

Granny Storm Crow's List - January 2014

THE ENDOCANNABINOID SYSTEM

2-AG / 2-ARACHIDONOYLGLYCEROL - CB 1 agonist

Phytocannabinoids (news – undated)

<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

Endocannabinoids control spasticity in a multiple sclerosis model (full - 2000)

<http://www.fasebj.org/cgi/reprint/00-0399fjev1?maxtoshow=&hits=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)

<http://www.ncbi.nlm.nih.gov/pubmed/11106784>

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

http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Retrieve&list_uids=10785543&dopt=abstractplus

Endogenous cannabinoids and appetite. (abst – 2000)

<http://www.ncbi.nlm.nih.gov/pubmed/19087417>

Endocannabinoids and fatty acid amides in cancer, inflammation and related disorders.

(abst – 2000) <http://www.ncbi.nlm.nih.gov/pubmed/11106791>

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=&hits=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 (full - 2001) <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) <http://www.cannabis-med.org/data/pdf/2002-01-3.pdf>

Activation of PAF receptors results in enhanced synthesis of 2-arachidonoylglycerol (2-AG) in immune cells (full - 2002) <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)
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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) <http://www.ncbi.nlm.nih.gov/pubmed/12447606>

Short-term fasting and prolonged semistarvation have opposite effects on 2-AG levels in mouse brain. (abst – 2003) <http://www.ncbi.nlm.nih.gov/pubmed/12914975>

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=951f5f9d238bdf059cf30ee2be3a5a31aaf2b094>

Endogenous Cannabinoids Take the Edge off Neuroendocrine Responses to Stress (full – 2004) <http://press.endocrine.org/doi/full/10.1210/en.2004-1218>

The endocannabinoid-CB receptor system: Importance for development and in pediatric disease. (abst - 2004) <http://www.ncbi.nlm.nih.gov/pubmed/15159678>

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/>

Analgesia through endogenous cannabinoids (full - 2005)

<http://www.cmaj.ca/cgi/content/full/173/4/357?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=endocannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=date&resourcetype=HWCIT>

Cannabinoids and cancer: potential for colorectal cancer therapy. (full - 2005)

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CB1 cannabinoid receptor-mediated modulation of food intake in mice (full - 2005)

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Effects of cannabinoids on colonic muscle contractility and tension in guinea pigs.

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Reduced endocannabinoid immune modulation by a common cannabinoid 2 (CB2)

receptor gene polymorphism: possible risk for autoimmune disorders. (full – 2005)

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Up-regulation of the endocannabinoid system in the uterus of leptin knockout (ob/ob) mice and implications for fertility (full – 2005)

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Finding of endocannabinoids in human eye tissues: implications for glaucoma.

(abst – 2005) <http://www.ncbi.nlm.nih.gov/pubmed/15823551>

Fatty acid amidohydrolase in human neocortex-activity in epileptic and non-epileptic brain tissue and inhibition by putative endocannabinoids. (abst – 2005)

<http://www.ncbi.nlm.nih.gov/pubmed/15923084>

Binding affinity and agonist activity of putative endogenous cannabinoids at the human neocortical CB1 receptor (abst – 2005) <http://www.ncbi.nlm.nih.gov/pubmed/15588725>

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

Natural Cannabinoids Blunt Pain (news - 2005)
<http://www.drugfree.org/join-together/drugs/natural-cannabinoids-blunt>

Regulation, Function, and Dysregulation of Endocannabinoids in Models of Adipose and β -Pancreatic Cells and in Obesity and Hyperglycemia (full - 2006)
<http://press.endocrine.org/doi/full/10.1210/jc.2005-2679?view=long&pmid=16684820>

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

Not Too Excited? Thank Your Endocannabinoids (full - 2006)
<http://www.sciencedirect.com/science/article/pii/S0896627306005927>

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

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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>

Methods evaluating cannabinoid and endocannabinoid effects on gastrointestinal functions. (abst – 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16506408>

Endocannabinoids and beta-amyloid-induced neurotoxicity in vivo: effect of pharmacological elevation of endocannabinoid levels. (abst – 2006)
<http://www.ncbi.nlm.nih.gov/pubmed/16732431>

Human adipose tissue binds and metabolizes the endocannabinoids anandamide and 2-arachidonoylglycerol. (abst – 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16949718>

Monoacylglycerol lipase inhibition by organophosphorus compounds leads to elevation of brain 2-arachidonoylglycerol and the associated hypomotility in mice. (abst – 2006)

<http://www.ncbi.nlm.nih.gov/pubmed/16310817>

Biochemistry, pharmacology and physiology of 2-arachidonoylglycerol, an endogenous cannabinoid receptor ligand. (abst - 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16678907>

The endocannabinoid 2-AG protects the blood-brain barrier after closed head injury and inhibits mRNA expression of proinflammatory cytokines. (abst – 2006)
<http://www.ncbi.nlm.nih.gov/pubmed/16364651>

Endocannabinoids: a new family of lipid mediators involved in the regulation of neural cell development. (abst – 2006) <http://www.ncbi.nlm.nih.gov/pubmed/16787257>

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

Endocannabinoids and the haematological 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)
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(full – 2007) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2042935/?tool=pubmed>

Cannabinoid-2 receptor mediates protection against hepatic ischemia/reperfusion injury
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Endocannabinoids block status epilepticus in cultured hippocampal neurons
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Chronologically overlapping occurrences of nicotine-induced anxiety- and depression-related behavioral symptoms: effects of anxiolytic and cannabinoid drugs (full - 2007)
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[_sort=d&_docanchor=&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=9ee728e35c89b5764ef2d27c0cdf9&searchtype=a](#)

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Neuropathic Pain and Endocannabinoid-Degradation Blockade (full – 2009) <http://jpet.aspetjournals.org/content/330/3/669.1.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17>

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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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CBR - GPR119 CANNABINOID RECEPTOR - activated by PEA, OEA

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CBR - GPR158 CANNABINOID RECEPTOR

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

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