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Enhancing the Activity of Cannabidiol and Other Cannabinoids In Vitro Through Modifications to Drug Combinations and Treatment Schedules. (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/24123005


Cannabidiol inhibits paclitaxel-induced neuropathic pain through 5-HT1A receptors without diminishing nervous system function or chemotherapy efficacy. (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/24117398


Cannabidiol reverses the mCPP-induced increase in marble-burying behavior. (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/24118015

Transdermal delivery of cannabidiol attenuates binge alcohol-induced neurodegeneration in a rodent model of an alcohol use disorder. (abst – 2013)
The role of 5-HT1A receptors in the anti-aversive effects of cannabidiol on panic attack-like behaviors evoked in the presence of the wild snake Epicrates cenchria crassus (Reptilia, Boidae). (abst – 2013)  

Cannabidiol Normalizes Capase 3, Synatophsin, and Mitochondrial Fission Protein DNM1L Expression Levels in Rats with Brain Iron Overload: Implications for Neuroprotection (abst – 2013)  

Interleukin 17A evoked mucosal damage is attenuated by cannabidiol and anandamide in a human colonic explant model. (abst – 2013)  

Cannabidiol Promotes Amyloid Precursor Protein Ubiquitination and Reduction of Beta Amyloid Expression in SHSY5YAPP+ Cells Through PPARγ Involvement. (abst – 2013)  

Increase of mesenchymal stem cell migration by Cannabidiol via activation of p42/44 MAPK. (abst – 2013)  

Advances in the management of multiple sclerosis spasticity: experiences from recent studies and everyday clinical practice. (abst – 2013)  

Effects of intra-prelimbic prefrontal cortex injection of cannabidiol on anxiety-like behavior: Involvement of 5HT1A receptors and previous stressful experience. (abst – 2013)  

Cannabidiol as a potential treatment for psychosis. (abst – 2013)  

The effects of cannabidiol and its synergism with bortezomib in multiple myeloma cell lines. A role for transient receptor potential vanilloid type-2  (abst – 2013)  

A Multiple-Dose, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group QT/QTc Study to Evaluate the Electrophysiologic Effects of THC/CBD Spray (abst – 2013)  

LCMS Spectral Evidence of the Occurrence of Cannabinoid in Cannabis sativa Cell Cultures (abst – 2013)  

Inhibition of colon carcinogenesis by a standardized Cannabis sativa extract with high content of cannabidiol. (abst – 2013)  


Toronto family hopes for access to controversial treatment to cure baby’s rare epilepsy  (news – 2013)  http://globalnews.ca/news/714104/toronto-family-hopes-for-access-to-controversial-treatment-to-cure-babys-rare-epilepsy/


Comes Now Epidiolex (FDA approves IND studies of CBD)  (news – 2013)  


Pharmaceuticals Provides Update on Orphan Program in Childhood Epilepsy for Epidiolex®  (news – 2013)  

Cannabis-Based Epilepsy Drug Approved For Clinical Trials  (news – 2013)  

OBTAINING EPIDIOLEX™ IN THE U.S.  (news – 2013)  
http://www.dravetfoundation.org/dravet-syndrome/consider-dravet/obtaining-epidiolex

Can Marijuana Help You Quit Cigarettes? Study Says Yes  (news – 2013)  
http://www.leafscience.com/2013/11/01/can-marijuana-help-quit-cigarettes-study-says-yes/


Study shows non-hallucinogenic cannabinoids are effective anti-cancer drugs  (news – 2013)  

New Study Proves Cannabinoids Have Cancer Fighting Properties  (news – 2013)  
http://www.opposingviews.com/i/society/drug-law/new-study-proves-cannabinoids-have-cancer-fighting-properties

Marijuana Extract Holds Promise as Diabetes Treatment  (news – 2013)  

Δ(9)-THC and N-arachidonoyl glycine regulate BV-2 microglial morphology and cytokine release plasticity: implications for signaling at GPR18.  (full - 2014)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3877838/

Cannabinoids for treatment of Alzheimer's disease: moving toward the clinic.  (full – 2014)  

Who Benefits Most from THC:CBD Spray? Learning from Clinical Experience.  (full – 2014)  
http://www.karger.com/Article/FullText/357743

THC:CBD Spray and MS Spasticity Symptoms: Data from Latest Studies.  (full – 2014)  
http://www.karger.com/Article/FullText/357742

Cannabidiol exerts sebostatic and antiinflammatory effects on human sebocytes.
Effects of cannabinoid drugs on the deficit of prepulse inhibition of startle in an animal model of schizophrenia: the SHR strain. (full – 2014)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3915876/

Cyclosporine and Herbal Supplement Interactions (full – 2014)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3913293/

Vascular targets for cannabinoids: animal and human studies. (full – 2014)

Cannabidiol: Pharmacology and potential therapeutic role in epilepsy and other neuropsychiatric disorders (full – 2014)

Cannabinoid-induced autophagy regulates suppressor of cytokine signaling (SOCS)-3 in intestinal epithelium. (full – 2014) http://ajpgi.physiology.org/content/307/2/G140

Cannabinoids as therapeutic agents in cancer: current status and future implications. (link to PDF - 2014)


Physiological intestinal oxygen modulates the Caco-2 cell model and increases sensitivity to the phytocannabinoid cannabidiol. (abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/24464350

Cannabidiol protects liver from binge alcohol-induced steatosis by mechanisms including inhibition of oxidative stress and increase in autophagy (abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/24398069


Delta-9-Tetrahydrocannabinol/Cannabidiol (Sativex®): A Review of Its Use in Patients with Moderate to Severe Spasticity Due to Multiple Sclerosis. (abst – 2014)
The detection of THC, CBD and CBN in the oral fluid of Sativex® patients using two on-site screening tests and LC-MS/MS. (abst – 2014)  

Therapeutic Satisfaction and Subjective Effects of Different Strains of Pharmaceutical-Grade Cannabis. (abst – 2014)  

Cannabidiol protects liver from binge alcohol-induced steatosis by mechanisms including inhibition of oxidative stress and increase in autophagy (abst – 2014)  

Intrahypothalamic injection of cannabidiol increases the extracellular levels of adenosine in nucleus accumbens in rats. (abst – 2014)  

Potential effects of cannabidiol as a wake-promoting agent. (abst – 2014)  

Cannabidiol can improve complex sleep-related behaviours associated with rapid eye movement sleep behaviour disorder in Parkinson's disease patients: a case series. (abst – 2014)  

Cannabidiol: Pharmacology and potential therapeutic role in epilepsy and other neuropsychiatric disorders. (abst – 2014)  

The case for assessing cannabidiol in epilepsy. (abst – 2014)  

The case for medical marijuana in epilepsy. (abst – 2014)  

Targeting multiple cannabinoid antitumor pathways with a resorcinol derivative leads to inhibition of advanced stages of breast cancer. (abst – 2014)  

Cannabinoids inhibit angiogenic capacities of Endothelial cells via release of Tissue inhibitor of matrix metalloproteinases-1 from lung cancer cells. (abst – 2014)  

The non-psychotropic plant cannabinoids, cannabidivarin (CBDV) and cannabidiol (CBD), activate and desensitize transient receptor potential vanilloid 1 (TRPV1) channels in vitro: potential for the treatment of neuronal hyperexcitability. (abst – 2014)  
The therapeutic efficacy of cannabinoid receptor type 1 ligands in Huntington's disease may depend on their functional selectivity (abst – 2014)
http://www.fasebj.org/content/28/1_Supplement/846.6.abstract?sid=467bb529-0ecc-4ddc-af27-3f56f520a102

The effect of CBD, CBG and a combination of CBD plus CBG on Haccat human skin carcinoma cells (abst – 2014)
http://www.fasebj.org/content/28/1_Supplement/1048.19.abstract?sid=db987fd0-3ef0-4796-aff6-4103f0c84daf

CANNABINOIDS INCREASE LUNG CANCER CELL LYSIS BY LYMPHOKINE-ACTIVATED KILLER CELLS VIA UPREGULATION OF ICAM-1.


Non-psychoactive CBD oil made from marijuana plants poised to be game-changer (news - 2014)

This Family Had To Fire Their Doctor To Get Medical Marijuana For Their Son (news – 2014)
http://www.huffingtonpost.com/2014/03/25/epilepsy-medical-marijuana_n_5022008.html

Retired Flint couple sees the light on medical marijuana (news – 2014)

New Study: Cannabis May Protect Liver From Alcohol Related Damage (news – 2014)

Marijuana tested as treatment for children with epilepsy (news – 2014)


http://www.medicaljane.com/2014/05/14/thc-cbd-and-more-the-entourage-effect-of-whole-plant-cannabis-medicine/
CBDA/ CANNABIDIOLIC ACID * - precursor to Cannabidiol

Cannabidiolic-acid synthase, the chemotype-determining enzyme in the fiber-type Cannabis sativa  
(http://www.sciencedirect.com/science/article/pii/S0014579307005728)

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

Plant-derived cannabinoids modulate the activity of transient receptor potential channels of ankyrin type-1 and melastatin type-8.  
(http://jpet.aspetjournals.org/content/325/3/1007.long)

Medicinal Acidic Cannabinoids US Patent 7807711B2  
(http://www.cannabisinternational.org/info/Medicinal-Acidic-Cannabinoids.pdf)

Cannabis as a Unique Functional Food  
(http://apothecary-genetics.spruz.com/gfile/75r4!-!HLKELE!-!svyr5/cannabis_as_a_unique_functional_food.pdf)

Effects of cannabinoids and cannabinoid-enriched Cannabis extracts on TRP channels and endocannabinoid metabolic enzymes.  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165957/pdf/bph0163-1479.pdf)

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

The effects of cannabidiolic acid and cannabidiol on contractility of the gastrointestinal tract of Suncus murinus.  

Cannabidiol May Fight Alzheimer's Disease  

Cannabidiol acid prevents vomiting in Suncus murinus and nausea-induced behaviour in rats by enhancing 5-HT(1A) receptor activation.  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3596650/)
Cannabidiolic acid, a major cannabinoid in fiber-type cannabis, is an inhibitor of MDA-MB-231 breast cancer cell migration. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4009504/


Effect of low doses of cannabidiolic acid and ondansetron on LiCl-induced conditioned gaping (a model of nausea-induced behaviour) in rats. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3682714/

Medicinal chemistry and pharmacology focused on cannabidiol, a major component of the fiber-type cannabis. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/24088353

Suppression of lithium chloride-induced conditioned gaping (a model of nausea-induced behaviour) in rats (using the taste reactivity test) with metoclopramide is enhanced by cannabidiolic acid. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/24012649


CBDV/ CANNABIDIVARIN – unknown receptor

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


Use of the phytocannabinoid cannabidivarin (cbdv) in the treatment of epilepsy - Patent Applicaton #: #20120004251 (full – 2012)
http://www.freshpatents.com/-dt20120105ptan20120004251.php

Phytocannabinoids as novel therapeutic agents in CNS disorders. (abst – 2012)

Science/UK: Antiepileptic efficacy of cannabidivarin will be tested in clinical studies (news – 2012)

Cannabidivarin (CBDV) suppresses pentylenetetrazole (PTZ)-induced increases in epilepsy-related gene expression. (full – 2013)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3840466/


Evaluation of the potential of the phytocannabinoids, cannabidivarin (CBDV) and Δ9-tetrahydrocannabivarin (THCV), to produce CB1 receptor inverse agonism symptoms of nausea in rats. (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23902479

Cannabidivarin-rich cannabis extracts are anticonvulsant in mouse and rat via a CB1 receptor-independent mechanism. (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23902406

Cannabis Anti-Convulsant Shakes up Epilepsy Treatment (news – 2013)
http://www.thecompassionchronicles.com/2013/01/26/cannabis-anti-convulsant-shakes-up-epilepsy-treatment/

New cannabis discovery could lead to better treatments for epilepsy (news – 2013)
http://www.reading.ac.uk/news-and-events/releases/PR464765.aspx

New Study: Cannabinoids Protect the Brain and Heart From Injury (news – 2013)
http://www.science20.com/news_articles/thc_can_prevent_brain_damage_study-113512

Cannabidiol: Pharmacology and potential therapeutic role in epilepsy and other neuropsychiatric disorders (full – 2014)

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CBG/ CANNABIGEROL * - CB2 agonist

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

Cannabinoids in clinical practice. (abst - 2000)

Antibacterial cannabinoids from Cannabis sativa: a structure-activity study. (full - 2008)

Plant-derived cannabinoids modulate the activity of transient receptor potential channels of ankyrin type-1 and melastatin type-8. (full - 2008)
http://jpet.aspetjournals.org/content/325/3/1007.long

Cytotoxic and NF-κB-modulating effects of cannabis constituents (abst – 2008)

Patent application title: THERAPEUTIC USES OF CANNABIGEROL (full - 2010)
http://www.faqs.org/patents/app/20100292345

Evidence that the plant cannabinoid cannabigerol is a highly potent alpha2-adrenoceptor agonist and moderately potent 5HT1A receptor antagonist. (full - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2823359/?tool=pubmed

Antidepressant-like effect of Delta(9)-tetrahydrocannabinol and other cannabinoids isolated from Cannabis sativa L. (full - 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2866040/?tool=pubmed


Assessment of the Genetic Stability of Micropropagated Plants of Cannabis sativa by ISSR Markers (abst – 2010)

Evaluation of the Cyclooxygenase Inhibiting Effects of Six Major Cannabinoids Isolated from Cannabis sativa (full – 2011)
https://www.jstage.jst.go.jp/article/bpb/34/5/34_5_774/_pdf

Effects of cannabinoids and cannabinoid-enriched Cannabis extracts on TRP channels and endocannabinoid metabolic enzymes. (full – 2011)


Plasma and brain pharmacokinetic profile of cannabidiol (CBD), cannabidivarine (CBDV), Δ(9)-tetrahydrocannabivarin (THCV) and cannabigerol (CBG) in rats and mice following oral and intraperitoneal administration and CBD action on obsessive-compulsive behaviour. (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/21796370


5 Marijuana Compounds That Could Help Combat Cancer, Alzheimers, Parkinsons (If Only They Were Legal) (news – 2012) http://www.alternet.org/drugs/5-marijuana-compounds-could-help-combat-cancer-alzheimers-parkinsons-if-only-they-were-legal


The effect of CBG (BDS) botanical cannabinoid extract on MCF-7 human breast carcinoma cells (abst – 2013) http://www.fasebj.org/cgi/content/MeetingAbstract/27/1_MeetingAbstracts/1105.21?sid=eea722c0-971c-4dab-8b8c-38c0e63c19ad


Study shows non-hallucinogenic cannabinoids are effective anti-cancer drugs

Terpenes May Improve Effectiveness Of Medical Marijuana   (news – 2013)

New Study Proves Cannabinoids Have Cancer Fighting Properties   (news – 2013)
http://www.opposingviews.com/i/society/drug-law/new-study-proves-cannabinoids-have-cancer-fighting-properties


The effect of CBD, CBG and a combination of CBD plus CBG on Haccat human skin carcinoma cells   (abst – 2014)
http://www.fasebj.org/content/28/1_Supplement/1048.19.abstract?sid=db987fd0-3ef0-4796-aff6-4103f0c84daf

CBGA / CANNABIGEROLIC ACID - precursor of cannabigerol


Affinity comparison of different THCA synthase to CBGA using modeling computational approaches   (full – 2014)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3916817/

CBN/ CANNABINOL - CB2 agonist, weak CB1 agonist

Pharmacokinetics and metabolism of the plant cannabinoids, delta9-tetrahydrocannabinol, cannabidiol and cannabionol.   (abst – 2005)

Cytotoxic and NF-κB-modulating effects of cannabis constituents    (abst – 2008)

Characterization of major phytocannabinoids, cannabidiol and cannabinol, as isoform-selective and potent inhibitors of human CYP1 enzymes. (abst – 2010)  

Assessment of the Genetic Stability of Micropropigated Plants of Cannabis sativa by ISSR Markers (abst – 2010)  

Cannabinol and cannabidiol exert opposing effects on rat feeding patterns. (abst – 2012)  

Analysis of cannabinoids in laser-microdissected trichomes of medicinal Cannabis sativa using LCMS and cryogenic NMR. (abst – 2012)  

5 Marijuana Compounds That Could Help Combat Cancer, Alzheimers, Parkinsons (If Only They Were Legal) (news – 2012)  
http://www.alternet.org/drugs/5-marijuana-compounds-could-help-combat-cancer-alzheimers-parkinsons-if-only-they-were-legal

Transdermal delivery of cannabidiol Patent 8435556 (full – 2013)  
https://www.google.com/patents/US8435556

Exogenous cannabinoids as substrates, inhibitors, and inducers of human drug metabolizing enzymes: a systematic review. (abst – 2013)  

LCMS Spectral Evidence of the Occurrence of Cannabinoid in Cannabis sativa Cell Cultures (abst – 2013)  

Neuritogenic Effects of Cannabinoids with Nerve Growth Factor (NGF) on PC12 Cells (abst – 2013)  

Cannabidiol: Pharmacology and potential therapeutic role in epilepsy and other neuropsychiatric disorders (full – 2014)  

Hair analysis for THCA-A, THC and CBN after passive in vivo exposure to marijuana smoke. (full – 2014)  

Cannabinoids as therapeutic agents in cancer: current status and future implications. (link to PDF - 2014)  

The detection of THC, CBD and CBN in the oral fluid of Sativex® patients using two on-site screening tests and LC-MS/MS. (abst – 2014)  
C28H34N2O6 - a secondary metabolite of THC


CHOCOLATE * - contains a tiny amount of Anandamide and compounds that block its breakdown


Desiring Chocolate (article – 2009) http://chocolatebook.info/consumption/desiring-chocolate/


Your Brain On Chocolate: Marijuana-Like Chemicals Explain Why We Crave It (news – 2013)

Marijuana Is Less Addictive Than Chocolate (news - 2014)
http://business-news.thestreet.com/philly/story/marijuana-less-addictive-chocolate/1

**ECHINACEA** - contains CB 2 agonists and inverse agonists


Alkylamides from *Echinacea* Are a New Class of Cannabinomimetics (full – 2006) http://www.jbc.org/content/281/20/14192.full


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

**ENTOURAGE EFFECT – PHYTOCANNABINOIDS**

Advantages of polypharmaceutical herbal cannabis compared to single ingredient, synthetic tetrahydrocannabinol (full - 2000)
http://cannabismovement.org/docs/cannabis%20terpenes.pdf

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

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

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


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

'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

Taming THC: potential cannabis synergy and phytocannabinoid-terpenoid entourage effects. (full - 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165946/

Terpenoids, ‘minor’ cannabinoids contribute to ‘entourage effect’ of cannabis-based medicines (news – 2011)

Cannabis entourage effect (news – 2011) http://www.westcoastleaf.net/?p=3711


THC, CBD And More: The Entourage Effect Of Whole-Plant Cannabis Medicine
Medical marijuana and 'the entourage effect' (news – 2014)

**EPIDIOLEX** - a CBD-based RSO used for epilepsy

Epidiolex - GW Pharmaceuticals (drug development page – 2013)
http://www.gwpharm.com/Epidiolex.aspx

Pharmaceuticals Provides Update on Orphan Program in Childhood Epilepsy for Epidiolex® (news – 2013)

Comes Now Epidiolex (FDA approves IND studies of CBD) (news – 2013)

Cannabis-Based Epilepsy Drug Approved For Clinical Trials (news – 2013)

OBTAINING EPIDIOLEX™ IN THE U.S. (news – 2013)
http://www.dravetfoundation.org/dravet-syndrome/consider-dravet/obtaining-epidiolex

UCSF-led study gathers data on safety, tolerability of purified cannabinoid for children with epilepsy (news – 2014)

GW-42004 - see CBD/CANNABIDIOL

GWP- 42006 - see THCV/ TETRAHYDROCANNBIVARIN
HONKIOL - from magnolia trees, CB1 agonist, CB2 antagonist, also see 4’-O-METHYLHONKIOL, MAGNOLOL

Magnolia officinalis is a Traditional Chinese Medicine (article – undated)
http://examine.com/supplements/Magnolia+officinalis/

MAGNOLIA BARK (article – 2001)
http://www.itmonline.org/arts/magnolia.htm

Honokiol, a small molecular weight natural product, inhibits angiogenesis in vitro and tumor growth in vivo. (full – 2003) http://www.jbc.org/content/278/37/35501.long


The natural product honokiol induces caspase-dependent apoptosis in B-cell chronic lymphocytic leukemia (B-CLL) cells. (full – 2005) http://bloodjournal.hematologylibrary.org/content/106/2/690.long

Honokiol, a natural plant product, inhibits inflammatory signals and alleviates inflammatory arthritis. (full – 2007) http://www.jimmunol.org/content/179/2/753.long

Neuro-modulating effects of honokiol: a review. (full - 2013)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3769637/

Honokiol-induced apoptosis and autophagy in glioblastoma multiforme cells. (full - 2013)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3813738/

Anti-proliferative effect of honokiol in oral squamous cancer through the regulation of specificity protein 1. (full – 2013)

Honokiol, a low molecular weight natural product, prevents inflammatory response and cartilage matrix degradation in human osteoarthritis chondrocytes. (abst – 2013)

Honokiol as a Radiosensitizing Agent for Colorectal cancers. (abst – 2013)

Honokiol inhibits U87MG human glioblastoma cell invasion through endothelial cells by regulating membrane permeability and the epithelial-mesenchymal transition. (full – 2014)


**IDRASIL** – a natural, phytocannabinoid pill, available only in California so far

Introducing Idrasil - The Marijuana Pill (ad – undated)  http://idrasil.info/


**MAGNOLOL** - from magnolia trees, CB2 agonist, and GPR-55 antagonist

MAGNOLIA BARK (article – 2001)  http://www.itmonline.org/arts/magnolia.htm


Magnolol Ameliorates Ligature-Induced Periodontitis in Rats and Osteoclastogenesis: In Vivo and In Vitro Study (full – 2013) http://www.hindawi.com/journals/ecam/2013/634095/

Effects of magnolol on impairment of learning and memory abilities induced by scopolamine in mice. (full – 2013) https://www.jstage.jst.go.jp/article/bpb/36/5/36_b12-00880/_html

Magnolol inhibits angiogenesis by regulating ROS-mediated apoptosis and the PI3K/AKT/mTOR signaling pathway in mES/EB-derived endothelial-like cells. (full – 2013) http://www.spandidos-publications.com/ijo/43/2/600


Magnolia extract, magnolol and metabolites: activation of cannabinoid CB2 receptors and blockade of the related GPR55 (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4027495/

Autophagy triggered by magnolol derivative negatively regulates angiogenesis. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3920944/


Magnolol inhibits migration of vascular smooth muscle cells via cytoskeletal remodeling pathway to attenuate neointima formation. (abst – 2013)  

Long-term supplementation of honokiol and magnolol ameliorates body fat accumulation, insulin resistance, and adipose inflammation in high-fat fed mice. (abst – 2013)  

Resuscitation from experimental traumatic brain injury by magnolol therapy. (abst – 2013)  


Anti-hepatitis B virus lignans from the root of Streblus asper. (abst – 2013)  

Magnolol suppresses hypoxia-induced angiogenesis via inhibition of HIF-1α/VEGF signaling pathway in human bladder cancer cells (abst – 2013)  

Synthesis of Tetrahydrohonokiol Derivates and Their Evaluation for Cytotoxic Activity against CCRF-CEM Leukemia, U251 Glioblastoma and HCT-116 Colon Cancer Cells. (link to PDF – 2014)  
[http://www.mdpi.com/1420-3049/19/1/1223](http://www.mdpi.com/1420-3049/19/1/1223)

Magnolia dealbata seeds extract exert cytotoxic and chemopreventive effects on MDA-MB231 breast cancer cells. (abst – 2014)  

**MELILOTUS SUAVEOLENS LEDAB /SWEET MELIOT**

Effect of melilotus extract on lung injury by upregulating the expression of cannabinoid CB2 receptors in septic rats. (full – 2014)  
[http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3995869/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3995869/)

**NAMISOL** – a THC tablet

Holland: Echo Pharmaceuticals develops THC tablet Namisol (news – 2008)  
Novel Δ(9) -tetrahydrocannabinol formulation Namisol® has beneficial pharmacokinetics and promising pharmacodynamic effects. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3394127/

NELUMBO NUCIFERA / SACRED LOTUS – contains a CB2 antagonist


4’-O-METHYLHONOKIOL - from magnolia trees, CB2 agonist, also see MAGNOLOL, HONOKIOL

Magnolia officinalis is a Traditional Chinese Medicine (article – undated) http://examine.com/supplements/Magnolia+officinalis/

MAGNOLIA BARK (article – 2001) http://www.itmonline.org/arts/magnolia.htm


Methylhonokiol attenuates neuroinflammation: a role for cannabinoid receptors? (full – 2012) http://www.jneuroinflammation.com/content/9/1/135


4-O-methylhonokiol prevents memory impairment in the Tg2576 transgenic mice model of Alzheimer's disease via regulation of β-secretase activity. (abst – 2012)
PHYTOCANNABINOIDS/ PLANT EXTRACTS *

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/

Advantages of polypharmaceutical herbal cannabis compared to single ingredient, synthetic tetrahydrocannabinol  (full - 2000)
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**TERPINOIDS/ TERPENES** * - help cannabinoids work better, also see Beta Carophyllene

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**TETRAHYDROCANNABIORCOL** – activates the TRPA1 channel like acetaminophen does


THCV/ TETRAHYDROCANNABIVARIN/ GWP- 42006  * CB1 & CB2 antagonist

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Cannabis could help treat epilepsy #1 (news – 2011)

Cannabis could be used to treat epilepsy #2 (news – 2011)


Δ(8) -Tetrahydrocannabivarin prevents hepatic ischaemia/reperfusion injury by decreasing oxidative stress and inflammatory responses through cannabinoid CB(2) receptors. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3423240/
The Endocannabinoid System and Plant-Derived Cannabinoids in Diabetes and Diabetic Complications  (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3349875/


GW Pharma Investment Summary  (shows GW42006 is THCV)  (report - 2012)  https://docs.google.com/viewer?a=v&q=cache%3AFaPqL-KYKUQJ3Awww.gwpharma.com%2Fuploads%2Fgwpharma290312update.pdf+%hl=en&gl=uk&pid=bl&srcid=ADGEESjz6iALNgQZ30IRSDA1hR_oT0Ee2y9cv7Lja4mG0T53YknfusAXFU_S_IWA0ObaR0Ujdk1gPnt0GHmvW04DdDuIth7fwVf5ia-Blj3lM3YNbBbXhQxaI1g-XJW_1AnHLnvTXMXem&sig=AHIIEbTKgia5QaLtU0v4IHtkp8ajD5G0A


5 Marijuana Compounds That Could Help Combat Cancer, Alzheimers, Parkinsons (If Only They Were Legal)  (news – 2012)  http://www.alternet.org/drugs/5-marijuana-compounds-could-help-combat-cancer-alzheimers-parkinsons-if-only-they-were-legal


The cannabinoid Δ(9)-tetrahydrocannabivarin (THCV) ameliorates insulin sensitivity in two mouse models of obesity.  (full – 2013)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3671751/

Evaluation of the potential of the phytocannabinoids, cannabidivarin (CBDV) and Δ9 - tetrahydrocannabivarin (THCV), to produce CB1 receptor inverse agonism symptoms of nausea in rats.  (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23902479


**TRANS-CARYOPHYLLENE** – CB 2 agonist


Activation of cortical type 2 cannabinoid receptors ameliorates ischemic brain injury  
(news – 2013)  [http://www.sciencedaily.com/releases/2013/02/130221141140.htm](http://www.sciencedaily.com/releases/2013/02/130221141140.htm)

Cannabinoid Trans-Caryophyllene Protects Brain Cells From Ischemia  
