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BETA-CARYOPHYLLENE/(E)-BCP +* – CB2 agonist, also see TRANS-CARYOPHYLLENE

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**CANNFLAVIN-A/ CANNFLAVIN-B** + non-cannabinoid compounds from cannabis


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CBC/ CANNABICHROMENE +* - phytocannabinoid, unknown receptor

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Differences in receptor binding affinity of several phytocannabinoids does not explain their effects on neural cell cultures. (abst – 2014) http://www.ncbi.nlm.nih.gov/pubmed/25311884

Seized cannabis seeds cultivated in greenhouse: A chemical study by gas chromatography–mass spectrometry and chemometric analysis (full – 2015)
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Cannabinoid and Terpene Info (chart – 2015)
http://skunkpharmresearch.com/cannabinoid-info/

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Effect of Non-psychotropic Plant-derived Cannabinoids on Bladder Contractility: Focus on Cannabigerol. (abst – 2015)

Determination of 11 Cannabinoids in Biomass and Extracts of Different Varieties of Cannabis Using High-Performance Liquid Chromatography. (abst – 2015)

**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/


Method for the Analysis of Cannabinoids and Terpenes in Cannabis (link to PDF – 2015)
http://www.ingentaconnect.com/search/article?option1=tka&value1=cannabinoid&sortDescending=true&sortField=prism_publicationDate&pageSize=10&index=7

Development and Validation of a Reliable and Robust Method for the Analysis of Cannabinoids and Terpenes in Cannabis. (link to PDF – 2015)
http://www.ingentaconnect.com/content/aoac/jaoac/2015/00000098/00000006/art00005?token=0045134023c7e2a46762c6b355d7d763b25502e5b4524673f7b2f27375f2a72752d70


CBN/ CANNABINOL + - CB2 agonist, weak CB1 agonist


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)  
http://www.researchgate.net/publication/236185970_Hair_analysis_for_THCA-
A_THC_and_CBN_after_passive_in_vivo_exposure_to_marijuana_smoke

Selected terpenoids from medicinal plants modulate endoplasmic reticulum stress in metabolic disorders (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)  

Oral fluid cannabinoids in chronic frequent cannabis smokers during ad libitum cannabis smoking. (abst – 2014)  

Differences in receptor binding affinity of several phytocannabinoids does not explain their effects on neural cell cultures. (abst – 2014)  

Cannabinoids determination in oral fluid by SPME-GC/MS and UHPLC-MS/MS and its application on suspected drivers. (abst – 2014)  

Simultaneous quantification of delta-9-THC, THC-acid A, CBN and CBD in seized drugs using HPLC-DAD. (abst – 2014)  

Potential applications of marijuana and cannabinoids in medicine (abst – 2014)  

Turning Over a New Leaf: Cannabinoid and Endocannabinoid Modulation of Immune Function. (full – 2015)  
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Cannabinoid and Terpene Info  (chart – 2015)
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Comprehensive monitoring of the occurrence of 22 drugs of abuse and transformation products in airborne particulate matter in the city of Barcelona.  (abst – 2015)


**C28H34N2O6** - a secondary metabolite of THC

Identification of potential herbal inhibitor of acetylcholinesterase associated Alzheimer's disorders using molecular docking and molecular dynamics simulation.  (full – 2014)
http://www.hindawi.com/journals/bri/2014/705451/

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

Migraines, Marijuana, and Chocolate  (article – 2011)

Anticipatory and consummatory effects of (hedonic) chocolate intake are associated with increased circulating levels of the orexigenic peptide ghrelin and endocannabinoids in obese adults.  (full– 2015)
http://www.foodandnutritionresearch.net/index.php/fnr/article/view/29678

**CURCUMIN** - a CB1 antagonist in turmeric


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


Comparison of shock wave therapy and nutraceutical composed of Echinacea angustifolia, alpha lipoic acid, conjugated linoleic acid and quercetin (perinerv) in patients with carpal tunnel syndrome. (full – 2015) http://iji.sagepub.com/content/early/2015/04/30/0394632015584501.long
http://www.hindawi.com/journals/ecam/2015/238482/

ENTOURAGE EFFECT – PHYTOCANNABINOIDS +

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


EPIDIOLEX - a CBD-based extract used for epilepsy

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

EFFICACY AND SAFETY OF EPIDIOLEX (CANNABIDIOL) IN CHILDREN AND YOUNG ADULTS WITH TREATMENT-RESISTANT EPILEPSY: INITIAL DATA FROM AN EXPANDED ACCESS PROGRAM (abst – 2014) https://www.aesnet.org/meetings_events/annual_meeting_abstracts/view/1868751#thash.pbnQqzNG.dpuf
THE EFFECT OF EPIDIOLEX (CANNABIDIOL) ON SERUM LEVELS OF CONCOMITANT ANTI-EPILEPTIC DRUGS IN CHILDREN AND YOUNG ADULTS WITH TREATMENT-RESISTANT EPILEPSY IN AN EXPANDED ACCESS PROGRAM (abst – 2014)
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/view/1868391#sthash.uxbwgudh.dpuf

FLAVONOIDS +

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

Tailoring Your High: Compounds in Cannabis, Properties and Boiling Points (chart – 2012)
http://www.weedist.com/2012/07/tailoring-high-compounds-in-cannabis-properties-boiling-points/

Early Phenylpropanoid Biosynthetic Steps in Cannabis sativa: Link between Genes and Metabolites (full – 2013)
http://www.mdpi.com/1422-0067/14/7/13626/htm

Effect of induced polyploidy on some biochemical parameters in Cannabis sativa L. (abst – 2015)

Anti Proliferative and Pro Apoptotic Effects of Flavonoid Quercetin Are Mediated by CB1 Receptor in Human Colon Cancer Cell Lines. (abst – 2015)

Flavonoids from Perovskia atriplicifolia and Their in Vitro Displacement of the Respective Radioligands for Human Opioid and Cannabinoid Receptors. (abst – 2015)

Chapter 2 – Biosynthesis and Pharmacology of Phytocannabinoids and Related Chemical Constituents (abst – 2016)

GW-42004 - see THCV/ TETRAHYDROCANNABIVARIN

GWP-42003 – see CBD/ CANNABIDIOL
**HONKIOL** + - from magnolia trees, CB1 agonist, CB2 antagonist, also see 4’-O-METHYLLHONKIOL, MAGNOLOL


Honokiol inhibits the progression of collagen-induced arthritis by reducing levels of pro-inflammatory cytokines and matrix metalloproteinases and blocking oxidative tissue damage (full – 2010) [https://www.jstage.jst.go.jp/article/jphs/114/1/114_10070FP/_pdf](https://www.jstage.jst.go.jp/article/jphs/114/1/114_10070FP/_pdf)


Honokiol rescues sepsis-associated acute lung injury and lethality via the inhibition of oxidative stress and inflammation. (abst – 2011)

Magnolia Extract, Magnolol, and Metabolites: Activation of Cannabinoid CB2 Receptors and Blockade of the Related GPR55. (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4027495/

Honokiol activates AMP-activated protein kinase in breast cancer cells via an LKB1-dependent pathway and inhibits breast carcinogenesis. (full – 2012)
http://breast-cancer-research.com/content/14/1/R35

Honokiol in combination with radiation targets notch signaling to inhibit colon cancer stem cells. (full – 2012) http://mct.aacrjournals.org/content/11/4/963.long

Antimetastatic activity of honokiol in osteosarcoma. (full – 2012)

Honokiol attenuates torsion/detorsion-induced testicular injury in rat testis by way of suppressing endoplasmic reticulum stress-related apoptosis. (abst - 2012)

Multiple effects of Honokiol on the life cycle of hepatitis C virus. (abst - 2012)

Honokiol attenuates the severity of acute pancreatitis and associated lung injury via acceleration of acinar cell apoptosis. (abst - 2012)

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/

Honokiol protects rat hearts against myocardial ischemia reperfusion injury by reducing oxidative stress and inflammation. (full – 2013)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3523945/

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. (full – 2013)
Honokiol as a Radiosensitizing Agent for Colorectal cancers.  (full – 2013)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3844429/

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

Evaluation of anti-HIF and anti-angiogenic properties of honokiol for the treatment of ocular neovascular diseases  (full – 2014)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4244131/

Honokiol inhibits androgen receptor activity in prostate cancer cells  (full – 2014)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3946953/

Honokiol affects melanoma cell growth by targeting the AMP-activated protein kinase signaling pathway.  (full – 2014)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4433539/

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

Honokiol nanosuspensions: Preparation, increased oral bioavailability and dramatically enhanced biodistribution in the cardio-cerebro-vascular system.  (abst – 2014)  

Potential use of Magnolia officinalis bark polyphenols in the treatment of cannabis dependence.  (abst – 2014)  

Effect of Honokiol on Proliferation and Apoptosis in HL-60 Cells and Its Potential Mechanism  (abst – 2014)  

In vitro and in vivo antimicrobial efficacy of natural plant-derived compounds against Vibrio cholerae of O1 El Tor Inaba serotype.  (abst – 2014)  

Honokiol inhibits melanoma stem cells by targeting notch signaling.  (abst – 2014)  

The herbal-derived honokiol and magnolol enhances immune response to infection with methicillin-sensitive Staphylococcus aureus (MSSA) and methicillin-resistant S. aureus (MRSA).  (abst – 2015)  

Honokiol Decreases Intra-Abdominal Adhesion Formation in a Rat Model.  (abst – 2015)  
Magnolol + - from magnolia trees, CB2 agonist, and GPR-55 antagonist

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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 colonic motility through down-regulation of voltage-sensitive L-type Ca(2+) channels of colonic smooth muscle cells in rats. (abst – 2013)  


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)  
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Synergistic activity of magnolol with azoles and its possible antifungal mechanism against Candida albicans. (abst – 2014)  

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In vitro and in vivo antimicrobial efficacy of natural plant-derived compounds against Vibrio cholerae of O1 El Tor Inaba serotype. (abst – 2014)  


**MELILOTUS SUAVEOLENS LEDAB /SWEET MELIOT**  – may increase the number of CB2 receptors

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/

**NAMISOL**  + – a THC tablet

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

Effect of Nelumbo nucifera Petal Extracts on Lipase, Adipogenesis, Adipolysis, and Central Receptors of Obesity  
(full – 2013)  

In vitro opioid receptor affinity and in vivo behavioral studies of Nelumbo nucifera flower.  
(abst – 2015)  

**4’-O-METHYLHONOKIOL**  
+– from magnolia trees, CB2 agonist, increases 2-AG levels, also see MAGNOLOL, HONOKIOL

Inhibitory effect of ethanol extract of Magnolia officinalis and 4-O-methylhonokiol on memory impairment and neuronal toxicity induced by beta-amyloid.  
(abst – 2010)  

4-O-Methylhonokiol attenuates memory impairment in presenilin 2 mutant mice through reduction of oxidative damage and inactivation of astrocytes and the ERK pathway.  
(abst – 2011)  

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

Inhibitory effect of 4-O-methylhonokiol on lipopolysaccharide-induced neuroinflammation, amyloidogenesis and memory impairment via inhibition of nuclear factor-kappaB in vitro and in vivo models.  
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4-O-methylhonokiol prevents memory impairment in the Tg2576 transgenic mice model of Alzheimer's disease via regulation of β-secretase activity.  
(abst – 2012)  

4’-O-methylhonokiol increases levels of 2-arachidonoyl glycerol in mouse brain via selective inhibition of its COX-2-mediated oxygenation.  
(full – 2015)  

Small Molecules from Nature Targeting G-Protein Coupled Cannabinoid Receptors: Potential Leads for Drug Discovery and Development  
(full – 2015)  
**OLIVE OIL** – may cause a temporary upregulation of CB1 tumor suppressor gene

Extravirgin olive oil up-regulates CB1 tumor suppressor gene in human colon cancer cells and in rat colon via epigenetic mechanisms.  
(abst – 2014)  

Small Molecules from Nature Targeting G-Protein Coupled Cannabinoid Receptors: Potential Leads for Drug Discovery and Development  
(full – 2015)  

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**PHYTOCANNABINOIDS/ PLANT EXTRACTS +**

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

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

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

Preliminary efficacy and safety of an oromucosal standardized cannabis extract in chemotherapy-induced nausea and vomiting  
(full - 2010)  

**AMELIORATIVE POTENTIAL OF CANNABIS SATIVA EXTRACT ON DIABETES INDUCED NEUROPATHIC PAIN IN RATS**  
(full – 2010)  

Antibacterial analysis of crude extracts from the leaves of Tagetes erecta and Cannabis sativa  
(full – 2010)  
[http://www.ipublishing.co.in/ijesarticles/twelve/articles/voltwo/EIJES3150.pdf](http://www.ipublishing.co.in/ijesarticles/twelve/articles/voltwo/EIJES3150.pdf)

Comparative topical anti-inflammatory activity of cannabinoids and cannabivarins.  
(abst – 2010)  

Non-CB1, non-CB2 receptors for endocannabinoids, plant cannabinoids, and synthetic cannabimimetics: focus on G-protein-coupled receptors and transient receptor potential channels.  
(abst – 2010)


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

Prospects for cannabinoid therapies in basal ganglia disorders. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165947/


The Endocannabinoid System and Plant-Derived Cannabinoids in Diabetes and Diabetic Complications  (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3349875/

The Therapeutic Potential of Cannabis and Cannabinoids  (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3442177/
Sativex-like Combination of Phytocannabinoids is Neuroprotective in Malonate-Lesioned Rats, an Inflammatory Model of Huntington's Disease: Role of CB(1) and CB(2) Receptors. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3382456/


Multiple Sclerosis and Extract of Cannabis: results of the MUSEC trial. (full – 2012) http://jnnp.bmj.com/content/83/11/1125.long


Effect of extraction conditions on total polyphenol contents, antioxidant and antimicrobial activities of Cannabis sativa L (abst – 2012) http://www.cabdirect.org/abstracts/20123212113.html;jsessionid=DDBC2FF41C8322957AD4B468D3785A59?gitCommit=4.13.20-5-ga6ad01a

Marijuana: modern medical chimaera. (abst – 2012)

Phytocannabinoids tetrahydrocannabinol and cannabidiol act against rotenone induced
damages in murine cell cultures (abst – 2012)

Studies on the Optimization of Agrotechniques to Maximize the Productivity of Two
Cannabis Chemotypes Cultivated to Produce Medicinal Grade Plant Material
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NEUROPROTECTIVE EFFECTS OF CANNABIS SATIVA ALCOHOLIC EXTRACT
AGAINST SPINAL ALPHA MOTONEURONS DEGENERATION IN MALE TYPE II

Natural Cannabinoids Improve Dopamine Neurotransmission and Tau and Amyloid
Pathology in a Mouse Model of Tauopathy. (full – 2013)
http://iospress.metapress.com/content/4j61942x88175321/fulltext.html

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therapeutic intervention. (full - 2013)
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apoptotic effects and underlying mechanisms. (full – 2013)

Pro-resolution, protective and anti-nociceptive effects of a cannabis extract in the rat
gastrointestinal tract. (full – 2013)

A review of the cultivation and processing of cannabis (Cannabis sativa L.) for
production of prescription medicines in the UK. (full – 2013)

The pharmacologic and clinical effects of medical cannabis. (full – 2013)

Neuroprotective effects of Cannabis sativa leaves extracts on α-Motoneurons density
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Cannabis, a complex plant: different compounds and different effects on individuals
(full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3736954/
Towards a better Cannabis drug. (full – 2013)  

Molecular Mechanisms Involved in the Antitumor Activity of Cannabinoids on Gliomas: Role for Oxidative Stress. (full – 2013)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3835116/

Part I of the American Herbal Pharmacopoeia cannabis monograph (Preview) (full – 2013)  

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Epigenetic Control of Skin Differentiation Genes by Phytocannabinoids (full – 2013)  
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Cannabidivarin-rich cannabis extracts are anticonvulsant in mouse and rat via a CB1 receptor-independent mechanism. (full – 2013)  
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Enhancing the Activity of Cannabidiol and Other Cannabinoids In Vitro Through Modifications to Drug Combinations and Treatment Schedules. (full – 2013)  

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


A protocol for the delivery of cannabidiol (CBD) and combined CBD and [increment]9-tetrahydrocannabinol (THC) by vaporisation. (full – 2014) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4274767/

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INVESTIGATING SEDATIVE, PREANAESTHETIC & ANTI-ANXIETY EFFECTS OF HERBAL EXTRACT OF CANNABIS SATIVA IN COMPARISON WITH DIAZEPAM IN RATS (abst – 2014)  

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The entourage effect: Synergistic actions of plant cannabinoids (letter – 2015)
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The therapeutic potential of cannabinoids for movement disorders. (abst – 2015)


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**TEA-** *(Camellia sinensis (L.)) +** – weakly activates CB1 and CB2 receptors


TERPINOIDS/ TERPENES  +* - they help cannabinoids work better, also see Beta Carophyllene


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THCVA/ TETRAHYDROCANNABIVARIC ACID

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**TRANS-CARYOPHYLLENE** – CB 2 agonist

Activation of Cannabinoid CB2 Receptor-Mediated AMPK/CREB Pathway Reduces Cerebral Ischemic Injury.  

Activation of type 2 cannabinoid receptors (CB2R) promotes fatty acid oxidation through the SIRT1/PGC-1α pathway.

The oral administration of trans-caryophyllene attenuates acute and chronic pain in mice.

Trans-Caryophyllene Suppresses Hypoxia-Induced Neuroinflammatory Responses by Inhibiting NF-κB Activation in Microglia.

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Neuroprotective effects of trans-caryophyllene against kainic Acid induced seizure activity and oxidative stress in mice.