Granny Storm Crow's List - July 2014

THE ENDOCANNABINOID SYSTEM

**ABHD6/ \( \alpha/\beta \)-hydrolase domain 6 - breaks down 2-AG**

Activation of the endocannabinoid system by organophosphorus nerve agents
(full - 2008) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597283/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597283/)

Monoacylglycerol lipase limits the duration of endocannabinoid-mediated depolarization-induced suppression of excitation in autaptic hippocampal neurons. (full – 2009) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2784730/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2784730/)

Implication of the anti-inflammatory bioactive lipid prostaglandin D2-glycerol ester in the control of macrophage activation and inflammation by ABHD6. (full – 2013) [http://www.pnas.org/content/110/43/17558.long](http://www.pnas.org/content/110/43/17558.long)

The serine hydrolase ABHD6 Is a critical regulator of the metabolic syndrome. (full – 2013) [http://www.cell.com/cell-reports/fulltext/S2211-1247%2813%2900507-X](http://www.cell.com/cell-reports/fulltext/S2211-1247%2813%2900507-X)


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

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

Synthesis and Biological Activities of 2-Arachidonoylglycerol, an Endogenous Cannabinoid Receptor Ligand, and Its Metabolically Stable Ether-linked Analogues (full – 2000) [http://cpb.pharm.or.jp/cpb/200007/C07_0903.pdf](http://cpb.pharm.or.jp/cpb/200007/C07_0903.pdf)
Endocannabinoids control spasticity in a multiple sclerosis model  (full - 2000)
http://www.fasebj.org/cgi/reprint/00-0399fjev1?maxtoshow=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=10&sortspec=relevance&resourcetype=HWCIT

Endocannabinoid 2-arachidonyl glycerol is a full agonist through human type 2 cannabinoid receptor: antagonism by anandamide.  (full – 2000)
http://molpharm.aspetjournals.org/content/57/5/1045.long

Endocannabinoids and Vascular Function  (full - 2000)
http://jpet.aspetjournals.org/content/294/1/27.long

2-Arachidonoylglycerol and the cannabinoid receptors.  (abst – 2000)

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

Endogenous cannabinoids and appetite.  (abst – 2000)


Despite substantial degradation, 2-arachidonoylglycerol is a potent full efficacy agonist mediating CB(1) receptor-dependent G-protein activation in rat cerebellar membranes.  (full – 2001)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572991/?tool=pubmed

Endogenous cannabinoids mediate hypotension after experimental myocardial infarction  (full - 2001)
http://content.onlinejacc.org/cgi/content/full/38/7/2048?maxtoshow=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=560&resourcetype=HWCIT

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

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

2-Arachidonyl glyceryl ether, an endogenous agonist of the cannabinoid CB1 receptor  (full - 2001)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC31108/

Endocannabinoids are implicated in the infarct size-reducing effect conferred by heat stress preconditioning in isolated rat hearts  (full – 2001)  http://cardiovascres.oxfordjournals.org/content/55/3/619.full?sid=750cba66-d3d1-484d-96e8-04975ba34325
The neurobiology and evolution of cannabinoid signalling  
(http://rstb.royalsocietypublishing.org/content/356/1407/381.full.pdf+html)

An endogenous cannabinoid (2-AG) is neuroprotective after brain injury.  
(abst - 2001)  
(http://www.ncbi.nlm.nih.gov/pubmed/11586361)

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

Activation of PAF receptors results in enhanced synthesis of 2-arachidonoylglycerol (2-AG) in immune cells  
(http://www.fasebj.org/cgi/content/full/15/12/2171?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=10&sortspec=relevance&resourcetype=HWCIT)

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

Comparison of the enzymatic stability and intraocular pressure effects of 2-arachidonoylglycerol and noladin ether, a novel putative endocannabinoid.  
(full – 2002)  
(http://www.iovs.org/content/43/10/3216.full)

Endocannabinoid levels in rat limbic forebrain and hypothalamus in relation to fasting, feeding and satiation: stimulation of eating by 2-arachidonoyl glycerol.  
(full – 2002)  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573386/?tool=pubmed)

Changes in endocannabinoid contents in the brain of rats chronically exposed to nicotine, ethanol or cocaine.  
(abst – 2002)  
(http://www.ncbi.nlm.nih.gov/pubmed/12393235)

Endocannabinoids and related fatty acid derivatives in pain modulation.  
(abst – 2002)  
(http://www.ncbi.nlm.nih.gov/pubmed/12505698)

Endocannabinoids in the central nervous system--an overview.  
(abst – 2002)  
(http://www.ncbi.nlm.nih.gov/pubmed/12052038)

The endocannabinoid system: function in survival of the embryo, the newborn and the neuron.  
(abst - 2002)  
(http://www.ncbi.nlm.nih.gov/pubmed/12395075)

Endocannabinoids in the immune system and cancer.  
(abst - 2002)  
(http://www.ncbi.nlm.nih.gov/pubmed/12052046)

The quest for a vascular endothelial cannabinoid receptor.  
(abst – 2002)  
(http://www.ncbi.nlm.nih.gov/pubmed/12505689)

Endocannabinoids protect the rat isolated heart against ischaemia  
(full - 2003)  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573907/?tool=pmcentrez)
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

Role of Endogenous Cannabinoids in Synaptic Signaling  (full - 2003)  
http://physrev.physiology.org/cgi/content/full/83/3/1017?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT

The Endogenous Cannabinoid System Regulates Seizure Frequency and Duration in a Model of Temporal Lobe Epilepsy  (full - 2003)  
http://jpet.aspetjournals.org/content/307/1/129.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT

Manipulation of the endocannabinoid system by a general anaesthetic.  (full – 2003)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573927/?tool=pubmed

Cannabinoid influences on palatability: microstructural analysis of sucrose drinking after delta(9)-tetrahydrocannabinol, anandamide, 2-arachidonoyl glycerol and SR141716.  (abst – 2003)  

Short-term fasting and prolonged semistarvation have opposite effects on 2-AG levels in mouse brain.  (abst – 2003)  

The endocannabinoid system: a general view and latest additions  (full - 2004)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574255/?tool=pmcentrez

The endocannabinoid system: physiology and pharmacology.  (full - 2004)  
http://alcalc.oxfordjournals.org/cgi/content/full/40/1/2

New perspectives in the studies on endocannabinoid and cannabis: 2-arachidonoylglycerol as a possible novel mediator of inflammation  (full - 2004)  
https://www.jstage.jst.go.jp/article/jphs/96/4/96_4_367/_pdf

2-Arachidonoylglycerol A Novel Inhibitor of Androgen-Independent Prostate Cancer Cell Invasion  (full - 2004)  
http://cancerres.aacrjournals.org/cgi/content/full/64/24/8826?ijkey=951f5f9d238bdf059cf30ee2be3a5a31aa2b094

Endogenous Cannabinoids Take the Edge off Neuroendocrine Responses to Stress  (full – 2004)  

The endocannabinoid-CB receptor system: Importance for development and in pediatric disease.  (abst - 2004)  

A new class of inhibitors of 2-arachidonoylglycerol hydrolysis and invasion of prostate cancer cells  (full – 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1450257/
Role of the endocannabinoid system in the development of tolerance to alcohol (full – 2005)  http://alcalc.oxfordjournals.org/content/40/1/15.long

2-Arachidonoylglycerol, an endogenous cannabinoid receptor ligand, induces rapid actin polymerization in HL-60 cells differentiated into macrophage-like cells (full – 2005)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1134878/


CB1 cannabinoid receptor-mediated modulation of food intake in mice (full - 2005)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1576140/?tool=pmcentrez

Effects of cannabinoids on colonic muscle contractility and tension in guinea pigs. (full – 2005)  https://www.jstage.jst.go.jp/article/jnms/72/1/72_1_43/_pdf

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


Body's Own Marijuana-Like Compounds Are Crucial For Stress-Induced Pain Relief (news - 2005)  http://www.sciencedaily.com/releases/2005/06/050628064435.htm


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


Experimental autoimmune encephalomyelitis disrupts endocannabinoid-mediated neuroprotection (full - 2006) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1458883/?tool=pmcentrez

Weight Control in Individuals With Diabetes (full - 2006) http://care.diabetesjournals.org/content/29/12/2749.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=2000&resourcetype=HWCIT

A new strategy to block tumor growth by inhibiting endocannabinoid inactivation. (full – 2006) http://www.fasebj.org/content/early/2004/10/02/fj.04-1754fje.long

Involvement of the Cannabinoid CB2 Receptor and Its Endogenous Ligand 2-Arachidonoylglycerol in Oxazolone-Induced Contact Dermatitis in Mice (full – 2006) http://www.jimmunol.org/content/177/12/8796.full


The CB1 Cannabinoid Receptor Mediates Excitotoxicity-induced Neural Progenitor Proliferation and Neurogenesis (full - 2007) http://www.jbc.org/content/282/33/23892.full
A Comprehensive Profile of Brain Enzymes that Hydrolyze the Endocannabinoid 2-Arachidonoylglycerol  (full – 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2692834/

Endocannabinoids and the hematological system  (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190025/?tool=pmcentrez

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

Diverse roles of 2-arachidonoylglycerol in invasion of prostate carcinoma cells: Location, hydrolysis and 12-lipoxygenase metabolism  (full – 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2565646/?tool=pubmed

Opposing Actions of Endocannabinoids on Cholangiocarcinoma Growth: RECRUITMENT OF Fas AND Fas LIGAND TO LIPID RAFTS  (full – 2007)
http://www.jbc.org/content/282/17/13098.full

Pharmacological enhancement of the endocannabinoid system in the nucleus accumbens shell stimulates food intake and increases c-Fos expression in the hypothalamus.  (full – 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2042935/?tool=pubmed

Cannabinoid-2 receptor mediates protection against hepatic ischemia/reperfusion injury  (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228252/?tool=pmcentrez

Endocannabinoids block status epilepticus in cultured hippocampal neurons  (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2617750/?tool=pmcentrez

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

2-AG + 2 new players = forecast for therapeutic advances.  (full – 2007)
http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6VRP-4RFCCVN-4&_user=10&_coverDate=12%2F26%2F2007&_rdoc=1&_fmt=high&_orig=gateway&_origin=gateway&_sort=d&_docanchor=&view=c&_acct=C000050221&_version=1&_userid=10&md5=9e7f728e35c89b5764ef2d27e0cddf9e9&searchtype=a

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

Opposing Actions of Endocannabinoids on Cholangiocarcinoma Growth  (full - 2007)
http://www.jbc.org/content/282/17/13098.full

Endocannabinoids, cannabinoid receptors and inflammatory stress: an interview with Dr. Pál Pacher  (interview - 2007)
In Vitro Anticonvulsant Action of 2-Arachidonyl Glycerol (abst – 2007)


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

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

Activation of the endocannabinoid system by organophosphorus nerve agents (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2597283/

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


Endocannabinoid 2-Arachidonoylglycerol Protects Neurons by Limiting COX-2 Elevation (full – 2008) http://www.jbc.org/content/283/33/22601.full


Activating Parabrachial Cannabinoid CB1 Receptors Selectively Stimulates Feeding of Palatable Foods in Rats (full - 2008) http://www.jneurosci.org/cgi/content/full/28/39/9702?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

Cannabinoid receptors and the regulation of bone mass (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219540/?tool=pmcentrez
Role of endocannabinoids in cardiovascular shock. (full – 2008)
http://www.jpp.krakow.pl/journal/archive/12_08_s8/pdf/91_12_08_s8_article.pdf

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


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

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


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Cox–2 contributes to the selective induction of cell death by the endocannabinoid 2-arachidonoyl glycerol in hepatic stellate cells through generation of prostaglandin-glycerol esters  
(08–2008)  

Understanding the effects of endogenous cannabinoids  
(news - 2008)  

Marijuana-Inspired Painkiller? New Chemical Pathway Discovered  
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LSUHSC research reports new method to protect brain cells from diseases like Alzheimer's  
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Endocannabinoids and cannabinoid analogues block cardiac hKv1.5 channels in a cannabinoid receptor-independent manner  
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Changes in the Endocannabinoid System May Give Insight into new and Effective Treatments for Cancer  
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Endocannabinoids and Their Receptors as Targets for Obesity Therapy  
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Endocannabinoid-mediated control of synaptic transmission.  
(full – 2009)  
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Lipid rafts regulate 2-arachidonoylglycerol metabolism and physiological activity in the striatum  
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Post-ischemic brain damage: the endocannabinoid system in the mechanisms of neuronal death.  
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Selective blockade of 2-arachidonoylglycerol hydrolysis produces cannabinoid behavioral effects  
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Circulating endocannabinoids and N-acyl ethanolamines are differentially regulated in major depression and following exposure to social stress.  (full – 2009)  
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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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The endocannabinoid 2-arachidonoylglycerol promotes sperm development through activation of cannabinoid-2 receptors  (full – 2009)  

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Monoacylglycerol lipase limits the duration of endocannabinoid-mediated depolarization-induced suppression of excitation in autaptic hippocampal neurons.  (full – 2009)  
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From endocannabinoid profiling to 'endocannabinoid therapeutics'.  (abst – 2009)  

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Enhancement of endocannabinoid signaling by fatty acid amidase hydrolase inhibition: a neuroprotective therapeutic modality.  (full – 2010)  
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Dietary docosahexaenoic acid supplementation alters select physiological endocannabinoid-system metabolites in brain and plasma (full – 2010) http://www.jlr.org/content/51/6/1416.full.pdf+html

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The serine hydrolase ABHD6 controls the accumulation and efficacy of 2-AG at cannabinoid receptors. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2970523/?tool=pubmed


Endocannabinoids and Schizophrenia (link to PDF – 2010) http://www.mdpi.com/1424-8247/3/10/3101


Endogenous cannabinoids in liver disease: Many darts for a single target (abst – 2010)
Palmitoylethanolamide counteracts reactive astrogliosis induced by beta-amyloid peptide. (full – 2011)  

The activity of the endocannabinoid metabolising enzyme fatty acid amide hydrolase in subcutaneous adipocytes correlates with BMI in metabolically healthy humans  
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Endocannabinoid hydrolysis generates brain prostaglandins that promote neuroinflammation (full – 2011)  
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Genetic deletion of monoacylglycerol lipase alters endocannabinoid-mediated retrograde synaptic depression in the cerebellum.  
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Krill oil significantly decreases 2-arachidonoylglycerol plasma levels in obese subjects.  
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Activity-based protein profiling of organophosphorus and thiocarbamate pesticides reveals multiple serine hydrolase targets in mouse brain.  
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Endocannabinoid tone versus constitutive activity of cannabinoid receptors (full – 2011)  

Dual inhibition of alpha/beta hydrolase domain 6 and fatty acid amide hydrolase increases endocannabinoid levels in neurons.  
(full – 2011)  
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Inhibition of COX-2 expression by endocannabinoid 2-arachidonoylglycerol is mediated via PPAR-γ  
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Increasing endogenous 2-arachidonoylglycerol levels counteracts colitis and related systemic inflammation.  
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Protective Role of Cannabinoid Receptor Type 2 in a Mouse Model of Diabetic Nephropathy.  
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http://www.jimmunol.org/content/187/11/5720.full.pdf+html

Cannabinoids and bone: endocannabinoids modulate human osteoclast function in vitro (full – 2011)  

Inhibition of endocannabinoid catabolic enzymes elicits anxiolytic-like effects in the marble burying assay. (full – 2011)  

The Endogenous Cannabinoid 2-Arachidonoylglycerol Is Intravenously Self-Administered by Squirrel Monkeys (full – 2011)  
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**CBR - CB2 CANNABINOID RECEPTOR** * - no “high”, activated by THC, Anandamide, 2–AG, THC

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CBR - GPR55/ CB3 CANNABINOID RECEPTOR *
Activated by 1-α-lysophosphatidylinositol (LPI), and to a lesser extent possibly by THC, CBD, O-1602, PEA, 2-AG, Anandamide, Virodhamine,

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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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The putative cannabinoid receptor GPR55 affects osteoclast function in vitro and bone mass in vivo  (full - 2009)  
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Receptors for acylethanolamides-GPR55 and GPR119.  (full – 2009)  
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The Type 2 Cannabinoid Receptor Regulates Bone Mass and Ovariectomy-Induced Bone Loss by Affecting Osteoblast Differentiation and Bone Formation (full – 2011) http://press.endocrine.org/doi/full/10.1210/en.2010-0930

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Lipid bilayer molecular dynamics study of lipid-derived agonists of the putative cannabinoid receptor, GPR55. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3086297/?tool=pubmed


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The atypical cannabinoid O-1602 increases hind paw sensitisation in the chronic constriction injury model of neuropathic pain. (abst – 2012)  

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Role of endogenous cannabinoid system in the gut. (full - 2013)  

A potential role for GPR55 in gastrointestinal functions. (full – 2013)  
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Genetic Background Can Result in a Marked or Minimal Effect of Gene Knockout (GPR55 and CB2 Receptor) in Experimental Autoimmune Encephalomyelitis Models of Multiple Sclerosis. (full – 2013)  
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Regulation of cell proliferation by GPR55/cannabinoid receptors using (R,R’)-4’-methoxy-1-naphthylfenoterol in rat C6 glioma cell line (abst – 2013)
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Increase of mesenchymal stem cell migration by Cannabidiol via activation of p42/44 MAPK. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/24304686


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Nicotinic acid inhibits progression of atherosclerosis in mice through its receptor GPR109A expressed by immune cells (full – 2011)  

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**CBR - GPR119 CANNABINOID RECEPTOR** - activated by PEA, OEA

A role for beta-cell-expressed G protein-coupled receptor 119 in glycemic control by enhancing glucose-dependent insulin release. (full – 2007)  
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Endocannabinoids and nutrition. (full – 2008)  

GPR119, a novel G protein-coupled receptor target for the treatment of type 2 diabetes and obesity (full - 2008)  
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Receptors for acylethanolamides-GPR55 and GPR119. (full – 2009)  
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Dynamic changes to the endocannabinoid system in models of chronic pain (full – 2012)  [http://rstb.royalsocietypublishing.org/content/367/1607/3300.full?sid=1569c370-cd5c-4358-89ff-857201f5e069](http://rstb.royalsocietypublishing.org/content/367/1607/3300.full?sid=1569c370-cd5c-4358-89ff-857201f5e069)


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Localization of the cannabinoid CB1 receptor and the 2-AG synthesizing (DAGLα) and degrading (MAGL, FAAH) enzymes in cells expressing the Ca(2+)-binding proteins calbindin, calretinin, and parvalbumin in the adult rat hippocampus. (full – 2014)  [http://journal.frontiersin.org/Journal/10.3389/fnana.2014.00056/full](http://journal.frontiersin.org/Journal/10.3389/fnana.2014.00056/full)


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Identification of Small Molecules That Selectively Inhibit Diacylglycerol Lipase–α Activity (abst – 2014)  [http://jbx.sagepub.com/content/19/4/595.abstract](http://jbx.sagepub.com/content/19/4/595.abstract)
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Cannabinoids  (encyclopedia entry)  http://www.chemie.de/lexikon/e/Cannabinoids/


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Cannabinoids inhibit neurodegeneration in models of multiple sclerosis  (full - 2003)  
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The endocannabinoid system is altered in the post-mortem prefrontal cortex of alcoholic subjects  
(abst – 2014)  

Endocannabinoid modulation by FAAH and MAGL within the analgesic circuitry of the periaqueductal grey. (abst – 2014)  
[link](http://www.ncbi.nlm.nih.gov/pubmed/25041240)

Endocannabinoid Regulation in Human Endometrium Across the Menstrual Cycle  
(abst – 2014)  
[link](http://rsx.sagepub.com/content/early/2014/05/09/1933719114533730.abstract)

**NADA/ N-ARACHIDONOYLDOPAMINE** - CB1 agonist

Endocannabinoids and related fatty acid derivatives in pain modulation. (abst – 2002)  
[link](http://www.ncbi.nlm.nih.gov/pubmed/12505698)

Characterisation of the vasorelaxant properties of the novel endocannabinoid N-arachidonoyl-dopamine (NADA). (full – 2004)  
[link](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574254/)

TRPV1 and CB(1) receptor-mediated effects of the endovanilloid/endocannabinoid N-arachidonoyl-dopamine on primary afferent fibre and spinal cord neuronal responses in the rat. (abst – 2004)  
[link](http://www.ncbi.nlm.nih.gov/pubmed/15245490)
Mechanisms of HIV-1 inhibition by the lipid mediator N-arachidonoyldopamine. (full – 2005)  http://www.jimmunol.org/content/175/6/3990.long


Inhibition of human neutrophil chemotaxis by endogenous cannabinoids and phytocannabinoids: evidence for a site distinct from CB1 and CB2. (full – 2008)  http://molpharm.aspetjournals.org/content/73/2/441.long


The biosynthesis of N-arachidonoyl dopamine (NADA), a putative endocannabinoid and endovanilloid, via conjugation of arachidonic acid with dopamine (full – 2009)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2757501/

Endocannabinoids in nervous system health and disease: the big picture in a nutshell (full – 2012)  http://rstb.royalsocietypublishing.org/content/367/1607/3193.full

The endocannabinoid N-arachidonoyl dopamine (NADA) selectively induces oxidative stress-mediated cell death in hepatic stellate cells but not in hepatocytes (full – 2012)  http://ajpgi.physiology.org/content/302/8/G873.long


The endocannabinoid N-arachidonoyldopamine (NADA) exerts neuroprotective effects after excitotoxic neuronal damage via cannabinoid receptor 1 (CB(1)). (abst – 2012)  http://www.ncbi.nlm.nih.gov/pubmed/22186081

The endocannabinoid/endovanilloid N-arachidonoyl dopamine (NADA) and synthetic cannabinoid WIN55,212-2 abate the inflammatory activation of human endothelial cells. (full – 2014)  http://www.jbc.org/content/early/2014/03/18/jbc.M113.536953.long


NAGly/N-ARACHIDDONOYL GLYCINE – GPR-18 agonist

Identification of a new class of molecules, the arachidonyl amino acids, and characterization of one member that inhibits pain. (full – 2001) http://www.ibc.org/content/276/46/42639.long


The endocannabinoid anandamide is a precursor for the signaling lipid N-arachidonoyl glycine by two distinct pathways (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2689249/?tool=pubmed


N-arachidonoyl glycine, an abundant endogenous lipid, potently drives directed cellular migration through GPR18, the putative abnormal cannabidiol receptor. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2865488/
N-arachidonoyl glycine, an endogenous lipid that acts as a vasorelaxant via nitric oxide and large conductance calcium-activated potassium channels.  (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931560/

Toxicology studies with N-acetylglycine.  (abst – 2010)

Resolution of inflammation by N-arachidonoylglycine.  (full – 2011)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3196844/

siRNA knockdown of GPR18 receptors in BV-2 microglia attenuates N-arachidonoyl glycine-induced cell migration.  (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3493281/

Δ9-Tetrahydrocannabinol and N-arachidonoyl glycine are full agonists at GPR18 receptors and induce migration in human endometrial HEC-1B cells  (full – 2012)

N-arachidonoyl glycine induces macrophage apoptosis via GPR18.  (abst – 2012)


A GPR18-based signaling system regulates IOP in murine eye.  (full – 2013)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3687663/

The Novel Endocannabinoid Receptor GPR18 is Expressed in the Rostral Ventrolateral Medulla and Exerts Tonic Restraining Influence on Blood Pressure.  (full – 2014)
http://jpet.aspetjournals.org/content/early/2014/01/15/jpet.113.209213.long

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/

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

The cannabinoid acids, analogs and endogenous counterparts.  (abst – 2014)


**NARAS / N-ARACHIDONOYL-L-SERINE** - binds very weakly to cannabinoid CB₁ and CB₂


N-arachidonoyl L-serine, a putative endocannabinoid, alters the activation of N-type Ca²⁺ channels in sympathetic neurons. (full – 2008) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2652135/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2652135/)

Inhibition of human neutrophil chemotaxis by endogenous cannabinoids and phytocannabinoids: evidence for a site distinct from CB1 and CB2. (full – 2008) [http://molpharm.aspetjournals.org/content/73/2/441.long](http://molpharm.aspetjournals.org/content/73/2/441.long)


N-arachidonoyl glycine, an abundant endogenous lipid, potently drives directed cellular migration through GPR18, the putative abnormal cannabidiol receptor. (full – 2010) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2865488/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2865488/)


**OEA / OLEOYLETHANOLAMIDE** - an anandamide analog, GPR 119 agonist


The postmortem accumulation of brain N-arachidonyl ethanolamine (anandamide) is dependent upon fatty acid amide hydrolase activity. (full – 2005) http://www.jlr.org/content/46/2/342.long


'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


The lipid messenger OEA links dietary fat intake to satiety. (full – 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2572640/?tool=pubmed

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


GPR119 is essential for oleoylethanolamide-induced glucagon-like peptide-1 secretion from the intestinal enteroendocrine L-cell. (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2671052/?tool=pubmed


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


The fat-induced satiety factor oleoylethanolamide suppresses feeding through central release of oxytocin. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2900249/?tool=pubmed


Plasma anandamide and other N-acylethanolamines are correlated with their corresponding free fatty acid levels under both fasting and non-fasting conditions in women (full – 2010) http://www.nutritionandmetabolism.com/content/7/1/49

Dietary docosahexaenoic acid supplementation alters select physiological endocannabinoid-system metabolites in brain and plasma (full – 2010) http://www.jlr.org/content/51/6/1416.full.pdf+html
CD36 gene deletion decreases oleoylethanolamide levels in small intestine of free-feeding mice.  (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2846762/?tool=pubmed

N-Acylethanolamine Levels and Expression of Their Metabolizing Enzymes during Pregnancy  (full – 2010)  
http://endo.endojournals.org/content/151/8/3965.full

Endocannabinoids and Human Sperm Cells  (link to PDF - 2010)  
http://www.mdpi.com/1424-8247/3/10/3200

Palmitoylethanolamide and other anandamide congeners. Proposed role in the diseased brain.  (abst – 2010)  
http://www.ncbi.nlm.nih.gov/pubmed/20353771

Analysis of gene expression pattern reveals potential targets of dietary oleoylethanolamide in reducing body fat gain in C3H mice.  (abst – 2010)  

Oleoylethanolamide affects food intake and sleep-waking cycle through a hypothalamic modulation.  (abst – 2010)  

Circulating endocannabinoids and N-acyl-ethanolamides in patients with sleep apnea--specific role of oleoylethanolamide.  (abst – 2010)  

From surface to nuclear receptors: the endocannabinoid family extends its assets.  (abst – 2010)  

Administration of URB597, oleoylethanolamide or palmitoylethanolamide increases waking and dopamine in rats.  (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3136458/?tool=pubmed

Sympathetic activity controls fat-induced oleoylethanolamide signaling in small intestine.  (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3084524/?tool=pubmed

Lipid transport function is the main target of oral oleoylethanolamide to reduce adiposity in high-fat-fed mice  (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3111743/?tool=pubmed

Effect of dietary krill oil supplementation on the endocannabinoidome of metabolically relevant tissues from high-fat-fed mice  (full – 2011)  
http://www.nutritionandmetabolism.com/content/8/1/51

Anandamide and its congeners inhibit human plasma butyrylcholinesterase. Possible new roles for these endocannabinoids?  (abst – 2011)  

Gut fat sensing in the negative feedback control of energy balance--recent advances.
The fatty acid amide hydrolase inhibitor URB597 exerts anti-inflammatory effects in hippocampus of aged rats and restores an age-related deficit in long-term potentiation (full – 2012)  

http://www.jneuroinflammation.com/content/9/1/79

The endocannabinoid system: an overview (full – 2012)  

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3303140/

Dynamic changes to the endocannabinoid system in models of chronic pain (full – 2012)  

http://rstb.royalsocietypublishing.org/content/367/1607/3300.full?sid=1569c370-cd5c-4358-89ff-857201f5e069

β−Amyloid exacerbates inflammation in astrocytes lacking fatty acid amide hydrolase through a mechanism involving PPAR-α, PPAR-γ and TRPV1, but not CB1 or CB2 receptors (full – 2012)  


The cytoprotective effects of oleoylethanolamide in insulin-secreting cells do not require activation of GPR119. (full – 2012)  

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3423238/

Endocannabinoids measurement in human saliva as potential biomarker of obesity. (full – 2012)  

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3409167/?tool=pubmed

Plasma Endocannabinoid Alterations in Individuals with Substance Use Disorder are Dependent on the "Mirror Effect" of Schizophrenia. (full – 2012)  

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3457074/

The endocannabinoid system in the rat dorsolateral periaqueductal grey mediates fear-conditioned analgesia and controls fear expression in the presence of nociceptive tone (full – 2012)  

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3423235/

G-Protein-Coupled Receptors in Intestinal Chemosensation (full – 2012)  


Acute Stress Increases Circulating Anandamide and Other N-Acylethanolamines in Healthy Humans (full – 2012)  

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3442338/

Targeting cannabinoid receptor CB2 in cardiovascular disorders: promises and controversies (full – 2012)  


The Volitional Nature of Nicotine Exposure Alters Anandamide and Oleoylethanolamide Levels in the Ventral Tegmental Area. (full – 2012)  

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3572454/

Temporal changes in N-acylethanolamine content and metabolism throughout the peri-adolescent period (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3510355/


Voluntary Running in Young Adult Mice Reduces Anxiety-Like Behavior and Increases the Accumulation of Bioactive Lipids in the Cerebral Cortex (full – 2013) http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0081459

Fatty Acid Modulation of the Endocannabinoid System and the Effect on Food Intake and Metabolism (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3677644/


Full Inhibition of Spinal FAAH Leads to TRPV1-Mediated Analgesic Effects in Neuropathic Rats and Possible Lipoxygenase-Mediated Remodeling of Anandamide Metabolism (full – 2013) http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0060040

Fatty acid amide hydrolase deficiency enhances intraplaque neutrophil recruitment in atherosclerotic mice. (full – 2013) http://atvb.ahajournals.org/content/33/2/215.long
The cannabinoid TRPA1 agonist cannabichromene inhibits nitric oxide production in macrophages and ameliorates murine colitis. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3632250/

The Endocannabinoid System and Sex Steroid Hormone-Dependent Cancers (full – 2013) http://www.hindawi.com/journals/ije/2013/259676/


Endocannabinoid and Cannabinoid-Like Fatty Acid Amide Levels Correlate with Pain-Related Symptoms in Patients with IBS-D and IBS-C: A Pilot Study. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3874007/

The cannabinoid TRPA1 agonist cannabichromene inhibits nitric oxide production in macrophages and ameliorates murine colitis. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3632250/


Brain Molecules and Appetite: The Case of Oleoylethanolamide (link to PDF – 2013) http://www.eurekaselect.com/107948/article

Biosynthetic Pathways of Bioactive N-Acylethanolamines in Brain (link to PDF – 2013) http://www.eurekaselect.com/107971/article


Detection of the endocannabinoid metabolome in human plasma and breast milk (abst – 2013) http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/45.8?sid=eea722c0-971c-4d9a-8b8c-38c063c19ad


Analysis of the "endocannabinoidome" in peripheral tissues of obese Zucker rats.
Mechanisms of vasorelaxation induced by oleoylethanolamide in the rat small mesenteric artery. (abst – 2013)  

Exogenous Delta9-Tetrahydrocannabinol Influences Circulating Endogenous Cannabinoids in Humans. (abst – 2013)  

The satiety signal oleoylethanolamide stimulates oxytocin neurosecretion from rat hypothalamic neurons. (abst – 2013)  

Evaluation of the insulin releasing and antihyperglycaemic activities of GPR55 lipid agonists using clonal beta-cells, isolated pancreatic islets and mice. (abst – 2013)  

Plasma Anandamide and Related N-acylethanolamide Levels are not Elevated in Pregnanies Complicated by Hyperemesis Gravidarum. (abst – 2013)  

The endocannabinoid system mediates aerobic exercise-induced antinociception in rats. (abst – 2013)  

Oleoylethanolamide reduces L-DOPA-induced dyskinesia via TRPV1 receptor in a mouse model of Parkinson’s disease. (abst – 2013)  

Brain Region-Specific Changes in N-Acylethanolamine Contents with Time of Day. (abst – 2013)  

Effects of Acute Stress on Cardiac Endocannabinoids, Lipogenesis, and Inflammation in Rats. (abst – 2013)  

The Effect of Mifepristone (RU486) on the Endocannabinoid System in Human Plasma and First Trimester Trophoblast of Women undergoing Termination of Pregnancy. (abst – 2013)  

Oleoylethanolamide enhances β-adrenergic-mediated thermogenesis and white-to-brown adipocyte phenotype in epididymal white adipose tissue in rat (full – 2014)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882055/

Antidepressants and Changes in Concentration of Endocannabinoids and N-Acylethanolamines in Rat Brain Structures. (full – 2014)  
http://download.springer.com/static/pdf/559/art%3A10.1007%252Fs12640-014-9465-0.pdf?auth66=1395868546_998a8d5d87cb02529572689ff9213e4a&ext=.pdf

Vascular targets for cannabinoids: animal and human studies. (full – 2014)  
Oleoylethanolamide: a novel potential pharmacological alternative to cannabinoid antagonists for the control of appetite  (full – 2014)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3996326/

A role for oleoylethanolamide in chronic lymphocytic leukemia  (full – 2014)
http://www.nature.com/leu/journal/v28/n7/full/leu201410a.html

Dietary Non-Esterified Oleic Acid Decreases the Jejunal Levels of Anorectic N-Acylethanolamines  (full – 2014)
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0100365


The FAAH inhibitor PF-04457845 has THC-like rewarding and reinstatement effects in squirrel monkeys and increases dopamine levels in the nucleus accumbens shell in rats  (abst – 2014) http://www.fasebj.org/content/28/1_Supplement/838.6.abstract?sid=db987fd0-3ef0-4796-aff6-4103f0c84daf

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


Omega-3 and Omega-6 Essential fatty Acids (EFA)  (infomercial/ad – undated)

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

Effect of dietary hempseed intake on cardiac ischemia-reperfusion injury. (full – 2007) http://ajpregu.physiology.org/content/292/3/R1198.long


Review of Nutritional Attributes of GOOD OIL (Cold Pressed Hemp Seed Oil) (full – 2008) http://www.goodwebsite.co.uk/kingsreport.pdf


Deficit in prepulse inhibition in mice caused by dietary n-3 fatty acid deficiency. (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2852869/

Endocannabinoids may mediate the ability of (n-3) fatty acids to reduce ectopic fat and inflammatory mediators in obese Zucker rats. (full – 2009) http://jn.nutrition.org/content/139/8/1495.long


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

Maternal Dietary Fat Determines Metabolic Profile and the Magnitude of Endocannabinoid Inhibition of the Stress Response in Neonatal Rat Offspring (full – 2010) http://endo.endojournals.org/content/151/4/1685.full?sid=f9729cff-d221-42d4-81d8-8545db5df878

Dietary docosahexaenoic acid supplementation alters select physiological endocannabinoid-system metabolites in brain and plasma (full – 2010) http://www.jlr.org/content/51/6/1416.full.pdf+html

Effect of dietary krill oil supplementation on the endocannabinoidome of metabolically relevant tissues from high-fat-fed mice (full – 2011) http://www.nutritionandmetabolism.com/content/8/1/51

Fish oil promotes survival and protects against cognitive decline in severely undernourished mice by normalizing satiety signals. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3117120/

A synaptogenic amide N-docosahexaenoylthanolamide promotes hippocampal development (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3215906/

Greasing the wheels of managing overweight and obesity with omega-3 fatty acids. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3210336/

Hepatic n-3 Polyunsaturated Fatty Acid Depletion Promotes Steatosis and Insulin Resistance in Mice: Genomic Analysis of Cellular Targets (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3154437/


Nutritional omega-3 deficiency abolishes endocannabinoid-mediated neuronal functions. Figure 1: n-3/n-6 PUFA dietary imbalance alters PUFAs level in mouse brain. (charts – 2011) http://www.nature.com/neuro/journal/v14/n3/fig_tab/nn.2736_F1.html


Omega-3 N-acylethanolamines are endogenously synthesised from omega-3 fatty acids in different human prostate and breast cancer cell lines. (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/21995886


What An Expectant Mother Eats Affects Children’s Psychology in Later Life
A Brain Wrought Without Omega-3 (news – 2011)
http://www.schizophreniaforum.org/new/detail.asp?id=1646

Poor Diet Impairs Cannabinoid Receptors (news – 2011)

Scientific research reveals brain alterations linking omega 3 deficit with depression (news – 2011)

Research provides new clues to understand link between deficits of AGPO-3, depression (news – 2011)

Why Omega-3s Affect Your Mood (news – 2011)

Functional Metabolomics Reveals Novel Active Products in the DHA Metabolome. (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3342038/?tool=pubmed

Metabolic effects of n-3 PUFA as phospholipids are superior to triglycerides in mice fed a high-fat diet: possible role of endocannabinoids. (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3372498/

Dietary linoleic acid elevates endogenous 2-AG and anandamide and induces obesity. (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3458187/

Type 2 Diabetes Associated Changes in the Plasma Non-Esterified Fatty Acids, Oxylipins and Endocannabinoids (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3493609/

Fish oil and inflammatory status alter the n-3 to n-6 balance of the endocannabinoid and oxylipin metabolomes in mouse plasma and tissues (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3483099/

Metabolic effects of n-3 PUFA as phospholipids are superior to triglycerides in mice fed a high-fat diet: possible role of endocannabinoids. (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3372498/

Searching for health beneficial n-3 and n-6 fatty acids in plant seeds. (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3380567/

N-acyl amines of docosahexaenoic acid and other n-3 polyunsaturated fatty acids – From fishy endocannabinoids to potential leads (full – 2012)
Dietary linoleic acid elevates endogenous 2-arachidonoylglycerol and anandamide in Atlantic salmon (Salmo salar L.) and mice, and induces weight gain and inflammation in mice. (full - 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3548985/

Nutritional n-3 polyunsaturated fatty acids deficiency alters cannabinoid receptor signaling pathway in the brain and associated anxiety-like behavior in mice. (abst – 2012) http://www.springerlink.com/content/ur5784gm34782505/


Effect of omega-3 polyunsaturated fatty acids on the endocannabinoid system in osteoblast-like cells and muscle (abst – 2012) http://docs.lib.purdue.edu/dissertations/AAI3444794/


Effect of dietary fat type on anxiety-like and depression-like behavior in mice (full – 2013) http://www.springerplus.com/content/2/1/165

Fatty Acid Modulation of the Endocannabinoid System and the Effect on Food Intake and Metabolism (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3677644/

Chronic treatment with krill powder reduces plasma triglyceride and anandamide levels in mildly obese men (full – 2013) http://www.lipidworld.com/content/12/1/78

Synaptamide, endocannabinoid-like derivative of docosahexaenoic acid with cannabinoid-independent function. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3541447/

Voluntary Running in Young Adult Mice Reduces Anxiety-Like Behavior and Increases the Accumulation of Bioactive Lipids in the Cerebral Cortex (full – 2013) http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0081459
Nutritional properties of dietary omega-3-enriched phospholipids.  (full – 2013)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3747496/

Association of Expanded Disability Status Scale and Cytokines after Intervention with Co-supplemented Hemp Seed, Evening Primrose Oils and Hot-natured Diet in Multiple Sclerosis Patients  (full – 2013)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3648912/

Metabolomics uncovers dietary omega-3 fatty acid-derived metabolites implicated in anti-nociceptive responses after experimental spinal cord injury.  (full – 2013)  

DHA prevents altered 5-HT1(A), 5-HT2(A), CB1 and GABA(A) receptor binding densities in the brain of male rats fed a high-saturated-fat diet.  (abst – 2013)  

Fat to treat fat: Emerging relationship between dietary PUFA, endocannabinoids, and obesity.  (abst – 2013)  

PUFA-derived endocannabinoids: an overview.  (abst – 2013)  

Endocannabinoid system as a potential mechanism for n-3 long-chain polyunsaturated fatty acid mediated cardiovascular protection.  (abst – 2013)  

Differential Modulation of Tumor Cell Proliferation and their Endocannabinoid System by Polyunsaturated Fatty Acids.  (abst – 2013)  

Acyl migration evaluation in monoacylglycerols from Echium plantagineum seed oil and Marinol.  (abst – 2013)  

Endogenous Signaling by Omega-3 Docosahexaenoic Acid-derived Mediators Sustains Homeostatic Synaptic and Circuitry Integrity.  (full – 2014)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3180614/

Modulation of Fear Memory by Dietary Polyunsaturated Fatty Acids via Cannabinoid Receptors.  (abst – 2014)  


Cannabinoid receptor antagonists and fatty acids alter endocannabinoid system gene expression and COX activity.  (abst – 2014)  

Cannabinoid-free Cannabis sativa L. grown in the Po valley: evaluation of fatty acid profile, antioxidant capacity and metabolic content.  (abst – 2014)  
Docosahexaenoic acid, G protein-coupled receptors, and melanoma: is G protein-coupled receptor 40 a potential therapeutic target? (abst – 2014)  

Cannabinoid receptor expression in femora and tibiae of C57/blk6 mice fed DHA and relationship to bone ash and BMC. (bone mineral content) (abst – 2014)  
http://www.fasebj.org/content/28/1_Supplement/1032.2.abstract?sid=467bb529-0ecc-4ddc-af27-3f56f520a102

**OMEGA-6 / ENDOCANNABINOID CONNECTION** - endocannabinoids are made from Omega 6

Exposure to a high-fat diet decreases sensitivity to Δ9-tetrahydrocannabinol-induced motor effects in female rats  (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3014410/

Hepatic n-3 Polyunsaturated Fatty Acid Depletion Promotes Steatosis and Insulin Resistance in Mice: Genomic Analysis of Cellular Targets  (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3154437/


A Summary of Endocannabinoids and Obesity (news – 2011)  

Dietary linoleic acid elevates endogenous 2-arachidonoylglycerol and anandamide in Atlantic salmon (Salmo salar L.) and mice, and induces weight gain and inflammation in mice. (full - 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3548985/

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**PEA – PALMITOYLETHANOLAMIDE** - CB 2, GPR55 & GPR119 agonist

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The search for the palmitoylethanolamide receptor. (abst – 2005)


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


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Intraganglionic injection of a nitric oxide donor induces afferent mechanical sensitization that is attenuated by palmitoylethanolamide  (abst – 2014)  http://cep.sagepub.com/content/34/9/686.abstract


PLACEBO EFFECT


VIRODHAMINE – GPR-55 & CB2 agonist; CB 1 agonist/ antagonist depending on dose

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