoid, in lung cancer chemotherapy. (full - 1983)
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THC or Compazine for the cancer chemotherapy patient--the UCLA study. Part II: Patient drug preference. (abst - 1985)
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Oral vs. Inhaled Cannabinoids for Nausea/Vomiting from Cancer Chemotherapy  
(full - 1988)  
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(abst - 1988)  
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A randomized trial of oral nabilone and prochlorperazine compared to intravenous metoclopramide and dexamethasone in the treatment of nausea and vomiting induced by chemotherapy regimens containing cisplatin or cisplatin analogues.  (abst – 1988)  

Marijuana as antiemetic medicine: a survey of oncologists' experiences and attitudes.  
(abst - 1991)  
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Effect of nabilone on nausea and vomiting after total abdominal hysterectomy.  
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An efficient new cannabinoid antiemetic in pediatric oncology.  (abst - 1995)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=7

Patent 5605928 - Antiemetic compositions  
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Intractable nausea and vomiting due to gastrointestinal mucosal metastases relieved by tetrahydrocannabinol (dronabinol).  (abst - 1997)
NEURONS/ BRAIN CELLS

Cannabinoid Receptor Localization in Brain  (full - 1990)  

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

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


NEUROPATHIC PAIN


NEUROPROTECTANT

Marijuana Protects Your Brain (news - undated) http://www.roninpub.com/art-mjbrain.html

The use of cannabinoids in MS: is it evidence based? (abst - undated) http://www.ukcia.org/research/UseOfCannabinoidsInMSEvidenceBased.pdf


Cannabidiol and delta 9THC are neuroprotective antioxidants (full - 1998) http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=20965&tool=pmcentrez


Cannabinoid Antioxidant Protects Brain Cells -- Without the High (news – 1998) http://hempworld.com/HempPharm/articles/medicalm05.html

Cannabinoids and Neuroprotection in Global and Focal Cerebral Ischemia and in Neuronal Cultures (full - 1999) http://www.jneurosci.org/cgi/content/full/19/8/2987?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=50&sortspec=relevance&resourcetype=HWCIT

NIEMANN-PICK DISEASE


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


NUTRITION – HEMP SEED

Hemp Protein Powder 411 (article - undated) http://manitobaharvest.com/articles_studies/3804/Hemp-Protein-%3D-King-of-the-Plant-Kingdom.html


Hemp = Superfood (article - undated) http://manitobaharvest.com/articles_studies/3802/Hemp%3A-Nature%27s-Forgotten-Superfood.html


NUTRITION – HEMP SEED OIL - also see Omega 3/ CB1 CONNECTION

King’s College Review of Nutritional Attributes of Cold Pressed Hemp Seed Oil (full – undated)  http://www.goodwebsite.co.uk/kingsreport.pdf


Hemp Oil vs Flax Oil. Which One is Right for Me? (article - undated)  http://manitobaharvest.com/articles_studies/3794/Hemp-Oil-vs-Flax-Oil.-Which-One-is-Right-for-Me%3F.html


Hemp = Right for Omega-6 (article - undated)  http://manitobaharvest.com/articles_studies/3814/Hemp-%3A-The-Right-Choice-for-Omega-6-.html

Hemp Oil Vs. Flax Oil (1) (article – undated)  http://www.ehow.com/facts_5949889_hemp-oil-vs-flax-oil.html
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/iha03101.html

Occurrence of "omega-3" stearidonic acid in hemp seed  (full - 1996)
http://www.hempfood.com/IHA/iha03208.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

**OBESITY**

Hemp & GLA: Good Fat Burns Bad Fat  (news/forum repost- undated)

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

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

Nutrition for Moms-to-be!  (article - undated)

Omega-3 and Omega-6 Essential fatty Acids (EFA)  (infomercial/ad – undated)

Occurrence of "omega-3" stearidonic acid in hemp seed  (full - 1996)
http://www.hempfood.com/IHA/iha03208.html
ORGAN TRANSPLANTS

Fatal aspergillosis associated with smoking contaminated marijuana, in a marrow transplant recipient. (full - 1988)

Successfully treated invasive pulmonary aspergillosis associated with smoking marijuana in a renal transplant recipient. (abst - 1996)

OVERDOSES on CANNABINOIDS

What is the lethal dose of marijuana? (news – undated)
http://druglibrary.org/schaffer/library/mj_overdose.htm

Cannabis Indica Poisoning (1899) http://www.onlinepot.org/medical/Dr_Tods_PDFs/s2_2.pdf

Two cases of Poisoning by Cannabis Indica (1900)

Collapse after intravenous injection of hashish. (full - 1968)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1986226/?tool=pmcentrez&page=1

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2552908/?tool=pmcentrez&page=1

OVERVIEWS

On Being Stoned: A Psychological Study of Marijuana Intoxication (book - 1971)
http://www.druglibrary.org/special/tart/tartcont.htm

HEMP, THE PLANT THAT CAN SAVE MOTHER EARTH (transcript – 1990)
http://www.ratical.org/renewables/hempHDRT.html

PAIN
ANTI-EDEMA AND ANALGESIC PROPERTIES OF Δ9-TETRAHYDROCANNABINOL (THC) (abst - 1973)
http://jpet.aspetjournals.org/content/186/3/646.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=2160&resourcetype=HWCIT

Analgesic effect of delta-9-tetrahydrocannabinol. (abst - 1975)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=16

The analgesic properties of delta-9-tetrahydrocannabinol and codeine. (abst - 1975)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=17

Marihuana as a therapeutic agent for muscle spasm or spasticity. (abst - 1980)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=53

ANALGESIC AND ANTIINFLAMMATORY ACTIVITY OF CONSTITUENTS OF CANNABIS SATIVA L. (full - 1988)
http://www.ukcia.org/research/AnalgesicAndAntiInflammatoryActivityofConstituents.html

The effect of orally and rectally administered delta-9-tetrahydrocannabinol on spasticity: a pilot study with 2 patients. (abst - 1996)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=12


Pain relief with oral cannabinoids in familial Mediterranean fever. (abst - 1997)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=18

Hypoactivity of the Spinal Cannabinoid System Results in NMDA-Dependent Hyperalgesia (full – 1998) http://www.jneurosci.org/content/18/1/451.long

Doped skin (news - 1998) (may need registration)
http://www.newscientist.com/article/mg15921434.700-doped-skin.html

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

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

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

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

Beneficial and adverse effects of cannabidiol in a Parkinson patient with sinemet-induced dystonic dyskinesia.  (abst - 1985)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=142

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

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

Cannabis in movement disorders.  (abst - 1999)

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

PATENTS RELATED TO CANNABIS

US Patent 4189491 - Tetrahydrocannabinol in a method of treating glaucoma

Patent 4315862 - Process for preparing cannabichromene  (full - 1982)
http://www.freepatentsonline.com/4315862.html


US Patent 5389375 - Stable suppository formulations effecting bioavailability of 9-thc

http://www.google.com/patents/US5605928

Patent 5631297 - Anandamides useful for the treatment of intraocular hypertension, ophthalmic compositions containing the same and methods of use of the same (full – 1997)  
http://www.freepatentsonline.com/5631297.html

http://members.iowatelecom.net/sharkhaus/marinol_long.html

PEA – PALMITOYLETHANOLAMIDE - endocannabinoid , CB 2, GPR55 & GPR119 agonist

Mast cells express a peripheral cannabinoid receptor with differential sensitivity to anandamide and palmitoylethanolamide. (full – 1995)  
http://www.pnas.org/content/92/8/3376.full.pdf+html

The palmitoylethanolamide and oleamide enigmas : are these two fatty acid amides cannabimimetic? (abst – 1999)  
http://lib.bioinfo.pl/pmid:10469890

PHYTOCANNABINOIDS/ PLANT EXTRACTS - also see THC, CBD

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

ACCESSING 0.5 to 2.0 GRAMS CBD FRACTIONATING THE PHYTOCANNABINOIDS BY THEIR VAPORIZATION POINTS (article - undated)  

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

Cannabis Indica (U. S. P.)—Indian Cannabis. King's American Dispensatory (1898)  
http://www.henriettesherbal.com/eclectic/kings/cannabis.html

Chemical basis of hashish activity. (abst - 1970)  

Anticonvulsant Action of Cannabis in the Rat: Role of Brain Monoamines. (abst – 1978)  

Intraocular pressure following systemic administration of cannabinoids. (abst - 1982)  


**POISONING – HEAVY METAL**


**POISONING - PARAQUAT**


**POST TRAUMATIC STRESS DISORDER/ PTSD**

POTENCY/ THE “HIGH”

What Medical Marijuana strain is best for your condition, Sativa or Indica? (news – undated)  http://patientsmarijuana.org/Sativa_or_Indica.html


Marijuana smoking: effect of varying delta 9-tetrahydrocannabinol content and number of puffs. (abst - 1992)  http://jpet.aspetjournals.org/content/261/1/114.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=480&resourcetype=HWCIT

Effects of delta 9-THC on marijuana smoking, dose choice, and verbal report of drug liking. (full - 1994)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1334408/?tool=pubmed
Preference for High- Versus Low-potency Marijuana.  (abst – 1994)

Effects of Varying Marijuana Potency on Deposition of Tar and D 9 -THC in the Lung During Smoking  (full - 1997)

Medical Cannabis Potency Testing Project  (full - 1999)

**PREGNANCY/ PRENATAL EXPOSURE**  - also see PERINATAL HYPOXIC-ISCHEMIC INJURY, CHILDREN/ YOUNG ADULTS

Nutrition for Moms-to-be!  (article - undated)

Effects of Alcohol and Cannabis during Labor.  (article/ forum repost - 1930)

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


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


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


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)
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

QUITTING CANNABIS  - also see ADDICTION, WITHDRAWAL

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


QUITTING OTHER DRUGS

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


Differential effect of cannabionol and cannabidiol on THC-induced responses during abstinence in morphine-dependent rats.  (abst - 1975)
Effect of some cannabinoids on naloxone-precipitated abstinence in morphine-dependent mice.  (abst – 1976)


**RADIATION-INDUCED NAUSEA**


**RELIGION and CANNABIS**

ON INDICATIONS OF THE HACHISH-VICE IN THE OLD TESTAMENT
The Religious and Medicinal Uses of Cannabis in China, India and Tibet  (full - 1981)  

Thandai and chilam: traditional Hindu beliefs about the proper uses of Cannabis.  

Kaneh Bosm: Cannabis in the Old Testament  (article – 1997)  
http://www.cannabisculture.com/articles/1090.html

RETINITIS PIGMENTOSA
Smoking dope restored my sight  (news/anecdotal - 1998)  
http://news.bbc.co.uk/2/hi/health/212301.stm

RIMONABANT/ACOMPLIA/SR141716/SR1 — a CB1 & CB2 antagonist, failed diet drug

SR141716A, a potent and selective antagonist of the brain cannabinoid receptor.  

The CB1 cannabinoid receptor antagonist SR 141716A affects A9 dopamine neuronal activity in the rat.  

Cannabinoids enhance human B-cell growth at low nanomolar concentrations.  

Biochemical and pharmacological characterisation of SR141716A, the first potent and selective brain cannabinoid receptor antagonist.  

Cannabinoid precipitated withdrawal by the selective cannabinoid receptor antagonist, SR 141716A.  

Activation of peripheral CB1 cannabinoid receptors in haemorrhagic shock.  
Assessment of Anandamide Interaction with the Cannabinoid Brain Receptor: SR 141716A Antagonism Studies in Mice and Autoradiographic Analysis of Receptor Binding in Rat Brain  (full – 1998)  http://jpet.aspetjournals.org/content/284/3/1209.long


Cannabinoid-induced mesenteric vasodilation through an endothelial site distinct from CB1 or CB2 receptors.  (full – 1999)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC24203/


**R(+)-METHANANANDAMIDE** – synthetic, anandamide analog


**SAFETY AS A MEDICINE**

What is the lethal dose of marijuana?  (news – undated)  http://druglibrary.org/schaffer/library/mj_overdose.htm

THE RELATIVE ACTIVITY OF VARIOUS PURIFIED PRODUCTS OBTAINED FROM AMERICAN GROWN HASHISH  (abst - 1938)  http://jpet.aspetjournals.org/content/62/2/239.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=640&resourcetype=HWCIT

STUDIES ON THE PHARMACOLOGY AND ACUTE TOXICITY OF COMPOUNDS WITH MARIHUANA ACTIVITY  (abst - 1946)  http://jpet.aspetjournals.org/content/88/2/154.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

The Report of the National Commission on Marihuana and Drug Abuse
Acute Effects of Marihuana    (full – 1972)
http://www.druglibrary.org/schaffer/library/studies/nc/nc1e.htm

Cognition and Long-Term Use of Ganja (Cannabis)    (full - 1981)
http://www.druglibrary.org/schaffer/hemp/medical/cognition.htm


THREE THINGS MARIJUANA DOESN'T DO    (news - 1992)
http://www.ukcia.org/research/mjfaq2.php

Health care use by frequent marijuana smokers who do not smoke tobacco.

Proven: Cannabis is safe medicine    (news - 1996)
http://www.ukcia.org/research/safe-medicine.htm

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

SAFETY- ADULTERANTS/ CONTAMINANTS

Examination of fungal growth and aflatoxin production on marihuana.    (abst – 1977)

Paraquat goes to pot.    (full - 1978)

Paraquat and marihuana. Assessing the hazard.    (full - 1978)


Detection and analysis of paraquat in confiscated marijuana samples.    (abst – 1978)

Allergic bronchopulmonary aspergillosis associated with smoking moldy marihuana.

Paraquat and marijuana: epidemiologic risk assessment.    (full - 1983)
Marijuana smoking and fungal sensitization. (abst - 1983)

Fatal aspergillosis associated with smoking contaminated marijuana, in a marrow
transplant recipient. (full - 1988)

Microbiological contaminants of marijuana (full - 1994)
http://www.hempfood.com/IHA/iha01205.html

Successfully treated invasive pulmonary aspergillosis associated with smoking marijuana

**SCHIZOPHRENIA/ MENTAL DISORDERS**

The Report of the National Commission on Marihuana and Drug Abuse
Acute Effects of Marihuana (full – 1972)
http://www.druglibrary.org/schaffer/library/studies/nc/nc1e.htm

radical notion (letter - 1974)
http://schizophreniabulletin.oxfordjournals.org/cgi/reprint/1/11/16-
a?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=1040&res
ourcetype=HWCIT

Study Shows Long Term Marijuana Users Healthy (news - 1994)
http://www.erowid.org/plants/cannabis/cannabis_science3.shtml

Immunology in medical practice. XIV. Central nervous system complications in systemic

**SEPTIC SHOCK**

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

Cardiovascular actions of cannabinoids and their generation during shock. (abst – 1998)
**SINUSITIS**

HEMP AS A MEDICAMENT : Cannabis indica in oto-rhino-laryngology  (full - 1955)  
http://www.bushka.cz/KabelikEN/otorhino.html

**SLEEPING SICKNESS/ TRYPANOSOMIASIS**


**SLEEP MODULATION**

Effect of cannabis and certain of its constituents on pentobarbitone sleeping time and phenazone metabolism  (full - 1972)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1666020/  

(−)δ9 THC as an hypnotic  (abst – 1973)  
http://link.springer.com/article/10.1007%2FBF00437513#page-1

**SMOKED CANNABIS AS A MEDICATION** – also see METHODS OF USE- SMOKING

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

Marihuana smoking and intraocular pressure.  (abst - 1971)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=47

Smoked marijuana and oral delta-9-THC on specific airway conductance in asthmatic subjects  (full - 1974)  
http://www.ukcia.org/research/SmokedAndOralInAsthmatic.php

Effects of smoked marijuana in experimentally induced asthma.  (full - 1975)
Anticonvulsant nature of marihuana smoking (abst - 1975)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=39

Short-term effects of smoked marihuana on left ventricular function in man (full - 1977)

Effect of marihuana on intraocular and blood pressure in glaucoma (full - 1980)
http://www.ukcia.org/research/EffectOnIntraocularAndBloodPressureInGlaucoma.php

Comparison of effects of marihuana cigarettes of three different potencies (full - 1982)
http://www.nature.com/clpt/journal/v31/n5/pdf/clpt198286a.pdf

Evaluation of the Use of Both Marijuana and THC in Cancer Patients for the Relief of Nausea and Vomiting Associated With Cancer Chemotherapy After Failure of Conventional Anti-Emetic Therapy: Efficacy and Toxicity (full – 1983)

Oral vs. Inhaled Cannabinoids for Nausea/Vomiting from Cancer Chemotherapy (full - 1988)
http://www.druglibrary.org/schaffer/hemp/medical/pierson.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

Marijuana Smoking: Factors That Influence the Bioavailability of Tetrahydrocannabinol (full - 1990)

Effects of delta 9-THC on marijuana smoking, dose choice, and verbal report of drug liking. (full - 1994)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1334408/?tool=pubmed

The perceived effects of smoked cannabis on patients with multiple sclerosis. (abst - 1997)

Marijuana Smoking vs Cannabinoids for Glaucoma Therapy (full - 1998)
http://archopht.ama-assn.org/cgi/content/full/116/11/1433

SOCIAL ADJUSTMENT/ BEHAVIOR

MARIHUANA INTOXICATION (abst - 1934)

MARIHUANA AND AGGRESSIVE CRIME (abst - 1946)
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


The Effect of Marijuana on Small Group Process.  (abst – 1977)

Delta9-tetrahydrocannabinol: antiaggressive effects in mice, rats, and squirrel monkeys  (abst - 1978)
http://www.sciencemag.org/cgi/content/abstract/199/4336/1459?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT

Marihuana and mood in human volunteers.  (abst – 1978)

http://members.iowatelecom.net/sharkhaus/marinol_long.html

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

**SPASTICITY**

The perceived effects of marijuana on spinal cord injured males.  (abst - 1974)

Marihuana as a therapeutic agent for muscle spasm or spasticity.  (abst - 1980)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=53

Treatment of human spasticity with delta 9-tetrahydrocannabinol.  (abst - 1981)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=8

Cannabis effect on spasticity in spinal cord injury.  (abst - 1982)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=113

Effect of Delta-9-THC on EMG Measurements in Human Spasticity  (abst - 1986)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=110

The effect of delta-9-THC on human spasticity.  (abst - 1986)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=154
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=1

Effect of cannabinoids on spasticity and ataxia in multiple sclerosis. (abst - 1989)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=2

Delta-9-tetrahydrocannabinol shows antispastic and analgesic effects in a single case double-blind trial. (abst - 1990)
http://www.springerlink.com/content/3826667673770p51/fulltext.pdf?page=1

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

Treatment of spasticity in spinal cord injury with dronabinol, a tetrahydrocannabinol derivative. (abst - 1995)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=112

The effect of orally and rectally administered delta-9-tetrahydrocannabinol on spasticity: a pilot study with 2 patients. (abst - 1996)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=12

**SPINAL CORD INJURY**

The perceived effects of marijuana on spinal cord injured males. (abst - 1974)

Marijuana as a therapeutic agent for muscle spasm or spasticity. (abst - 1980)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=53

Cannabis effect on spasticity in spinal cord injury. (abst - 1982)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=113

The effect of delta-9-THC on human spasticity. (abst - 1986)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=154

Delta-9-tetrahydrocannabinol shows antispastic and analgesic effects in a single case double-blind trial. (abst - 1990)

Treatment of spasticity in spinal cord injury with dronabinol, a tetrahydrocannabinol derivative. (abst - 1995)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=112
The effect of orally and rectally administered delta-9-tetrahydrocannabinol on spasticity: a pilot study with 2 patients. (abst - 1996)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=12

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

Cannabis and cannabinoids: pharmacology and rationale for clinical use (abst – 1999)  

**SPLIEEN**

Molecular characterization of a peripheral receptor for cannabinoids (abst – 1993)  

**STORAGE of CANNABIS**

The stability of cannabis and its preparations on storage. (abst – 1976)  

The decomposition of acidic and neutral cannabinoids in organic solvents. (abst – 1977)  


Stability of Cannabis sativa L. samples and their extracts, on prolonged storage in Delhi. (abst – 1978)  

Stability of Cannabinoids in Dried Samples of Cannabis Dating from Around 1896-1905. (abst – 1990)  

**STROKE** - also see PERINATAL HYPOXIC-ISCHEMIC INJURY
The inhibitory effects of cannabinoids, the active constituents of Cannabis sativa L. on human and rabbit platelet aggregation.  (abst - 1989)  

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

Marijuana chemical tapped to fight strokes?  (news - 1998)  
http://www.thefreelibrary.com/Marijuana+chemical+tapped+to+fight+strokes.-a020973037

Dope hope for stroke victims  (news - 1998)  
http://news.bbc.co.uk/2/hi/science/nature/126181.stm

Cannabinoids and Neuroprotection in Global and Focal Cerebral Ischemia and in Neuronal Cultures  (full - 1999)  
http://www.jneurosci.org/cgi/content/full/19/8/2987?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HWCIT

Dexanabinol; a novel neuroprotective drug in experimental focal cerebral ischemia.  (abst – 1999)  

**STORAGE of CANNABIS**  (I know these are old, but questions on storage come up often!)

Storing Medical Cannabis  (news – undated)  
http://www.harborsidehealthcenter.com/learn/storing-medical-cannabis.html

The stability of cannabis and its preparations on storage.  (abst – 1976)  

The decomposition of acidic and neutral cannabinoids in organic solvents.  (abst – 1977)  


Stability of Cannabis sativa L. samples and their extracts, on prolonged storage in Delhi.  (abst – 1978)  
**TASTE** - also see APPETITE STIMULANT

SR 141716, a CB1 cannabinoid receptor antagonist, selectively reduces sweet food intake in marmoset. (abst – 1998)

**TAXONOMY/ GENETICS OF CANNABIS**

Induction of female flowers on male plants of Cannabis sativa L. by 2-chloroethanephosphonic acid (full - 1970) http://repository.ias.ac.in/26409/1/401.pdf

Feminization of male flowers of Cannabis sativa L. by a morphactin (full – 1971) http://repository.ias.ac.in/26413/1/406.pdf

Induction of male flowers on female plants of Cannabis sativa by gibberellins and its inhibition by abscisic acid (full – 1972) http://repository.ias.ac.in/26417/1/410.pdf

Cannabinoid Phenotypes in Cannabis sativa (abst - 1973) http://www.nature.com/nature/journal/v245/n5421/abs/245147a0.html


Comparative effect of silver ion and gibberellic acid on the induction of male flowers on female Cannabis plants (full – 1978) http://repository.ias.ac.in/26407/1/399.pdf


Cannabinoid level in the leaves as a tool for the early discrimination of cannabis chemiovariants (abst - 1984)
http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T6W-4C3C6F-5&_user=10&_origUdi=B6TH7-42WPSNF-37&_fmt=high&_coverDate=01%2F31%2F1984&_rdoc=1&_orig=article&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=26ab3ca7038dff6b314c88d4b81f04bd

Histochemical detection of hemp trichomes and their correlation with the THC content.  
(abst - 1988)  

A Male-associated DNA Sequence in a Dioecious Plant, Cannabis Sativa L.  
(abst – 1995)  

TEA AS MEDICINE

How to Brew Marijuana Tea  
(news – undated)  
http://www.mahalo.com/how-to-brew-marijuana-tea/

Concentration of Marijuana Metabolites in the Urine After Ingestion of Hemp Seed Tea.  
(abst - 1999)  

TEETH /DENTISTRY

HEMP AS A MEDICAMENT : Therapeutic results in stomatology  
(full - 1955)  
http://www.bushka.cz/KabelikEN/stomatology.html

Emotional response to intravenous delta9tetrahydrocannabinol during oral surgery.  
(abst – 1976)  
http://www.ncbi.nlm.nih.gov/pubmed/1062533

A study of the effect of delta 9-tetrahydrocannabinol (delta 9-THC) on mammalian salivary flow.  
(abst - 1978)  
http://jpet.aspetjournals.org/content/206/3/567.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=2560&resourcetype=HWCIT

TERPINOIDS/ TERPENES - help cannabinoids work better, also see Beta Carophyllene

THC (TETRAHYDROCANNABINOL) ACCUMULATION IN GLANDS OF CANNABIS (CANNABACEAE)  
(full – undated)  
http://www.hempreport.com/issues/17/malbody17.html

The Volatile Oil Composition of Fresh and Air-Dried Buds of Cannabis sativa
THC/ TETRAHYDROCANNABINOL - phytocannabinoid, CB1 & 2 agonist

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

Tetrahydrocannabinol- an interview with Akshat Rathi  (interview - undated)
http://www.rsc.org/chemistryworld/podcast/CIIEcounds/transcripts/THC.asp

STUDIES ON THE PHARMACOLOGY AND ACUTE TOXICITY OF COMPOUNDS WITH MARIHUANA ACTIVITY  (abst - 1946)
http://ijpet.aspetjournals.org/content/88/2/154.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

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

Chemical basis of hashish activity.  (abst - 1970)


Activity of Dgr8- and Dgr9-Tetrahydrocannabininol and Related Compounds in the Mouse (abst - 1971)
http://www.sciencemag.org/cgi/content/abstract/172/3979/165?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=2240&resourcetype=HWCIT

A metabolic interaction in vivo between cannabidiol and Δ1-tetrahydrocannabinol (full - 1972)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1666148/?tool=pubmed

The Report of the National Commission on Marihuana and Drug Abuse
Acute Effects of Marihuana  (full – 1972)
http://www.druglibrary.org/schaffer/library/studies/nc/nc1e.htm

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

Effect of Biogenic Amines and Cannabinoids on Bacterial Chemotaxis  (full - 1973)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC246374/?page=1

Cardiovascular and respiratory effects of cannabis in cat and rat  (full – 1973)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1776461/
Reduction by Δ9-tetrahydrocannabinol in the blood pressure of hypertensive rats bearing regenerated adrenal glands (full – 1973)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1776093/

Tolerance to the hypothermic effects of Δ9-tetrahydrocannabinol as a function of age in the chicken (full – 1973)

(−)δ9 THC as an hypnotic (abst – 1973)
http://link.springer.com/article/10.1007%2FBF00437513#page-1

Effects of marihuana in laboratory animals and in man (full - 1974)

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

Smoked marijuana and oral delta-9-THC on specific airway conductance in asthmatic subjects (full - 1974)
http://www.ukcia.org/research/SmokedAndOralInAsthmatic.php

Acute effects of smoked marijuana and oral delta9-tetrahydrocannabinol on specific airway conductance in asthmatic subjects. (abst - 1974)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=67

Cannabidiol interferes with the effects of Δ9-tetrahydrocannabinol in man (abst – 1974)

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

Interactions in man of delta-9-tetrahydrocannabinol. II. Cannabinol and cannabidiol. (abst – 1975)

Effects of smoked marijuana in experimentally induced asthma. (abst - 1975)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=57

The influence of delta9-tetrahydrocannabinol, cannabinol and cannabidiol on tissue oxygen consumption. (abst – 1975)

Analgesic effect of delta-9-tetrahydrocannabinol. (abst - 1975)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=16

The analgesic properties of delta-9-tetrahydrocannabinol and codeine. (abst - 1975)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=17


Absence of interaction between delta9-tetrahydrocannabinol (delta-THC) and cannabidiol (CBD) in aggression, muscle control and body temperature experiments in mice. (abst – 1975) http://www.ncbi.nlm.nih.gov/pubmed/1171491

Bronchodilator effect of delta1-tetrahydrocannabinol administered by aerosol of asthmatic patients. (full - 1976) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC470501/?tool=pubmed


Delta-9-Tetrahydrocannibinol as an Antiemetic in Cancer Patients Receiving High-Dose Methotrexate (full - 1979) http://www.ukcia.org/research/AntiemeticForMethotrexate.php


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

Sedative activity of cannabis in relation to its delta'-trans-tetrahydrocannabinol and cannabidiol content. (full - 1981) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2071638/?tool=pmcentrez

Activity of cannabis in relation to its delta'-trans-tetrahydro-cannabinol content. (full - 1981) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2071597/?tool=pmcentrez&page=1


Inhibition of Suckling-Induced Milk Ejections in the Lactating Rat by Δ9-Tetrahydrocannabinol (abst – 1987) http://press.endocrine.org/doi/abs/10.1210/endo-123-1-469


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


Delta-9-tetrahydrocannabinol shows antispastic and analgesic effects in a single case double-blind trial.  (abst - 1990)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=10


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

Characterization of the absorption phase of marijuana smoking.  (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

Effects of delta 9-THC on marijuana smoking, dose choice, and verbal report of drug liking.  (full - 1994)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1334408/?tool=pubmed

Interactions between delta 9-tetrahydrocannabinol and kappa opioids in mice.  (abst - 1994)  
http://jpet.aspetjournals.org/content/268/3/1381.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuana&searchid=1&FIRSTINDEX=1840&resourcetype=HWCIT


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?maxtshow=&hits=80&RESULTFORMA T=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=2320&resourcetype=HWCIT


The effect of orally and rectally administered delta-9-tetrahydrocannabinol on spasticity: a pilot study with 2 patients. (abst - 1996)  
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=12

Toxicity and Carcinogenicity of \( \Delta 9 \)-Tetrahydrocannabinol in Fischer Rats and B6C3F1 Mice  (full - 1996)  
http://toxsci.oxfordjournals.org/content/30/1/109.full.pdf+html

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)  

Immonochemical localization of tetrahydrocannabinol (THC) in cryofixed glandular trichomes of Cannabis (Cannabaceae)  (full – 1997)  
http://www.amjbot.org/content/84/3/336.full.pdf+html

http://www.marijuanalibrary.org/NEJM_Foolishness_013097.html

The perceived effects of smoked cannabis on patients with multiple sclerosis.  (abst - 1997)  

Study may undercut marijuana opponents - Report says THC did not cause cancer  (news – 1997)  
http://www.marijuanalibrary.org/Globe.mj_cancer_013097.html

Study: THC Not Cancer-Causing  (news - 1997)  
http://www.ukcia.org/research/cancer.php

Cannabidiol and \((-\Delta 9\)-tetrahydrocannabinol are neuroprotective antioxidants  (full - 1998)  

\( \Delta 9 \)-Tetrahydrocannabinol induces apoptosis in C6 glioma cells  (full – 1998)  

Cerebellar activity and disturbed time sense after THC.  (abst - 1998)  

Treatment of Tourette's Syndrome With Delta-9-Tetrahydrocannabinol  (letter - 1999)  
http://ajp.psychiatryonline.org/article.aspx?articleID=173345

Cannabis and cannabinoids: pharmacology and rationale for clinical use  (abst – 1999)  

Cannabis: Discrimination of "Internal Bliss"?  (abst – 1999)  
THC-HS / TETRAHYDROCANNABINOL-HEMISUCCINATE - synthetic


THCV / TETRAHYDROCANNABIVARIN  phytocannabinoid, CB1 & CB2 antagonist

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

Cannabivarin and Tetrahydrocannabivarin, Two New Constituents of Hashish (abst - 1971) http://www.nature.com/nature/journal/v232/n5312/abs/232579a0.html

TIME PERCEPTION


TOBACCO VS CANNABIS

Tokepure (news – undated) http://ukcia.org/activism/tokepure.php

So, you thought it was the tar that caused cancer... (news - undated) http://www.ukcia.org/research/cancer2.php
Effect of Alcohol and Marihuana on Tobacco Smoking. (abst – 1980)  
[link](http://www.ncbi.nlm.nih.gov/pubmed/7353341)

Spectrophotometric evaluation of carboxyhemoglobin in blood of mice after exposure to marijuana or tobacco smoke in a modified Walton horizontal smoke exposure machine. (abst - 1987)  
[link](http://www.ncbi.nlm.nih.gov/pubmed/3821073)

Marijuana v.s. Tobacco smoke compositions (list - 1988)  
[link](http://www.ukcia.org/research/smoke-contents.php)

Tobacco and marijuana use on offspring growth from birth through 3 years of age. (abst - 1992)  

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

Prenatal tobacco and marijuana use among adolescents: effects on offspring gestational age, growth, and morphology. (abst – 1995)  
[link](http://www.ncbi.nlm.nih.gov/pubmed/7724314)

High anxieties - What the WHO doesn't want you to know about cannabis (news - 1998) (may need registration)  

**TOLERANCE**

Lack of tolerance to 9 -tetrahydrocannabinol in chimpanzees (abst - 1973)  
[link](http://www.ncbi.nlm.nih.gov/pubmed/4705343)

Long-Term Use of Marihuana and the Development of Tolerance or Sensitivity to{\Delta}9Tetrahydrocannabinol (abst - 1974)  
[link](http://archpsyc.ama-assn.org/cgi/content/abstract/31/1/89?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=3040&resourcetype=HWCIT)

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

MARIJUANA AND TOURETTE'S SYNDROME  (letter - 1988)
http://www.druglibrary.org/schaffer/hemp/medical/mjtouret.htm

Nicotine and cannabinoids as adjuncts to neuroleptics in the treatment of Tourette syndrome and other motor disorders.  (abst – 1989)

Effective treatment of Tourette’s syndrome with marijuana.  (abst - 1993)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=255&&search_pattern=INTERACTION

Gilles de la Tourette syndrome, influence of nicotine, alcohol, and marijuana on the clinical symptoms  (abst - 1997)

Cannabinoids: possible role in patho-physiology and therapy of Gilles de la Tourette syndrome.  (abst - 1998)
http://www.cannabis-med.org/studies/ww_en_db_study_show.php?s_id=100

Cannabis in movement disorders.  (abst - 1999)

Treatment of Tourette's Syndrome With Delta-9-Tetrahydrocannabinol  (letter - 1999)

Science: THC in TOURETTE-Syndrome  (news - 1999)
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=58&search_pattern=tourette#1

TUBERCULOSIS

HEMP AS A MEDICAMENT : Importance of hemp seeds in the tuberculosis therapy
(Forum thread- full - 1955)  (EDEZYME recipe)
http://www.bushka.cz/KabelikEN/hempseed.html

VETERINARY USE/ ANIMALS
THE RELATIVE ACTIVITY OF VARIOUS PURIFIED PRODUCTS OBTAINED FROM AMERICAN GROWN HASHISH (abst - 1938)

http://jpet.aspetjournals.org/content/62/2/239.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=640&resourcetype=HWCIT

Cardiovascular and respiratory effects of cannabis in cat and rat (full – 1973)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1776461/

Tolerance to the hypothermic effects of Δ9-tetrahydrocannabinol as a function of age in the chicken (full – 1973)


Pharmacokinetics of cannabidiol in dogs. (abst - 1988)
http://dmd.aspetjournals.org/content/16/3/469.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=800&resourcetype=HWCIT


CONJUGATE DEVIATION OF THE EYES AFTER Cannabis indica INTOXICATION (full - 1964)


Mydriasis induced by tetrahydrocannabinol (THC) in rats (full - 1982)
http://www iovs org/cgi/reprint/22/3/408?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=marihuan a&searchid=1&FIRSTINDEX=640&resourcetype=HWCIT

Ocular Effects of Topical Administration of {Delta}9-Tetrahydrocannabinol in Man (abst - 1982)
http://archopht.ama-assn.org/cgi/reprint/100/2/265?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=2960&resourcetype=HWCIT

Intraocular pressure, ocular toxicity and neurotoxicity after administration of delta 9-tetrahydrocannabinol or cannabichromene. (abst – 1984)


Persistent visual changes following hashish consumption. (full - 1993)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC513962/?page=1


Cannabinoids’ Role In Retinal Function Described  (news - 1999)  http://www.sciencedaily.com/releases/1999/12/991208061213.htm

**WIN 55,212-2** - a synthetic cannabinoid, CB1 & 2 agonist


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


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


Cannabinoids and Neuroprotection in Global and Focal Cerebral Ischemia and in Neuronal Cultures  (full - 1999)  http://www.jneurosci.org/cgi/content/full/19/8/2987?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sorthead=andspec=relevance&resourcetype=HWCIT

WITHDRAWAL SYNDROME

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

Marijuana withdrawal syndrome in a woman. (abst – 1984)  

Merck Manual - Marijuana (Cannabis) (excerpt- 1987)  
http://www.ukcia.org/research/merck.htm

Cannabinoid precipitated withdrawal by the selective cannabinoid receptor antagonist, SR 141716A. (abst – 1995)  

Cannabis dependence, withdrawal, and reinforcing effects among adolescents with conduct symptoms and substance use disorders (abst – 1997)  
Granny Storm Crow's List - July 2014

MINI-DICTIONARY - Sci-Speak to English

Just a few definitions to help you along.

**Acetylcholine** – a common neurotransmitter
**Acute** - sharp or severe in effect; intense
**Adenosine** - a compound that makes you tired
**Adipose tissue** - fat
**Adipocyte** – a fat cell
**Adjunct** – a medication used in conjunction with another to help it work better
**2-AG** - A “messenger chemical” made by your body – similar to THC
**Agonist** – a chemical that activates a receptor
**Allodynia** - pain due to a stimulus which does not normally cause pain, (ie- a light touch)
**Allosteric** - works through a “back door” mechanism, not the usual binding site
**Analgesic** – pain relieving
**Analogue** – a synthetic version
**Anandamide/ AEA** - a “messenger chemical” made by your body – similar to THC
**Angiogenesis** - making new blood vessels, often to feed a tumor
**Anorectic** - Pertaining to anorexia, a lack of appetite
**Antagonist** – a chemical that blocks the action of an agonist
**Antigen** - a substance which causes an immune response
**Anti-nociception** - pain relieving
**Anxiolytic** – calming, anti-anxiety
**Apoptosis** - a process that leads to the normally programed death of a cell.
**Aqueous humor** – the liquid between the colored iris and the clear cornea of your eye
**Ataxia** - lack of muscle coordination during movements like walking, or picking up objects
**Autophagy** – the cell self-destructs, literally “eats itself”
**Autopathic** - relating to the structure and characteristics of a diseased organism. Idiopathic.
Baroreflex – the way your body uses your heart rate to control blood pressure
Beta amyloid plaque / β-amyloid/ Aβ – the stuff that gums up your brain in Alzheimer’s
Biphasic – different results for different doses, THC stops or causes nausea depending on dose
Bronchodilator – opens up the lungs

Cannabinoids – they activate CB receptors and are made in your body, cannabis or labs.
Cannabinomimetic – acting like a cannabinoid
Carcinoma – cancer
Cachexia – severe wasting away due to illness
Caveolae – little caves or pits in the cell membrane that trap fluids
CCK – an intestinal homone that tell you that you are full and satisfied
Central nervous system/CNS - the brain and spinal cord
Chemotaxis – the movement of a cell or bacteria toward, or from a stimulus (food or a poison)
Cholinergics – drugs that inhibit, enhance, or mimic the action of acetylcholine
Chondrocytes – the only kind of cells found in healthy cartilage
Chronic – long term
Cirrhosis – scarring (usually) of the liver, impairing function
Cogeners – related chemicals
Colocalize – to occur together in the same cell.
Cross tolerance – tolerance to a drug causes tolerance to another, similar, drug
Cryofixed - frozen with liquid nitrogen for electron microscopic examination
Cutaneous – pertaining to the skin
Cytotoxic – poisonous to living cells

Demyelinating diseases - diseases in which the myelin on nerves is destroyed, as in MS
Dopamine - a neurotransmitter that helps control the brain’s reward and pleasure centers
Dose-dependent manner – the more they got, the better it worked
Downregulation – a decrease in number
Dysregulation – malfunctioning, out of kilter

Eicosanoids – a group of bioactive compounds that include the endocannabinoids
Emesis - vomiting
Endocannabinoid – a chemical messenger made by your body- anandamide and 2-AG
Endocannabinoid System/ ECS – a system of chemical receptors on and between your cells
Endogenous – made in your own body, opposite of exogeneous
Epidermal – pertaining to the skin
Epigenetic – genes being turned on, or off, by chemical reactions, but with no change to the DNA
Epithelial cells – cells lining of your gut and surfaces of structures throughout the body
Excitotoxic – when nerve cells are damaged or killed by over-stimulation
Exogenous - from outside the body, opposite of endogenous
Extracellular – outside of the cells
FAAH/ Fatty acid amide hydrolase – an enzyme that breaks down anandamide
Follicle - sac or cavity having excretory, secretory, or protective function: a hair follicle,

GABA Glycine- it keeps nerves from firing too often
Ganglia/ ganglion – a bunch of nerves outside the CNS, or some gray matter bits in the brain
Gene expression- the body reads a gene’s info and translates it into a product (protein, etc)
Genotype - all the genetic traits of an organism, both visible and hidden
Glutamate- a compound that many nerves use to “talk to each other”
Gut microbiota - microorganisms that live in the digestive tract

Hemp – Cannabis sativa, usually with a low level of THC
Hemoptysis – coughing up blood
Hematopoiesis – the making of new blood cells in bone marrow
Hemopressin - a hemoglobin fragment that dilates blood vessels using nitric oxide
Hepatic – pertaining to the liver
Heteromer – a group containing 2 or more different types of things.
Hippocampus – part of the brain, controls mood and memory.
Homeostasis - your body keeping everything in balance and working right
Hydrolysis - breaking down a compound using enzymes
Hyper- over, above, extreme
Hyperalgesia – severe pain
Hyperemesis – severe vomiting
Hyperphagic – over-eating
Hyperthermia – a fever
Hyperplasia- an increase in the number of normal cells in a tissue or an organ
Hypo- under, or below
Hypophagic – under-eating
Hypothermia – lowered body temperature
Hypoxia – not getting enough oxygen

Idiopathic- of unknown cause
Indica - short plants, broad leaves, solid buds; “heavy” body high, good pain relief, some CBD
In silico – done on a computer
In vivo – in a live animal
In vitro – in a test tube
Infarction – damage from a lack of blood due to a blood vessel blockage
Intraocular – inside the eye
Intrathecal injection - injected under the arachnoid membrane of the brain or spinal cord
Intrauterine – inside the uterus
Inverse agonist- binds to a receptor like an agonist, but causes the opposite effect
Ischemia – damage from lack of blood to an area
Jejunum - the middle section of the small intestine in most higher animals

Koro - a fear that one’s genitals are retracting and will disappear, “genital retraction syndrome”

Lactating - producing breast milk, nursing
Leptin - a hormone that turns on hunger
Ligand - a chemical that binds to a receptor - THC is a ligand of CB1 and CB2 receptors
Lipids – fats and oils
Lysis - the destruction or decomposition of a cell

Macrophages - specialized cells that attack foreign substances, disease germs and cancer cells
MAGL - an enzyme that breaks down 2-AG
MAPK-JNK signal pathway- the way the receptor’s message gets into the nucleus’ DNA
Metabolites – what’s left over after your body breaks down a compound
Metastasis – spreading through the body
Microphage - a white blood cell capable of ingesting bacteria, etc.
Micro RNA - short, single-stranded RNA molecules that regulate gene expression
Micturation – urination, peeing
Modulate – control or regulate something
Murine - mouse
Mydriasis - a disorder in which the pupil of the eye dilates abnormally, and stays dilated
Myelin – a protective covering on the axion part of a nerve cell
Myocardial – pertaining to the heart muscle
Myopericarditis - Inflammation of the heart wall and the sac around it, the pericardium

Nanomolar – a very tiny amount
Necrotic – dead or dying
Nepro – referring to the kidneys
Neurogenesis – new brain cells are being formed
Neuropathic Pain - pain due to nerve injury
Neuroprotective – protects nerves and brain cells
Neurotransmitter - a chemical messenger that carries messages between neurons and other cells
Neutrophil – the most common type of white blood cell
Nocebo - a harmless substance that creates harmful effects in a patient. Opposite of placebo.
Nociceptive – experiencing pain from a stimulus such as heat or tissue damage
Nociceptor – pain nerve
Nonpsychoactive – won’t get you high
Nonpsychotropic – won’t get you high

Occluded – blocked up, as in an occluded artery
Ocular – referring to the eye
Olfactory – pertaining to smell, odor detection
Oligodendrocytes - cells that make the myelin sheath that protects CNS nerves.
Oromucosal – pertaining to the lining inside of the mouth
Ortholog- the same gene in different species doing the same job, traceable to a common ancestor
Osteoblast – a cell that makes new bone
Osteoclast - cell that eats away and breaks down bone causing bone resorption

Palliative - health care focused on relieving and preventing suffering
Partial agonist- doesn’t activate receptor fully, may “hog” receptors, blocking full agonists
Pathogenesis - the origin and development of a disease
Peptide – string a bunch of peptides together, and you get a protein
Peripheral nervous system (PNS) - the nerves and ganglia outside of the brain and spinal cord
Peritoneal – pertaining to the peritoneum that lines the walls of the abdominal cavity
Phagocyte - a “clean-up crew” cell that “eats” harmful foreign particles, bacteria, and dead cells
Phagocytosis - When a phagocyte “eats” a bacteria or other object by engulfing it
Phenotype- the genetic traits that you can see
Phytocannabinoid – a cannabinoid produced by a plant – THC and CBD are examples
Phyto - referring to plants
Phytochemical – a compound produced by a plant
Polymorphism – having more than one form, different phenotypes in genes
Porcine – pertaining to pigs
Prions – they cause Mad Cow Disease
Pruritus – chronic itchiness
Pulmonary – pertaining to the lungs

Receptors - These receive the chemical messages and send them into our cells.
Refractory pain- pain not responding to the usual treatments, stubborn pain
Renal - pertaining to the kidneys
Reperfusion damage- damage caused when blood returns to an area
Reuptake - reabsorption of a substance by the cells that originally produced it
Rhabdomyolysis - the rapid destruction of skeletal muscle.
RNA - ribonucleic acid, a long, single-stranded chain of cells that processes protein
Ruderalis – small, short-season, autoflowering strains, potency varies

Sativa – tall plant, long skinny leaves, slow maturing; a mental/ party high, occasional paranoia
Sebaceous glands- oil glands in the skin
Seronegative - testing negative for a disease
Seropositive - testing positive for a disease
SiRNA- used to inactivate or “silence” a gene to validate the gene’s function
Substance P- it sends pain info through the spinal cord
Teratologic – causing birth defects
Terpinoids – gives cannabis its odor, may help cannabinoids to enter cells more easily
Thrombocytopenia – a loss of platelets in the blood
Transgenic – genetically modified, a GMO
Trichome – in cannabis, it usually refers to tiny mushroom-shaped structures that hold THC
Trigeminal nerve – responsible for sensation in the face, and biting and chewing

Ubiquitination: The "kiss of death" for proteins. The protein is inactivated by ubiquitin.
Ubiquitin – a regulatory protein that inactivates other proteins
Upregulation – increase in number
Uveitis - infection of the middle layer of the eye involving the iris, ciliary body and/or choroid.

Vascular – referring to blood vessels
Vasodilator – expands the blood vessels
Vasoconstrictor – contracts the blood vessels
Vasopressin – constricts blood vessels and is an anti-diuretic
Visceral - pertaining to internal organs, guts

Xenograft - transplantating living cells, tissues or organs from one species into another