

Granny Storm Crow's List - July 2014

THE ENDOCANNABINOID SYSTEM

ABHD6/ α/β -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/>

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/>

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>

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>

Parsing the players: 2-AG synthesis and degradation in the CNS (full – 2013)
<http://onlinelibrary.wiley.com/doi/10.1111/bph.12411/full>

Selective inhibition of alpha/beta-hydrolase domain 6 attenuates neurodegeneration, alleviates blood brain barrier breakdown, and improves functional recovery in a mouse model of traumatic brain injury. (full – 2013)
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3636589/>

ABHD6 Blockade Exerts Antiepileptic Activity in PTZ-Induced Seizures and in Spontaneous Seizures in R6/2 Mice. (abst – 2014)
<http://www.ncbi.nlm.nih.gov/pubmed/25033180>

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>

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<http://www.ncbi.nlm.nih.gov/pubmed/12052046>

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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)

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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/>

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<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>

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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1576140/?tool=pmcentrez>

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)
<http://www.jleukbio.org/content/78/1/231.long>

Up-regulation of the endocannabinoid system in the uterus of leptin knockout (ob/ob) mice and implications for fertility (full – 2005)
<http://molehr.oxfordjournals.org/content/11/1/21.full>

Finding of endocannabinoids in human eye tissues: implications for glaucoma.
(abst – 2005) <http://www.ncbi.nlm.nih.gov/pubmed/15823551>

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

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Increased endocannabinoid levels reduce the development of precancerous lesions in the mouse colon (full - 2007)

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<http://www.news-medical.net/news/20140107/Synthetic-cannabinoid-molecule-created-for-osteoarthritis.aspx>

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The quest for a vascular endothelial cannabinoid receptor. (abst – 2002)
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Selective ligands and cellular effectors of a G protein-coupled endothelial cannabinoid receptor. (full – 2003) <http://molpharm.aspetjournals.org/content/63/3/699.long>

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CBR –GPR-18 CANNABINOID RECEPTOR - activated by Abnormal CBD, NAGly, O-1602, THC, Anandamide

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<http://www.jmolecularsignaling.com/content/7/1/10>

So what do we call GPR18 now? (full – 2012)
<http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2011.01731.x/full>

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N-arachidonoyl-L-serine (AraS) possesses proneurogenic properties in vitro and in vivo after traumatic brain injury. (full – 2013)
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Pharmacological regulation of insulin secretion in MIN6 cells through the fatty acid receptor GPR40: identification of agonist and antagonist small molecules. (full - 2006) <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751878/?tool=pubmed>

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<http://www.ncbi.nlm.nih.gov/pubmed/24234912>

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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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<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751869/?tool=pubmed>

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The GPR55 ligand L-alpha-lysophosphatidylinositol promotes RhoA-dependent Ca²⁺ signaling and NFAT activation. (full – 2009)

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Evidence for the Putative Cannabinoid Receptor (GPR55)-Mediated Inhibitory Effects on Intestinal Contractility in Mice. (full – 2012)
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OMEGA-3/ CB1 CONNECTION* - without Omega 3, new CB1 receptors are made imperfectly - also see NUTRITION – HEMP SEED OIL, CBR- CB1 receptors

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