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)
http://www.acnemagazine.com/cannabis-marijuana-being-looked-at-for-acne-clearing-properties/

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)
http://www.truthinaging.com/face/why-cannabis-could-be-an-acne-cure

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 vlPAG 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

Endogenous anandamide and cannabinoid receptor-2 contribute to electroacupuncture analgesia in rats. (abst – 2009) http://www.ncbi.nlm.nih.gov/pubmed/19409856

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)
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=254

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

Cannabis Improves Symptoms of ADHD (full - 2008)
http://www.cannabis-med.org/english/journal/en_2008_01_1.pdf

Cannabis use and adult ADHD symptoms. (abst - 2008)
http://www.ncbi.nlm.nih.gov/pubmed/18242878

Autism, ADD, ADHD and Marijuana Therapy (news - 2008)
http://entheology.com/news-articles/autism-add-adhd-and-marijuana-therapy/

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) http://www.ncbi.nlm.nih.gov/pubmed/19607846

Cannabinoid receptors in brain: pharmacogenetics, neuropharmacology, neurotoxicology, and potential therapeutic applications (abst – 2009)
http://www.ncbi.nlm.nih.gov/pubmed/19897083

Doctors recommend medical marjiuana for minors with ADHD in California (news – 2009)
http://www.nydailynews.com/life-style/health/doctors-recommend-medical-marjiuana-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

ADDICTION *

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)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1446541/pdf/11211630.pdf

Delta9-tetrahydrocannabinol releases and facilitates the effects of endogenous enkephalins: reduction in morphine withdrawal syndrome without change in rewarding effect. (abst – 2001) http://www.ncbi.nlm.nih.gov/pubmed/11359533

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

Does Cannabis Use Predict Poor Outcome for Heroin-dependent Patients on Maintenance Treatment? Past Findings and More Evidence Against. (full – 2003)
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) http://ajp.psychiatryonline.org/article.aspx?articleid=177137

Cannabis Abuse is Not a Risk Factor for Treatment Outcome in Methadone Maintenance Treatment: a 1-year Prospective Study in an Israeli Clinic. (abst – 2004)
http://www.ncbi.nlm.nih.gov/pubmed/14731193

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

Teen Drug Use Has Changed Little Since 1970s : Genetics, environment, nature of drug determine number of new users who become dependent. (news – 2005)
http://www.clinicalpsychiatrynews.com/index.php?id=2407&cHash=071010&tx_ttnews[tt_news]=37073

Confirming alcohol-moderated links between cannabis use and dependence in a national sample (abst – 2006) http://www.sciencedirect.com/science/article/pii/S0306460305002959

Long term marijuana users seeking medical cannabis in California (2001–2007): demographics, social characteristics, patterns of cannabis and other drug use of 4117 applicants (full - 2007) http://www.harmreductionjournal.com/content/4/1/16

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

The fatty acid amide hydrolase C385A (P129T) missense variant in cannabis users: studies of drug use and dependence in Caucasians (abst – 2007)
http://www.ncbi.nlm.nih.gov/pubmed/17290447

Buspirone, Fluoxetine May Counter Cannabis Use (news – 2007)
http://www.clinicalpsychiatrynews.com/index.php?id=2407&cHash=071010&tx_ttnews[tt_news]=37659

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

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

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

When Your Kid Smokes Pot (news – 2008)
http://www.drugwarrant.com/2010/08/dont-send-your-kid-to-treatment/

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)
http://archpedi.jamanetwork.com/article.aspx?articleid=380833

The Surprising Effect Of Marijuana On Morphine Dependence (news - 2009)
http://www.redorbit.com/news/health/1716066/the_surprising_effect_of_marijuana_on_morphine_dependence/

Active Ingredient In Cannabis Eliminates Morphine Dependence In Rats (news - 2009)
http://www.sciencedaily.com/releases/2009/07/090706090440.htm

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

For pot users, visual and audible cues set off cravings (news – 2009)
http://arstechnica.com/science/2009/07/abstinent-marijuana-users-still-have-cravings/

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

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)
http://www.examiner.com/article/cannabis-use-among-teens-is-down-perhaps-not-everyone-got-the-memo

ADOLESCENTS/ YOUNG ADULTS

Variation in youthful risks of progression from alcohol and tobacco to marijuana and to hard drugs across generations. (full – 2001)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1446541/pdf/11211630.pdf

Patterns of use, cannabis beliefs and dependence: study of 159 adolescent users (abst – 2002) http://www.ncbi.nlm.nih.gov/pubmed/12205787

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

Gender and ethnic differences in smoking, drinking and illicit drug use among American 8th, 10th and 12th grade students, 1976-2000. (abst – 2003)
http://www.ncbi.nlm.nih.gov/pubmed/12534428

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

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

Teens in Recovery Drop Drugs but Add Pounds (news – 2005)
http://www.pediatricnews.com/index.php?id=7791&cHash=071010&tx_ttnews[tt_news]=74878

Teen Drug Use Has Changed Little Since 1970s : Genetics, environment, nature of drug determine number of new users who become dependent. (news – 2005)
http://www.clinicalpsychiatrynews.com/index.php?id=2407&cHash=071010&tx_ttnews[tt_news]=37073

A preliminary DTI study showing no brain structural change associated with adolescent cannabis use (full - 2006)
http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=16684342

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)
http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1351917&tool=pmcentrez

Moderation of the Effect of Adolescent-Onset Cannabis Use on Adult Psychosis by a Functional Polymorphism in the Catechol-O-Methyltransferase Gene: Longitudinal Evidence of a Gene X Environment Interaction (full – 2006)
http://www.ukcia.org/research/COMTgene.pdf

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

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/

No 'Smoking' Gun: Research Indicates Teen Marijuana Use Does Not Predict Drug, Alcohol Abuse (news - 2006) http://www.sciencedaily.com/releases/2006/12/061204123422.htm

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

Illicit Drug Use in Young Adults and Subsequent Decline in General Health: The Coronary Artery Risk Development in Young Adults (CARDIA) Study (full - 2007)

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1885466/?tool=pmcentrez

No evidence for an involvement of variants in the cannabinoid receptor gene (CNR1) in obesity in German children and adolescents. (abst – 2007)
http://www.ncbi.nlm.nih.gov/pubmed/17292652

Topical adelmidrol 2% emulsion, a novel aliamide, in the treatment of mild atopic dermatitis in pediatric subjects: a pilot study (abst – 2007)
http://www.ncbi.nlm.nih.gov/pubmed/17631786

Teens who use only cannabis appear to function better than those who also use tobacco (news - 2007) http://www.news-medical.net/news/2007/11/06/32262.aspx

Teens Who Smoke Marijuana But Not Tobacco Are Different From Other Teen Groups (news - 2007) http://www.sciencedaily.com/releases/2007/11/071105164453.htm

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

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

Marijuana Use by Young People: The Impact of State Medical Marijuana Laws (full - 2008) http://www.ukcia.org/research/ImpactOfStateMMJLaws.pdf

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

Understanding the association between adolescent marijuana use and later serious drug use: gateway effect or developmental trajectory? (abst – 2008)
http://www.ncbi.nlm.nih.gov/pubmed/18423097

Characteristics of Adolescents Who Use Cannabis But Not Tobacco (news - 2008)
http://forum.grasscity.com/general/884305-characteristics-adolescents-who-use-cannabis-but-not-tobacco.html

When Your Kid Smokes Pot (news – 2008)
http://www.drugwarrant.com/2010/08/dont-send-your-kid-to-treatment/

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

White Matter Integrity in Adolescents with Histories of Marijuana Use and Binge Drinking. (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2762024/

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http://archpedi.jamanetwork.com/article.aspx?articleid=380833

Cannabis and tobacco use: where are the boundaries? A qualitative study on cannabis consumption modes among adolescents. (full - 2009)
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Relief-oriented use of marijuana by teens (full - 2009)
http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2683812&tool=pmcentrez

Cannabis use and deliberate self-harm in adolescence: a comparative analysis of associations in England and Norway. (abst - 2009)
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Cannabis use and destructive periodontal diseases among adolescents (abst - 2009)
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Is moderate substance use associated with altered executive functioning in a population-based sample of young adults? (abst - 2009)
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Long-term consequences of URB597 administration during adolescence on cannabinoid CB1 receptor binding in brain areas. (abst – 2009)
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Prescribing marijuana to kids (news – 2009)
http://theweek.com/article/index/103325/prescribing-marijuana-to-kids

Herbal Remedy: Teens Often Use Cannabis For Relief, Not Recreation, Study Finds (news - 2009) http://www.sciencedaily.com/releases/2009/04/090422191724.htm

Cannabis use among teens is down - perhaps not everyone got the memo (news - 2009)
http://www.examiner.com/article/cannabis-use-among-teens-is-down-perhaps-not-everyone-got-the-memo

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 nitrative stress, inflammatory gene expression, and apoptosis in mice lacking fatty acid amide hydrolase.
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Anorexia of aging in long term care: is dronabinol an effective appetite stimulant?--a pilot study. (abst – 2007) http://www.ncbi.nlm.nih.gov/pubmed/17435963

Inflammation and aging: can endocannabinoids help? (full - 2008)
http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2408719&tool=pmcentrez

Cannabinoid receptor stimulation is anti-inflammatory and improves memory in old rats
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Cannabinoids Attenuate the Effects of Aging Upon Neuroinflammation and Neurogenesis. (abst - 2008) http://www.ncbi.nlm.nih.gov/pubmed/19385063

Gender-dependent increases with healthy aging of the human cerebral cannabinoid-type 1 receptor binding using [(18)F]MK-9470 PET. (abst – 2008)
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CN BC: Expert Testifies Cannabis Helps Slow Aging (news - 2008)
http://www.mapinc.org/drugnews/v08/n458/a05.html

Could Marijuana Substance Help Prevent Or Delay Memory Impairment In The Aging Brain? (news - 2008) http://www.sciencedaily.com/releases/2008/11/081119120141.htm

Marijuana may be good for the aging brain (news - 2008)
http://www.news-medical.net/news/2008/11/19/43212.aspx

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

Variation in youthful risks of progression from alcohol and tobacco to marijuana and to hard drugs across generations. (full – 2001)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1446541/pdf/11211630.pdf

Alcohol and marijuana: effects on epilepsy and use by patients with epilepsy. (abst – 2001) http://www.ncbi.nlm.nih.gov/pubmed/11737161

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Prevalence of drug use in commercial tractor-trailer drivers. (abst – 2002)
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Cannabis as a Substitute for Alcohol (full - 2003)
http://www.doctordeluca.com/Library/AbstinenceHR/CannabisSubstituteAlcohol03.htm

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Endocannabinoid signaling via cannabinoid receptor 1 is involved in ethanol preference and its age-dependent decline in mice (full - 2003)
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Cannabinoid Cb1 Receptor Knockout Mice Exhibit Markedly Reduced Voluntary Alcohol Consumption and Lack Alcohol-induced Dopamine Release in the Nucleus Accumbens. (abst – 2003) http://www.ncbi.nlm.nih.gov/pubmed/12562514

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Ethanol Induces Higher Bec in Cb1 Cannabinoid Receptor Knockout Mice While Decreasing Ethanol Preference. (full – 2005)
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Alcohol Consumption Moderates the Link Between Cannabis Use and Cannabis Dependence in an Internet Survey. (abst – 2005)
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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)
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SR147778, a CB1 cannabinoid receptor antagonist, suppresses ethanol preference in chronically alcoholized Wistar rats (abst – 2006)
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Confirming alcohol-moderated links between cannabis use and dependence in a national sample (abst – 2006) http://www.sciencedirect.com/science/article/pii/S0306460305002959

The endocannabinoid signaling system: a potential target for next-generation therapeutics for alcoholism (full - 2007) http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1975858

Involvement of cannabinoid CB2 receptor in alcohol preference in mice and alcoholism in humans (abst – 2007) http://www.ncbi.nlm.nih.gov/pubmed/17189959

Effects of different substance misuse in genital reflexes of paradoxical sleep deprived male rats. (abst – 2007) http://www.ncbi.nlm.nih.gov/pubmed/17518911

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White Matter Integrity in Adolescents with Histories of Marijuana Use and Binge Drinking. (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2762024/

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Magnolia officinalis reverses alcoholic fatty liver by inhibiting the maturation of sterol regulatory element-binding protein-1c. (full – 2009)
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Daily marijuana users with past alcohol problems increase alcohol consumption during marijuana abstinence. (abst - 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)
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Maternal Marijuana use not Associated with Psychotic Symptoms , but Alcohol is (news - 2009)
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CANCER – CHOLANGIOCARCINOMA

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CANCER – COLON /COLORECTAL

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CANCER - ENDOMETRIAL

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Medical Marijuana and Cancer, Uterine (news – 2009)
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CANCER – EWING TUMORS - also see CANCER – PNET

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CANCER – GASTRIC *

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Granny Storm Crow's List - January 2015

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Expression of cannabinoid receptors type 1 and type 2 in non-Hodgkin lymphoma: growth inhibition by receptor activation. (full – 2008)
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Heterogeneity in the mechanisms of vasorelaxation to anandamide in resistance and conduit rat mesenteric arteries (full – 2004)
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Virodhamine relaxes the human pulmonary artery through the endothelial cannabinoid receptor and indirectly through a COX product. (full – 2008)
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CBR –GPR-18 CANNABINOID RECEPTOR - activated by Abnormal CBD, NAGly, O-1602, THC, Anandamide

Identification of N-arachidonylglycine as the endogenous ligand for orphan G-protein-coupled receptor GPR18. (abst – 2006) http://www.ncbi.nlm.nih.gov/pubmed/16844083/

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

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Selective small-molecule agonists of G protein-coupled receptor 40 promote glucose-dependent insulin secretion and reduce blood glucose in mice. (full – 2008)
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Overexpression of GPR40 in pancreatic beta-cells augments glucose-stimulated insulin secretion and improves glucose tolerance in normal and diabetic mice. (full – 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2671040/?tool=pubmed

Acute administration of GPR40 receptor agonist potentiates glucose-stimulated insulin secretion in vivo in the rat. (abst – 2009) http://www.ncbi.nlm.nih.gov/pubmed/19217448

CBR - GPR55/ CB3 CANNABINOID RECEPTOR *

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

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GPR55 and the vascular receptors for cannabinoids. (full – 2007)
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The novel endocannabinoid receptor GPR55 is activated by atypical cannabinoids but does not mediate their vasodilator effects. (full - 2007)
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CB1 receptors mediate the analgesic effects of cannabinoids on colorectal distension-induced visceral pain in rodents. (full – 2007)
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Receptors for acylethanolamides-GPR55 and GPR119. (full – 2009)
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The GPR55 ligand L-alpha-lysophosphatidylinositol promotes RhoA-dependent Ca2+ signaling and NFAT activation. (full – 2009) http://www.fasebj.org/content/23/1/183.long

Atypical responsiveness of the orphan receptor GPR55 to cannabinoid ligands. (full - 2009)
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CBR - GPR119 CANNABINOID RECEPTOR - activated by PEA, OEA

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GPR119 is essential for oleoylethanolamide-induced glucagon-like peptide-1 secretion from the intestinal enteroendocrine L-cell. (full – 2009)
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CBR - GPR158 CANNABINOID RECEPTOR

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http://www.news-medical.net/health/Phytocannabinoids.aspx

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

Nutrition for Moms-to-be! (article - undated)
http://manitobaharvest.com/articles_studies/3812/Hemp-Packs-in-Powerful-Source-of-Preconception-Nutrition.html

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Effect of maternal under-nutrition on pup body weight and hypothalamic endocannabinoid levels. (abst – 2003) http://www.ncbi.nlm.nih.gov/pubmed/12678501

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http://news.bbc.co.uk/2/hi/health/4631006.stm

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http://ajpregu.physiology.org/content/292/3/R1198.long

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Endocannabinoids in the retina: from marijuana to neuroprotection. (full - 2008)
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Influence of dietary fatty acids on endocannabinoid and N-acylethanolamine levels in rat brain, liver and small intestine. (abst – 2008)
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Endocannabinoids in the retina: from marijuana to neuroprotection. (full - 2008)
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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/

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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

Administration of Endocannabinoids Prevents a Referred Hyperalgesia Associated With Inflammation of the Urinary Bladder (full – 2001)
http://anesthesiology.pubs.asahq.org/article.aspx?articleid=1945092&resultClick=3

Anandamide degradation and N-acylethanolamines level in wild-type and CB1 cannabinoid receptor knockout mice of different ages (full – 2001)
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(full – 2003) http://molehr.oxfordjournals.org/content/9/7/381.full

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Minocycline treatment inhibits microglial activation and alters spinal levels of endocannabinoids in a rat model of neuropathic pain (full – 2009)
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N-acylethanolamines, anandamide and food intake. (abst – 2009)
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Characterization of a novel endocannabinoid, virodhamine, with antagonist activity at the CB1 receptor. (full – 2002) http://jpet.aspetjournals.org/content/301/3/1020.long

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Role of the endocannabinoid system in the development of tolerance to alcohol (full – 2005) http://alcalc.oxfordjournals.org/content/40/1/15.long

Fatty acid amidohydrolase in human neocortex-activity in epileptic and non-epileptic brain tissue and inhibition by putative endocannabinoids. (abst – 2005)
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Binding affinity and agonist activity of putative endogenous cannabinoids at the human neocortical CB1 receptor (abst – 2005) http://www.ncbi.nlm.nih.gov/pubmed/15588725

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Inhibition of human neutrophil chemotaxis by endogenous cannabinoids and phytocannabinoids: evidence for a site distinct from CB1 and CB2. (full – 2008)
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Unconventional neurotransmitters, neurodegeneration and neuroprotection (full – 2009)
http://www.scielo.br/scielo.php?script=sci_arttext&pid=S0100-879X2009000100011&lng=en&nrm=iso

Granny Storm Crow's List - January 2015

ENDOCANNABINOID SYSTEM GENETICS

2000 to 2009

ATT / (ATT)n GENES

(AAT)n repeat in the cannabinoid receptor gene (CNR1): association with cocaine addiction in an African-Caribbean population (full – 2006)
http://www.nature.com/tpj/journal/v6/n2/full/6500352a.html

Lack of association of genetic variants in genes of the endocannabinoid system with anorexia nervosa (full - 2008) http://www.capmh.com/content/2/1/33

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

Cannabinoid receptor 1 gene (CNR1) and susceptibility to a quantitative phenotype for hebephrenic schizophrenia. (abst – 2008)
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CB 1 GENES

Association study of a cannabinoid receptor gene (CNR1) polymorphism and schizophrenia. (abst – 2000) http://www.ncbi.nlm.nih.gov/pubmed/11204352

Association of a CB1 cannabinoid receptor gene (CNR1) polymorphism with severe alcohol dependence. (abst – 2002) http://www.ncbi.nlm.nih.gov/pubmed/11841893

Marijuana receptor gene abnormality in schizophrenia (news – 2002)
http://www.eurekalert.org/pub_releases/2002-07/mp-mrg061802.php

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

Human cannabinoid receptor 1: 5' exons, candidate regulatory regions, polymorphisms, haplotypes and association with polysubstance abuse. (full – 2004)
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Depression in Parkinson's disease is related to a genetic polymorphism of the cannabinoid receptor gene (CNR1) (full - 2005)
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Moderation of the Effect of Adolescent-Onset Cannabis Use on Adult Psychosis by a Functional Polymorphism in the Catechol-O-Methyltransferase Gene: Longitudinal Evidence of a Gene X Environment Interaction (full – 2006)
http://www.ukcia.org/research/COMTgene.pdf

Genetic variations at the endocannabinoid type 1 receptor gene (CNR1) are associated with obesity phenotypes in men. (full – 2007)
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No evidence for an involvement of variants in the cannabinoid receptor gene (CNR1) in obesity in German children and adolescents. (abst – 2007)
http://www.ncbi.nlm.nih.gov/pubmed/17292652

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

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http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2873690/

Cannabinoid type-1 receptor gene polymorphisms are associated with central obesity in a Southern Brazilian population. (link to PDF – 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3827795/

Cannabinoid receptor 1 (CNR1) gene: impact on antidepressant treatment response and emotion processing in major depression. (abst – 2008)
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Altered pattern of cannabinoid type 1 receptor expression in adipose tissue of dysmetabolic and overweight patients (abst – 2009)
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The use and misuse of alcohol and marijuana can be traced to a common set of genes (news – 2009) http://www.eurekalert.org/pub_releases/2009-12/ace-tua121209.php

Cannabis and smoking gene links to schizophrenia 'unfounded' (news – 2009)
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Reduced endocannabinoid immune modulation by a common cannabinoid 2 (CB2) receptor gene polymorphism: possible risk for autoimmune disorders. (full – 2005)
http://www.jleukbio.org/content/78/1/231.long

Cannabinoid receptor type 2 gene is associated with human osteoporosis (full - 2005)
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The cannabinoid receptor type 2 (CNR2) gene is associated with hand bone strength phenotypes in an ethnically homogeneous family sample. (abst - 2009)
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FAAH GENES - RS324420 / C385A , RS324419 , etc

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

GENERIC NAME: NABILONE - ORAL (NAB-ih-lone)
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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 adiseased 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 – tolerence 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
Follicule - 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
Nephro – 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