The Endocannabinoid System

**ENDOCANNABINOIDS***

Cannabinoids (encyclopedia entry)  
[http://www.chemie.de/lexikon/e/Cannabinoids/](http://www.chemie.de/lexikon/e/Cannabinoids/)

Introduction to the Endocannabinoid System (news – undated)  
[http://norml.org/library/item/introduction-to-the-endocannabinoid-system](http://norml.org/library/item/introduction-to-the-endocannabinoid-system)

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

Enhanced levels of endogenous cannabinoids in the globus pallidus are associated with a reduction in movement in an animal model of Parkinson’s disease  
[full - 2000](http://www.fasebj.org/cgi/content/full/14/10/1432?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=20&sortspec=relevance&resource=HWCIT)

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&resource=HWCIT)

Sex steroid influence on cannabinoid CB(1) receptor mRNA and endocannabinoid levels in the anterior pituitary gland.  

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)

The cannabinoids: an overview. Therapeutic implications in vomiting and nausea after cancer chemotherapy, in appetite promotion, in multiple sclerosis and in neuroprotection.  

Endocannabinoids are implicated in the infarct size-reducing effect conferred by heat stress preconditioning in isolated rat hearts.  
[full – 2002](http://cardiovascres.oxfordjournals.org/content/55/3/619.long)

Endocannabinoid Degradation, Endotoxic Shock and Inflammation  
[link to PDF – 2002](http://www.eurekaselect.com/91915/article)

Never fear, cannabinoids are here  
[article - 2002](http://mcforadhd.free.fr/naturefear.pdf)
N-Acylethanolamines in human reproductive fluids. (abst – 2002)  

Endocannabinoids in the central nervous system--an overview. (abst - 2002)  

Changes in endocannabinoid contents in the brain of rats chronically exposed to nicotine, ethanol or cocaine. (abst – 2002)  

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

Endocannabinoids as mediators in the heart: a potential target for therapy of remodelling after myocardial infarction? (full - 2003)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573769/?tool=pmcentrez

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

Endocannabinoid signaling via cannabinoid receptor 1 is involved in ethanol preference and its age-dependent decline in mice (full - 2003)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC298783/?tool=pmcentrez

Cannabinoids inhibit neurodegeneration in models of multiple sclerosis (full - 2003)  
http://brain.oxfordjournals.org/cgi/content/full/126/10/2191

Endocannabinoids and the regulation of body fat: the smoke is clearing (full - 2003)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC166302/?tool=pmcentrez

Effect of maternal under-nutrition on pup body weight and hypothalamic endocannabinoid levels. (abst – 2003)  

Possible endocannabinoid control of colorectal cancer growth. (abst - 2003)  

Effects of Cannabis Therapy on Endogenous Cannabinoids (full - 2004)  

Endocannabinoids and Their Implications for Epilepsy (full - 2004)  

Endocannabinoids: Getting the message across (full - 2004)  
http://www.pnas.org/content/101/23/8512.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=2880&resourcetype=HWCIT

Involvement of cannabinoid receptors in gut motility and visceral perception (full - 2004)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574910/?tool=pmcentrez
Clinical Endocannabinoid Deficiency  (full - 2004)

Endocannabinoids Acting at Cannabinoid-1 Receptors Regulate Cardiovascular Function in Hypertension  (full - 2004)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2756479/?tool=pmcentrez

Harm reduction-the cannabis paradox  (full - 2005)
http://www.harmreductionjournal.com/content/2/1/17

Blood pressure regulation by endocannabinoids and their receptors  (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225528/?tool=pmcentrez

The endogenous cannabinoid, anandamide, induces cell death in colorectal carcinoma cells: a possible role for cyclooxygenase 2  (full - 2005)

Neural contractions in colonic strips from patients with diverticular disease: role of endocannabinoids and substance P  (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1856307/?tool=pmcentrez

The endocrinological basis of recurrent miscarriages.  (abst – 2005)

Endocannabinoids in the Regulation of Appetite and Body Weight.  (abst - 2005)

Blocking the destruction of endocannabinoids  (news – 2005)

Body's Pot-Like Chemicals May Help Curb Pain  (news - 2005)

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

Depression: URB597 increases endocannabinoids in brain  (news – 2005)
http://www.xagena.it/news/medicinenews_net_news/158388770a41292b277c199ca8d95cecf.html

Cream with endocannabinoids effective in the treatment of pruritus due to kidney disease  (news - 2005)

Endocannabinoids -- The Brain's Cannabis -- Demonstrate Novel Modes Of Action To Stress  (news - 2005)

Multiple sclerosis may disrupt endocannabinoid brain protection mechanism  (full - 2006)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1458835/?tool=pmcentrez
Migraine may be related to under production of cannabinoids (news - 2007)  

New Study Examines 'Brain's Own Marijuana'  (news - 2007)  
http://www.sciencedaily.com/releases/2007/05/070516191916.htm

Non-redundant Functions of Cyclooxygenases: Oxygenation of Endocannabinoids (full – 2008)  
http://www.jbc.org/content/283/13/8065.full

Endocannabinoids and Liver Disease. III. Endocannabinoid effects on immune cells: implications for inflammatory liver diseases  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2376822/?tool=pmcentrez

Endocannabinoids in endocrine and related tumours  (full - 2008)  
http://erc.endocrinology-journals.org/cgi/reprint/15/2/391.pdf

Cannabinoids in pancreatic cancer: Correlation with survival and pain  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC225529/?tool=pmcentrez

Endocannabinoids, blood pressure and the human heart.  (full - 2008).  
http://www3.interscience.wiley.com/cgi-bin/fulltext/119409853/HTMLSTART

Inflammation and aging: can endocannabinoids help?  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2586261/?tool=pmcentrez

Endocannabinoids and the Control of Energy Homeostasis  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219536/?tool=pmcentrez

Endocannabinoids in the retina: From marijuana to neuroprotection.  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2584875/?tool=pmcentrez

Role of cannabinoids and endocannabinoids in cerebral ischemia  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2581413/?tool=pmcentrez

Endocannabinoids and cannabinoid receptors in ischaemia–reperfusion injury and preconditioning  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219536/?tool=pmcentrez

Loss of cannabinoid receptor 1 accelerates intestinal tumor growth  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2561258/?tool=pubmed

Pain relief with cannabinoids-- the importance of endocannabinoids and cannabinoids for pain therapy  (abst - 2008)  

Dysregulation of peripheral endocannabinoid levels in hyperglycemia and obesity: Effect of high fat diets.  (abst – 2008)  

The modulatory role of endocannabinoids in sleep  (abst – 2008)  
Understanding the effects of endogenous cannabinoids (news - 2008)  

Marijuana-Inspired Painkiller? New Chemical Pathway Discovered (news - 2008)  

Selective blockade of 2-arachidonoylglycerol hydrolysis produces cannabinoid behavioral effects (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2605181/

Endocannabinoids selectively enhance sweet taste (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2605181/

Dynamic regulation of the endocannabinoid system: implications for analgesia (full - 2009)  
http://www.molecularpain.com/content/5/1/59

Endocannabinoids: Stress, Anxiety, and Fear (full - 2009)  

Cannabinoids, Endocannabinoids, and Related Analogs in Inflammation (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2664885/?tool=pubmed

Endocannabinoids and Their Receptors as Targets for Obesity Therapy (full - 2009)  
http://endo.endojournals.org/cgi/content/full/150/6/2531#top

Lipid rafts regulate 2-arachidonoylglycerol metabolism and physiological activity in the striatum (full – 2009)  

Minocycline treatment inhibits microglial activation and alters spinal levels of endocannabinoids in a rat model of neuropathic pain (full – 2009)  
http://www.molecularpain.com/content/5/1/35

Endocannabinoids and cardiovascular prevention: real progress? (abst - 2009)  
http://www.pagepress.org/journals/index.php/hi/article/view/1162

Phytocannabinoids and endocannabinoids. (abst - 2009)  

Pharmacological and therapeutic secrets of plant and brain (endo)cannabinoids. (abst - 2009)  

Cannabinoid receptors in brain: pharmacogenetics, neuropharmacology, neurotoxicology, and potential therapeutic applications. (abst - 2009)  

Endocannabinoid chemical biology: a tool for the development of novel therapies. (abst - 2009)  
http://www.unboundmedicine.com/medline/ebm/record/19457702/abstract/
From endocannabinoid profiling to 'endocannabinoid therapeutics'. (abst – 2009)  

Parasitic brain infection, endocannabinoids, and schizophrenia. (abst - 2009)  
http://www.unboundmedicine.com/medline/ebm/record/18995970/abstract/Parasitic_brain_infection_endocannabinoids_and_schizophrenia

The Endocannabinoid Anandamide: From Immunomodulation to Neuroprotection. Implications for Multiple Sclerosis (abst - 2009)  

Altered CB1 receptor and endocannabinoid levels precede motor symptom onset in a transgenic mouse model of Huntington's disease. (abst – 2009)  

Endocannabinoids, Closely Related To Active Ingredients In Cannabis Plant, Can Promote Pain (news - 2009)  

Human Brains Make Their Own 'Marijuana' (news - 2009)  

Enhanced Sweet Taste: Endocannabinoids Act Directly on Tongue Taste Receptors (news - 2009)  

Quantification of brain endocannabinoid levels: methods, interpretations and pitfalls (full – 2010)  

R-Flurbiprofen Reduces Neuropathic Pain in Rodents by Restoring Endogenous Cannabinoids (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2869361/

Endocannabinoids Are Expressed in Bone Marrow Stromal Niches and Play a Role in Interactions of Hematopoietic Stem and Progenitor Cells with the Bone Marrow Microenvironment (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2975171/?tool=pubmed

Regulation of the Hypothalamic-Pituitary-Adrenal Axis Circadian Rhythm by Endocannabinoids Is Sexually Diergic (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2964781/?tool=pmcentrez

Enhancement of endocannabinoid signaling by fatty acid amide hydrolase inhibition: a neuroprotective therapeutic modality. (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2848893/?tool=pubmed

http://www.jbc.org/content/285/49/38543.abstract
Effect of dietary fat on endocannabinoids and related mediators: consequences on energy homeostasis, inflammation and mood.  
(abst - 2010)  

Endocannabinoids are expressed in bone marrow stromal niches and play a role in interactions of hematopoietic stem and progenitor cells with the bone marrow microenvironment  
(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)  
http://www.unboundmedicine.com/medline/ebm/record/19847654/abstract/Non_CB1_non_CB2_receptors_for_endocannabinoids_plant_cannabinoids_and_synthetic_cannabimimetics:_focus_on_G_protein_coupled_receptors_and_transient_receptor_potential_channels

Cannabinoids and the immune system: an overview.  
(abst – 2010)  

Endogenous cannabinoids in liver disease: Many darts for a single target  
(abst – 2010)  

Role of the endocannabinoid system in alcoholic liver disease.  
(abst – 2010)  

Study shows direct cellular interaction between endocannabinoids and alcohol in the brain  
(news - 2010)  

Gut feelings about the endocannabinoid system  
(full – 2011)  

Dual inhibition of alpha/beta hydrolase domain 6 and fatty acid amide hydrolase increases endocannabinoid levels in neurons.  
(full – 2011)  
http://www.jbc.org/content/early/2011/06/10/jbc.M110.202853.long

Cannabinoid receptor signalling in neurodegenerative diseases: a potential role for membrane fluidity disturbance.  
(full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3165948/

Endocannabinoids in liver disease.  
(full – 2011)  

Acute Immobilization Stress Modulate GABA Release from Rat Olfactory Bulb: Involvement of Endocannabinoids—Cannabinoids and Acute Stress Modulate GABA Release  
(full – 2011)  
http://www.hindawi.com/journals/ijcb/2011/529851/

Is lipid signaling through cannabinoid 2 receptors part of a protective system?
ENOCANNABINOIDS AND TRAUMATIC BRAIN INJURY.  (abst – 2011)  

Targeting the Endocannabinoid System to Limit Myocardial and Cerebral Ischemic and Reperfusion Injury.  (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21470162/abstract/Targeting_the_Endocannabinoid_System_to_Limit_Myocardial_and_Cerebral_Ischemic_and_Reperfusion_Injury

Endocannabinoids and the cardiovascular response to stress.  (abst - 2011)  

Marijuana, endocannabinoids, and epilepsy: Potential and challenges for improved therapeutic intervention.  (abst - 2011)  

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

Endocannabinoid Signaling In Dietary Restriction And Lifespan Extension (news – 2011)  
http://www.medicalnewstoday.com/releases/225007.php

Study helps explain why fatty foods are complicit in weight gain  (news - 2011)  

Do Deficits in Brain Cannabinoids Contribute to Eating Disorders?  (news – 2011)  

Body's natural marijuana-like chemicals make fatty foods hard to resist  (news – 2011)  

Anandamide and 2-arachidonoylglycerol: Pharmacological Properties, Functional Features, and Emerging Specificities of the Two Major Endocannabinoids (full - 2012)  

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

Over-Expression of Monoacylglycerol Lipase (MGL) in Small Intestine Alters Endocannabinoid Levels and Whole Body Energy Balance, Resulting in Obesity. (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3429419/

Type 2 Diabetes Associated Changes in the Plasma Non-Esterified Fatty Acids, Oxylipins and Endocannabinoids (full – 2012)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0048852

Endocannabinoids and the processing of value-related signals.  (full – 2012)
Endocannabinoids Stimulate Human Melanogenesis via Type-1 Cannabinoid Receptor (full – 2012)  
http://www.jbc.org/content/early/2012/03/19/jbc.M111.314880.full.pdf+

Serum contents of endocannabinoids are correlated with blood pressure in depressed women. (full – 2012)  

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/

Targeting the endocannabinoid system with cannabinoid receptor agonists: pharmacological strategies and therapeutic possibilities  (abst – 2012)  

Review article: Why do cannabinoid receptors have more than one endogenous ligand? (abst - 2012)  

Endocannabinoids reduce cerebral damage after hypoxic-ischemic injury in perinatal rats. (abst – 2012)  

Endocannabinoids at the synapse a decade after the Dies Mirabilis (29 March 2001): what we still do not know. (abst – 2012)  

Inhibitors of the Endocannabinoid-Degrading Enzymes, or how to Increase Endocannabinoid's Activity by Preventing their Hydrolysis. (abst – 2012)  

Inhibiting the breakdown of endogenous opioids and cannabinoids to alleviate pain. (abst – 2012)  

Endocannabinoids limit excessive mast cell maturation and activation in human skin. (abst – 2012)  

Role of Lipid Rafts/Caveolae in the Anticancer Effect of Endocannabinoids. (abst – 2012)  

The thrifty lipids: endocannabinoids and the neural control of energy conservation. (abst – 2012)  

Essential fatty acids and lipid mediators. Endocannabinoids  (abst – 2012)  

Cannabinoid modulation of midbrain urocortin 1 neurones during acute and chronic stress. (abst – 2012)  
Photoperiodic Changes in Endocannabinoid Levels and Energetic Responses to Altered Signalling at CB1 Receptors in Siberian Hamsters (abst – 2012)

The Novel Reversible Fatty Acid Amide Hydrolase Inhibitor ST4070 Increases Endocannabinoid Brain Levels and Counteracts Neuropathic Pain in Different Animal Models (abst – 2012)
http://jpet.aspetjournals.org/content/342/1/188.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5

Prevention of Fibrosis Progression in CCl4-Treated Rats: Role of the Hepatic Endocannabinoid and Apelin Systems (abst – 2012)
http://jpet.aspetjournals.org/content/340/3/629.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5


The role of endocannabinoids in gonadal function and fertility along the evolutionary axis. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22305972

Opposing local effects of endocannabinoids on the activity of noradrenergic neurons and release of noradrenaline: relevance for their role in depression and in the actions of CB(1) receptor antagonists. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22990678


Optimized synthesis and characterization of N-acyl ethanolamines and O-acyl ethanolamines, important family of lipid-signalling molecules. (abst – 2012)  

Evidence for Bidirectional Endocannabinoid Transport across Cell Membranes (abst – 2012)  
http://www.jbc.org/content/287/41/34660.abstract?sid=ed624bcc-ed4a-490a-acb1-3497d91aecbd

Brain altering drug calms fears also (news – 2012)  

Cannabinoids, like those found in marijuana, occur naturally in human breast milk (news – 2012)  
http://www.naturalnews.com/036526_cannabinoids_breast_milk_THC.html

Do deficits in brain cannabinoids contribute to eating disorders? (news – 2012)  

Role of endocannabinoids and cannabinoid-1 receptors in cerebrocortical blood flow regulation. (full – 2013)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3537620/

A biophysical model of endocannabinoid-mediated short term depression in hippocampal inhibition. (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0058926

Epigenetic mechanisms and endocannabinoid signaling (full – 2013)  

Signaling Pathways Involved in Striatal Synaptic Plasticity are Sensitive to Temporal Pattern and Exhibit Spatial Specificity. (full – 2013)  
http://www.ploscompbiol.org/article/info%3Adoi%2F10.1371%2Fjournal.pcbi.1002953

Metabolisms of endocannabinoids and related N-acyl ethanolamines: Canonical and alternate pathways (full – 2013)  

Surfing the (endo)cannabinoids wave. (full – 2013)  

Plasma concentrations of endocannabinoids and related primary Fatty Acid amides in patients with post-traumatic stress disorder. (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0062741

Differential modulation of nociceptive versus non-nociceptive synapses by endocannabinoids. (full – 2013)  

GPR55 and its interaction with membrane lipids: comparison with other endocannabinoid-binding receptors. (link to PDF - 2013)  
http://www.eurekaselect.com/105678/article


Insulin induces long-term depression of ventral tegmental area dopamine neurons via endocannabinoids (abst – 2013)  http://www.nature.com/neuro/journal/vaop/ncurrent/full/nn.3321.html


A new strategy to block tumor angiogenesis by inhibiting endocannabinoid inactivation (abst – 2013) http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1105.6?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

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-4daa-8b8c-38c0c63c19ad

In search of endocannabinoid degradation enzymes inhibitors in nutmeg (abst – 2013) http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1097.5?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

Endocannabinoid signaling in the gut mediates preference for dietary unsaturated fats (abst – 2013) http://www.fasebj.org/content/early/2013/03/05/fj.13-227587.abstract?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad


Cannabinoid receptor modulation of the endothelial cell inflammatory response (abst – 2013) http://www.jimmunol.org/cgi/content/meeting_abstract/190/1_MeetingAbstracts/112.29?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf


GPR55 and its Interaction with Membrane Lipids: Comparison with Other Endocannabinoid-Binding Receptors (abst – 2013) http://www.eurekaselect.com/105678/article

Orexin neurons use endocannabinoids to break obesity-induced inhibition (abst – 2013) http://www.pnas.org/content/110/24/9625.extract?sid=9072cbaa-20ba-484f-86cc-00052ffe8339


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

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


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://ipet.aspetjournals.org/content/294/1/27.long


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=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=560&resourcetype=HWCT

Inhibition of Rat C6 Glioma Cell Proliferation by Endogenous and Synthetic Cannabinoids. Relative Involvement of Cannabinoid and Vanilloid Receptors (full - 2001)  
http://ipet.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)  

The neurobiology and evolution of cannabinoid signalling (abst – 2001)  
http://rstb.royalsocietypublishing.org/content/356/1407/381.abstract?jikey=3aad97283bf56bae0ada89fe6c25ef27a702e9ba&keytype2=tf_ipsecsha

An endogenous cannabinoid (2-AG) is neuroprotective after brain injury. (abst - 2001)  

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 (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=HWCT

The potent emetogenic effects of the endocannabinoid, 2-AG (2-arachidonoylglycerol) are blocked by delta(9)-tetrahydrocannabinol and other cannabinoids. (full – 2002)  
http://ipet.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


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


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


2-Arachidonoylglycerol A Novel Inhibitor of Androgen-Independent Prostate Cancer Cell Invasion  (full - 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/

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

The endocannabinoid 2-AG protects the blood-brain barrier after closed head injury and inhibits mRNA expression of proinflammatory cytokines. (abst - 2005) http://lib.bioinfo.pl/pmid:16364651


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

Regulation, Function, and Dysregulation of Endocannabinoids in Models of Adipose and β-Pancreatic Cells and in Obesity and Hyperglycemia (full - 2006) http://jcem.endojournals.org/cgi/content/full/91/8/3171?ijkey=83a68c9202eafe129332eda53eee8eb61349982


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

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)
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&_origin=gateway&_sort=d&_docanchor=&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=9ee728e35c89b5764ef2d27c0cedfe9&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) http://www.jleukbio.org/cgi/content/full/82/6/1390?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=880&resourcetype=HWCIT

In Vitro Anticonvulsant Action of 2-Arachidonyl Glycerol (abst – 2007) http://www.doaj.org/doaj?func=abstract&id=463469&q1=anandamide&f1=all&b1=and&q2=&f2=all&recNo=29&uiLanguage=en


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&RESULTFORMATT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT

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

Role of activated endocannabinoid system in regulation of cellular cholesterol metabolism in macrophages  (full – 2008)
http://cardiovascres.oxfordjournals.org/content/81/4/805.full?sid=7d2438c4-a727-410f-870d-4a971695b4fb

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

Endocannabinoids and nutrition.  (full – 2008)

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

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


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


Endocannabinoids and nutrition.  (full – 2008)

Increased endocannabinoid levels reduce the development of precancerous lesions in the mouse colon.  (full – 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2755791/?tool=pubmed


Endocannabinoids and cannabinoid analogues block cardiac hKv1.5 channels in a cannabinoid receptor-independent manner (full – 2009) http://cardiovascres.oxfordjournals.org/content/85/1/56.full?sid=7d2438c4-a727-410f-870d-4a971695b4fb

Changes in the Endocannabinoid System May Give Insight into new and Effective Treatments for Cancer (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2791688/?tool=pmcentrez

Endocannabinoids and Their Receptors as Targets for Obesity Therapy (full - 2009) http://endo.endojournals.org/cgi/content/full/150/6/2531#top

Endocannabinoid-mediated control of synaptic transmission. (full – 2009) http://physrev.physiology.org/content/89/1/309.long


Selective blockade of 2-arachidonoylglycerol hydrolysis produces cannabinoid behavioral effects (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2605181/
Neuropathic Pain and Endocannabinoid-Degradation Blockade  (full – 2009)
http://jpet.aspetjournals.org/content/330/3/669.1.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17

Blockade of endocannabinoid-degrading enzymes attenuates neuropathic pain.  (full - 2009)
http://jpet.aspetjournals.org/content/330/3/902.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17

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

Minocycline treatment inhibits microglial activation and alters spinal levels of endocannabinoids in a rat model of neuropathic pain  (full – 2009)
http://www.molecularpain.com/content/5/1/35

From endocannabinoid profiling to 'endocannabinoid therapeutics'.  (abst – 2009)

Circulating endocannabinoid concentrations during orthostatic stress  (abst – 2009)
www.ncbi.nlm.nih.gov/pubmed/19756829

The endocannabinoid 2-arachidonoylglycerol promotes sperm development through activation of cannabinoid-2 receptors  (abst – 2009)


International Union of Basic and Clinical Pharmacology. LXXIX. Cannabinoid Receptors and Their Ligands: Beyond CB1 and CB2  (full – 2010)
http://pharmrev.aspetjournals.org/content/62/4/588.full.pdf+html

Enhancement of endocannabinoid signaling by fatty acid amide hydrolase inhibition: a neuroprotective therapeutic modality.  (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2848893/?tool=pubmed

Abnormal mGlur 5 receptor/endocannabinoid coupling in mice lacking FMRP and BC1 RNA.  (full – 2010)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3055456/


Antitumorigenic Effects of Cannabinoids beyond Apoptosis  (full - 2010)
http://jpet.aspetjournals.org/content/332/2/336.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17

Endocannabinoid Overload  (full – 2010)
http://molpharm.aspetjournals.org/content/78/6/993.full
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=f9729c6f-d221-42d4-81d8-8545db5df878

Cyclooxygenase-2 Mediates Anandamide Metabolism in the Mouse Brain (full – 2010)  
http://jpet.aspetjournals.org/content/335/2/380.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17

Cannabinoid Receptors as Target for Treatment of Osteoporosis: A Tale of Two Therapies (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3001217/?tool=pubmed

Differential alterations of the concentrations of endocannabinoids and related lipids in the subcutaneous adipose tissue of obese diabetic patients (full - 2010)  
http://www.lipidworld.com/content/9/1/43

Cannabinoid-mediated inhibition of recurrent excitatory circuitry in the dentate gyrus in a mouse model of temporal lobe epilepsy. (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2871782/?tool=pubmed

Quantification of brain endocannabinoid levels: methods, interpretations and pitfalls (full – 2010)  

Energetic Metabolism and Human Sperm Motility: Impact of CB1 Receptor Activation (full – 2010)  
http://endo.endojournals.org/content/151/12/5882.full

Endogenous cannabinoid signaling is essential for stress adaptation (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2889099/?tool=pmcentrez

Endocannabinoid signalling: has it got rhythm? (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931554/?tool=pubmed

The endocannabinoid 2-arachidonoyl-glycerol controls odor sensitivity in larvae of Xenopus laevis. (full – 2010)  
http://www.jneurosci.org/content/30/26/8965.long

Differential alterations of the concentrations of endocannabinoids and related lipids in the subcutaneous adipose tissue of obese diabetic patients. (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2868848/?tool=pubmed

The endocannabinoid system as a target for the treatment of neurodegenerative disease (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931550/?tool=pubmed

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

A model of endocannabinoid 2-AG-mediated depolarization-induced suppression of inhibition (article – 2010)  
http://www.biomedcentral.com/1471-2202/11/S1/P189
From Fertilisation to Implantation in Mammalian Pregnancy—Modulation of Early Human Reproduction by the Endocannabinoid System       (link to PDF – 2010)

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

The endocannabinoid 2-arachidonoylglycerol reduces lesion expansion and white matter damage after spinal cord injury.       (abst - 2010)


http://www.unboundmedicine.com/medline/ebm/record/20512266/abstract/%5BPharmacological_exploitation_of_the_endocannabinoid_system:_new_perspectives_for_the_treatment_of_depression_and_anxiety_disorders%5D

The serine hydrolase ABHD6 controls the accumulation and efficacy of 2-AG at cannabinoid receptors       (abst – 2010)
http://www.nature.com/neuro/journal/v13/n8/full/nn.2601.html


Endogenous cannabinoids in liver disease: Many darts for a single target       (abst – 2010)


Receptors triggered by pot may lessen hit from chronic stress       (news – 2010)

Painkilling System in Brain: Too Much of a Good Thing?       (news - 2010)

Drugs that reduce activity of ABDH6 enzyme can prevent brain damage: Study       (news – 2010)

Newly discovered mechanism controls levels and efficacy of a marijuana-like substance in the brain       (news – 2010)
The endocannabinoid system and cancer: therapeutic implication (full – 2011)

Mutations in ABHD12 cause the neurodegenerative disease PHARC: An inborn error of endocannabinoid metabolism. (full – 2011)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2933347/?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

The activity of the endocannabinoid metabolising enzyme fatty acid amide hydrolase in subcutaneous adipocytes correlates with BMI in metabolically healthy humans (full – 2011)
http://www.lipidworld.com/content/10/1/129

Krill oil significantly decreases 2-arachidonoylglycerol plasma levels in obese subjects. (full – 2011)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3048484/?tool=pubmed

Targeting the CB2 cannabinoid receptor in osteoporosis (full – 2011)
http://www.expert-reviews.com/doi/full/10.1586/eem.11.2?prevSearch=Keyword%253A%2522cannabinoi%2529&searchHistoryKey=

The serine hydrolases MAGL, ABHD6 and ABHD12 as guardians of 2-arachidonoylglycerol signalling through cannabinoid receptors (full – 2011)

Dual inhibition of alpha/beta hydrolase domain 6 and fatty acid amide hydrolase increases endocannabinoid levels in neurons. (full – 2011)
http://www.jbc.org/content/early/2011/06/10/jbc.M110.202853.long

Increasing endogenous 2-arachidonoylglycerol levels counteracts colitis and related systemic inflammation. (full – 2011)
http://www.fasebj.org/content/25/8/2711.long

Protective Role of Cannabinoid Receptor Type 2 in a Mouse Model of Diabetic Nephropathy. (full – 2011)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3161308/

Cannabinoid exposure during zebra finch sensorimotor vocal learning persistently alters expression of endocannabinoid signaling elements and acute agonist responsiveness (full – 2011)
http://www.biomedcentral.com/1471-2202/12/3

Cannabinoid Receptor 2 Is Critical for the Homing and Retention of Marginal Zone B Lineage Cells and for Efficient T-Independent Immune Responses (full – 2011)
http://www.jimmunol.org/content/187/11/5720.full.pdf+html

Endogenous Cannabinoid Production in the Rat Female Reproductive Tract Is Regulated by Changes in the Hormonal Milieu (link to PDF – 2011)
The Endogenous Cannabinoid 2-Arachidonoylglycerol Is Intravenously Self-Administered by Squirrel Monkeys (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21562266/abstract/The_Endogenous_Cannabinoid_2_Arachidonoylglycerol_Is_Intravenously_Self_Administered_by_Squirrel_Monkeys

Effect of capacitation on the endocannabinoid system of mouse sperm. (abst – 2011)  

Chemoenzymatic synthesis of 2-arachidonoylglycerol, an endogenous ligand for cannabinoid receptors (abst – 2011)  

Administration of 2-arachidonoylglycerol ameliorates both acute and chronic Experimental Autoimmune Encephalomyelitis (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21406188/abstract/Administration_of_2_arachidonoylglycerol_ameliorates_both_acute_and_chronic_Experimental_Autoimmune_Encephalomyelitis

The Effect of Hypoxia on G Protein Coupled (CB1) Receptor Gene Expression in Cortical B50 Neurons in Culture (abst – 2011)  
http://www.maxwellsci.com/jp/abstract.php?jid=BJPT&no=92&abs=05

Endocannabinoid 2-arachidonoylglycerol protects neurons against β-amyloid insults. (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21256197/abstract/Endocannabinoid_2_arachidonoylglycerol_protects_neurons_against_%CE%B2_amyloid_insults

Alteration of the Endocannabinoid System In Mouse Brain During Prion Disease. (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21195746/abstract/Alteration_of_the_Endocannabinoid_System_In_Mouse_Brain_During_Prion_Disease

Cannabinoid receptor 2 positions and retains marginal zone B cells within the splenic marginal zone. (abst – 2011)  

The endocannabinoid system in the cancer therapy: an overview. (abst – 2011)  

The major central endocannabinoid directly acts at GABA(A) receptors. (abst – 2011)  

2-Arachidonoylglycerol (2-AG) Induces Corneal Epithelial Cell Migration via Cannabinoid CB1 Receptors (abst – 2011)  
http://abstracts.iovs.org/cgi/content/abstract/52/6/1995?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcetype=HWCIT

Fish oil promotes survival and protects against cognitive decline in severely undernourished mice by normalizing satiety signals. (abst – 2011)
Increment of hypothalamic 2-arachidonoylglycerol induces the preference for a high-fat diet via activation of cannabinoid 1 receptors (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/20817042/abstract/Increment_of_hypothalamic_2-arachidonoylglycerol_induces_the_preference_for_a_high_fat_diet_via_activation_of_cannabinoid_1_receptors

Endogenously generated 2-arachidonoylglycerol plays an inhibitory role in bombesin-induced activation of central adrenomedullary outflow in rats. (abst – 2011)  

Endocannabinoid CB1 receptors modulate visual output from the thalamus. (abst – 2011)  

Omega-3 N-acylethanolamines are endogenously synthesised from omega-3 fatty acids in different human prostate and breast cancer cell lines. (abst – 2011)  

The endocannabinoid system in the cancer therapy: an overview. (abst – 2011)  

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

Inhibition of endocannabinoid catabolic enzymes elicits anxiolytic-like effects in the marble burying assay. (abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21145341/abstract/Inhibition_of_endocannabinoid_catabolic_enzymes_elicits_anxiolytic_like_effects_in_the_marble_burying_assay

Cannabinoid-2 Receptor Activation Protects against Infarct and Ischemia/Reperfusion Heart Injury. (abst – 2011)  

Effect of an Acute Consumption of a Moderate Amount of Ethanol on Plasma Endocannabinoid Levels in Humans (abst – 2011)  
http://alcalc.oxfordjournals.org/content/47/3/226.short?rss=1

Intense exercise increases circulating endocannabinoid and BDNF levels in humans—Possible implications for reward and depression (abst – 2011)  
http://www.psyneuen-journal.com/article/PIIS0306453011002873/abstract?rss=yes

New metabolic pathway for controlling brain inflammation (news – 2011)  

Anandamide and 2-arachidonoylglycerol: Pharmacological Properties, Functional Features, and Emerging Specificities of the Two Major Endocannabinoids (full - 2012)  
Dietary linoleic acid elevates endogenous 2-AG and anandamide and induces obesity. (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3458187/

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


The role of CB2 receptor ligands in human eosinophil function (full – 2012)  http://www.biomedcentral.com/content/pdf/2050-6511-13-S1-A13.pdf

Endocannabinoids Stimulate Human Melanogenesis via Type-1 Cannabinoid Receptor (full – 2012)  http://www.jbc.org/content/early/2012/03/19/jbc.M111.314880.full.pdf+html


Cannabinoid Receptor Type 1 (CB1) Activation Inhibits Small GTPase RhoA Activity and Regulates Motility of Prostate Carcinoma Cells (full – 2012)  http://endo.endojournals.org/content/153/1/29.full


Role of cannabinoids in the regulation of bone remodeling (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3499879/

Angiotensin II induces vascular endocannabinoid release, which attenuates its vasoconstrictor effect via CB1 cannabinoid receptors. (full – 2012)  http://www.jbc.org/content/early/2012/07/11/jbc.M112.346296.full.pdf+html

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/

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/

Review article: Endocannabinoids in neuroendopsychology: multiphasic control of mitochondrial function  (full – 2012)  
http://rspb.royalsocietypublishing.org/content/367/1607/3342.full?sid=dd42995f-c629-4f8c-86a0-5e962e352fda

The antinociceptive triterpene β-amyrin inhibits 2-arachidonoylglycerol (2-AG) hydrolysis without directly targeting CB receptors.  (full – 2012)  

Early Endogenous Activation of CB1 and CB2 Receptors after Spinal Cord Injury Is a Protective Response Involved in Spontaneous Recovery  (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3496738/

So what do we call GPR18 now?  (full – 2012)  

Diet-dependent modulation of hippocampal expression of endocannabinoid signaling-related proteins in cannabinoid antagonist-treated obese rats.  (full – 2012)  

GPR18 in microglia: implications for the CNS and endocannabinoid system signaling  (full – 2012)  

Differences in the endocannabinoid system of sperm from fertile and infertile men.  (full – 2012)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0047704

A Dysregulated Endocannabinoid-Eicosanoid Network Supports Pathogenesis in a Mouse Model of Alzheimer's Disease  (full – 2012)  
http://download.cell.com/cell-reports/mmcs/journals/2211-1247/PIIS2211124712001258.mmc2.pdf

Monoacylglycerol lipase is a new therapeutic target for Alzheimer’s disease  (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3513645/

The dynamic nature of type 1 cannabinoid receptor (CB1) gene transcription  (full – 2012)  

Uncoupling of the endocannabinoid signalling complex in a mouse model of fragile X syndrome  (full – 2012)  
http://www.nature.com/ncomms/journal/v3/n9/full/ncomms2045.html

Targeted next-generation sequencing identifies a homozygous nonsense mutation in ABHD12, the gene underlying PHARC, in a family clinically diagnosed with Usher syndrome type 3  (full – 2012)  
http://www.ojrd.com/content/7/1/59
Spinal administration of the monoacylglycerol lipase inhibitor JZL184 produces robust inhibitory effects on nociceptive processing and the development of central sensitization in the rat (full – 2012)  

Autocrine Endocannabinoid Signaling Through CB1 Receptors Potentiates OX1 Orexin Receptor Signaling. (full – 2012)  
http://molpharm.aspetjournals.org/content/early/2012/12/11/mol.112.080523.long

The effects of peptide and lipid endocannabinoids on arthritic pain at the spinal level. (full – 2012)  
http://www.anesthesia-analgesia.org/content/early/2012/03/26/ANE.0b013e31824c4eeb.full.pdf

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

Bidirectional regulation of endocannabinoid signaling in the amygdala contributes to activation and adaptation of the stress response (link to PDF – 2012)  
http://www.doaj.org/doaj?func=abstract&id=1152480&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=4&uiLanguage=en

Critical role of the endocannabinoid system in mediating rapid glucocorticoid effects on memory for emotionally arousing experiences (link to PDF - 2012)  
http://www.doaj.org/doaj?func=abstract&id=1152481&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=3&uiLanguage=en

Endocannabinoids in stressed humans (link to PDF – 2012)  
http://www.doaj.org/doaj?func=abstract&id=1152482&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=2&uiLanguage=en

Glucocorticoid-endocannabinoid interaction in cardiac surgical patients: relationship to early cognitive dysfunction and late depression (abst – 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. (abst - 2012)  

Activation of Type 5 Metabotropic Glutamate Receptors and Diacylglycerol Lipase-α Initiates 2-Arachidonoylglycerol Formation and Endocannabinoid-Mediated Analgesia. (abst – 2012)  


Dynamic changes to the endocannabinoid system in models of chronic pain (abst – 2012)  
Modulation of neuropathic-pain-related behaviour by the spinal endocannabinoid/endovanilloid system (abst – 2012)  

Review article: Why do cannabinoid receptors have more than one endogenous ligand? (abst - 2012)  

Review article: The endocannabinoid system in normal and pathological brain ageing (abst – 2012)  

The endocannabinoid, anandamide, augments Notch-1 signaling in cultured cortical neurons exposed to amyloid-β and in the cortex of aged rats. (abst – 2012)  

Endocannabinoids at the synapse a decade after the Dies Mirabilis (29 March 2001): what we still do not know. (abst – 2012)  

Inhibitors of the Endocannabinoid-Degradating Enzymes, or how to Increase Endocannabinoid's Activity by Preventing their Hydrolysis. (abst – 2012)  

Effect of an Acute Consumption of a Moderate Amount of Ethanol on Plasma Endocannabinoid Levels in Humans. (abst – 2012)  

Equipotent Inhibition of Fatty Acid Amide Hydrolase and Monoacylglycerol Lipase - Dual Targets of the Endocannabinoid System to Protect against Seizure Pathology. (abst – 2012)  

Alteration of endocannabinoid system in human gliomas. (abst – 2012)  

Dual inhibition of MAGL and type II topoisomerase by N-phenylmaleimides as a potential strategy to reduce neuroblastoma cell growth. (abst – 2012)  


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/

Effects of Peptide and Lipid Endocannabinoids on Arthritic Pain at Spinal Level. (abst – 2012)  


Long-lasting potentiation of hippocampal synaptic transmission by direct cortical input is mediated via endocannabinoids (abst – 2012)  http://jp.physoc.org/content/590/10/2305.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=105&sortspec=date&resourcetype=HWCIT


The endocannabinoid 2-arachidonoylglycerol decreases calcium induced cytochrome c release from liver mitochondria. (abst – 2012)  http://www.springerlink.com/content/54jm40088728t0pn/


The Novel Reversible Fatty Acid Amide Hydrolase Inhibitor ST4070 Increases Endocannabinoid Brain Levels and Counteracts Neuropathic Pain in Different Animal Models (abst – 2012)  http://jpet.aspetjournals.org/content/342/1/188.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5


Endocannabinoids alleviate proinflammatory conditions by modulating innate immune response in muller glia during inflammation. (abst – 2012)

The Endocannabinoid System and the Brain. (abst – 2012)


Opposing local effects of endocannabinoids on the activity of noradrenergic neurons and release of noradrenaline: relevance for their role in depression and in the actions of CB(1) receptor antagonists. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22990678


Alterations in endocannabinoid tone following chemotherapy-induced peripheral neuropathy: effects of endocannabinoid deactivation inhibitors targeting fatty-acid amide
hydrolase and monoacylglycerol lipase in comparison to reference analgesics following cisplatin treatment.  (abst – 2012)  

2-Arachidonoyl-glycerol- and arachidonic acid-stimulated neutrophils release antimicrobial effectors against E. coli, S. aureus, HSV-1, and RSV.  (abst – 2012)  

The evolution and comparative neurobiology of endocannabinoid signaling  
(abst – 2012)  

The role of endocannabinoids in gonadal function and fertility along the evolutionary axis.  (abst – 2012)  

The endocannabinoid system in inflammatory bowel diseases: from pathophysiology to therapeutic opportunity.  (abst – 2012)  

Multiple functions of endocannabinoid signaling in the brain.  (abst – 2012)  

Antiepileptic action of N-palmitoylethanolamine through CB1 and PPAR-α receptor activation in a genetic model of absence epilepsy.  (abst – 2012)  

The FAAH inhibitor URB597 efficiently reduces tyrosine hydroxylase expression through CB1 and FAAH-independent mechanisms  (abst – 2012)  

Cortisol-mediated adhesion of synovial fibroblasts is dependent on the degradation of anandamide and activation of the endocannabinoid system  (abst - 2012)  

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

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

Hind limb suspension and long-chain omega-3 PUFA increase mRNA endocannabinoid system levels in skeletal muscle.  (abst – 2012)  

Evidence for Bidirectional Endocannabinoid Transport across Cell Membranes  
(abst – 2012)  
http://www.jbc.org/content/287/41/34660.abstract?sid=ed624bcc-ed4a-490a-acb1-3497d91aecbd


Marijuana-like brain chemicals could be key to treating fragile X syndrome (news – 2012) http://www.empowher.com/wellness/content/marijuana-brain-chemicals-could-be-key-treating-fragile-x-syndrome?page=0,2


Intrinsic Up-Regulation of 2-AG Favors an Area Specific Neuronal Survival in Different In Vitro Models of Neuronal Damage. (full – 2013) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3527460/


Plasma concentrations of endocannabinoids and related primary Fatty Acid amides in patients with post-traumatic stress disorder. (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0062741

Differential modulation of nociceptive versus non-nociceptive synapses by endocannabinoids. (full – 2013)  

Modulation of the Endocannabinoids N-Arachidonylethanolamine (AEA) and 2-Arachidonoylglycerol (2-AG) on Executive Functions in Humans (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0066387

Hypothalamic 2-Arachidonoylglycerol Regulates Multistage Process of High-Fat Diet Preferences (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0038609

The endocannabinoid system provides an avenue for evidence-based treatment development for PTSD. (1st page – 2013)  

Aging modifies the enzymatic activities involved in 2-arachidonoylglycerol metabolism. (abst – 2013)  

Involvement of nitric oxide through endocannabinoids release in microglia activation during the course of CNS regeneration in the medicinal leech. (abst – 2013)  

Taste sensitivity to 6-n-propylthiouracil is associated with endocannabinoid plasma levels in normal-weight individuals. (abst – 2013)  

The cannabinoid TRPA1 agonist cannabichromene inhibits nitric oxide production in macrophages and ameliorates murine colitis. (abst – 2013)  

Nicotine-Induced Neuroprotection Against Ischemic Injury Involves Activation of Endocannabinoid System in Rats (abst – 2013)  

Stimulatory and Inhibitory Roles of Brain 2-Arachidonoylglycerol in Bombesin-Induced Central Activation of Adrenomedullary Outflow in Rats. (abst – 2013)  
(4-Phenoxyphenyl)tetrazolecarboxamides and related compounds as dual inhibitors of fatty acid amide hydrolase (FAAH) and monoacylglycerol lipase (MAGL). (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23455058


2-AG into the lateral hypothalamus increases REM sleep and cFos expression in melanin concentrating hormone neurons in rats. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23603032


Impact of omega-6 polyunsaturated fatty acid supplementation and γ-aminobutyric acid on astrogliogenesis through the endocannabinoid system. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23633391


2-Arachidonoyl-glycerol- and arachidonic acid-stimulated neutrophils release antimicrobial effectors against E. coli, S. aureus, HSV-1, and RSV (abst – 2013) http://www.jleukbio.org/content/93/2/267.abstract?sid=12e79d54-84b5-4660-bb37-ccd3d985d726


Fatty acid amide hydrolase but not monoacyl glycerol lipase controls cell death induced by the endocannabinoid 2-arachidonoyl glycerol in hepatic cell populations. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23806692


CB1 cannabinoid receptor expressed in enteroendocrine cells mediates food intake in mice (abst – 2013) http://edrv.endojournals.org/cgi/content/meeting_abstract/34/03_MeetingAbstracts/SAT-659?sid=89628f3e-b2f1-448c-b0df-984f390dfff2

Circadian rhythm of circulating endocannabinoid (EC), 2-arachidonoylglycerol (2-AG), concentrations following normal and restricted sleep (abst – 2013) http://edrv.endojournals.org/cgi/content/meeting_abstract/34/03_MeetingAbstracts/OR09-1?sid=89628f3e-b2f1-448c-b0df-984f390dfff2

Obesity-driven synaptic remodeling affects endocannabinoid control of orexinergic neurons (abst – 2013) http://www.pnas.org/content/110/24/E2229.abstract?sid=9072ebaa-20ba-484f-86cc-00052ffee8339


Too little sleep may trigger the 'munchies' by raising levels of an appetite-controlling molecule  (news – 2013)  http://www.sciencecodex.com/too_little_sleep_may_trigger_the_munchies_by_raising_levels_of_an_appetitecontrolling_molecule-114190

New inhibitors of elusive enzymes promise to be valuable scientific tools  (news – 2013)  http://www.sciencecodex.com/new_inhibitors_of_elusive_enzymes_promise_to_be_valuable_scientific_tools-101232

2-AGE/ 2-ARACHIDONYL GLYCERYL ETHER/ NOLADIN ETHER
endocannabinoid, CB 1 & 2 agonist

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

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

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

Endocannabinoid Degradation, Endotoxic Shock and Inflammation (link to PDF – 2002)  http://www.eurekaselect.com/91915/article


The endocannabinoid noladin ether acts as a full agonist at human CB2 cannabinoid receptors.  (full – 2005)  http://jpet.aspetjournals.org/content/314/2/868.long

Effects of the endocannabinoid noladin ether on body weight, food consumption, locomotor activity, and cognitive index in mice.  (abst – 2005)
Noladin ether acts on trabecular meshwork cannabinoid (CB1) receptors to enhance aqueous humor outflow facility. (full – 2006) http://www.iovs.org/content/47/5/1999.long


Alterations in the hippocampal endocannabinoid system in diet-induced obese mice. (full – 2010) http://www.jneurosci.org/content/30/18/6273.long


Anti-proliferative Effect of a Putative Endocannabinoid, 2-Arachidonyleglycerol Ether in Prostate Carcinoma Cells (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3039283/?tool=pmcentrez

Noladin ether, a putative endocannabinoid, enhances motivation to eat after acute systemic administration in rats. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3402806/


ANANDAMIDE / AEA / N-ARACHIDONOYLETHANOLAMINE – CB 1 & 2 agonist

Phytocannabinoids (news – undated) http://www.news-medical.net/health/Phytocannabinoids.aspx
Anandamide Induces Apoptosis in Human Cells via Vanilloid Receptors (full - 2000)  
http://www.jbc.org/content/275/41/31938.full

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

Suppression of Nerve Growth Factor Trk Receptors and Prolactin Receptors by Endocannabinoids Leads to Inhibition of Human Breast and Prostate Cancer Cell Proliferation (full - 2000)  
http://endo.endojournals.org/cgi/content/full/141/1/118

Effects of cannabinoid receptor agonists on neuronally-evoked contractions of urinary bladder tissues isolated from rat, mouse, pig, dog, monkey and human (full - 2000)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1571997/?tool=pmcentrez

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

Low dose anandamide affects food intake, cognitive function, neurotransmitter and corticosterone levels in diet-restricted mice. (abst – 2000)  

Endogenous cannabinoids and appetite. (abst – 2000)  

Anandamide and diet: inclusion of dietary arachidonate and docosahexaenoate leads to increased brain levels of the corresponding N-acylethanolamines in piglets. (full – 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC33480/?tool=pubmed

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

Endocannabinoids are implicated in the infarct size-reducing effect conferred by heat stress preconditioning in isolated rat hearts (full – 2001)  

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

Exogenous anandamide protects rat brain against acute neuronal injury in vivo. (full – 2001)  
http://www.jneurosci.org/content/21/22/8765.long

Anandamide administration into the ventromedial hypothalamus stimulates appetite in rats (full - 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573067/?tool=pmcentrez
Palmitoylethanolamide inhibits the expression of fatty acid amide hydrolase and enhances the anti-proliferative effect of anandamide in human breast cancer cells (full - 2001)  

Mechanisms of anandamide-induced vasorelaxation in rat isolated coronary arteries (full - 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573021/?tool=pmcentrez

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

Anandamide activates peripheral nociceptors in normal and arthritic rat knee joints (full - 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1572613/?tool=pmcentrez

Supersensitivity to anandamide and enhanced endogenous cannabinoid signaling in mice lacking fatty acid amide hydrolase (full - 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC55427/?tool=pubmed

Administration of Endocannabinoids Prevents a Referred Hyperalgesia Associated With Inflammation of the Urinary Bladder (full – 2001)  

Leptin-regulated endocannabinoids are involved in maintaining food intake (letter – 2001)  

The neurobiology and evolution of cannabinoid signalling (abst – 2001)  
http://rstb.royalsocietypublishing.org/content/356/1407/381.abstract?ijkey=3aad97283bf56bae0ada89fe6c25ef27a702e9ba&keytype2=tf_ipsecsha

Endogenous cannabinoid anandamide increases heart resistance to arrhythmogenic effects of epinephrine: role of CB(1) and CB(2) receptors. (abst - 2001)  

The Central Cannabinoid Receptor Inactivation Suppresses Endocrine Reproductive Functions. (abst – 2001)  

Quantification of anandamide content in animal cells and tissues: the normalization makes the difference (full - 2002)  
http://www.lipidworld.com/content/1/1/4

Endocannabinoid Degradation, Endotoxic Shock and Inflammation (link to PDF – 2002)  
http://www.eurekaselect.com/91915/article

Sourcing the Code: Searching for the Evolutionary Origins of Cannabinoid Receptors, Vanilloid Receptors, and Anandamide (full – 2002)
Estrogen stimulates arachidonylethanolamide release from human endothelial cells and platelet activation  (full – 2002)
http://bloodjournal.hematologylibrary.org/content/100/12/4040.full

Targeting CB2 cannabinoid receptors as a novel therapy to treat malignant lymphoblastic disease  (full - 2002)
http://bloodjournal.hematologylibrary.org/cgi/content/full/100/2/627?ijkey=eb71d6d7a06f311440761cfac6a7d081bec2771d

A Peripheral Mechanism for CB1 Cannabinoid Receptor-Dependent Modulation of Feeding  (full - 2002)
http://www.jneurosci.org/cgi/content/abstract/22/21/9612?jikey=328b5e83d7be9297b9483d22e0d6319fa0a862e8&keytype2=tf_ipsecsha

Experimental parkinsonism alters endocannabinoid degradation: implications for striatal glutamatergic transmission.  (full – 2002)
http://www.jneurosci.org/content/22/16/6900.long

Anandamide uptake by synaptosomes from human, mouse and rat brain: inhibition by glutamine and glutamate  (full – 2002)  http://www.lipidworld.com/content/1/1/1

Endogenous cannabinoids improve myocardial resistance to arrhythmogenic effects of coronary occlusion and reperfusion: a possible mechanism.  (abst - 2002)


Anandamide and R-(-)-methanandamide prevent development of ischemic and reperfusion arrhythmia in rats by stimulation of CB2-receptors  (abst – 2002)


Cannabinoid receptor type 1 modulates excitatory and inhibitory neurotransmission in mouse colon (full – 2003)  
http://ajpgi.physiology.org/content/286/1/G110.full?sid=fc6948f0-78cf-405c-981b-afaa05ee417c

CB1 cannabinoid receptor antagonism promotes remodeling and cannabinoid treatment prevents endothelial dysfunction and hypotension in rats with myocardial infarction (full - 2003)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573770/?tool=pmcentrez

Endocannabinoid signalling in the blood of patients with schizophrenia (full – 2003)  
http://www.lipidworld.com/content/2/1/5

A new endothelial target for cannabinoids. (full - 2003)  
http://molpharm.aspetjournals.org/content/63/3/469.long

The endogenous cannabinoid system affects energy balance via central orexigenic drive and peripheral lipogenesis (full - 2003)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC166293/

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

Cannabis and the brain. (full - 2003)  
http://brain.oxfordjournals.org/cgi/content/full/126/6/1252

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

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

Cannabinoids inhibit neurodegeneration in models of multiple sclerosis (full - 2003)  
http://brain.oxfordjournals.org/cgi/content/full/126/10/2191?ijkey=c7c6bdf158b85c98cb1a190d5ca2614552989ba0

Therapeutic potential of cannabinoids in CNS disease. (abst - 2003)  

Anandamide enhances extracellular levels of adenosine and induces sleep: an in vivo microdialysis study. (abst - 2003)  


Inhibition of C6 glioma cell proliferation by anandamide, 1-arachidonoylglycerol, and by a water soluble phosphate ester of anandamide: variability in response and involvement of arachidonic acid. (abst – 2003)  
Cannabinoid influences on palatability: microstructural analysis of sucrose drinking after delta(9)-tetrahydrocannabinol, anandamide, 2-arachidonoyl glycerol and SR141716. (abst – 2003)  

An endogenous cannabinoid tone attenuates cholera toxin-induced fluid accumulation in mice. (abst - 2003)  


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

Endocannabinoids: Getting the message across (full - 2004)  
http://www.pnas.org/content/101/23/8512.full?

Endocannabinoids and Their Implications for Epilepsy (full - 2004)  

Anandamide Is Able to Inhibit Trigeminal Neurons Using an in Vivo Model of Trigeminovascular-Mediated Nociception (full - 2004)  
http://jpet.aspetjournals.org/content/309/1/56.full

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

The complexities of the cardiovascular actions of cannabinoids (full - 2004)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574918/?tool=pmcentrez

Up-Regulation of Cyclooxygenase-2 Expression Is Involved in R(−)-Methanandamide-Induced Apoptotic Death of Human Neuroglioma Cells (full - 2004)  
http://science.iowamedicalmarijuana.org/pdfs/cancer/Hinz%202004.pdf

Involvement of cannabinoid receptors in gut motility and visceral perception (full - 2004)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574910/?tool=pmcentrez

http://jcem.endojournals.org/cgi/content/full/89/11/5482?ijkey=5e8ec5690352ba9f6b990355b2ed69b1d2e58a5b

Arachidonyl ethanolamide induces apoptosis of uterine cervix cancer cells via aberrantly expressed vanilloid receptor-1 (full - 2004)  
http://science.iowamedicalmarijuana.org/pdfs/cancer/Contassot%202004.pdf

A Cyclooxygenase Metabolite of Anandamide Causes Inhibition of Interleukin-2 Secretion in Murine Splenocytes (full – 2004)  
http://jpet.aspetjournals.org/content/311/2/683.full
Anandamide transport is independent of fatty-acid amide hydrolase activity and is blocked by the hydrolysis-resistant inhibitor AM1172.  (full – 2004)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC423268/

Anandamide is an endogenous inhibitor for the migration of tumor cells and T lymphocytes.  (abst - 2004)  


How our brains fend off madness, we produce a cannabis like substance  (news – 2004)  
http://www.medicalnewstoday.com/releases/12516.php

Easing anxiety with anandamide  (news – 2004)  

Exercise activates the endocannabinoid system.  (abst – 2004)  

Study links marijuana buzz to 'runner's high'  (news – 2004)  

Runner's High  (news – 2004)  
http://www.runnersworld.com/article/0%2C7120%2Cs6-243-297--1102-0%2C00.html


Cardiovascular Pharmacology of Cannabinoids  (full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228270/?tool=pmcentrez

The cardiovascular actions of anandamide: more targets?  (full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1576182/?tool=pmcentrez

Cannabinoids promote hippocampus neurogenesis and produce anxiolytic- and antidepressant-like effects  (full - 2005)  
http://www.jci.org/cgi/content/full/115/11/3104

Antidepressant-like Activity and Modulation of Brain Monoaminergic Transmission by Blockade of Anandamide Hydrolysis.  (full – 2005)  
http://www.pnas.org/content/102/51/18620.long

Blood pressure regulation by endocannabinoids and their receptors  (full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225528/?tool=pmcentrez

The endogenous cannabinoid, anandamide, induces cell death in colorectal carcinoma cells: a possible role for cyclooxygenase 2  (full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1774787/?tool=pmcentrez
The effects of Δ9-tetrahydrocannabinol in rat mesenteric vasculature, and its interactions with the endocannabinoid anandamide (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1576168/?tool=pmcentrez

Anandamide reduces infarct size in rat isolated hearts subjected to ischaemia–reperfusion by a novel cannabinoid mechanism (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751211/?tool=pmcentrez

Endocannabinoid activation at hepatic CB1 receptors stimulates fatty acid synthesis and contributes to diet-induced obesity (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1087161/?tool=pmcentrez

Antidepressant-like activity by blockade of anandamide hydrolysis (full - 2005)

Blood levels of the endocannabinoid anandamide are increased in anorexia nervosa and in binge-eating disorder, but not in bulimia nervosa. (full – 2005)
http://www.nature.com/npp/journal/v30/n6/full/1300695a.html

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

Increased anandamide induced relaxation in mesenteric arteries of cirrhotic rats: role of cannabinoid and vanilloid receptors (full – 2005)
http://gut.bmj.com/content/54/4/522.full?sid=0731f0e5-2071-4549-be57-57f444307138

Chocolate and cannabis (article – 2005)
http://www.cannabisculture.com/articles/4337.html

Vascular effects of delta 9-tetrahydrocannabinol (THC), anandamide and N-arachidonoyldopamine (NADA) in the rat isolated aorta. (abst – 2005)

Targeted lipidomics: fatty acid amides and pain modulation. (abst – 2005)

Cannabinoids augment the release of neuropeptide Y in the rat hypothalamus (abst – 2005)

Influence of Anandamide, the Endogenous Agonist of Cannabinoid Receptors on the Circulatory System (abst - 2005)


Anandamide Compound Targets Brain's 'Bliss' System (news – 2005)  
http://alcoholism.about.com/od/cure/a/blnida050112.htm

Anandamide in Chocolate (news – 2005)  
http://chocolate-chemistry.com/anandamide.php

A biosynthetic pathway for anandamide (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1557387/

Activation of G-proteins in brain by endogenous and exogenous cannabinoids. (full – 2006)  

Regulation, Function, and Dysregulation of Endocannabinoids in Models of Adipose and β-Pancreatic Cells and in Obesity and Hyperglycemia (full - 2006)  
http://jcem.endojournals.org/cgi/content/full/91/8/3171?ijkey=83a68ce2f20eafe129332eda5338e6b61349f82

Neural contractions in colonic strips from patients with diverticular disease: role of endocannabinoids and substance P (full – 2006)  
http://gut.bmj.com/content/55/7/946.full

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

Stage-variations of anandamide hydrolase activity in the mouse uterus during the natural oestrus cycle (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1440866/?tool=pubmed

Increasing cannabinoid levels by pharmacological and genetic manipulation delay disease progression in SOD1 mice (full - 2006)  
http://www.fasebj.org/cgi/content/full/20/7/1003

Up-regulation of anandamide levels as an endogenous mechanism and a pharmacological strategy to limit colon inflammation. (full – 2006)  
http://www.fasebj.org/content/early/2006/03/01/fj.05-4943fje.long

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

Endocannabinoids potently protect the newborn brain against AMPA-kainate receptor-mediated excitotoxic damage (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751782/?tool=pmcentrez

Inhibition of Salivary Secretion by Activation of Cannabinoid Receptors (full - 2006)  
http://ebm.rsmjournals.com/cgi/content/full/231/8/1421?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=880&resourcetype=HWCIT

Not Too Excited? Thank Your Endocannabinoids (full - 2006)  
Effect of N-arachidonoyl-(2-methyl-4-hydroxyphenyl) amine (VDM11), an anandamide transporter inhibitor, on capsaicin-induced cough in mice  (full - 2006) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1448189/?tool=pmcentrez


Release of anandamide from blood cells (abst – 2006) 

UCM707, an inhibitor of the anandamide uptake, behaves as a symptom control agent in models of Huntington’s disease and multiple sclerosis, but fails to delay/arrest the progression of different motor-related disorders. (abst – 2006) 

Anandamide, an endocannabinoid, protects neurons from inflammation after brain damage (news – 2006) 

Metabolism of Anandamide an Endogenous Cannabinoid (chart – 2006) 

Anandamide Regulates Keratinocyte Differentiation by Inducing DNA Methylation in a CB1 Receptor-dependent Manner (full – 2007) 
http://www.jbc.org/content/283/10/6005.full

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

Endocannabinoid metabolism and uptake: novel targets for neuropathic and inflammatory pain (full - 2007) 
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190014/?tool=pubmed

The Endogenous Cannabinoid Anandamide Produces δ-9-Tetrahydrocannabinol-Like Discriminative and Neurochemical Effects That Are Enhanced by Inhibition of Fatty Acid Amide Hydrolase but Not by Inhibition of Anandamide Transport (full - 2007) 
http://jpet.aspetjournals.org/content/321/1/370.full

Anandamide and Delta9-tetrahydrocannabinol directly inhibit cells of the immune system via CB2 receptors. (full - 2007) 
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2083705/?tool=pubmed

Anandamide Regulates Keratinocyte Differentiation by Inducing DNA Methylation in a CB1 Receptor-dependent Manner (full – 2007) 
http://www.jbc.org/content/283/10/6005.full?sid=931583b1-e797-43e0-8296-7fd75bb49403#sec-4

Anti-dyskinetic effects of cannabinoids in a rat model of Parkinson’s disease: role of CB1 and TRPV1 receptors (full - 2007) 
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2128772/?tool=pmcentrez
Endocannabinoid hedonic hotspot for sensory pleasure: anandamide in nucleus accumbens shell enhances ‘liking’ of a sweet reward. (full – 2007)
http://www.nature.com/npp/journal/v32/n11/full/1301376a.html


Cardiovascular effects of cannabinoids in conscious spontaneously hypertensive rats (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190025/?tool=pmcentrez

Endocannabinoids and the haematological system (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190021/?tool=pubmed

Characterization of the vasorelaxant mechanisms of the endocannabinoid anandamide in rat aorta (full – 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190007/?tool=pubmed

GPR55 and the vascular receptors for cannabinoids. (full – 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190021/?tool=pubmed

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

The orphan receptor GPR55 is a novel cannabinoid receptor. (full – 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2095107/?tool=pubmed

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

Involvement of the Endocannabinoid System in Retinal Damage after High Intraocular Pressure–Induced Ischemia in Rats (full - 2007)
http://www.iovs.org/cgi/content/full/48/7/2997?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=canabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HWCT

Anandamide inhibits cholangiocyte hyperplastic proliferation via activation of thioredoxin 1/redox factor 1 and AP-1 activation (full – 2007)  http://ajpgi.physiology.org/content/294/2/G506.full

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

The fatty acid amide hydrolase inhibitor URB597 (cyclohexylcarbamic acid 3'-carbamoylbiphenyl-3-yl ester) reduces neuropathic pain after oral administration in mice. (full – 2007)  http://jpet.aspetjournals.org/content/322/1/236.long

Decreased age-related cardiac dysfunction, myocardial nitrative stress, inflammatory gene expression, and apoptosis in mice lacking fatty acid amide hydrolase. (full – 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225473/?tool=pubmed
 STUDIES OF ANANDAMIDE ACCUMULATION INHIBITORS IN CEREBELLAR GRANULE NEURONS (full – 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2248273/

Endocannabinoids, cannabinoid receptors and inflammatory stress: an interview with Dr. Pál Pacher (interview - 2007)
http://www.jleukbio.org/cgi/content/full/82/6/1390?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=880&resourcetype=HWCIT


Effect of Endocannabinoid System on the Neurogenic Function of Rat Corpus Cavernosum (abst – 2007)
http://www.doaj.org/doaj?func=abstract&id=1150200&q1=endocannabinoid%20system&f1=all&b1=and&q2=&f2=all&recNo=26&uiLanguage=en


Role seen for cannabis in helping to alleviate allergic skin disease (news - 2007) http://www.physorg.com/news106487623.html

CB1 Cannabinoid Receptor Inhibition: Promising Approach for Heart Failure? (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2669829/?tool=pmcentrez
N-arachidonylethanolamide-Induced Increase in Aqueous Humor Outflow Facility (full - 2008)  http://www.iovs.org/cgi/content/full/49/10/4528

Expression of the Endocannabinoid System in Human First Trimester Placenta and Its Role in Trophoblast Proliferation (full – 2008)  http://endo.endojournals.org/content/149/10/5052.full?sid=f5b14012-9fbe-4f10-890c-386313060cf8

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

Modulation of the Endocannabinoid System in Cardiovascular Disease (full - 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2568884/?tool=pmcentrez

Cannabinoid receptors and the regulation of bone mass (full - 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219540/?tool=pmcentrez

Acute hypertension reveals depressor and vasodilator effects of cannabinoids in conscious rats (full - 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697765/?tool=pmcentrez

'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

Attenuation of Experimental Autoimmune Hepatitis by Exogenous and Endogenous Cannabinoids: Involvement of Regulatory T Cells (full - 2008)  http://molpharm.aspetjournals.org/content/74/1/20.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT#content-block

Ulcerative colitis in AKR mice is attenuated by intraperitoneally administered anandamide. (full – 2008)  http://www.jpp.krakow.pl/journal/archive/12_08/pdf/673_12_08_article.pdf


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

Acute effects of endocannabinoid anandamide and CB1 receptor antagonist, AM251 in the regulation of thyrotropin secretion. (full – 2008)  http://joe.endocrinology-journals.org/content/199/2/235.long

The endocannabinoid anandamide inhibits cholangiocarcinoma growth via activation of the noncanonical Wnt signaling pathway (full - 2008)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2604798/?tool=pmcentrez
The anandamide analog, Met-F-AEA, controls human breast cancer cell migration via the RHOA/RHO kinase signaling pathway. (full – 2008)  
http://erc.endocrinology-journals.org/cgi/content/full/15/4/965

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

Role of cannabinoids and endocannabinoids in cerebral ischemia  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2581413/?tool=pmcentrez

Endocannabinoid Dysregulation in the Pancreas and Adipose Tissue of Mice Fed With a High-fat Diet  (full - 2008)  
http://www.nature.com/oby/journal/v16/n3/full/oby2007106a.html

Endocannabinoids and nutrition.  (full – 2008)  

Mechanisms for Recycling and Biosynthesis of Endogenous Cannabinoids Anandamide and 2-Arachidonoylglycerol  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2581634/?tool=pmcentrez

Endocannabinoids and nutrition.  (full – 2008)  

Role of endocannabinoids and their analogues in obesity and eating disorders.  (abst – 2008)  

Inhibition of anandamide hydrolysis by URB597 reverses abuse-related behavior and neurochemical effects of nicotine in rats  (abst – 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2663803/?tool=pubmed

The endocannabinoid system: emotion, learning and addiction.  (abst - 2008)  

Anandamide and neutrophil function in patients with fibromyalgia.  (abst - 2008)  

Anandamide inhibits metabolism and physiological actions of 2-arachidonoylglycerol in the striatum.  (abst – 2008)  

Abnormalities in the cerebrospinal fluid levels of endocannabinoids in multiple sclerosis.  (abst – 2008)  

Effect of anandamide in improving of the non-adrenergic non-cholinergic relaxation of the corpus cavernosum from diabetic rats  (abst – 2008)  
http://www.doaj.org/doaj?func=abstract&id=859448&q1=anandamide&f1=all&b1=and&q2=&f2=all&recNo=25&uiLanguage=en


Endocannabinoids and the Heart (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2728560/?tool=pmcentrez

Cannabinoids, Endocannabinoids, and Related Analogs in Inflammation (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2664885/?tool=pmcentrez

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


Changes in the Endocannabinoid System May Give Insight into new and Effective Treatments for Cancer (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2791688/?tool=pmcentrez

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 induce fever through the activation of CB1 receptors. (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2765314/?tool=pubmed

Neuropathic Pain and Endocannabinoid-Degradation Blockade (full – 2009) http://jpet.aspetjournals.org/content/330/3/669.1.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9e4a17

Biomarkers of Endocannabinoid System Activation in Severe Obesity (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2808340/?tool=pubmed

Endocannabinoids and Their Receptors as Targets for Obesity Therapy (full - 2009) http://endo.endojournals.org/cgi/content/full/150/6/2531#top

The endocannabinoid system in bull sperm and bovine oviductal epithelium: role of anandamide in sperm-oviduct interaction. (full - 2009) http://www.reproduction-online.org/cgi/content/full/137/3/403
Spatio-temporal expression patterns of anandamide-binding receptors in rat implantation sites: evidence for a role of the endocannabinoid system during the period of placental development (full – 2009)  http://www.rbej.com/content/7/1/121


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


Endocannabinoids and cannabinoid analogues block cardiac hKv1.5 channels in a cannabinoid receptor-independent manner (full – 2009)  http://cardiovascres.oxfordjournals.org/content/85/1/56.full?sid=7d2438c4-a727-410f-870d-4a971695b4fb

Endocannabinoid-mediated control of synaptic transmission. (full – 2009)  http://physrev.physiology.org/content/89/1/309.long


Blockade of endocannabinoid-degrading enzymes attenuates neuropathic pain. (full - 2009)  http://jpet.aspetjournals.org/content/330/3/902.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17

Minocycline treatment inhibits microglial activation and alters spinal levels of endocannabinoids in a rat model of neuropathic pain (full – 2009)  http://www.molecularpain.com/content/5/1/35


Recent advances in the regulation of cholangiocarcinoma growth (full - 2010) http://ajpgi.physiology.org/content/299/1/G1.full

Cannabinoid Receptors as Target for Treatment of Osteoporosis: A Tale of Two Therapies (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3001217/?tool=pubmed

Anandamide suppresses pain initiation through a peripheral endocannabinoid mechanism (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3260554/?tool=pubmed


Quantification of brain endocannabinoid levels: methods, interpretations and pitfalls
Opposing actions of endocannabinoids on cholangiocarcinoma growth is via the differential activation of Notch signaling. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2872061/?tool=pubmed

A synthetic cannabinoid agonist promotes oligodendrogliogenesis during viral encephalitis in rats (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2981070/?tool=pubmed


Antitumorigenic Effects of Cannabinoids beyond Apoptosis (full - 2010) http://jpet.aspetjournals.org/content/332/2/336.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17

Endogenous cannabinoid signaling is essential for stress adaptation (full - 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2889099/?tool=pmcentrez

Preservation of Striatal Cannabinoid CB1 Receptor Function Correlates with the Antianxiety Effects of Fatty Acid Amide Hydrolase Inhibition (full – 2010) http://molpharm.aspetjournals.org/content/78/2/260.long

Differential alterations of the concentrations of endocannabinoids and related lipids in the subcutaneous adipose tissue of obese diabetic patients (full - 2010) http://www.lipidworld.com/content/9/1/43

The endocannabinoid system as a target for the treatment of neurodegenerative disease (full - 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931550/?tool=pubmed

Alterations in the hippocampal endocannabinoid system in diet-induced obese mice. (full – 2010) http://www.jneurosci.org/content/30/18/6273.long

Effects of a Commonly Occurring Genetic Polymorphism of Human CYP3A4 (I118V) on the Metabolism of Anandamide (full – 2010) http://dmd.aspetjournals.org/content/38/11/2075.full

Cyclooxygenase-2 Mediates Anandamide Metabolism in the Mouse Brain (full – 2010) http://jpet.aspetjournals.org/content/335/2/380.full?sid=af53ea87-ab4b-426e-9c7e-8f750e9c4a17


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
Energetic Metabolism and Human Sperm Motility: Impact of CB1 Receptor Activation (full – 2010)  [link to PDF - 2010]

Characterization of the Endocannabinoid System in Human Spermatozoa and Involvement of Transient Receptor Potential Vanilloid 1 Receptor in Their Fertilizing Ability (full – 2010)  [link to PDF - 2010]

Maternal Dietary Fat Determines Metabolic Profile and the Magnitude of Endocannabinoid Inhibition of the Stress Response in Neonatal Rat Offspring (full – 2010)  [link to PDF - 2010]

N-Acylethanolamine Levels and Expression of Their Metabolizing Enzymes during Pregnancy (full – 2010)  [link to PDF - 2010]

Inactivation of Anandamide Signaling: A Continuing Debate (link to PDF - 2010)  [link to PDF - 2010]

From Fertilisation to Implantation in Mammalian Pregnancy—Modulation of Early Human Reproduction by the Endocannabinoid System (link to PDF – 2010)  [link to PDF - 2010]

The endogenous cannabinoid, anandamide, induces COX-2-dependent cell death in apoptosis-resistant colon cancer cells. (link to PDF - 2010)  [link to PDF - 2010]

Endocannabinoids and Human Sperm Cells (link to PDF - 2010)  [link to PDF - 2010]

Endocannabinoids and Schizophrenia (link to PDF – 2010)  [link to PDF - 2010]

Effects of anandamide on polyamine levels and cell growth in human colon cancer cells (abst – 2010)  [link to PDF - 2010]

PP-014 Control of receptor expression in vagal afferent neurons by activation of cannabinoid 1 receptors (abst - 2010)  [link to PDF - 2010]

Circulating and hepatic endocannabinoids and endocannabinoid-related molecules in patients with cirrhosis. (abst – 2010)  [link to PDF - 2010]

Circulating endocannabinoids and N-acyl-ethanolamides in patients with sleep apnea--specific role of oleoylthanolamide. (abst – 2010)  [link to PDF - 2010]
Endogenous cannabinoids in liver disease: Many darts for a single target  

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)  
http://www.unboundmedicine.com/medline/ebm/record/19847654/abstract/Non_CB1_non_CB2_receptors 
for_endocannabinoids_plant_cannabinoids_and_synthetic_cannabimimetics:_focus_on_G_protein_coupl 
de_receptors_and_transient_receptor_potential_channels

The Multiplicity of Action of Cannabinoids: Implications for Treating 

Pharmacological exploitation of the endocannabinoid system: new perspectives for the 
treatment of depression and anxiety disorders?  (abst – 2010)  
http://www.unboundmedicine.com/medline/ebm/record/20512266/abstract/Pharmacological_exploitation 
of_the_endocannabinoid_system:_new_perspectives_for_the_treatment_of_depression_and_anxiety_disorder 
5D

Anandamide extends platelets survival through CB(1)-dependent Akt signaling.  

Interaction between anandamide and sphingosine-1-phosphate in mediating 
vasorelaxation in rat coronary artery  (abst – 2010)  
http://www.unboundmedicine.com/medline/ebm/record/20718749/abstract/interaction_between_anandami 
de_and_sphingosine_1_phosphate_in_mediating_vasorelaxation_in_rat_coronary_artery

Localization and function of cannabinoid receptors in the corpus cavernosum: basis for 

Anandamide and AM251, via water, modulate food intake at central and peripheral level 

Palmitoylethanolamide and other anandamide congeners. Proposed role in the diseased 

The endocannabinoid system modulates the valence of the emotion associated to food 
ingestion  (abst – 2010)  

N-acylthanolamine signalling mediates the effect of diet on lifespan in Caenorhabditis 

Compound boosts marijuana-like chemical in the body to relieve pain at injury site 
Chocolate: The Good, the Bad and the Angry (news - 2010)  

Nutritional Facts on Raw Cacao Beans (news – 2010)  

Cocoa and the Search for Dietary Cannabinoids (news – 2010)  

Receptors triggered by pot may lessen hit from chronic stress (news – 2010)  

Increasing the body's (but not brain's) cannabinoids dulls pain (news – 2010)  

Painkilling System in Brain: Too Much of a Good Thing? (news - 2010)  

Research Reaps Reefer Madness (news – 2010)  

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

Dual inhibition of alpha/beta hydrolase domain 6 and fatty acid amide hydrolase increases endocannabinoid levels in neurons. (full – 2011)  
http://www.jbc.org/content/early/2011/06/10/jbc.M110.202853.long

A catalytically silent FAAH-1 variant drives anandamide transport in neurons. (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3245783/

Anandamide inhibits Theiler's virus induced VCAM-1 in brain endothelial cells and reduces leukocyte transmigration in a model of blood brain barrier by activation of CB1 receptors. (full – 2011)  
http://www.jneuroinflammation.com/content/pdf/1742-2094-8-102.pdf

Anandamide capacitates bull spermatozoa through CB1 and TRPV1 activation. (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3037938/?tool=pubmed

Endocannabinoid regulation of acute and protracted nicotine withdrawal: effect of FAAH inhibition. (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3227620/?tool=pubmed

Targeting the CB2 cannabinoid receptor in osteoporosis (full – 2011)  
http://www.expert-reviews.com/doi/full/10.1586/eem.11.2?prevSearch=Keyword%253A%2528cannabinoid%2522%2529&searchHistoryKey=
Endocannabinoid system in cardiovascular disorders - new pharmacotherapeutic opportunities  (full – 2011)
http://www.jpbsonline.org/article.asp?issn=0975-7406;year=2011;volume=3;issue=3;spage=350;epage=360;aulast=Cunha

The endocannabinoid system and cancer: therapeutic implication  (full – 2011)

Cannabinoid and GABA modulation of sympathetic nerve activity and blood pressure in the dorsal periaqueductal gray of the rat  (full – 2011)
http://ajpregu.physiology.org/content/301/6/R1765.full

Increasing Antiproliferative Properties of Endocannabinoids in N1E-115 Neuroblastoma Cells through Inhibition of Their Metabolism.  (full – 2011)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3203169/?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

The activity of the endocannabinoid metabolising enzyme fatty acid amide hydrolase in subcutaneous adipocytes correlates with BMI in metabolically healthy humans (full – 2011)  http://www.lipidworld.com/content/10/1/129


Hyperactivation of anandamide synthesis and regulation of cell-cycle progression via cannabinoid type 1 (CB1) receptors in the regenerating liver  (abst – 2011)  http://www.pnas.org/content/108/15/6323.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcetype=HWCTT


An amyloid β(42)-dependent deficit in anandamide mobilization is associated with cognitive dysfunction in Alzheimer's disease  (abst – 2011)  http://www.unboundmedicine.com/medline/ebm/record/21546126/abstract/An_amyloid_%CE%B2_42__dependent_deficit_in_anandamide_mobilization_is_associated_with_cognitive_dysfunction_in_Alzheimer%27s_disease
Arachidonoyl ethanolamide (AEA)-induced apoptosis is mediated by J-series prostaglandins and is enhanced by fatty acid amide hydrolase (FAAH) blockade. (abst – 2011)

http://www.unboundmedicine.com/medline/ebm/record/21432910/abstract/Arachidonoyl_ethanolamide__AEA__induced_apoptosis_ismediated_by_J_series_prostaglandins_and_is_enhanced_by_fatty_acid_amide_hydrolase__FAAH__blockade

Intracellular Cannabinoid Type 1 (CB1) Receptors Are Activated by Anandamide (abst – 2011)

http://www.jbc.org/content/286/33/29166.abstract?sid=2c3b88ec-b6e6-4245-a171-2e24c17b5e8b

Abnormal anandamide metabolism in celiac disease. (abst – 2011)


Inhibition of cannabinoid metabolic enzymes reduces NSAID-induced gastric pathology (abst – 2011)

http://www.fasebj.org/cgi/content/meeting_abstract/25/1_MeetingAbstracts/807.1?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcetype=HW CIT

Pharmacological elevation of anandamide impairs short-term memory by altering the neurophysiology in the hippocampus. (abst – 2011)


The fatty acid amide hydrolase inhibitor URB 597: interactions with anandamide in rhesus monkeys. (abst – 2011)

http://www.unboundmedicine.com/medline/ebm/record/21449917/abstract/The_fatty_acid_amide_hydrolase_inhibitor_URB_597_interactions_with_anandamide_in_rhesus_monkeys


Endocannabinoid CB1 receptors modulate visual output from the thalamus. (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/21773721

Omega-3 N-acylacehtanolamines 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

Anandamide inhibits the growth of colorectal cancer cells through CB1 and lipid rafts (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/21575494

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

http://www.unboundmedicine.com/medline/ebm/record/21145341/abstract/Inhibition_of_endocannabinoid_catabolic_enzymes_elicits_anxiolytic_like_effects_in_the_marble_burying_assay

The anandamide transport inhibitor AM404 reduces the rewarding effects of nicotine and nicotine-induced dopamine elevations in the nucleus accumbens shell in rats.


Intense exercise increases circulating endocannabinoid and BDNF levels in humans—Possible implications for reward and depression (abst – 2011) http://www.psyneuen-journal.com/article/PIIS0306453011002873/abstract?rss=yes


Endocannabinoids Stimulate Human Melanogenesis via Type-1 Cannabinoid Receptor (full – 2012) http://www.jbc.org/content/early/2012/03/19/jbc.M111.314880.full.pdf+html

Hyperactivation of anandamide synthesis and regulation of cell-cycle progression via cannabinoid type 1 (CB1) receptors in the regenerating liver (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3076854/?tool=pubmed

Role of cannabinoids in the regulation of bone remodeling (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3499879/
Cannabinoid Receptor 2-Mediated Attenuation of CXCR4-Tropic HIV Infection in Primary CD4+ T Cells        (full – 2012)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0033961

Mechanistic and Pharmacological Characterization of PF-04457845: A Highly Potent and Selective Fatty Acid Amide Hydrolase Inhibitor That Reduces Inflammatory and Noninflammatory Pain        (full – 2012)  
http://jpet.aspetjournals.org/content/338/1/114.full

Endocannabinoids measurement in human saliva as potential biomarker of obesity.        (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3409167/?tool=pubmed

Type 2 Diabetes Associated Changes in the Plasma Non-Esterified Fatty Acids, Oxylipins and Endocannabinoids        (full – 2012)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0048852

Anandamide Induces Sperm Release from Oviductal Epithelia through Nitric Oxide Pathway in Bovines.        (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3281848/?tool=pubmed

Cannabidiol enhances anandamide signaling and alleviates psychotic symptoms of schizophrenia.        (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3316151/?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/

A polymorphism in the gene of the endocannabinoid-degrading enzyme FAAH (FAAH C385A) is associated with emotional–motivational reactivity        (full – 2012)  

Targeting Fatty Acid Binding Protein (FABP) Anandamide Transporters – A Novel Strategy for Development of Anti-Inflammatory and Anti-Nociceptive Drugs        (full – 2012)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0050968

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

Review article: Endocannabinoids in neuroendopsychology: multiphasic control of mitochondrial function        (full – 2012)  
http://rstb.royalsocietypublishing.org/content/367/1607/3342.full?sid=dd42995f-c629-4f8c-86a0-5e962e352fda

Cannabinoid modulation of neuroinflammatory disorders.        (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3386505/
The endocannabinoid, anandamide, augments Notch-1 signaling in cultured cortical neurons exposed to amyloid-beta and in the cortex of aged rats. (full – 2012) http://www.jbc.org/content/early/2012/08/13/jbc.M112.350678.long

Early Endogenous Activation of CB1 and CB2 Receptors after Spinal Cord Injury Is a Protective Response Involved in Spontaneous Recovery (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3496738/

Cannabinoid type-1 receptor reduces pain and neurotoxicity produced by chemotherapy. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3366638/

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

Excess of the endocannabinoid anandamide during lactation induces overweight, fat accumulation and insulin resistance in adult mice (full – 2012) http://www.dmsjournal.com/content/4/1/35

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/


Phytoestrogens Enhance the Vascular Actions of the Endocannabinoid Anandamide in Mesenteric Beds of Female Rats (full – 2012) http://www.hindawi.com/journals/ijht/2012/647856/


Cannabinoid Receptor Type 1 (CB1) Activation Inhibits Small GTPase RhoA Activity and Regulates Motility of Prostate Carcinoma Cells (full – 2012) http://endo.endojournals.org/content/153/1/29.full

The effects of peptide and lipid endocannabinoids on arthritic pain at the spinal level. (full – 2012)
Endocannabinoids in nervous system health and disease: the big picture in a nutshell (full – 2012) http://rstb.royalsocietypublishing.org/content/367/1607/3193.full

Excess of the endocannabinoid anandamide during lactation induces overweight, fat accumulation and insulin resistance in adult mice (full – 2012) http://www.dmsjournal.com/content/4/1/35

Lipoxin A4 is an allosteric endocannabinoid that strengthens anandamide-induced CB1 receptor activation (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3529042/

Bidirectional regulation of endocannabinoid signaling in the amygdala contributes to activation and adaptation of the stress response (link to PDF – 2012) http://www.doaj.org/doaj?func=abstract&id=1152480&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=4&uiLanguage=en

Endocannabinoids in stressed humans (link to PDF – 2012) http://www.doaj.org/doaj?func=abstract&id=1152482&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=2&uiLanguage=en

Positron emission tomography offers new perspectives for evidence-based treatment development in PTSD (link to PDF – 2012) http://www.doaj.org/doaj?func=abstract&id=1152483&q1=endocannabinoid&f1=all&b1=and&q2=&f2=all&recNo=2&uiLanguage=en


Arachidonoyl ethanolamide (AEA)-induced apoptosis is mediated by J-series prostaglandins and is enhanced by fatty acid amide hydrolase (FAAH) blockade. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/21432910


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/


Review article: Why do cannabinoid receptors have more than one endogenous ligand? (abst - 2012)  http://www.ncbi.nlm.nih.gov/pubmed/23108541


Inhibitors of the Endocannabinoid-Degrading Enzymes, or how to Increase Endocannabinoid's Activity by Preventing their Hydrolysis. (abst – 2012)  http://www.ncbi.nlm.nih.gov/pubmed/22280341


Cortisol-mediated adhesion of synovial fibroblasts is dependent on the degradation of anandamide and activation of the endocannabinoid system.  (abst – 2012)  

Circulating Endocannabinoid Concentrations and Sexual Arousal in Women.  (abst – 2012)  

Essential fatty acids and lipid mediators. Endocannabinoids  (abst – 2012)  

Anandamide Induces Matrix Metalloproteinase-2 Production through Cannabinoid-1 Receptor and Transient Receptor Potential Vanilloid-1 in Human Dental Pulp Cells in Culture.  (abst – 2012)  

Vascular metabolism of anandamide to arachidonic acid affects myogenic constriction in response to intraluminal pressure elevation.  (abst – 2012)  

Cannabidiol enhances anandamide signaling and alleviates psychotic symptoms of schizophrenia.  (abst – 2012)  


Inhibition Of Fatty Acid Amide Hydrolase Produces Anti-Tussive Effects In Guinea-Pigs: Evidence For Elevated Fatty Acid Amides Acting Via Cannabinoid Receptors On Airway Sensory Nerves  (abst – 2012)  
http://ajrccm.atsjournals.org/cgi/reprint/185/1_MeetingAbstracts/A2149?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT

Age-related changes of anandamide metabolism in CB1 cannabinoid receptor knockout mice: correlation with behaviour.  (abst – 2012)  

http://www.bijprocs.boneandjoint.org.uk/content/94-B/SUPP_XVIII/7.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT

Anti-Inflammatory Effect of the Endocannabinoid Anandamide in Experimental Periodontitis and Stress in the Rat.  (abst – 2012)  
The Novel Reversible Fatty Acid Amide Hydrolase Inhibitor ST4070 Increases Endocannabinoid Brain Levels and Counteracts Neuropathic Pain in Different Animal Models  (abst – 2012)  
http://jpet.aspetjournals.org/content/342/1/188.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5

Medial prefrontal cortex endocannabinoid system modulates baroreflex activity through CB1 receptors   (abst – 2012)  
http://ajpregu.physiology.org/content/302/7/R876.abstract?sid=952e2125-0502-477c-b603-30f0f3e51b55

Analgesic effects of cannabinoids on central pain syndrome   (abst – 2012)  


Endocannabinoids alleviate proinflammatory conditions by modulating innate immune response in muller glia during inflammation.   (abst – 2012)  


The Endocannabinoid System and the Brain.   (abst – 2012)  

"Redundancy" of endocannabinoid inactivation: new challenges and opportunities for pain control. (abst – 2012)  

Determination of the two major endocannabinoids in human plasma by μ-SPE followed by HPLC-MS/MS.  (abst – 2012)  

Acetaminophen, pesticide, and diethylhexyl phthalate metabolites, anandamide, and fatty acids in deciduous molars: potential biomarkers of perinatal exposure.   (abst – 2012)  

Anandamide and 2-arachidonoylglycerol: Pharmacological Properties, Functional Features, and Emerging Specificities of the Two Major Endocannabinoids. (abst – 2012)  

The endocannabinoid system in inflammatory bowel diseases: from pathophysiology to therapeutic opportunity. (abst – 2012)  


The FAAH inhibitor URB597 efficiently reduces tyrosine hydroxylase expression through CB(1) and FAAH-independent mechanisms. (abst – 2012)  http://www.ncbi.nlm.nih.gov/pubmed/22970888


Opposing local effects of endocannabinoids on the activity of noradrenergic neurons and release of noradrenaline: relevance for their role in depression and in the actions of CB(1) receptor antagonists. (abst – 2012)  http://www.ncbi.nlm.nih.gov/pubmed/22990678


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

Essential fatty acids and lipid mediators. Endocannabinoids (abst – 2012)  

CB1 receptor activation in the nucleus accumbens core impairs contextual fear learning. (abst – 2012)  

Alterations in endocannabinoid tone following chemotherapy-induced peripheral neuropathy: effects of endocannabinoid deactivation inhibitors targeting fatty-acid amide hydrolase and monoacylglycerol lipase in comparison to reference analgesics following cisplatin treatment. (abst – 2012)  

The evolution and comparative neurobiology of endocannabinoid signaling (abst – 2012)  

The endocannabinoid system in inflammatory bowel diseases: from pathophysiology to therapeutic opportunity. (abst – 2012)  

Multiple functions of endocannabinoid signaling in the brain. (abst – 2012)  

Optimized synthesis and characterization of N-acyl ethanolamines and O-acyl ethanolamines, important family of lipid-signalling molecules. (abst – 2012)  

Anandamide regulates the expression of GnRH1, GnRH2, and GnRH-Rs in frog testis (abst – 2012)  

Ectopic pregnancy is associated with high anandamide levels and aberrant expression of FAAH and CB1 in fallopian tubes. (abst – 2012)  

The role of endocannabinoids in gonadal function and fertility along the evolutionary axis. (abst – 2012)  

Temporal changes in N-acyl ethanolamine content and metabolism throughout the periadolescent period (abst – 2012)  

The FAAH inhibitor URB597 efficiently reduces tyrosine hydroxylase expression through CB1 and FAAH-independent mechanisms (abst – 2012)  
The role of the endocannabinoid system in skeletal muscle and metabolic adaptations to exercise: potential implications for the treatment of obesity (abst – 2012)

TRPV1-mediated calcium signal couples with cannabinoid receptors and sodium-calcium exchangers in rat odontoblasts. (abst – 2012)

Acetaminophen, pesticide, and diethylhexyl phthalate metabolites, anandamide, and fatty acids in deciduous molars: potential biomarkers of perinatal exposure (abst – 2012)

Anti-Inflammatory Effect of the Endocannabinoid Anandamide in Experimental Periodontitis and Stress in the Rat (abst – 2012)

Anandamide Induces Matrix Metalloproteinase-2 Production through Cannabinoid-1 Receptor and Transient Receptor Potential Vanilloid-1 in Human Dental Pulp Cells in Culture (abst – 2012)

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

Convergent translational evidence of a role for anandamide in amygdala-mediated fear extinction, threat processing and stress-reactivity (abst – 2012)

Inhibiting fatty acid amide hydrolase normalizes endotoxin-induced enhanced gastrointestinal motility in mice. (abst – 2012)

The Contractile Effect of Anandamide in the Guinea-Pig Small Intestine is Mediated by Prostanoids but not TRPV1 Receptors or Capsaicin-Sensitive Nerves. (abst – 2012)

CD200-CD200R1 interaction contributes to neuroprotective effects of anandamide on experimentally induced inflammation (abst – 2012)

Acute reduction of anandamide-hydrolase (FAAH) activity is coupled with a reduction of nociceptive pathways facilitation in medication-overuse headache subjects after withdrawal treatment. (abst – 2012)

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 (abst – 2012)
The endocannabinoid, anandamide, augments Notch-1 signaling in cultured cortical neurons exposed to amyloid-β and in the cortex of aged rats. (abst – 2012)  

The Endocannabinoids Anandamide and Virodhamine Modulate the Activity of the Candidate Cannabinoid Receptor GPR55 (abst – 2012)  
http://link.springer.com/article/10.1007%2Fs11481-012-9351-6#page-1

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

The endocannabinoid system: a key modulator of emotions and cognition (abst – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3490098/

Antiepileptic action of N-palmitoylethanolamine through CB1 and PPAR-α receptor activation in a genetic model of absence epilepsy. (abst – 2012)  

Anandamide inhibits the Wnt/β-catenin signalling pathway in human breast cancer MDA MB 231 cells (abst – 2012)  
http://www.ejcancer.info/article/PIIS095980491200216X/abstract?rss=yes

Revisiting CB1 receptor as drug target in human melanoma. (abst – 2012)  

Tumour epithelial expression levels of endocannabinoid markers modulates the value of endoglin-positive vascular density as a prognostic marker in prostate cancer. (abst – 2012)  

Uncovering a role for endocannabinoid signaling in autophagy in preimplantation mouse embryos (abst – 2012)  
http://molehr.oxfordjournals.org/content/19/2/93.abstract

Endocannabinoid system and mood disorders: Priming a target for new therapies. (abst – 2012)  

Hind limb suspension and long-chain omega-3 PUFA increase mRNA endocannabinoid system levels in skeletal muscle. (abst – 2012)  

Evidence for Bidirectional Endocannabinoid Transport across Cell Membranes (abst – 2012)  
http://www.jbc.org/content/287/41/34660.abstract?sid=ed624bcc-ed4a-490a-acb1-3497d91aebeb

'Runner's High' may have played role in evolutionary history of humans (news – 2012)  
http://in.news.yahoo.com/runner's-high-may-played-role-evolutionary-history-humans-105030765.html
Marijuana Compound Treats Schizophrenia with Few Side Effects: Clinical Trial

Cannabinoids, Breast Milk, and Development (news – 2012)

Cannabinoids for the Treatment of Neuropathic Pain (news – 2012)
(may need registration) http://www.medscape.com/viewarticle/739103_3

It hurts so good: the runner’s high (news – 2012)
http://blogs.scientificamerican.com/scicurious-brain/2012/03/12/it-hurts-so-good-the-runners-high/


Type-1 (CB(1)) Cannabinoid Receptor Promotes Neuronal Differentiation and Maturation of Neural Stem Cells. (full – 2013)
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0054271

Endogenous cannabinoid receptor CB1 activation promotes vascular smooth muscle cell proliferation and neointima formation. (full – 2013)
http://www.jlr.org/content/early/2013/03/11/jlr.M035147.long

Surfing the (endo)cannabinoids wave. (full – 2013)

Influence of serum and albumin on the in vitro anandamide cytotoxicity toward C6 glioma cells assessed by the MTT cell viability assay: implications for the methodology of the MTT tests. (full – 2013)

Modulating the endocannabinoid system in human health and disease: successes and failures (full – 2013)

Reduced endothelium-dependent relaxation to anandamide in mesenteric arteries from young obese zucker rats. (full – 2013)
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0063449

Plasma concentrations of endocannabinoids and related primary Fatty Acid amides in patients with post-traumatic stress disorder. (full – 2013)
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0062741

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

Altered expression of type-1 and type-2 cannabinoid receptors in celiac disease.
Modulation of the Endocannabinoids N-Arachidonoylthanolamine (AEA) and 2-Arachidonoylglycerol (2-AG) on Executive Functions in Humans. (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0062078

Modulation of the Endocannabinoids N-Arachidonoylthanolamine (AEA) and 2-Arachidonoylglycerol (2-AG) on Executive Functions in Humans. (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0066387

The endocannabinoid system provides an avenue for evidence-based treatment development for PTSD. (1st page – 2013)  

CB1 and CB2 Cannabinoid Receptor Agonists Induce Peripheral Antinociception by Activation of the Endogenous Noradrenergic System. (abst – 2013)  

Anti-inflammatory lipoxin A4 is an endogenous allosteric enhancer of CB1 cannabinoid receptor. (abst – 2013)  

The anxiolytic effect of cannabidiol on chronically stressed mice depends on hippocampal neurogenesis: involvement of the endocannabinoid system. (abst – 2013)  

Endocannabinoid/GABA interactions in the entopeduncular nucleus modulates alcohol intake in rats. (abst – 2013)  

Modulation by 17β-estradiol of anandamide vasorelaxation in normotensive and hypertensive rats: a role for TRPV1 but not fatty acid amide hydrolase. (abst – 2013)  

Inhibition Of Fatty Acid Amide Hydrolase Activates Nrf2 Signaling And Induces Heme Oxygenase 1 Transcription In Breast Cancer Cells. (abst – 2013)  

http://www.ncbi.nlm.nih.gov/pubmed/23372171

Involvement of nitric oxide through endocannabinoids release in microglia activation during the course of CNS regeneration in the medicinal leech. (abst – 2013)  

The cannabinoid TRPA1 agonist cannabichromene inhibits nitric oxide production in macrophages and ameliorates murine colitis. (abst – 2013)  


(4-Phenoxyphenyl)tetrazolecarboxamides and related compounds as dual inhibitors of fatty acid amide hydrolase (FAAH) and monoacylglycerol lipase (MAGL). (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23455058


Cannabinoid receptors and pain           (abst – 2013)

Elevated brain cannabinoïd CB1 receptor availability in post-traumatic stress disorder: a positron emission tomography study.         (abst – 2013)

Effects of anandamide on proliferation of and pErk expression in primary hepatic stellate cells of schistosome-induced liver fibrosis mice   (abst – 2013)

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-4daa-8b8c-38c063c19ad

Anandamide inhibits proliferation of oral squamous cell carcinoma       (abst – 2013)
http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/729.16?sid=eea722c0-971c-4daa-8b8c-38c063c19ad

Effects of anandamide and other CB1 ligands on cognitive function       (abst – 2013)
http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1097.10?sid=eea722c0-971c-4daa-8b8c-38c063c19ad

The administration of endocannabinoid uptake inhibitors OMDM-2 or VDM-11 promotes sleep and decreases extracellular levels of dopamine in rats.   (abst – 2013)

Anandamide modulates human sperm motility: implications for men with asthenozoospermia and oligoasthenoteratozoospermia.       (abst – 2013)

Cannabinoid CB2 receptor activation attenuates cytokine-evoked mucosal damage in a human colonic explant model without changing epithelial permeability.   (abst – 2013)


Endogenous cannabinoids in amygdala and hippocampus in post-mortem brains of Cloninger type 1 and 2 alcoholics.   (abst – 2013)


Fatty acid amide hydrolase but not monoacyl glycerol lipase controls cell death induced by the endocannabinoid 2-arachidonoyl glycerol in hepatic cell populations.  (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23806692


Cyclooxygenase-2 regulates anandamide-induced endoplasmic reticulum stress in tumorigenic keratinocytes  (abst - 2013)  http://www.abstractsonline.com/Plan/ViewAbstract.aspx?sKey=47d150a2-0c18-41e2-aeeb-ccb249909524&cKey=7e13a39d-b13e-4de7-a0c8-179e2d78ec62&mKey=9b2d28e7-24a0-466f-a3e9-07e21f6e9be9


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


CB1 cannabinoid receptor expressed in enteroendocrine cells mediates food intake in mice  (abst – 2013)  http://edrv.endojournals.org/cgi/content/meeting_abstract/34/03_MeetingAbstracts/SAT-659?sid=89628f3e-b2f1-448c-b0df-984f390dfdd2


Brain-Imaging Study Links Cannabinoid Receptors to Post-Traumatic Stress Disorder: First Pharmaceutical Treatment for PTSD Within Reach (news – 2013) [http://www.sciencedaily.com/releases/2013/05/130514085016.htm]


High on Health: Cannabinoids in the Food Supply (news – 2013) [http://www.wakingtimes.com/2013/04/25/high-on-health-cbd-in-the-food-supply/]

Marijuana-like compound could lead to first-ever medication for PTSD (news – 2013) [http://www.foxnews.com/health/2013/05/14/marijuana-like-compound-could-lead-to-first-ever-medication-for-ptsd/]

**L-α-LYSOPHOSPHATIDYLINOSITOL** — GPR-55 agonist

The GPR55 ligand L-alpha-lysophosphatidylinositol promotes RhoA-dependent Ca2+ signaling and NFAT activation. (full – 2009) [http://www.fasebj.org/content/23/1/183.long]

GPR55 ligands promote receptor coupling to multiple signalling pathways. (full – 2010) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931561/?tool=pubmed]

Pharmacology of GPR55 in yeast and identification of GSK494581A as a mixed-activity glycine transporter subtype 1 inhibitor and GPR55 agonist. (full – 2011) [http://jpet.aspetjournals.org/content/337/1/236.long]

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]

A role for L-alpha-lysophosphatidylinositol and GPR55 in the modulation of migration, orientation and polarization of human breast cancer cells. (full – 2011) [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931574/?tool=pubmed]


The L-α-lysophosphatidylinositol/GPR55 system and its potential role in human obesity. (full – 2012) [http://diabetes.diabetesjournals.org/content/61/2/281.long]

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

Endocannabinoids and related fatty acid derivatives in pain modulation.  (abst – 2002)  

Characterisation of the vasorelaxant properties of the novel endocannabinoid N-arachidonoyl-dopamine (NADA).  (full – 2004)  
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)  

Mechanisms of HIV-1 inhibition by the lipid mediator N-arachidonoyldopamine.  (full – 2005)  
http://www.jimmunol.org/content/175/6/3990.long

Vascular effects of delta 9-tetrahydrocannabinol (THC), anandamide and N-arachidonoyldopamine (NADA) in the rat isolated aorta.  (abst – 2005)  

Targeted lipidomics: fatty acid amides and pain modulation.  (abst – 2005)  

Arvanil, anandamide and N-arachidonoyl-dopamine (NADA) inhibit emesis through cannabinoid CB1 and vanilloid TRPV1 receptors in the ferret.  (abst – 2007)  

N-arachidonoyl dopamine is a possible factor of the rate of tentacle formation in freshwater hydra  (abst – 2008)  

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

Review article: Why do cannabinoid receptors have more than one endogenous ligand? (abst - 2012) http://www.ncbi.nlm.nih.gov/pubmed/23108541

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


'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)
Sleep deprivation increases oleoylethanolamide in human cerebrospinal fluid. (full – 2009)

Circulating endocannabinoids and N-acyl ethanolamines are differentially regulated in major depression and following exposure to social stress. (full – 2009)

Receptors for acylethanolamides-GPR55 and GPR119. (full – 2009)

Oleoylethanolamide exerts partial and dose-dependent neuroprotection of substantia nigra dopamine neurons. (abst – 2009)

Plasma endocannabinoid levels in multiple sclerosis. (abst – 2009)

N-acylethanolamines, anandamide and food intake. (abst – 2009)

The fat-induced satiety factor oleoylethanolamide suppresses feeding through central release of oxytocin. (full – 2010)

Quantification of brain endocannabinoid levels: methods, interpretations and pitfalls (full – 2010)

Differential alterations of the concentrations of endocannabinoids and related lipids in the subcutaneous adipose tissue of obese diabetic patients. (full – 2010)

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)

CD36 gene deletion decreases oleoylethanolamide levels in small intestine of free-feeding mice. (full – 2010)

N-Acylethanolamine Levels and Expression of Their Metabolizing Enzymes during Pregnancy (full – 2010)

Endocannabinoids and Human Sperm Cells (link to PDF - 2010)

Palmitoylethanolamide and other anandamide congeners. Proposed role in the diseased brain. (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


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


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


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/

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

Endocannabinoids in stressed humans (link to PDF – 2012)
http://www.doaj.org/doaj?func=abstract&id=1152482&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=2&uiLanguage=en

Synthesis of oleoylethanolamide using lipase. (abst – 2012)

Orally administered oleoylethanolamide protects mice from focal cerebral ischemic injury by activating peroxisome proliferator-activated receptor α. (abst – 2012)

Stimulating beta cell replication and improving islet graft function by GPR119 agonists. (abst – 2012)

Hedonic eating is associated with increased peripheral levels of ghrelin and the endocannabinoid 2-arachidonoyl-glycerol in healthy humans: a pilot study. (abst – 2012)

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

Optimized synthesis and characterization of N-acylethanolamines and O-acylethanolamines, important family of lipid-signalling molecules. (abst – 2012)

Temporal changes in N-acylethanolamine content and metabolism throughout the peri-adolescent period (abst – 2012)

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

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 (abst – 2012)

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


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=ece722c0-971c-4ada-8b8c-38c063c19ad


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


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

Palmitoylethanolamide inhibits the expression of fatty acid amide hydrolase and enhances the anti-proliferative effect of anandamide in human breast cancer cells (full - 2001) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1222054/pdf/11485574.pdf/?tool=pmcentrez


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

STUDIES OF ANANDAMIDE ACCUMULATION INHIBITORS IN CEREBELLAR GRANULE NEURONS  (full – 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2248273/

Effects of palmitoylethanolamide on signaling pathways implicated in the development of spinal cord injury.  (full – 2008)  
http://jpet.aspetjournals.org/content/326/1/12.long

Endocannabinoids and nutrition.  (full – 2008)  

'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


Abnormalities in the cerebrospinal fluid levels of endocannabinoids in multiple sclerosis.  (abst – 2008)  

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

Receptors for acylethanolamides-GPR55 and GPR119.  (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751869/?tool=pubmed

Minocycline treatment inhibits microglial activation and alters spinal levels of endocannabinoids in a rat model of neuropathic pain.  (full – 2009)  
http://www.molecularpain.com/content/5/1/35


Plasma endocannabinoid levels in multiple sclerosis.  (abst – 2009)  

N-acylethanolamines, anandamide and food intake.  (abst – 2009)  

Differential alterations of the concentrations of endocannabinoids and related lipids in the subcutaneous adipose tissue of obese diabetic patients.  (full – 2010)

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


Increasing Antiproliferative Properties of Endocannabinoids in N1E-115 Neuroblastoma Cells through Inhibition of Their Metabolism. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3203169/?tool=pubmed

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

Palmitoylethanolamide reduces granuloma-induced hyperalgesia by modulation of mast cell activation in rats (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3034677/?tool=pubmed
Ocular Hypotensive Effect of Oral Palmitoyl-ethanolamide: A Clinical Trial
(full – 2011)  http://www.iovs.org/content/52/9/6096.full?sid=b5ebf404-f190-49ee-9076-758ee6c9190d

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


Effects of palmitoylethanolamide on release of mast cell peptidases and neurotrophic factors after spinal cord injury.     (abst – 2011)

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

Effects of palmitoylethanolamide on the cutaneous allergic inflammatory response in Ascaris hypersensitive Beagle dogs.      (abst – 2011)

Palmitoylethanolamide effects on intraocular pressure after Nd:YAG laser iridotomy: an experimental clinical study.      (abst – 2011)

Palmitoylethanolamide exerts neuroprotective effects in mixed neuroglial cultures and organotypic hippocampal slices via peroxisome proliferator-activated receptor-α. (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3315437/?tool=pubmed

The association of N-palmitoylethanolamine with the FAAH inhibitor URB597 impairs melanoma growth through a supra-additive action    (full – 2012)
http://www.biomedcentral.com/1471-2407/12/92

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

Endocannabinoids measurement in human saliva as potential biomarker of obesity. (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3409167/?tool=pubmed

Therapeutic utility of palmitoylethanolamide in the treatment of neuropathic pain associated with various pathological conditions: a case series     (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3500919/
Palmitoylethanolamide exerts neuroprotective effects in mixed neuroglial cultures and organotypic hippocampal slices via peroxisome proliferator-activated receptor-α (full – 2012) http://www.jneuroinflammation.com/content/9/1/49

The association of N-palmitoylethanolamine with the FAAH inhibitor URB597 impairs melanoma growth through a supra-additive action (full – 2012) http://www.biomedcentral.com/1471-2407/12/92

Endocannabinoids in stressed humans (link to PDF – 2012) http://www.doaj.org/doaj?func=abstract&id=1152482&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=2&uiLanguage=en


The interaction between intrathecal administration of low doses of palmitoylethanolamide and AM251 in formalin-induced pain related behavior and spinal cord IL1-β expression in rats. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22201038

Effects of palmitoylethanolamide on intestinal injury and inflammation caused by ischemia-reperfusion in mice (abst – 2012) http://www.jleukbio.org/content/91/6/911.abstract?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcetype=HW CIT


Inhibition Of Fatty Acid Amide Hydrolase Produces Anti-Tussive Effects In Guinea-Pigs: Evidence For Elevated Fatty Acid Amides Acting Via Cannabinoid Receptors On Airway Sensory Nerves (abst – 2012) http://ajrccm.atsjournals.org/cgi/reprint/185/1_MeetingAbstracts/A2149?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HW CIT


The Novel Reversible Fatty Acid Amide Hydrolase Inhibitor ST4070 Increases Endocannabinoid Brain Levels and Counteracts Neuropathic Pain in Different Animal Models (abst – 2012) http://jpet.aspetjournals.org/content/342/1/188.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5


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 (abst – 2012) http://onlinelibrary.wiley.com/doi/10.1111/j.1476-5381.2012.01889.x/abstract


Molecular evidence for the involvement of PPAR-δ and PPAR-γ in anti-inflammatory and neuroprotective activities of palmitoylethanolamide after spinal cord trauma (full – 2013)  
[http://www.jneuroinflammation.com/content/10/1/20](http://www.jneuroinflammation.com/content/10/1/20)

CB1 and CB2 Cannabinoid Receptor Agonists Induce Peripheral Antinociception by Activation of the Endogenous Noradrenergic System. (abst – 2013)  


The cannabinoid TRPA1 agonist cannabichromene inhibits nitric oxide production in macrophages and ameliorates murine colitis. (abst – 2013)  

Palmitoylethanolamide reduces formalin-induced neuropathic-like behaviour through spinal glial/microglial phenotypical changes in mice. (abst – 2013)  

Measurement of Palmitoylethanolamide and Other N-acylethanolamines During Physiological and Pathological Conditions. (abst – 2013)  

Biosynthetic Pathways of Bioactive N-Acylethanolamines in Brain. (abst – 2013)  

New Insights in Mast Cell Modulation by Palmitoylethanolamide. (abst – 2013)  

Taste sensitivity to 6-n-propylthiouracil is associated with endocannabinoid plasma levels in normal-weight individuals. (abst – 2013)  

Full Inhibition of Spinal FAAH Leads to TRPV1-Mediated Analgesic Effects in Neuropathic Rats and Possible Lipoxygenase-Mediated Remodeling of Anandamide Metabolism. (abst – 2013)  

Circulating endocannabinoids in insulin sensitive vs. Insulin resistant obese postmenopausal women. A MONET group study. (abst – 2013)  

Alterations in the endocannabinoid system in the rat valproic acid model of autism. (abst – 2013)  

Treatment of chronic regional pain syndrome type 1 with palmitoylethanolamide and topical ketamine cream: modulation of nonneuronal cells. (abst – 2013)  
Elevated brain cannabinoid CB1 receptor availability in post-traumatic stress disorder: a positron emission tomography study.  (abst – 2013)  

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-4daa-8b8c-38c0c63c19ad

Glia and Mast Cells as Targets for Palmitoylethanolamide, an Anti-inflammatory and Neuroprotective Lipid Mediator.  (abst – 2013)  

Quantification of endocannabinoids in postmortem brain of schizophrenic subjects.  (abst – 2013)  

Analysis of the "endocannabinoidome" in peripheral tissues of obese Zucker rats.  
(abst – 2013)  

Non-Neuronal Cell Modulation Relieves Neuropathic Pain: Efficacy of the Endogenous Lipid Palmitoylethanolamide  
http://www.eurekaselect.com/107974/article

Neuroglial Roots of Neurodegenerative Diseases: Therapeutic Potential of Palmitoylethanolamide in Models of Alzheimer’s Disease  (abst – 2013)  
http://www.eurekaselect.com/107977/article

Measurement of Palmitoylethanolamide and Other N-Acylethanolamines During Physiological and Pathological Conditions  
http://www.eurekaselect.com/107973/article

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

Palmitoylethanolamide Reduces Formalin-Induced Neuropathic-Like Behaviour Through Spinal Glial/Microglial Phenotypical Changes in Mice  (abst – 2013)  
http://www.eurekaselect.com/107975/article

Effect of Diet on Tissue Levels of Palmitoylethanolamide  (abst – 2013)  
http://www.eurekaselect.com/107972/article

Palmitoylethanolamide is a New Possible Pharmacological Treatment for the Inflammation Associated with Trauma  (abst – 2013)  
http://www.eurekaselect.com/106175/article

Amyotrophic Lateral Sclerosis Treatment with Ultramicronized Palmitoylethanolamide: A Case Report  (abst – 2013)  
http://www.eurekaselect.com/105507/article
Palmitoylethanolamide: From endogenous cannabimimetic substance to innovative medicine for the treatment of cannabis dependence. (abst – 2013)

**VIRODHAMINE** – GPR-55 & CB2 agonist; CB1 agonist/antagonist depending on dose

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

Characterization of a novel endocannabinoid, virodhamine, with antagonist activity at the CB1 receptor. (full – 2002) http://jpet.aspetjournals.org/content/301/3/1020.long


The orphan receptor GPR55 is a novel cannabinoid receptor. (full – 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2095107/?tool=pubmed

GPR55 and the vascular receptors for cannabinoids. (full – 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190021/?tool=pubmed

Virodhamine and CP55,940 modulate cAMP production and IL-8 release in human bronchial epithelial cells. (full – 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2042924/?tool=pubmed

Nicotine (NC)-induced "depressive" behavioral symptoms and effects of antidepressants including cannabinoids (CBs). (full – 2008) https://www.jstage.jst.go.jp/article/jts/33/5/33_5_555/_pdf

Virodhamine relaxes the human pulmonary artery through the endothelial cannabinoid receptor and indirectly through a COX product. (full – 2008) http://www.ncbi.nlm.nih.gov/pubmed/18806815


The Endocannabinoids Anandamide and Virodhamine Modulate the Activity of the Candidate Cannabinoid Receptor GPR55. (abst – 2012)
Optimized synthesis and characterization of N-acyl ethanolamines and O-acyl ethanolamines, important family of lipid-signalling molecules.  (abst – 2012)

The Endocannabinoids Anandamide and Virodhamine Modulate the Activity of the Candidate Cannabinoid Receptor GPR55  (abst – 2012)
http://link.springer.com/article/10.1007%2Fs11481-012-9351-6#page-1

Working memory- and anxiety-related behavioral effects of repeated nicotine as a stressor: the role of cannabinoid receptors.  (abst – 2013)


ENDOCANNABINOID SYSTEM*

Cannabinoids  (encyclopedia entry)  http://www.chemie.de/lexikon/e/Cannabinoids/

Cannabinoid Receptor Ligands  (full - undated)
http://www.tocris.com/pdfs/cannabinoid_receptor_review/page_001.html

Introduction to the Endocannabinoid System  (news – undated)
http://norml.org/library/item/introduction-to-the-endocannabinoid-system

The Cannabinoid System and Cytokine Network  (full - 2000)
http://ebm.rsmjournals.com/cgi/content/full/225/1/1?jikey=ead306e8ffe4a5863e5b7bfdfec3358754b35

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

Cannabinoids, immune system and cytokine network.  (abst – 2000)

Endogenous cannabinoids and appetite.  (abst – 2000)
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

Control by the endogenous cannabinoid system of ras oncogene-dependent tumor growth  (full - 2001)
http://www.fasebj.org/cgi/reprint/15/14/2745?ijkey=1b6e92836655dd275d36c82a7957423ec2106c6a


Attack of the munchies  (news - 2001)  (may need registration)


International Union of Pharmacology. XXVII. Classification of Cannabinoid Receptors  (full – 2002)
http://pharmrev.aspetjournals.org/content/54/2/161.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=Hexahydrocannabinol&searchid=1&FIRSTINDEX=0&sortspec=date&resourcetype=HWCIT#content-block

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

Cannabinoid receptors and their ligands.  (abst - 2002)

Activation of cannabinoid receptors decreases the area of ischemic myocardial necrosis.  (abst - 2002)


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

The Endocannabinoid System in Human Keratinocytes   (full – 2003)
http://www.jbc.org/content/278/36/33896.full

The cannabinoid system and immune modulation       (full – 2003)
http://www.jleukbio.org/content/74/4/486.full.pdf+html

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

Endogenous cannabinoid system as a modulator of food intake.       (full - 2003)
http://www.nature.com/jio/journal/v27/n3/full/0802250a.html


Endocannabinoid signalling in the blood of patients with schizophrenia (full – 2003)     http://www.lipidworld.com/content/2/1/5

The endogenous cannabinoid system affects energy balance via central orexigenic drive and peripheral lipogenesis    (full - 2003) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC166293/


Clinical Endocannabinoid Deficiency        (full - 2004)

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

Effects of Cannabis Therapy on Endogenous Cannabinoids       (full - 2004)
The endogenous cannabinoid system protects against colonic inflammation (full - 2004)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC385396/?tool=pmcentrez

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

Involvement of cannabinoid receptors in gut motility and visceral perception (full - 2004)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574910/?tool=pmcentrez

Fibromyalgia, IBS, and the Endocannabinoid-CB-Receptor (ECBR) system (abst - 2004)  
http://www.prohealth.com/library/showArticle.cfm?libid=10562

Exercise activates the endocannabinoid system. (abst – 2004)  

The endocannabinoid system drives neural progenitor proliferation. (full – 2005)  
http://www.fasebj.org/content/early/2005/09/30/fj.05-3995fje.long

Enhancing Cannabinoid Neurotransmission Augments the Extinction of Conditioned Fear (full - 2005)  
http://www.nature.com/npp/journal/v30/n3/full/1300655a.html

Activation of the Peripheral Endocannabinoid System in Human Obesity (full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228268/?tool=pmcentrez

Endocannabinoids and food intake: newborn suckling and appetite regulation in adulthood. (full - 2005)  
http://ebm.rsmjournals.com/cgi/content/full/230/4/225

Regulation of bone mass, bone loss and osteoclast activity by cannabinoid receptors (full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1430341/?tool=pmcentrez

THE ENDOCANNABINOID SYSTEM: PHYSIOLOGY AND PHARMACOLOGY (full - 2005)  
http://alcalc.oxfordjournals.org/cgi/content/full/40/1/2?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=560&resourcetype=HWCIT

Evidence that the plant cannabinoid Δ9-tetrahydrocannabinvarin is a cannabinoid CB1 and CB2 receptor antagonist (full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751228/?tool=pubmed

Blood pressure regulation by endocannabinoids and their receptors (full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2225528/?tool=pmcentrez

Analgesia through endogenous cannabinoids (analysis - 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


Marijuana May Grow Neurons in the Brain (news - 2005) http://www.medpagetoday.com/Psychiatry/AnxietyStress/1934

Agonists of cannabinoid receptor 1 and 2 inhibit experimental colitis induced by oil of mustard and by dextran sulfate sodium. (full – 2006) http://ajpgi.physiology.org/content/291/2/G364.long

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

Increasing cannabinoid levels by pharmacological and genetic manipulation delay disease progression in SOD1 mice (full - 2006) http://www.fasebj.org/cgi/content/full/20/7/1003

Role of the Cannabinoid System in Pain Control and Therapeutic Implications for the Management of Acute and Chronic Pain Episodes (full - 2006) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2430692/?tool=pubmed

Inhibition of Salivary Secretion by Activation of Cannabinoid Receptors (full - 2006) http://ebm.rsmjournals.com/cgi/content/full/231/8/1421?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=880&resourcetype=HWCIT


The emerging role of the endocannabinoid system in endocrine regulation and energy balance.  (full - 2006)  http://edrv.endojournals.org/cgi/content/full/27/1/73

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


The Endocannabinoid System as an Emerging Target of Pharmacotherapy  (full - 2006)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2241751/?tool=pmcentrez


Endocannabinoid overactivity and intestinal inflammation  (full - 2006)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1856409/?tool=pmcentrez

The Endocannabinoid System Controls Key Epileptogenic Circuits in the Hippocampus  (full - 2006)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1769341/?tool=pmcentrez


Dysregulation of the Peripheral and Adipose Tissue Endocannabinoid System in Human Abdominal Obesity  (full - 2006)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2228260/?tool=pmcentrez


Cannabiniod displays unexpectedly high potency as an antagonist of CB1 and CB2 receptor agonists in vitro (full - 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189767/?tool=pubmed

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

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

Activation of cannabinoid CB1 and CB2 receptors suppresses neuropathic nociception evoked by the chemotherapeutic agent vincristine in rats. (full – 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190028/?tool=pubmed

The psychoactive plant cannabinoid, Delta9-tetrahydrocannabinol, is antagonized by Delta8- and Delta9-tetrahydrocannabivarin in mice in vivo. (full - 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189766/?tool=pubmed

Neuropharmacology of the endocannabinoid signaling system-molecular mechanisms, biological actions and synaptic plasticity. (full - 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2139910/?tool=pubmed

Downregulation of the CB1 Cannabinoid Receptor and Related Molecular Elements of the Endocannabinoid System in Epileptic Human Hippocampus (full - 2007) http://www.jneurosci.org/cgi/content/full/28/12/2976?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HWCIT

Expression and function of cannabinoid receptors CB1 and CB2 and their cognate cannabinoid ligands in murine embryonic stem cells. (full – 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1919431/?tool=pubmed

Cannabinoids: A New Group of Agonists of PPARs (full – 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2220031/?tool=pubmed

Endocannabinoid metabolism and uptake: novel targets for neuropathic and inflammatory pain (full - 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190014/?tool=pubmed

Endocannabinoids and the gastrointestinal tract: what are the key questions? (full - 2007) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190011/?tool=pmcentrez
The endocannabinoid system is dysregulated in multiple sclerosis  
http://brain.oxfordjournals.org/cgi/content/full/awm160v1

Neuropharmacology of the endocannabinoid signaling system-molecular mechanisms, 
biological actions and synaptic plasticity.  
(full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2139910/?tool=pubmed

Cannabinoid action in the olfactory epithelium  
(full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1815290/?tool=pmcentrez

A possible role for the endocannabinoid system in the neurobiology of depression  
(full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2169225/?tool=pubmed

The complications of promiscuity: endocannabinoid action and metabolism  
(full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190010/?tool=pmcentrez

Cannabinoids mediate analgesia largely via peripheral type 1 cannabinoid receptors in 
nociceptors  
(full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2234438/

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

Modulation of Fear and Anxiety by the Endogenous Cannabinoid System  
(full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2789283/?tool=pmcentrez

The endocannabinoid system in targeting inflammatory neurodegenerative diseases  
(full - 2007)  

A possible role for the endocannabinoid system in the neurobiology of depression  
(full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2169225/?tool=pubmed

Endocannabinoid hedonic hotspot for sensory pleasure: anandamide in nucleus 
accumbens shell enhances 'liking' of a sweet reward.  
(full – 2007)  
http://www.nature.com/npp/journal/v32/n11/full/1301376a.html

Modulation of the endocannabinoid system: therapeutic potential against cocaine 
dependence.  
(full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2134985/?tool=pubmed

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=pubmed

Cannabis and Endocannabinoids: The Old Man and the Teenagers  
(full – 2007)  
Endocannabinoids, cannabinoid receptors and inflammatory stress: an interview with Dr. Pál Pacher (interview - 2007)
http://www.jleukbio.org/cgi/content/full/82/6/1390?maxtoshow=&hits=80&RESULTFORMATT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=880&resourcetype=HWCIT

The endocannabinoid system and neurogenesis in health and disease. (abst - 2007)

Endocannabinoid metabolism and uptake: novel targets for neuropathic and inflammatory pain. (abst - 2007)

Cannabinoids and neuroprotection in motor-related disorders. (abst - 2007)

The (Endo)Cannabinoid System in Multiple Sclerosis and Amyotrophic Lateral Sclerosis (abst – 2007)

The local antinociceptive effects of paracetamol in neuropathic pain are mediated by cannabinoid receptors (abst – 2007)

Expression of cannabinoid receptors and neurotrophins in human gliomas. (abst - 2007)

The endocannabinoid network: insight into the regulation of the neuroendocrine and metabolic systems. (abst - 2007)

Overactivity of the intestinal endocannabinoid system in celiac disease and in methotrexate-treated rats. (abst – 2007)

Hippies vindicated: Human-produced cannabinoids have anti-inflammatory powers (news – 2007)
http://www.sciencedex.com/hippies_vindicated_human_produced_cannabinoids_have_ant-inflammatory_powers

The endocannabinoid system (news – 2007)
http://www.xagena.it/news/medicinenews_net_news/27e9efa7a852bca4d9fe0791d2d37b1.html

The importance of the endocannabinoid-system (news - 2007)

Endocannabinoids appear to play important role in regulating inflammation (news - 2007)

Cannabinoid receptors in acute and chronic complications of atherosclerosis (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219535/?tool=pmcentrez

Endocannabinoid Dysregulation in the Pancreas and Adipose Tissue of Mice Fed With a High-fat Diet (full - 2008)
http://www.nature.com/oby/journal/v16/n3/full/oby2007106a.html
Attenuation of Allergic Contact Dermatitis Through the Endocannabinoid System  

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

Genetic variation in endocannabinoid metabolism, gastrointestinal motility, and sensation  
(http://ajpgi.physiology.org/content/294/1/G13.full)

Multiple sclerosis, cannabinoids, and cognition.  
(http://neuro.psychiatryonline.org/cgi/content/full/20/1/36)

The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids: Δ9-tetrahydrocannabinol, cannabidiol and Δ9-tetrahydrocannabivarin  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219532/)

Expression of the Endocannabinoid System in Human First Trimester Placenta and Its Role in Trophoblast Proliferation  
(http://endo.endojournals.org/content/149/10/5052.full?sid=f5b14012-9fbe-4f10-890c-386313060cf8)

Cannabinoid CB2 receptors in human brain inflammation  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219537/)

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

Cannabinoid receptors and the regulation of bone mass  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219540/?tool=pmcentrez)

Characterisation of the cannabinoid receptor system in synovial tissue and fluid in patients with osteoarthritis and rheumatoid arthritis.  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2453762/?tool=pubmed)

The endocannabinoid system: an osteopathic perspective.  
(http://www.jaoa.org/cgi/content/full/108/10/586)

Modulation of the Endocannabinoid System in Cardiovascular Disease  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2568884/?tool=pmcentrez)

Endocannabinoids in the Retina: From Marijuana to Neuroprotection  
(http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2584875/?tool=pubmed)
Endocannabinoid Dysregulation in the Pancreas and Adipose Tissue of Mice Fed With a High-fat Diet (full - 2008)  
http://www.nature.com/oby/journal/v16/n3/full/oby2007106a.html

The endogenous cannabinoid system and drug addiction 20 years after the discovery of the CB1 receptor (full – 2008)  

Function of cannabinoids in heart failure (link to full - 2008)  
http://www.unboundmedicine.com/medline/citation/18464680/abstract/%5BFunction_of_cannabinoids_in_heart_failure%5D

The Medicinal Chemistry of Agents Targeting the Endogenous Cannabinoid System (editorial - 2008)  
http://www.benthamdirect.org/pages/b_viewarticle.php?articleID=3147248

Gender-dependent increases with healthy aging of the human cerebral cannabinoid-type 1 receptor binding using [(18)F]MK-9470 PET. (abst – 2008)  

The rat pineal gland comprises an endocannabinoid system. (abst – 2008)  

The endocannabinoid system in Huntington's disease. (abst - 2008)  

The endocannabinoid system in amyotrophic lateral sclerosis. (abst - 2008)  

Expression of the endocannabinoid system in fibroblasts and myofascial tissues. (abst – 2008)  

The role of the endocannabinoid system in Alzheimer's disease: facts and hypotheses. (abst - 2008)  

Activation of the endocannabinoid system by organophosphorus nerve agents (abst - 2008)  
http://www.nature.com/nchembio/journal/v4/n6/abs/nchembio.86.html

The endocannabinoid system: emotion, learning and addiction. (abst - 2008)  

Immunomodulatory lipids in plants: plant fatty acid amides and the human endocannabinoid system. (abst – 2008)  

ENDOCANNABINOIDS AND THE NEUROCHEMISTRY OF GLUTTONY. (abst - 2008)  

Endogenous cannabinoids: structure and metabolism. (abst - 2008)  
Biology of endocannabinoid synthesis system. (abst – 2008)

The endocannabinoid system and multiple sclerosis. (abst - 2008)

Cannabinoid receptors: where they are and what they do. (abst - 2008)

Dysregulation of the endocannabinoid system in obesity. (abst – 2008)

The role of endocannabinoid system in physiological and pathological processes in the eye (abst - 2008)
http://www.unboundmedicine.com/medline/ebm/record/19195174/full_citation/%5BThe_role_of_endocannabinoid_system_in_physiological_and_pathological_processes_in_the_eye%5D


New brain cells implicated in machinery of cannabinoid signaling (news – 2008)

Starting Point Of Sun-Induced Skin Cancer Discovered: Molecular 'Hooks' Also Pull Compounds From Marijuana From Bloodstream (news - 2008)
http://www.sciencedaily.com/releases/2008/05/080515072642.htm

Salutary pizza spice (news – 2008)

Cannabinoids, Endocannabinoids, and Related Analogs in Inflammation (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2664885/?tool=pubmed

Changes in the Endocannabinoid System May Give Insight into new and Effective Treatments for Cancer (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2791688/?tool=pmcentrez

Effects of Cannabinoids on Caffeine Contractures in Slow and Fast Skeletal Muscle Fibers of the Frog (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2697372/?tool=pmcentrez
Ulcerative Colitis Induces Changes on the Expression of the Endocannabinoid System in the Human Colonic Tissue  (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2731878/?tool=pmcentrez

Localisation and Function of the Endocannabinoid System in the Human Ovary  (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2640464/?tool=pmcentrez

Voluntary Exercise and Sucrose Consumption Enhance Cannabinoid CB1 Receptor Sensitivity in the Striatum  (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3055381/?tool=pubmed

Cannabinoids: An emerging role in pain management?  (full - 2009)  

Dynamic regulation of the endocannabinoid system: implications for analgesia  (full - 2009)  
http://www.molecularpain.com/content/5/1/59

Endocannabinoid signalling as an anti-inflammatory therapeutic target in atherosclerosis: does it work?  (full – 2009)  
http://cardiovascres.oxfordjournals.org/content/84/3/341.full?sid=7d2438c4-a727-410f-870d-4a971695b4fb

Cannabinoids, Endocannabinoids, and Related Analogs in Inflammation  (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2664885/?tool=pubmed

Biomarkers of Endocannabinoid System Activation in Severe Obesity  (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2808340/?tool=pubmed

The emerging role of the endocannabinoid system in cardiovascular disease  (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2791499/?tool=pmcentrez

Endocannabinoid signaling in microglial cells.  (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2654419/?tool=pubmed

Endocannabinoid-mediated control of synaptic transmission.  (full – 2009)  
http://physrev.physiology.org/content/89/1/309.long

Selective blockade of 2-arachidonoylgllycerol hydrolysis produces cannabinoid behavioral effects  (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2605181/

The endocannabinoid system and pain.  (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2834283/?tool=pmcentrez

The endocannabinoid system of the skin in health and disease: novel perspectives and therapeutic opportunities  (full - 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2757311/?tool=pmcentrez
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

Cannabinoids, Miracle Drug of the 21st Century by Jeffrey Dach MD (web site article/ad - 2009) (has a free e-book)

Impairments in Endocannabinoid Signaling and Depressive Illness (full – 2009)

The Endocannabinoid System in the Brain: From Biology to Therapy (editorial - 2009)
http://www.benthamdirect.org/pages/b_viewarticle.php?articleID=313680


Cannabinoid receptors in brain: pharmacogenetics, neuropharmacology, neurotoxicology, and potential therapeutic applications. (abst - 2009)


The endocannabinoid system: Its general strategy of action, tools for its pharmacological manipulation and potential therapeutic exploitation (abst - 2009)

Cannabinoid receptors: a brief history and "what's hot". (abst - 2009)

An introduction to the endocannabinoid system: from the early to the latest concepts (abst - 2009)
http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WBD-4Y95RFK-3&_fmt=high&_coverDate=02%2F28%2F2009&_rdoc=1&_orig=article&_acct=C000050221&_version=1&_urlVersion=0&md5=8ee6f23b0ded1d277a88710fc8c37bb

The endocannabinoid system as a target for the treatment of motor dysfunction. (abst - 2009)

From endocannabinoid profiling to 'endocannabinoid therapeutics’. (abst – 2009)  

Enhanced Sweet Taste: Endocannabinoids Act Directly on Tongue Taste Receptors (news - 2009)  

The cannabinoid system: cannabinoids and receptors (news – 2009)  

Enhanced sweet taste: This is your tongue on pot (news – 2009)  

Endocannabinoid Overload (full – 2010)  
http://molpharm.aspetjournals.org/content/78/6/993.full

Motion Sickness, Stress and the Endocannabinoid System (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2873996/?tool=pmcentrez

The endocannabinoid system as a target for the treatment of neurodegenerative disease (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931550/?tool=pubmed

Enhancement of endocannabinoid signaling by fatty acid amide hydrolase inhibition: a neuroprotective therapeutic modality. (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2848893/?tool=pubmed

Enhanced endocannabinoid signaling elevates neuronal excitability in fragile X syndrome. (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2906112/

Endocannabinoids selectively enhance sweet taste (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2818929/?tool=pmcentrez

The endocannabinoid system links gut microbiota to adipogenesis (full - 2010)  
http://www.nature.com/msb/journal/v6/n1/full/msb201046.html

Evidence for a Role of Endocannabinoids, Astrocytes and p38 Phosphorylation in the Resolution of Postoperative Pain (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2878341/?tool=pmcentrez

The multiple functions of the endocannabinoid system: a focus on the regulation of food intake. (full - 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2832623/?tool=pubmed
Cannabinoid-induced apoptosis in immune cells as a pathway to immunosuppression. (full - 2010) [Link to PDF]

Endocannabinoid signalling: has it got rhythm? (full – 2010) [Link to PDF]

Dietary docosahexaenoic acid supplementation alters select physiological endocannabinoid-system metabolites in brain and plasma (full – 2010) [Link to PDF]

Functional role of cannabinoid receptors in urinary bladder (full - 2010) [Link to PDF]

International Union of Basic and Clinical Pharmacology. LXXIX. Cannabinoid receptors and their ligands: beyond CB1 and CB2 (full - 2010) [Link to PDF]

The serine hydrolase ABHD6 controls the accumulation and efficacy of 2-AG at cannabinoid receptors. (full – 2010) [Link to PDF]

Mice lacking cannabinoid CB1-, CB2-receptors or both receptors show increased susceptibility to trinitrobenzene sulfonic acid (TNBS)-induced colitis. (full – 2010) [Link to PDF]

Rehashing endocannabinoid antagonists: can we selectively target the periphery to safely treat obesity and type 2 diabetes? (full – 2010) [Link to PDF]

Involvement of cannabinoid-1 and cannabinoid-2 receptors in septic ileus. (full – 2010) [Link to PDF]

Can autism be triggered by acetaminophen activation of the endocannabinoid system? (link to PDF – 2010) [Link to PDF]

Potential role of the cannabinoid receptor CB in the pathogenesis of erosive and non-erosive gastro-oesophageal reflux disease. (abst - 2010) [Link to PDF]

Bimodal control of stimulated food intake by the endocannabinoid system. (abst – 2010) [Link to PDF]

The endocannabinoid system modulates the valence of the emotion associated to food ingestion (abst – 2010) [Link to PDF]

Deficiency in Endocannabinoid Signaling in the Nucleus Accumbens Induced by Chronic Unpredictable Stress (abst - 2010) http://www.nature.com/npp/journal/vaop/ncurrent/abs/npp201099a.html


Recent advances in the understanding of the role of the endocannabinoid system in liver diseases. (abst - 2010) http://www.ncbi.nlm.nih.gov/pubmed/20934397


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) http://www.unboundmedicine.com/medline/ebm/record/19847654/abstract/Non_CB1_non_CB2_receptors_for_endocannabinoids_plant_cannabinoids_and_synthetic_cannabimimetics:_focus_on_G_protein_coupled_receptors_and_transient_receptor_potential_channels

Not Feeling Well? Perhaps You're 'Marijuana Deficient' (news – 2010) http://www.alternet.org/health/146151/not_feeling_well_perhaps_you%27re_%27marijuana_deficient%27/

Levels And Efficacy Of A Marijuana-Like Substance In The Brain Controlled By Newly Discovered Mechanism (news – 2010) http://www.medicalnewstoday.com/releases/197171.php
Gadolinium-HU-308-incorporated micelles. (full – 2011)  

Gut feelings about the endocannabinoid system (full – 2011)  

Cannabinoid system and cyclooxygenases inhibitors (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3056416/?tool=pubmed

The endocannabinoid system and cancer: therapeutic implication (full – 2011)  

Cannabinoid receptors, CB1 and CB2, as novel targets for inhibition of non-small cell lung cancer growth and metastasis (full - 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3025486/?tool=pubmed

Endocannabinoid system protects against cryptogenic seizures. (full – 2011)  

The endocannabinoid system in sepsis – a potential target to improve microcirculation? (full – 2011)  

Endocannabinoid system in cardiovascular disorders - new pharmacotherapeutic opportunities (full – 2011)  
http://www.jpbsonline.org/article.asp?issn=0975-7406;year=2011;volume=3;issue=3;spage=350;epage=360;aulast=Cunha

Role for cannabinoid receptors in human proximal tubular hypertrophy. (full – 2011)  

Is lipid signaling through cannabinoid 2 receptors part of a protective system? (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3062638/

Adipose tissue endocannabinoid system gene expression: depot differences and effects of diet and exercise (full – 2011)  
http://www.lipidworld.com/content/10/1/194

Endogenous Cannabinoid Production in the Rat Female Reproductive Tract Is Regulated by Changes in the Hormonal Milieu (link to PDF – 2011)  
http://www.mdpi.com/1424-8247/4/6/933

The Endocannabinoid System as Pharmacological Target Derived from Its CNS Role in Energy Homeostasis and Reward. Applications in Eating Disorders and Addiction (link to PDF - 2011)  

The G protein-coupled cannabinoid-1 (CB(1)) receptor of mammalian brain: Inhibition by phthalate esters in vitro. (abst - 2011)  


Early exposure to Environmental enrichment alters the expression of genes of the endocannabinoid system (abst – 2011) http://www.unboundmedicine.com/medline/ebm/record/21419109/abstract/Early_exposure_to_Environmental_enrichment_alters_the_expression_of_genes_of_the_endocannabinoid_system


α-Tocopherol and α-tocopheryl phosphate interact with the cannabinoid system in the rodent hippocampus.  (abst - 2011)  http://www.ncbi.nlm.nih.gov/pubmed/21843633


Endocannabinoid system and psychiatry: in search of a neurobiological basis for detrimental and potential therapeutic effects.  (abst – 2011)  http://www.unboundmedicine.com/medline/ebm/record/22007164/abstract/Endocannabinoid_system_and_psychiatry:_in_search_of_a_neurobiological_basis_for_detrimental_and_potential_therapeutic_effects

Interictal Type 1 Cannabinoid Receptor Binding is Increased in Female Migraine Patients.  (abst – 2011)  http://www.ncbi.nlm.nih.gov/pubmed/22077199


Effects of endocannabinoid system modulation on cognitive and emotional behavior. (abst – 2011)  http://marijuana.researchtoday.net/archive/8/9/4801.htm


The genetic basis of the endocannabinoid system and drug addiction in humans  (abst – 2011)  http://jop.sagepub.com/content/early/2011/09/20/0269881111416689


Omega-3 deficiency disrupts cannabinoid receptor function in brain  (news – 2011)
A Brain Wrought Without Omega-3 (news – 2011)  
http://www.schizophreniaforum.org/new/detail.asp?id=1646

Introduction to the Endocannabinoid System (news – 2011)  
http://norml.org/index.cfm?Group_ID=8444

Marijuana Compound Treats Multiple Health Issues (news – 2011)  
http://www.foxnews.com/health/2010/03/10/cannabis-deficient

Pot and Pumpkin Pie: Endocannabinoid System Enhanced by Vitamin E (news – 2011)  

Poor Diet Impairs Cannabinoid Receptors (news – 2011)  

Chocolate & marijuana: chemical cousins (news – 2011)  

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

What An Expectant Mother Eats Affects Children’s Psychology in Later Life (news – 2011)  

Omega-3 Fatty Acids Essential for Normal Regulation of Mood in the Brain (news – 2011)  

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

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

A Dysregulated Endocannabinoid-Eicosanoid Network Supports Pathogenesis in a Mouse Model of Alzheimer's Disease (full – 2012)  
http://download.cell.com/cell-reports/mmcs/journals/2211-1247/PIIS2211124712001258.mmc2.pdf

Irritable bowel syndrome: a dysfunction of the endocannabinoid system? (full – 2012)  
http://www.gastrojournal.org/article/S0016-5085%2811%2901710-0/fulltext
Review article: Endocannabinoids in neuroendopsychology: multiphasic control of mitochondrial function (full – 2012)
http://rstb.royalsocietypublishing.org/content/367/1607/3342.full?sid=dd42995f-c629-4f8c-86a0-5e962e352fda

The dynamic nature of type 1 cannabinoid receptor (CB1) gene transcription (full - 2012)

Endocannabinoids Stimulate Human Melanogenesis via Type-1 Cannabinoid Receptor (full – 2012)
http://www.jbc.org/content/early/2012/03/19/jbc.M111.314880.full.pdf+html

Diet-dependent modulation of hippocampal expression of endocannabinoid signaling-related proteins in cannabinoid antagonist-treated obese rats. (full – 2012)

Differences in the endocannabinoid system of sperm from fertile and infertile men. (full – 2012)
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0047704

Site-specific and time-dependent activation of the endocannabinoid system after transection of long-range projections. (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3310878/?tool=pubmed

Cannabinoid modulation of neuroinflammatory disorders. (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3386505/

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/

A polymorphism in the gene of the endocannabinoid-degrading enzyme FAAH (FAAH C385A) is associated with emotional–motivational reactivity (full – 2012)

Role of cannabinoids in the regulation of bone remodeling (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3499879/

So what do we call GPR18 now? (full – 2012)

The cannabinoid receptor CB1 modulates the signaling properties of the lysophosphatidylinositol receptor GPR55. (full – 2012)
http://www.jbc.org/content/early/2012/11/16/jbc.M112.364109.long

Gut microbiota and the development of obesity. (full – 2012)

Interleukin-1β causes anxiety by interacting with the endocannabinoid system. (full – 2012) http://www.jneurosci.org/content/32/40/13896.long

Critical role of the endocannabinoid system in mediating rapid glucocorticoid effects on memory for emotionally arousing experiences (link to PDF - 2012) http://www.doaj.org/doaj?func=abstract&id=1152481&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=3&uiLanguage=en


Review article: Why do cannabinoid receptors have more than one endogenous ligand? (abst - 2012) http://www.ncbi.nlm.nih.gov/pubmed/23108541


Expression and localization of the cannabinoid receptor type 1 and the enzyme fatty acid amide hydrolase in the retina of vervet monkeys. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22142900


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/

Prevention of Fibrosis Progression in CCl4-Treated Rats: Role of the Hepatic Endocannabinoid and Apelin Systems (abst – 2012) http://jpet.aspetjournals.org/content/340/3/629.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5

Medial prefrontal cortex endocannabinoid system modulates baroreflex activity through CB1 receptors (abst – 2012) http://ajpregu.physiology.org/content/302/7/R876.abstract?sid=952e2125-0502-477c-b603-30f0f3e51b55


Investigation of endocannabinoid system genes suggests association between peroxisome proliferator activator receptor-α gene (PPARA) and schizophrenia. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22920733


Cortisol-mediated adhesion of synovial fibroblasts is dependent on the degradation of anandamide and activation of the endocannabinoid system  (abst - 2012)  http://onlinelibrary.wiley.com/doi/10.1002/art.37684/abstract
Pharmacological modulation of the endocannabinoid signalling alters binge-type eating behaviour in female rats  (abst – 2012)

N-acyl amines of docosahexaenoic acid and other n-3 polyunsatured fatty acids – From fishy endocannabinoids to potential leads  (abst – 2012)

The role of the endocannabinoid system in skeletal muscle and metabolic adaptations to exercise: potential implications for the treatment of obesity  (abst – 2012)

The effects of fasting duration on gastric emptying in man, an exploration of the role of the endocannabinoid system and inter-individual responsiveness  (abst – 2012)


Endocannabinoid system and mood disorders: Priming a target for new therapies.  (abst – 2012)  

Long-term use of HU210 adversely affects spermatogenesis in rats by modulating the endocannabinoid system  (abst – 2012)

Minireview: Endocannabinoids and Gonadal Hormones: Bidirectional Interactions in Physiology and Behavior  (abst – 2012)
http://endo.endojournals.org/content/153/3/1016.abstact?sid=f9729cfl-d221-42d4-81d8-8545db5df878

Cannabinoid modulation of mother-infant interaction: is it just about milk?  (abst – 2012)

Evidence for Bidirectional Endocannabinoid Transport across Cell Membranes  (abst – 2012)
http://www.ibc.org/content/287/41/34660.abstract?sid=ed624bce-ed4a-490a-acb1-3497d91ae9bd

How Weed Can Protect Us From Cancer and Alzheimer's  (book excerpt – 2012)
http://www.alternet.org/story/156269/how_weed_can_protect_us_from_cancer_and_alzheimer%27s

Cannabinoid 2 receptors regulate impulsive behavior  (news – 2012)

'Runner's High' may have played role in evolutionary history of humans  (news – 2012)
http://in.news.yahoo.com/runners-high-may-played-role-evolutionary-history-humans-105030765.html
Amyrin and the endocannabinoid system       (news – 2012)  
http://gertschgroup.com/blog/entry/3188293/amyrin-and-the-endocannabinoid-system

Epigenetic mechanisms and endocannabinoid signaling       (full – 2013)  

Metabolisms of endocannabinoids and related N-acyl ethanolamines: Canonical and alternate pathways       (full – 2013)  

The role of endocannabinoids in pain modulation.       (full – 2013)  

Endogenous cannabinoid receptor CB1 activation promotes vascular smooth muscle cell proliferation and neointima formation.       (full – 2013)  
http://www.jlr.org/content/early/2013/03/11/jlr.M035147.long

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

Surfing the (endo)cannabinoids wave.       (full – 2013)  

A biophysical model of endocannabinoid-mediated short term depression in hippocampal inhibition.       (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0058926

Modulating the endocannabinoid system in human health and disease: successes and failures       (full – 2013)  

Ghrelin-Induced Orexigenic Effect in Rats Depends on the Metabolic Status and Is Counteracted by Peripheral CB1 Receptor Antagonism.       (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0060918

Alterations to Melanocortinergic, GABAergic and Cannabinoid Neurotransmission Associated with Olanzapine-Induced Weight Gain       (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0033548

GPR55 and its interaction with membrane lipids: comparison with other endocannabinoid-binding receptors.       (link to PDF - 2013)  
http://www.eurekaselect.com/105678/article

The endocannabinoid system provides an avenue for evidence-based treatment development for PTSD.       (1<sup>st</sup> page – 2013)  

Nicotine-Induced Neuroprotection Against Ischemic Injury Involves Activation of Endocannabinoid System in Rats       (abst – 2013)
Evidence for the involvement of cannabinoid receptors' polymorphisms in the pathophysiology of human diseases. (abst – 2013)

Synaptamide, endocannabinoid-like derivative of docosahexaenoic acid with cannabinoid-independent function. (abst – 2013)


Autism-Associated Neuroligin-3 Mutations Commonly Disrupt Tonic Endocannabinoid Signaling. (abst – 2013)  

The endocannabinoid signaling system in cancer. (abst – 2013)  

Cannabinoid receptors and cholecystokinin in feeding inhibition. (abst – 2013)  

The endocannabinoid system in obesity. (abst – 2013)  

Cytotoxic effect of Efavirenz is selective against cancer cells and associated with the cannabinoid system. (abst – 2013)  

CB1 receptor signaling regulates social anxiety and memory. (abst – 2013)  

Alterations in the endocannabinoid system in the rat valproic acid model of autism. (abst – 2013)  

Emotional, endocrine and brain anandamide response to social challenge in infant male rats. (abst – 2013)  

In vitro and in vivo models of Huntington's disease show alterations in the endocannabinoid system. (abst – 2013)  

Impact of omega-6 polyunsaturated fatty acid supplementation and γ-aminobutyric acid on astrogliogenesis through the endocannabinoid system. (abst – 2013)  

In search of endocannabinoid degradation enzymes inhibitors in nutmeg. (abst – 2013)  
http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1097.5?sid=eea722c0-971c-4daa-8b8c-38c063c19ad

http://www.fasebj.org/cgi/content/meeting_abstract/26/1_MeetingAbstracts/465.2?sid=eea722c0-971c-4daa-8b8c-38c063c19ad

Interrogating Therapeutic Manipulation of the Endocannabinoid System in Human Colon. (abst – 2013)  
http://www.fasebj.org/cgi/content/meeting_abstract/26/1_MeetingAbstracts/1123.1?sid=eea722c0-971c-4daa-8b8c-38c063c19ad

Cannabis, a complex plant: different compounds and different effects on individuals. (abst – 2013)  
http://tpp.sagepub.com/content/2/6/241.abstract
Effects of compounds that interfere with the endocannabinoid system on behaviors predictive of anxiolytic and panicoletic activity in the elevated T-maze (abst – 2013)  

Dysregulation of Cannabinoid CB1 Receptor and Associated Signaling Networks in Brains of Cocaine Addicts and Cocaine-Treated Rodents. (abst – 2013)  

Transient changes in the endocannabinoid system after acute and chronic ethanol exposure and abstinence in the rat: a combined PET and microdialysis study. (abst – 2013)  

Endogenous cannabinoids in amygdala and hippocampus in post-mortem brains of Cloninger type 1 and 2 alcoholics. (abst – 2013)  

The role of endocannabinoids system in fatty liver disease and therapeutic potentials. (abst – 2013)  

Peripheral endocannabinoid system dysregulation in first-episode psychosis. (abst – 2013)  

Changes in Cb1 and Cb2 Receptors in the Postmortem Cerebellum of Humans Affected by Spinocerebellar Ataxias. (abst – 2013)  

Role of the cannabinoid system in the transit of beta-amyloid across the blood-brain barrier. (abst – 2013)  

Analysis of the "endocannabinoidome" in peripheral tissues of obese Zucker rats. (abst – 2013)  

The Role of the Endocannabinoid System in Eating Disorders: Neurochemical and Behavioural Preclinical Evidence. (abst – 2013)  

Neuroactive insecticides: targets, selectivity, resistance, and secondary effects. (abst – 2013)  

Cannabinoids, Neurogenesis and Antidepressant Drugs: Is there a Link? (abst – 2013)  
http://www.eurekaselect.com/109295/article

Depolarisation-induced suppression of a glycinergic synapse in the superior olivary complex by endocannabinoids. (abst – 2013)  

Complex Interplay between the Cannabinoid CB1 Receptor and Corticotropin-Releasing Hormone in the Regulation of Appetite, Food Intake and Energy Expenditure
Circadian rhythm of circulating endocannabinoid (EC), 2-arachidonoylglycerol (2-AG), concentrations following normal and restricted sleep  
http://edrv.endojournals.org/cgi/content/meeting_abstract/34/03_MeetingAbstracts/MON-671?sid=89628f3e-b2f1-448c-b0df-984f390dfffd2

Endocannabinoid receptor (CB1R) deficiency affects maternal care and alters the dam's hippocampal oxytocin receptor and BDNF expression  

Exogenous Delta9-Tetrahydrocannabinol Influences Circulating Endogenous Cannabinoids in Humans.  

Key Shift in Brain That Creates Drive to Overeat Identified  
http://www.sciencedaily.com/releases/2013/04/130429154214.htm

A Link Between Autism and Cannabinoids  

London Zoo: No runner's high for ferrets  

Do Dogs Get Runner's High?  

GABA deficits disturb endocannabinoid system  
http://www.sciencecodex.com/read/gaba_deficits_disturb_endocannabinoid_system-84784

---

**CBR - CB1 CANNABINOID RECEPTOR**
-activated by THC, Anandamide, synthetics

Cannabinoid Receptor Ligands  
(full - undated)  
http://www.tocris.com/pdfs/cannabinoid_receptor_review/page_001.html

Introduction to the Endocannabinoid System  
(news – undated)  
http://norml.org/library/item/introduction-to-the-endocannabinoid-system

Endocannabinoids and Vascular Function  
(full - 2000)  
http://jpet.aspetjournals.org/content/294/1/27.long
Effects of cannabinoid receptor agonists on neuronally-evoked contractions of urinary bladder tissues isolated from rat, mouse, pig, dog, monkey and human (full - 2000)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1571997/?tool=pmcentrez

Modulation of peristalsis by cannabinoid CB1 ligands in the isolated guinea-pig ileum (full - 2000)  

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

http://www.springerlink.com/content/w3jc8rk16k9p92fl/

Inhibition of small intestinal secretion by cannabinoids is CB1 receptor-mediated in rats (abst – 2000)  

Sex steroid influence on cannabinoid CB(1) receptor mRNA and endocannabinoid levels in the anterior pituitary gland. (abst – 2000)  

Association study of a cannabinoid receptor gene (CNR1) polymorphism and schizophrenia (abst – 2000)  

http://www.medical-hypotheses.com/article/S0306-9877%2800%2901261-1/abstract

CB1 cannabinoid receptor expression in brain regions associated with zebra finch song control. (abst – 2000)  

Delta(9)-tetrahydrocannabinol and synthetic cannabinoids prevent emesis produced by the cannabinoid CB(1) receptor antagonist/inverse agonist SR 141716A. (full – 2001)  
http://www.nature.com/npp/journal/v24/n2/full/1395605a.html

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

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=HWCTT

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

Supersensitivity to anandamide and enhanced endogenous cannabinoid signaling in mice lacking fatty acid amide hydrolase (full - 2001)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC55427/?tool=pubmed
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

The neurobiology and evolution of cannabinoid signalling (abst – 2001) http://rstb.royalsocietypublishing.org/content/356/1407/381.abstract?ijkey=3aad97283bf56bae0ada89fe6c25ef27a702e9ba&keytype2=tf_ipsecsha


A Peripheral Mechanism for CB1 Cannabinoid Receptor-Dependent Modulation of Feeding (full – 2002) http://www.jneurosci.org/cgi/content/abstract/22/21/9612?ijkey=328b5e83d7be9297b9483d22e0d6319fa0a86e8&keytype2=tf_ipsecsha

Influence of the CB1 receptor antagonist, AM 251, on the regional haemodynamic effects of WIN-55212-2 or HU 210 in conscious rats (full - 2002) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573379/?tool=pmcentrez

Increased Severity of Stroke in CB1 Cannabinoid Receptor Knock-Out Mice (full - 2002) http://www.jneurosci.org/cgi/content/full/22/22/9771?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&resourcetype=HWCIT#Top


Differential Roles of CB1 and CB2 Cannabinoid Receptors in Mast Cells (full – 2003) http://www.jimmunol.org/content/170/10/4953.full?sid=590f7819-f39b-4214-abca-07231b51da55
CB1 cannabinoid receptor antagonism promotes remodeling and cannabinoid treatment prevents endothelial dysfunction and hypotension in rats with myocardial infarction (full - 2003)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1573770/?tool=pmcentre

Endocannabinoid signalling in the blood of patients with schizophrenia (full – 2003)  http://www.lipidworld.com/content/2/1/5

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

The endogenous cannabinoid system affects energy balance via central orexigenic drive and peripheral lipogenesis (full - 2003)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC166293/

Cannabinoid1 receptor in the dorsal vagal complex modulates lower oesophageal sphincter relaxation in ferrets (full – 2003)  http://jp.physoc.org/content/550/1/149.full

Cannabinoid receptor type 1 modulates excitatory and inhibitory neurotransmission in mouse colon (full – 2003)  http://ajpgi.physiology.org/content/286/1/G110.full?sid=fc6948f0-78cf-405c-981b-aafa05ee417c

Association between cannabinoid receptor gene (CNR1) and childhood attention deficit/hyperactivity disorder in Spanish male alcoholic patients (full - 2003)  http://www.nature.com/mp/journal/v8/n5/full/4001278a.html

Inhibitory effects of cannabinoid CB1 receptor stimulation on tumor growth and metastatic spreading: actions on signals involved in angiogenesis and metastasis1 (full - 2003)  http://www.fasebj.org/cgi/reprint/17/12/1771


Structure, expression and regulation of the cannabinoid receptor gene (CB1) in Huntington's disease transgenic mice.  (full – 2004)  

Presynaptic cannabinoid CB1 receptors are involved in the inhibition of the neurogenic vasopressor response during septic shock in pithed rats  (full - 2004)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1575049/?tool=pmcentrez

Defective adult neurogenesis in CB1 cannabinoid receptor knockout mice.  (full - 2004)  
http://molpharm.aspetjournals.org/content/66/2/204.long

CB1 cannabinoid receptor knockout in mice leads to leanness, resistance to diet-induced obesity and enhanced leptin sensitivity  (full - 2004)  
http://www.nature.com/iiojournal/v28/n4/full/0802583a.html

Human cannabinoid receptor 1: 5’ exons, candidate regulatory regions, polymorphisms, haplotypes and association with polysubstance abuse.  (full – 2004)  
http://www.nature.com/mp/journal/v9/n10/full/4001560a.html

Delayed onset of Huntington's disease in mice in an enriched environment correlates with delayed loss of cannabinoid CB1 receptors.  (abst – 2004)  


Context-dependent effects of CB1 cannabinoid gene disruption on anxiety-like and social behaviour in mice  (abst – 2004)  

Overeating, Alcohol and Sucrose Consumption Decrease in Cb1 Receptor Deleted Mice.
On the Cannabinoid Receptor: A Study in Molecular Psychiatry (full – 2005)

Enhancing Cannabinoid Neurotransmission Augments the Extinction of Conditioned Fear (full - 2005)
http://www.nature.com/npp/journal/v30/n3/full/1300655a.html

Depression in Parkinson's disease is related to a genetic polymorphism of the cannabinoid receptor gene (CNR1) (full - 2005)
http://www.nature.com/tpj/journal/v5/n2/full/6500301a.html

Synergistic Interactions between Cannabinoids and Environmental Stress in the Activation of the Central Amygdala (full - 2005)
http://www.nature.com/npp/journal/v30/n3/full/1300535a.html

Endocannabinoid activation at hepatic CB1 receptors stimulates fatty acid synthesis and contributes to diet-induced obesity (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1087161/?tool=pmcentrez

The cannabinoid 1 receptor antagonist, AM251, prolongs the survival of rats with severe acute pancreatitis. (full - 2005) https://www.jstage.jst.go.jp/article/tjem/207/2/207_2_99/_pdf

Direct cerebrovascular effects of CB1 receptor activation by the synthetic endocannabinoid HU-210 in vivo (full - 2005)
http://www.nature.com/jcbfm/journal/v25/n1s/full/9591524.0581a.html

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

Evidence that the plant cannabinoid Δ9-tetrahydrocannabivarin is a cannabinoid CB1 and CB2 receptor antagonist (full - 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751228/?tool=pubmed

Early age-related cognitive impairment in mice lacking cannabinoid CB1 receptors. (full – 2005)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1266095/?tool=pubmed

Antidepressant-like Activity and Modulation of Brain Monoaminergic Transmission by Blockade of Anandamide Hydrolysis. (full – 2005)
http://www.pnas.org/content/102/51/18620.long

Ethanol Induces Higher Bec in Cb1 Cannabinoid Receptor Knockout Mice While Decreasing Ethanol Preference. (full – 2005)
http://alcalc.oxfordjournals.org/content/40/1/54.long

Increased anandamide induced relaxation in mesenteric arteries of cirrhotic rats: role of cannabinoid and vanilloid receptors (full – 2005)
http://gut.bmj.com/content/54/4/522.full?sid=0731f0e5-2071-4549-be57-57f444307138
The endocannabinoid system drives neural progenitor proliferation. (full – 2005)  
http://www.fasebj.org/content/early/2005/09/30/fj.05-3995fje.long

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=HW

Interaction between gamma-aminobutyric acid GABAB and cannabinoid CB1 receptors in spinal pain pathways in rat (abst – 2005)  

The analgesic activity of paracetamol is prevented by the blockade of cannabinoid CB1 receptors (abst – 2005)  

The Endogenous Cannabinoid System. Therapeutic Implications for Neurologic and Psychiatric Disorders (abst – 2005)  

Cannabinoid-receptor 1 null mice are susceptible to neurofilament damage and caspase 3 activation. (abst – 2005)  


Marijuana May Grow Neurons in the Brain (news - 2005)  
http://www.medpagetoday.com/Psychiatry/AnxietyStress/1934

The Endocannabinoid System Controls Key Epileptogenic Circuits in the Hippocampus (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1769341/?tool=pmcentrez

AM 251 produces sustained reductions in food intake and body weight that are resistant to tolerance and conditioned taste aversion (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1615836/?tool=pmcentrez

Activation of the Cannabinoid Type-1 Receptor Mediates the Anticonvulsant Properties of Cannabinoids in the Hippocampal Neuronal Culture Models of Acquired Epilepsy and Status Epilepticus (full - 2006)  
http://jpet.aspetjournals.org/content/317/3/1072.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT#ref-list-1

Activation of G-proteins in brain by endogenous and exogenous cannabinoids. (full – 2006)  

The Cannabinoid Cb1 Receptor Antagonist Rimonabant Attenuates the Hypotensive Effect of Smoked Marijuana in Male Smokers. (full – 2006)  
http://www.ahjongline.com/article/S0002-8703%2805%2901013-6/fulltext
Cannabinoid (CB1) Receptor Activation Inhibits Trigeminovascular Neurons (full - 2006)  
http://jpet.aspetjournals.org/content/320/1/64.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabis&searchid=1&FIRSTINDEX=3680&resourcetype=HWCIT

Cannabinoid CB1 receptor antagonists cause status epilepticus-like activity in the hippocampal neuronal culture model of acquired epilepsy (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1808496/?tool=pmcentrez

Antinociceptive effect of cannabinoid agonist WIN 55,212–2 in rats with a spinal cord injury (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1861843/?tool=pmcentrez

Involvement of Neuronal Cannabinoid Receptor CB1 in Regulation of Bone Mass and Bone Remodeling (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2238031/?tool=pmcentrez

Inhibitory effects of cannabinoid CB1 receptor stimulation on tumor growth and metastatic spreading: actions on signals involved in angiogenesis and metastasis (full - 2006)  
http://www.fasebj.org/cgi/reprint/02-1129?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=10&sortspec=relevance&resourcetype=HWCIT

Cannabinoid CB1 Receptor Mediates Fear Extinction via Habituation-Like Processes (full - 2006)  
http://www.jneurosci.org/cgi/content/full/26/25/6677?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=400&resourcetype=HWCIT


http://pharmgkb.org/pmid/16314880

Neuromodulatory functions of the endocannabinoid system. (abst – 2006)  

Effects of endocannabinoid neurotransmission modulators on brain stimulation reward. (abst – 2006)  

Science: Cannabinoids reduce inflammation of the bowel in animal model (news - 2006)  
http://www.cannabis-med.org/english/bulletin/ww_en_db_cannabis_artikel.php?id=216#1

The cannabinoid CB1 receptor regulates bone formation by modulating adrenergic signaling.  (full - 2007)  http://www.fasebj.org/cgi/content/full/22/1/285

The Endogenous Cannabinoid Anandamide Produces δ-9-Tetrahydrocannabinol-Like Discriminative and Neurochemical Effects That Are Enhanced by Inhibition of Fatty Acid Amide Hydrolase but Not by Inhibition of Anandamide Transport  (full - 2007)  http://jpet.aspetjournals.org/content/321/1/370.full

Anandamide Regulates Keratinocyte Differentiation by Inducing DNA Methylation in a CB1 Receptor-dependent Manner  (full – 2007)  http://www.jbc.org/content/283/10/6005.full


Genetic variations at the endocannabinoid type 1 receptor gene (CNR1) are associated with obesity phenotypes in men.  (full – 2007)  http://jcem.endojournals.org/content/92/6/2382.long

Cannabinoids mediate analgesia largely via peripheral type 1 cannabinoid receptors in nociceptors  (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2234438/

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

Expression of Cannabinoid CB1 Receptors in Models of Diabetic Neuropathy  (full - 2007)  http://jpet.aspetjournals.org/content/323/2/508.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT

Cannabinoid CB1 and CB2 Receptors and Fatty Acid Amide Hydrolase Are Specific Markers of Subtypes in Human Multiple Sclerosis  (full - 2007)  http://www.jneurosci.org/cgi/content/full/27/9/2396?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=2396&resourcetype=HWCIT

Cannabinoid action in the olfactory epithelium  (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1815290/?tool=pmcentrez

Anti-dyskinetic effects of cannabinoids in a rat model of Parkinson's disease: role of CB1 and TRPV1 receptors  (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2128772/?tool=pmcentrez

Control of spasticity in a multiple sclerosis model is mediated by CB1, not CB2, cannabinoid receptors.  (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2189718/?tool=pubmed

Cardiovascular effects of cannabinoids in conscious spontaneously hypertensive rats  (full - 2007)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190006/?tool=pmcentrez
Cannabidiol displays unexpectedly high potency as an antagonist of CB1 and CB2 receptor agonists in vitro (full - 2007)

Virodhamine and CP55,940 modulate cAMP production and IL-8 release in human bronchial epithelial cells. (full – 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2042924/?tool=pubmed


Effect of Endocannabinoid System on the Neurogenic Function of Rat Corpus Cavernosum (abst – 2007)
http://www.doaj.org/doaj?func=abstract&id=1150200&q1=endocannabinoid%20system&f1=all&b1=and&q2=&f2=all&recNo=26&uiLanguage=en

Effects of AM1346, a high-affinity CB1 receptor selective anandamide analog, on open-field behavior in rats. (abst – 2007) http://www.ncbi.nlm.nih.gov/pubmed/17912052


The local antinociceptive effects of paracetamol in neuropathic pain are mediated by cannabinoid receptors (abst – 2007)


In Vitro Anticonvulsant Action of 2-Arachidonyl Glycerol (abst – 2007)
http://www.doaj.org/doaj?func=abstract&id=463469&q1=anandamide&f1=all&b1=and&q2=&f2=all&recNo=29&uiLanguage=en


Hippies vindicated: Human-produced cannabinoids have anti-inflammatory powers (news – 2007)
http://www.sciencecodex.com/hippies_vindicated_human_produced_cannabinoids_have_anti_inflammatory_powers

Whole-Body Biodistribution and Radiation Dosimetry of the Human Cannabinoid Type-1 Receptor Ligand $^{18}$F-MK-9470 in Healthy Subjects (full - 2008)
http://jnm.snmjournals.org/content/49/3/439.long

Genetic Variations at the Endocannabinoid Type 1 Receptor Gene (CNR1) Are Associated with Obesity Phenotypes in Men (full - 2008)
http://jcem.endojournals.org/cgi/content/full/92/6/2382

Endocannabinoid receptor 1 gene variations increase risk for obesity and modulate body mass index in European populations (full – 2008)
http://hmg.oxfordjournals.org/content/17/13/1916.long

Cannabinoid Receptor 1 Gene Association With Nicotine Dependence (full - 2008)
http://archpsyc.ama-assn.org/cgi/content/full/65/7/816?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

Association of the Cannabinoid Receptor Gene (CNR1) With ADHD and Post-Traumatic Stress Disorder (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2685476/?tool=pubmed

The cannabinoid CB1 receptor antagonist CE prolongs spatial memory duration in a rat delayed radial arm maze memory task (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2577903/?tool=pmcentrez

Cannabinoid Modulation of Cutaneous A($\delta$) Nociceptors During Inflammation (full - 2008) http://jn.physiology.org/cgi/reprint/100/5/2794

Topical WIN55212-2 Alleviates Intraocular Hypertension in Rats Through a CB1 Receptor-Mediated Mechanism of Action (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2637200/?tool=pmcentrez

The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids: $\Delta 9$-tetrahydrocannabinol, cannabidiol and $\Delta 9$-tetrahydrocannabivarin (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219532/

Loss of Cannabinoid Receptor CB1 Induces Preterm Birth (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219536/?tool=pmcentrez

Endocannabinoids and cannabinoid receptors in ischaemia–reperfusion injury and preconditioning (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219536/?tool=pmcentrez

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

Cannabinoid receptors and the regulation of bone mass (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219540/?tool=pmcentrez

Loss of cannabinoid receptor 1 accelerates intestinal tumor growth (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2561258/?tool=pubmed

Cannabinoid CB1 Receptors Are Expressed by Parietal Cells of the Human Gastric Mucosa (full – 2008) http://jhc.sagepub.com/content/56/5/511.full


Expression of the Endocannabinoid System in Human First Trimester Placenta and Its Role in Trophoblast Proliferation (full – 2008) http://endo.endojournals.org/content/149/10/5052.full?sid=f5b14012-9fbe-4f10-890c-386313060cf8

Feeding induced by cannabinoids is mediated independently of the melanocortin system. (full - 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2386290/?tool=pubmed


Loss of cannabinoid receptor 1 accelerates intestinal tumor growth (full – 2008) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2561258/

Cannabinoids and gastrointestinal motility: animal and human studies. (link to PDF - 2008) http://www.europeanreview.org/article/519


Effect of anandamide in improving of the non-adrenergic non-cholinergic relaxation of the corpus cavernosum from diabetic rats (abst – 2008) http://www.doaj.org/doaj?func=abstract&id=859448&q1=anandamide&f1=all&b1=and&q2=&f2=all&recNo=25&uiLanguage=en

Effect of biliary cirrhosis on nonadrenergic noncholinergic-mediated relaxation of rat corpus cavernosum: Role of nitric oxide pathway and endocannabinoid system (abst – 2008) http://www.doaj.org/doaj?func=abstract&id=859538&q1=anandamide&f1=all&b1=and&q2=&f2=all&recNo=24&uiLanguage=en


Actions of delta-9-tetrahydrocannabinol in cannabis (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2731700/?tool=pmcentrez

Cannabinoid Receptor 1 Binding Activity and Quantitative Analysis of Cannabis sativa L. Smoke and Vapor (full – 2009) https://www.jstage.jst.go.jp/article/cpb/58/2/58_2_201/_pdf
Endocannabinoids in the rat basolateral amygdala enhance memory consolidation and enable glucocorticoid modulation of memory (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2660732/?tool=pmcentrez

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/

Endocannabinoid-mediated control of synaptic transmission. (full – 2009)
http://physrev.physiology.org/content/89/1/309.long

Cannabinoid CB2 Receptor Potentiates Obesity-Associated Inflammation, Insulin Resistance and Hepatic Steatosis (full - 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2688760/?tool=pubmed

The CB1/CB2 receptor agonist WIN-55,212-2 reduces viability of human Kaposi’s sarcoma cells in vitro (full - 2009)
http://science.iowamedicalmarijuana.org/pdfs/cancer/Luca%20et%20al%202009%2019539619.pdf

Cannabinoid-1 (CB1) receptors regulate colonic propulsion by acting at motor neurons within the ascending motor pathways in mouse colon (full - 2009)
http://ajpgi.physiology.org/cgi/content/full/296/1/G119?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=160&resourcetype=HWCIT

Characterization of the Endocannabinoid System in Human Neuronal Cells and Proteomic Analysis of Anandamide-induced Apoptosis (full – 2009)
http://www.jbc.org/content/284/43/29413.full

Cannabinoid receptor 1 is a potential drug target for treatment of translocation-positive rhabdomyosarcoma (full - 2009)
http://mct.aacrjournals.org/content/8/7/1838.full

Microglial CB2 cannabinoid receptors are neuroprotective in Huntington's disease excitotoxicity. (full – 2009)
http://brain.oxfordjournals.org/content/132/11/3152.long

Effects of the cannabinoid CB1 receptor antagonist AM 251 on the reinstatement of nicotine-conditioned place preference by drug priming in rats. (full - 2009)

Voluntary Exercise and Sucrose Consumption Enhance Cannabinoid CB1 Receptor Sensitivity in the Striatum (full – 2009)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3055381/?tool=pubmed

Relationship of type 1 cannabinoid receptor availability in the human brain to novelty-seeking temperament. (full – 2009)
http://archpsyc.ama-assn.org/cgi/content/full/66/2/196

Impairments in Endocannabinoid Signaling and Depressive Illness (full – 2009)
CB1 and CB2 cannabinoid receptors differentially regulate the production of reactive oxygen species by macrophages (full – 2009)
http://cardiovascres.oxfordjournals.org/content/84/3/378.full?sid=7d2438c4-a727-410f-870d-4a971695b4fb

Endocannabinoid signalling as an anti-inflammatory therapeutic target in atherosclerosis: does it work? (full – 2009)
http://cardiovascres.oxfordjournals.org/content/84/3/341.full?sid=7d2438c4-a727-410f-870d-4a971695b4fb

Spatio-temporal expression patterns of anandamide-binding receptors in rat implantation sites: evidence for a role of the endocannabinoid system during the period of placental development (full – 2009) http://www.rbej.com/content/7/1/121


Endocannabinoid Overload (full – 2010) http://molpharm.aspetjournals.org/content/78/6/993.full


Anandamide suppresses pain initiation through a peripheral endocannabinoid mechanism (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3260554/?tool=pubmed

The Cannabinoid 1 Receptor (CNR1) 1359 G/A Polymorphism Modulates Susceptibility to Ulcerative Colitis and the Phenotype in Crohn's Disease (full - 2010)
A common CNR1 (cannabinoid receptor 1) haplotype attenuates the decrease in HDL cholesterol that typically accompanies weight gain. (full – 2010)

Expression of cannabinoid CB1 receptors by vagal afferent neurons: kinetics and role in influencing neurochemical phenotype (full – 2010)

Cannabinoid–Dopamine Interaction in the Pathophysiology and Treatment of CNS Disorders (full – 2010)

Voluntary Exercise and Sucrose Consumption Enhance Cannabinoid CB1 Receptor Sensitivity in the Striatum (full - 2010)

Cannabinoid receptor CB1 mediates baseline and activity-induced survival of new neurons in adult hippocampal neurogenesis (full - 2010)

Enhanced endocannabinoid signaling elevates neuronal excitability in fragile X syndrome. (full – 2010)

Preservation of Striatal Cannabinoid CB1 Receptor Function Correlates with the Antianxiety Effects of Fatty Acid Amide Hydrolase Inhibition (full – 2010)

AAV vector-mediated overexpression of CB1 cannabinoid receptor in pyramidal neurons of the hippocampus protects against seizure-induced excitotoxicity. (full – 2010)

Widespread Decrease of Type 1 Cannabinoid Receptor Availability in Huntington Disease In Vivo (full – 2010)

JWH018, a common constituent of 'Spice' herbal blends, is a potent and efficacious cannabinoid CB(1) receptor agonist. (full - 2010)

Attenuation of morphine antinociceptive tolerance by a CB(1) receptor agonist and an NMDA receptor antagonist: Interactive effects. (full – 2010)

Cannabinoid receptor-dependent and -independent anti-proliferative effects of omega-3 ethanolamides in androgen receptor-positive and -negative prostate cancer cell lines. (full – 2010)
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

Regulatory Role of Cannabinoid Receptor 1 in Stress-Induced Excitotoxicity and Neuroinflammation (full - 2010)  
http://www.nature.com/npp/journal/vaop/ncurrent/full/npp2010214a.html

Inhibitor of fatty acid amide hydrolase normalizes cardiovascular function in hypertension without adverse metabolic effects. (full – 2010)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3003779/

The Neuroprotective Effect of Cannabinoid Receptor Agonist (WIN55,212-2) in Paraoxon Induced Neurotoxicity in PC12 Cells and N-methyl-D-aspartate Receptor Interaction (full – 2010)  

Energetic Metabolism and Human Sperm Motility: Impact of CB1 Receptor Activation (full – 2010)  
http://endo.endojournals.org/content/151/12/5882.full

Perspectives of CB1 Antagonist in Treatment of Obesity: Experience of RIO-Asia (full – 2010)  
http://www.hindawi.com/journals/jobes/2011/957268/

Characterization of the Endocannabinoid System in Human Spermatozoa and Involvement of Transient Receptor Potential Vanilloid 1 Receptor in Their Fertilizing Ability (full – 2010)  
http://endo.endojournals.org/content/150/10/4692.full?sid=f5b14012-9fbe-4f10-890c-386313060cf8

Type 1 Cannabinoid Receptor-Containing Axons Innervate Hypophysiotropic Thyrotropin-Releasing Hormone-Synthesizing Neurons (full – 2010)  
http://endo.endojournals.org/content/150/1/98.full?sid=f5b14012-9fbe-4f10-890c-386313060cf8

Mechanisms of Broad-Spectrum Antiemetic Efficacy of Cannabinoids against Chemotherapy-Induced Acute and Delayed Vomiting (link to PDF – 2010)  
http://www.mdpi.com/1424-8247/3/9/2930

G1359A polymorphism of the cannabinoid receptor gene (CNR1) and clinical results of biliopancreatic diversion (link to PDF – 2010)  
http://www.europeanreview.org/article/724

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

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

A model of endocannabinoid 2-AG-mediated depolarization-induced suppression of inhibition (article – 2010)  
http://www.biomedcentral.com/1471-2202/11/S1/P189

The serine hydrolase ABHD6 controls the accumulation and efficacy of 2-AG at cannabinoid receptors  (abst – 2010)  http://www.nature.com/neuro/journal/v13/n8/full/nn.2601.html


PP-014 Control of receptor expression in vagal afferent neurons by activation of cannabinoid 1 receptors  (abst - 2010)  http://gut.bmj.com/cgi/content/meeting_abstract/59/1_MeetingAbstracts/A45-a?sid=0731f0e5-2071-4549-be57-57f444307138


Delta9-tetrahydrocannabinol is a full agonist at CB1 receptors on GABA neuron axon terminals in the hippocampus.  (abst – 2010)  http://www.unboundmedicine.com/medline/ebm/record/20417220/abstract/Delta9_tetrahydrocannabinol_is_a_full_agonist_at_CB1_receptors_on_GABA_neuron_axon_terminals_in_the_hippocampus


A common variation in the cannabinoid 1 receptor (CNR1) gene is associated with pre-eclampsia in the Central European population.  (abst - 2010)  http://www.ncbi.nlm.nih.gov/pubmed/21129839

Substantially altered expression pattern of cannabinoid receptor 2 and activated endocannabinoid system in patients with severe heart failure. (abst – 2010)  


Expression of cannabinoid receptor I during mice skin incised wound healing course (abst – 2010)  

Dynamic changes of CB1-receptor expression in hippocampi of epileptic mice and humans. (abst – 2010)  

CB1 receptor deficiency decreases wheel-running activity: consequences on emotional behaviours and hippocampal neurogenesis. (abst – 2010)  

Bimodal control of stimulated food intake by the endocannabinoid system. (abst – 2010)  

Endocannabinoid (EC) Receptor, CB1, and EC Enzymes' Expression in Primary Adipocyte Cultures of Lean and Obese Pre-pubertal Children in Relation to Adiponectin and Insulin (abst – 2010)  

Study shows direct cellular interaction between endocannabinoids and alcohol in the brain (news - 2010)  

Cannabidiol (CBD) as an Anti-Arrhythmic – the Role of the CB1 Receptors (news – 2010)  

Increasing the body's (but not brain's) cannabinoids dulls pain (news – 2010)  

Cannabinoid receptors, CB1 and CB2, as novel targets for inhibition of non-small cell lung cancer growth and metastasis (full - 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3025486/?tool=pubmed

Increased Expression of Cannabinoid CB(1) Receptors in Achilles Tendinosis. (full – 2011)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3169627/?tool=pubmed

WIN55,212-2 induces cytoplasmic vacuolation in apoptosis-resistant MCL cells.
Local activation of cannabinoid CB1 receptors in the urinary bladder reduces the inflammation-induced sensitization of bladder afferents.  

Cannabinoid CB1 receptor antagonists modulate transport activity of multidrug resistance-associated proteins MRP1, MRP2, MRP3, and MRP4  

Cannabinoid receptor signalling in neurodegenerative diseases: a potential role for membrane fluidity disturbance.  

Anandamide inhibits Theiler's virus induced VCAM-1 in brain endothelial cells and reduces leukocyte transmigration in a model of blood brain barrier by activation of CB1 receptors.  


Role of CB1 cannabinoid receptors on GABAergic neurons in brain aging  

Endocannabinoid system in cardiovascular disorders - new pharmacotherapeutic opportunities  

Variation in the human Cannabinoid Receptor (CNR1) gene modulates gaze duration for happy faces.  

Gadolinium-HU-308-incorporated micelles.  

Differential signaling in human cannabinoid CB(1) receptors and their splice variants in autaptic hippocampal neurons  

A Pilot Study into the Effects of the CB1 Cannabinoid Receptor Agonist WIN55,212-2 or the Antagonist/Inverse Agonist AM251 on Sleep in Rats  

Biosynthesis and degradation of the endocannabinoid 2-arachidonoylglycerol.
Cannabinoid and GABA modulation of sympathetic nerve activity and blood pressure in the dorsal periaqueductal gray of the rat (full – 2011)  
http://ajpregu.physiology.org/content/301/6/R1765.full

Loss of striatal type 1 cannabinoid receptors is a key pathogenic factor in Huntington's disease. (full – 2011) http://brain.oxfordjournals.org/content/134/1/119.long

Redistribution of CB1 Cannabinoid Receptors in the Acute and Chronic Phases of Pilocarpine-Induced Epilepsy (full – 2011)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0027196

Functional characterization of putative cholesterol binding sequence (CRAC) in human type-1 cannabinoid receptor (full – 2011)  

Cannabinoid exposure during zebra finch sensorimotor vocal learning persistently alters expression of endocannabinoid signaling elements and acute agonist responsiveness (full – 2011)  
http://www.biomedcentral.com/1471-2202/12/3

Adipose tissue endocannabinoid system gene expression: depot differences and effects of diet and exercise (full – 2011) http://www.lipidworld.com/content/10/1/194


Cannabinoid Receptor Type 1 Protects Nigrostriatal Dopaminergic Neurons against MPTP Neurotoxicity by Inhibiting Microglial Activation. (full – 2011)  
http://www.jimmunol.org/content/187/12/6508.full?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf


The role of the cannabinoid system in the pathogenesis and treatment of alcohol dependence (link to PDF – 2011)  
http://www.doaj.org/doaj?func=abstract&id=825351&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=22&uiLanguage=en

Deficiency of Dietary Omega-3 May Explain Depressive Behaviors (summary - 2011)  
http://www.thefreelibrary.com/Deficiency+of+Dietary+Omega-3+May+Explain+Depressive+Behaviors.-a0248155576

Deletion of cannabinoid receptors 1 and 2 exacerbates APC function to increase inflammation and cellular immunity during influenza infection. (abst – 2011)  
Possible involvement of the endocannabinoid system in memory modulation effect of general anesthetics  

Genetic and pharmacological inactivation of cannabinoid CB1 receptor inhibits angiogenesis.  

Deficiency of type 1 cannabinoid receptors worsens acute heart failure induced by pressure overload in mice.  

Cannabidiol as an anti-arrhythmic, the role of the CB1 receptors.  
[http://www.unboundmedicine.com/medline/ebm/record/22116907/abstract/cannabidiol_as_an_anti_arrhythmic_the_role_of_the_cb1_receptors](http://www.unboundmedicine.com/medline/ebm/record/22116907/abstract/cannabidiol_as_an_anti_arrhythmic_the_role_of_the_cb1_receptors)

Regional changes in type 1 cannabinoid receptor availability in Parkinson's disease in vivo  
[http://www.unboundmedicine.com/medline/ebm/record/21459482/abstract/regional_changes_in_type_1_cannabinoid_receptor_availability_in_parkinson%27s_disease_in_vivo](http://www.unboundmedicine.com/medline/ebm/record/21459482/abstract/regional_changes_in_type_1_cannabinoid_receptor_availability_in_parkinson%27s_disease_in_vivo)

Effects of cannabinoid CB(1) receptor agonism and antagonism on SKF81297-induced dyskinesia and haloperidol-induced dystonia in Cebus apella monkeys.  

Early onset of aging-like changes is restricted to cognitive abilities and skin structure in Cnr1(-/-) mice.  


Residual effects of focal brain ischaemia upon cannabinoid CB(1) receptor density and functionality in female rats.  

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

Brain Type 1 Cannabinoid Receptor Availability in Patients with Anorexia and Bulimia Nervosa.  

Increment of hypothalamic 2-arachidonoylglycerol induces the preference for a high-fat diet via activation of cannabinoid 1 receptors.  

Type I cannabinoid receptor trafficking: all roads lead to lysosome.  
Intact cannabinoid CB1 receptors in the Alzheimer's disease cortex. (abst – 2011)

Indirect Sympatholytic Actions at β-Adrenoceptors Account for the Ocular Hypotensive Actions of Cannabinoid Receptor Agonists (abst – 2011)

Endocannabinoid CB1 receptors modulate visual output from the thalamus. (abst – 2011)

Cannabinoids and emotionality: a neuroanatomical perspective. (abst – 2011)

The Dopamine and Cannabinoid Interaction in the Modulation of Emotions and Cognition: Assessing the Role of Cannabinoid CB1 Receptor in Neurons Expressing Dopamine D1 Receptors. (abst - 2011)

Bioactivation Pathways of the Cannabinoid Receptor 1 Antagonist Rimonabant (abst – 2011)

Loss of striatal cannabinoid CB1 receptor function in attention-deficit/hyperactivity disorder mice with point-mutation of the dopamine transporter. (abst – 2011)

Activation of spinal and supraspinal cannabinoid-1 receptors leads to antinociception in a rat model of neuropathic spinal cord injury pain. (abst – 2011)

α-Tocopherol and α-tocopheryl phosphate interact with the cannabinoid system in the rodent hippocampus. (abst - 2011)

Interictal Type 1 Cannabinoid Receptor Binding is Increased in Female Migraine Patients. (abst – 2011)

Gender-dependent increases with healthy aging of the human cerebral cannabinoid-type 1 receptor binding using [(18)F]MK-9470 PET. (abst – 2011)

In vivo activation of endocannabinoid system in temporal lobe epilepsy with hippocampal sclerosis. (abst – 2011)

The endocannabinoid system in the cancer therapy: an overview. (abst – 2011)
Inhibition of basal and ultraviolet B-induced melanogenesis by cannabinoid CB(1) receptors: a keratinocyte-dependent effect. (abst – 2011)  

Anandamide inhibits the growth of colorectal cancer cells through CB1 and lipid rafts  
(abst – 2011)  

ENDOGENOUS CANNABINOID SYSTEM REGULATES INTESTINAL BARRIER FUNCTION IN VIVO THROUGH CANNABINOID TYPE 1 RECEPTOR ACTIVATION  
(abst – 2011)  

Cannabinoid type 1 receptor mediates depot-specific effects on differentiation, inflammation and oxidative metabolism in inguinal and epididymal white adipocytes.  
(abst – 2011)  

Impaired hippocampal glucoregulation in the cannabinoid CB(1) receptor knockout mice as revealed by an optimized in vitro experimental approach.  
(abst – 2011)  

Endocannabinoid system and psychiatry: in search of a neurobiological basis for detrimental and potential therapeutic effects.  
(abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/22007164/abstract/Endocannabinoid_system_and_psychiatry_in_search_of_a_neurobiological_basis_for_detrimental_and_potential_therapeutic_effects

Sexually dimorphic effects of cannabinoid compounds on emotion and cognition.  
(abst - 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21991251/abstract/Sexually_dimorphic_effects_of_cannabinoid_compounds_on_emotion_and_cognition

Sex Differences in Cannabinoid 1 vs. Cannabinoid 2 Receptor-Selective Antagonism of Antinociception Produced by Δ9-Tetrahydrocannabinol and CP55,940 in the Rat  
(abst – 2011)  
http://jpet.aspetjournals.org/content/340/3/787.abstract?sid=2ef42c80-59ad-4b4e-8eed-d5b9d556b866

The Effect of Hypoxia on G Protein Coupled (CB1) Receptor Gene Expression in Cortical B50 Neurons in Culture  
(abst – 2011)  
http://www.maxwellsci.com/jp/abstract.php?id=BJPT&no=92&abs=05

CB1 receptors mediate rimonabant-induced pruritic responses in mice: investigation of locus of action.  
(abst – 2011)  

The cannabinoid type-1 receptor carboxyl-terminus, more than just a tail.  
(abst – 2011)  
http://www.unboundmedicine.com/medline/ebm/record/21244428/abstract/The_cannabinoid_type_1_receptor_carboxyl_terminus_more_than_just_a_tail


Association between a cannabinoid receptor gene (CNR1) polymorphism and cannabinoid-induced alterations of the auditory event-related P300 potential. (abst – 2011) [http://www.unboundmedicine.com/medline/ebm/record/21513772/abstract/Association_between_a_cannabinoid_receptor_gene_CNR1_polymorphism_and_cannabinoid_induced_alterations_of_the_auditory_event_related_P300_potential](http://www.unboundmedicine.com/medline/ebm/record/21513772/abstract/Association_between_a_cannabinoid_receptor_gene_CNR1_polymorphism_and_cannabinoid_induced_alterations_of_the_auditory_event_related_P300_potential)

Intracellular Cannabinoid Type 1 (CB1) Receptors Are Activated by Anandamide (abst – 2011) [http://www.jbc.org/content/286/33/29166.abstract?sid=2c3b88ec-b6e6-4245-a171-2e24c17b5e8b](http://www.jbc.org/content/286/33/29166.abstract?sid=2c3b88ec-b6e6-4245-a171-2e24c17b5e8b)


The genetic basis of the endocannabinoid system and drug addiction in humans (abst – 2011) [http://jop.sagepub.com/content/early/2011/09/20/02698811111416689](http://jop.sagepub.com/content/early/2011/09/20/02698811111416689)


Cannabinomimetic lipid from a marine cyanobacterium. (abst – 2011)

Cannabinoid-1 Receptor Protects The Brain From Aging (news – 2011)
http://www.medicalnewstoday.com/releases/230948.php

Part of placebo effect ascribed to cannabinoids (news – 2011)

What An Expectant Mother Eats Affects Children’s Psychology in Later Life (news – 2011)

Bodyguard for the brain (news – 2011) http://www.sciencecodex.com/bodyguard_for_the_brain

The dynamic nature of type 1 cannabinoid receptor (CB1) gene transcription

Hyperactivation of anandamide synthesis and regulation of cell-cycle progression via cannabinoid type 1 (CB1) receptors in the regenerating liver (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3076854/?tool=pubmed

Synaptic Targets of Δ9-Tetrahydrocannabinol in the Central Nervous System. (full – 2012)
http://perspectivesinmedicine.cshlp.org/content/early/2012/12/03/cshperspect.a012237.long

Upregulation of cannabinoid type 1 receptors in dopamine D2 receptor knockout mice is reversed by chronic forced ethanol consumption. (full – 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3004984/?tool=pubmed

Mechanistic and Pharmacological Characterization of PF-04457845: A Highly Potent and Selective Fatty Acid Amide Hydrolase Inhibitor That Reduces Inflammatory and Noninflammatory Pain (full – 2012) http://jpet.aspetjournals.org/content/338/1/114.full

Cannabinoids and atherosclerotic coronary heart disease. (full – 2012)

Cannabinoid Receptor Type 1 (CB1) Activation Inhibits Small GTPase RhoA Activity and Regulates Motility of Prostate Carcinoma Cells (full – 2012)
http://endo.endojournals.org/content/153/1/29.full

Excess of the endocannabinoid anandamide during lactation induces overweight, fat accumulation and insulin resistance in adult mice (full – 2012)
http://www.dmsjournal.com/content/4/1/35

Angiotensin II induces vascular endocannabinoid release, which attenuates its vasoconstrictor effect via CB1 cannabinoid receptors. (full – 2012)
Allosteric modulator ORG27569 induces a CB1 Cannabinoid receptor high affinity agonist binding state, receptor internalization and Gi-independent ERK1/2 activation. (full – 2012) http://www.jbc.org/content/early/2012/02/16/jbc.M111.316463.long

Reduced alcohol intake and reward associated with impaired endocannabinoid signaling in mice with a deletion of the glutamate transporter GLAST. (full – 2012) http://www.sciencedirect.com/science/article/pii/S0028390812000470

Resistance to diet-induced adiposity in cannabinoid receptor-1 deficient mice is not due to impaired adipocyte function. (full – 2012) http://www.nutritionandmetabolism.com/content/pdf/1743-7075-8-93.pdf

Cannabinoids Facilitate the Swallowing Reflex Elicited by the Superior Laryngeal Nerve Stimulation in Rats (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3507745/


Cannabinoid Receptor 1 (CNR1) 4895 C/T Genetic Polymorphism was Associated with Obesity in Japanese Men. (full – 2012) https://www.jstage.jst.go.jp/article/jat/19/8/19_12732/_pdf


Autocrine Endocannabinoid Signaling Through CB1 Receptors Potentiates OX1 Orexin Receptor Signaling. (full – 2012) http://molpharm.aspetjournals.org/content/early/2012/12/11/mol.112.080523.long

To Be or Not To Be—Obese (full – 2012) http://endo.endojournals.org/content/152/10/3592.long

Relationships between glucose, energy intake and dietary composition in obese adults with type 2 diabetes receiving the cannabinoid 1 (CB1) receptor antagonist, rimonabant (full – 2012) http://www.nutritionj.com/content/11/1/50


Role of CB1 cannabinoid receptors on GABAergic neurons in brain aging (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3131310/?tool=pubmed
Loss of CB1 receptors leads to differential age-related changes in reward-driven learning and memory. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3514639/

A Role for the Cannabinoid 1 Receptor in Neuronal Differentiation of Adult Spinal Cord Progenitors in vitro is Revealed through Pharmacological Inhibition and Genetic Deletion. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3265030/?tool=pubmed

Endocannabinoids Stimulate Human Melanogenesis via Type-1 Cannabinoid Receptor (full – 2012) http://www.jbc.org/content/early/2012/03/19/jbc.M111.314880.full.pdf+html

Contribution of Hypothermia and CB(1) Receptor Activation to Protective Effects of TAK-937, a Cannabinoid Receptor Agonist, in Rat Transient MCAO Model. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3397930/?tool=pubmed

Cannabinoid type-1 receptor reduces pain and neurotoxicity produced by chemotherapy. (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3366638/


Neonatal DSP-4 Treatment Modifies Antinociceptive Effects of the CB(1) Receptor Agonist Methanandamide in Adult Rats. (full – 2012) http://www.springerlink.com/content/d44543844w814p33/fulltext.html

Early Endogenous Activation of CB1 and CB2 Receptors after Spinal Cord Injury Is a Protective Response Involved in Spontaneous Recovery (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3496738/

Role of cannabinoids in the regulation of bone remodeling (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3499879/

The cannabinoid receptor CB1 modulates the signaling properties of the lysophosphatidylinositol receptor GPR55. (full – 2012) http://www.jbc.org/content/early/2012/11/16/jbc.M112.364109.long

Small-animal PET imaging of the type 1 and type 2 cannabinoid receptors in a photothrombotic stroke model  (full – 2012)

Diet-dependent modulation of hippocampal expression of endocannabinoid signaling-related proteins in cannabinoid antagonist-treated obese rats.  (full – 2012)


A cell population that strongly expresses the CB1 cannabinoid receptor in the ependyma of the rat spinal cord  (full – 2012)

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

Cannabinoid receptor-mediated regulation of neuronal activity and signaling in glomeruli of the main olfactory bulb.  (full– 2012)  http://www.jneurosci.org/content/32/25/8475.long

Spinal administration of the monoacylglycerol lipase inhibitor JZL184 produces robust inhibitory effects on nociceptive processing and the development of central sensitization in the rat  (full – 2012)

Neuron to Astrocyte Communication via Cannabinoid Receptors Is Necessary for Sustained Epileptiform Activity in Rat Hippocampus  (full – 2012)
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0037320

The effects of peptide and lipid endocannabinoids on arthritic pain at the spinal level.  (full – 2012)
http://www.anesthesia-analgesia.org/content/early/2012/03/26/ANE.0b013e31824c4eeb.full.pdf

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

Excess of the endocannabinoid anandamide during lactation induces overweight, fat accumulation and insulin resistance in adult mice  (full – 2012)
http://www.dmsjournal.com/content/4/1/35

Interleukin-1β causes anxiety by interacting with the endocannabinoid system.  (full – 2012)  http://www.jneurosci.org/content/32/40/13896.long

CNR1 genotype influences HDL-cholesterol response to change in dietary fat intake.  (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3342253/
Lipoxin A4 is an allosteric endocannabinoid that strengthens anandamide-induced CB1 receptor activation  (full – 2012)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3529042/

Neural Circuit in the Dorsal Raphe Nucleus Responsible for Cannabinoid-Mediated Increases in 5-HT Efflux in the Nucleus Accumbens of the Rat Brain (link to PDF – 2012)  http://www.hindawi.com/isrn/pharmacology/2012/276902/

Critical role of the endocannabinoid system in mediating rapid glucocorticoid effects on memory for emotionally arousing experiences (link to PDF - 2012)  http://www.doaj.org/doaj?func=abstract&id=1152481&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=3&uiLanguage=en

Endocannabinoids in stressed humans (link to PDF – 2012)  http://www.doaj.org/doaj?func=abstract&id=1152482&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=2&uiLanguage=en

Positron emission tomography offers new perspectives for evidence-based treatment development in PTSD (link to PDF – 2012)  http://www.doaj.org/doaj?func=abstract&id=1152483&q1=endocannabinoid&f1=all&b1=and&q2=&f2=all&recNo=2&uiLanguage=en


Review article: Why do cannabinoid receptors have more than one endogenous ligand? (abst - 2012)  http://www.ncbi.nlm.nih.gov/pubmed/23108541


Contrasting effects of different cannabinoid receptor ligands on mouse ingestive behavior
Cannabinoid Type 1 Receptor Gene Polymorphism and Macronutrient Intake.  

Opposing Roles for Cannabinoid Receptor Type-1 (CB(1)) and Transient Receptor Potential Vanilloid Type-1 Channel (TRPV1) on the Modulation of Panic-Like Responses in Rats.  

Extinction learning of rewards in the rat: is there a role for CB1 receptors?  

Tolerance to cannabinoid-induced behaviors in mice treated chronically with ethanol.  

The cannabinoid receptor CB₁ inverse agonist AM251 potentiates the anxiogenic activity of urocortin I in the basolateral amygdala.  

Cannabinoids and muscular pain. Effectiveness of the local administration in rat.  

Cannabinoids ameliorate disease progression in a model of multiple sclerosis in mice, acting preferentially through CB(1) receptor-mediated anti-inflammatory effects.  

The CB(1) Receptor-Mediated Endocannabinoid Signaling and NGF: The Novel Targets of Curcumin.  

Cannabinoid 1 (CB1) receptor mediates WIN55, 212-2 induced hypothermia and improved survival in a rat post-cardiac arrest model.  

Localization of mGluR5, GABA(B) , GABA(A) , and cannabinoid receptors on the vago-vagal reflex pathway responsible for transient lower esophageal sphincter relaxation in humans: an immunohistochemical study.  

Endocannabinoid analogues exacerbate marble-burying behavior in mice via TRPV1 receptor.  

Endocannabinoids limit excessive mast cell maturation and activation in human skin.  
Cannabinoid CB(1) receptor mediates glucocorticoid effects on hormone secretion induced by volume and osmotic changes. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22211674


Expression and localization of the cannabinoid receptor type 1 and the enzyme fatty acid amide hydrolase in the retina of vervet monkeys. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22142900


Cannabinoid CB1 receptor deficiency increases contextual fear memory under highly aversive conditions and long-term potentiation in vivo. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22579951


A major glucuronidated metabolite of JWH-018 is a neutral antagonist at CB1 receptors. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22404317


Monohydroxylated metabolites of the K2 synthetic cannabinoid JWH-073 retain intermediate to high cannabinoid 1 receptor (CB1R) affinity and exhibit neutral antagonist to partial agonist activity. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22266354


The interaction between intrathecal administration of low doses of palmitoylethanolamide and AM251 in formalin-induced pain related behavior and spinal cord IL1-β expression in rats. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22201038


In vivo type 1 cannabinoid receptor availability in Alzheimer’s disease (abst – 2012) http://jnumedmtg.snmjournals.org/cgi/content/meeting_abstract/53/1_MeetingAbstracts/1961?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT

Cannabinoid Receptor Activity In The Tumour Necrosis Factor (tnf)-α-Induced Increased Contractility Of The Guinea-Pig Isolated Trachea (abst – 2012) http://ajrccm.atsjournals.org/cgi/reprint/185/1_MeetingAbstracts/A2154?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT


Photoperiodic Changes in Endocannabinoid Levels and Energetic Responses to Altered Signalling at CB1 Receptors in Siberian Hamsters (abst – 2012)  

2-Arachidonoylglycerol Signaling in Forebrain Regulates Systemic Energy Metabolism (abst – 2012)  

Sex Differences in Cannabinoid 1 vs. Cannabinoid 2 Receptor-Selective Antagonism of Antinociception Produced by Δ9-Tetrahydrocannabinol and CP55,940 in the Rat (abst – 2012)  
http://jpet.aspetjournals.org/content/340/3/787.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5

Progesterone-dependent regulation of endometrial cannabinoid receptor type 1 (CB1-R) expression is disrupted in women with endometriosis and in isolated stromal cells exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). (abst – 2012)  

Medial prefrontal cortex endocannabinoid system modulates baroreflex activity through CB1 receptors (abst – 2012)  
http://ajpregu.physiology.org/content/302/7/R876.abstract?sid=952e2125-0502-477c-b603-30f0f3e51b55

Non-Δ9-tetrahydrocannabinol phytocannabinoids stimulate feeding in rats.  
(abst – 2012)  

Cannabinoid receptor 1 in the vagus nerve is dispensable for body weight homeostasis but required for normal gastrointestinal motility. (abst – 2012)  

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. (abst – 2012)  

Cannabinoids inhibit peptidoglycan-induced phosphorylation of NF-κB and cell growth in U87MG human malignant glioma cells. (abst – 2012)  

Biphasic Effects of Cannabinoids in Anxiety Responses: CB1 and GABA(B) Receptors in the Balance of GABAergic and Glutamatergic Neurotransmission. (abst – 2012)  

Genetic variability in the endocannabinoid system and 12-week clinical response to citalopram treatment: the role of the CNR1, CNR2 and FAAH genes (abst – 2012)  
http://jop.sagepub.com/content/early/2012/07/22/0269881112454229.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcetype=HWCIT
The CB(2)-preferring agonist JWH015 also potently and efficaciously activates CB(1) in autaptic hippocampal neurons. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22921769


The FAAH inhibitor URB597 efficiently reduces tyrosine hydroxylase expression through CB(1) and FAAH-independent mechanisms. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22970888


Opposing local effects of endocannabinoids on the activity of noradrenergic neurons and release of noradrenaline: relevance for their role in depression and in the actions of CB(1) receptor antagonists. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22990678


Hypothalamic CB1 Cannabinoid Receptors Regulate Energy Balance in Mice (abst – 2012) http://endo.endojournals.org/content/153/9/4136.abstract?sid=764b5dc2-c88a-4357-b77c-81ea8e04d351


Downregulation of cannabinoid receptor 1 from neuropeptide Y interneurons in the basal ganglia of patients with Huntington's disease and mouse models. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/23167744


Role of CB1 and CB2 cannabinoid receptors in the development of joint pain induced by monosodium iodoacetate. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/23199705


A key agonist-induced conformational change in the cannabinoid receptor CB1 is blocked by the allosteric ligand Org 27569. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22846992


Cannabinoid Receptor Antagonist-Induced Striated Muscle Toxicity and Ethylmalonic-Adipic Aciduria in Beagle Dogs (abst – 2012) http://toxsci.oxfordjournals.org/content/129/2/268.short?rss=1


Binding of a tritiated inverse agonist to cannabinoid CB1 receptors is increased in patients with schizophrenia (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22910406


The Contractile Effect of Anandamide in the Guinea-Pig Small Intestine is Mediated by Prostanoids but not TRPV1 Receptors or Capsaicin-Sensitive Nerves.  (abst – 2012)  http://www.ncbi.nlm.nih.gov/pubmed/23216932

Positron Emission Tomography Shows Elevated Cannabinoid CB 1 Receptor Binding in Men with Alcohol Dependence (abst – 2012)  

Deficiency of type 1 cannabinoid receptors worsens acute heart failure induced by pressure overload in mice (abst – 2012)  
http://eurheartj.oxfordjournals.org/content/33/24/3124.short?rss=1

Effects of gonadal hormones on the peripheral cannabinoid receptor 1 (CB1R) system under a myositis condition in rats. (abst – 2012)  

Uncovering a role for endocannabinoid signaling in autophagy in preimplantation mouse embryos (abst – 2012)  
http://molehr.oxfordjournals.org/content/19/2/93.abstract

Metabolic Impact of Chronic Cannabis Smoking (abst – 2012)  
http://edrv.endojournals.org/cgi/content/meeting_abstract/33/03_MeetingAbstracts/MON-231?sid=89628f3e-b2f1-448c-b0df-984f390df4fd

Identification and quantification of a new family of peptide endocannabinoids (Pepcans) showing negative allosteric modulation at CB1 receptors. (abst – 2012)  

Determination of naphthalen-1-yl-(1-pentyllindol-3-yl)methanone (JWH-018) in mouse blood and tissue after inhalation exposure to ‘buzz’ smoke by HPLC/MS/MS (abst – 2012)  

Sensation-seeking genes and physical activity in youth (abst – 2012)  

Probing the Interaction of SR141716A with the CB1 Receptor (abst – 2012)  
http://www.jbc.org/content/287/46/38741.abstract?sid=ed624bcc-ed4a-490a-acb1-3497d91ae2bd

Spinal Cord Fatty Acid Amide Hydrolase (FAAH) in Normal Micturition Control and Bladder Overactivity in Awake Rats. (abst – 2012)  

Cannabidiol for the treatment of cannabis withdrawal syndrome: a case report (abst – 2012)  

Mechanism of the Interaction of Cannabinoid System in Central Amygdale with Opioid System (abst – 2012)  

Endocannabinoid system and mood disorders: Priming a target for new therapies. (abst – 2012)  

Inverse relationship of cannabimimetic (R+)+WIN 55, 212 on behavior and seizure threshold during the juvenile period (abst – 2012)
A CB₁/CB₂ receptor agonist, WIN 55,212-2, exerts its therapeutic effect in a viral autoimmune model of multiple sclerosis by restoring self-tolerance to myelin. (abst – 2012)  

Cannabinoid Receptor Function is Altered by Nutrionally Deficient Diet  (news – 2012)  

Structured Unlearning: Marijuana May Impair Memory via the Brain's Non-Firing Cells  (news – 2012)  

Do deficits in brain cannabinoids contribute to eating disorders?  (news – 2012)  

It hurts so good: the runner’s high  (news – 2012)  

Ghrelin-Induced Orexigenic Effect in Rats Depends on the Metabolic Status and Is Counteracted by Peripheral CB1 Receptor Antagonism.  (full – 2013)  

Developmental and Visual Input-Dependent Regulation of the CB1 Cannabinoid Receptor in the Mouse Visual Cortex.  (full – 2013)  

Role of endocannabinoids and cannabinoid-1 receptors in cerebrocortical blood flow regulation.  (full – 2013)  

Molecular basis for dramatic changes in cannabinoid CB1 G protein-coupled receptor activation upon single and double point mutations.  (full - 2013)  

Novel Insights Into CB1 Cannabinoid Receptor Signaling: A Key Interaction Identified Between EC3-Loop and TMH2.  (full – 2013)  

Type-1 (CB(1)) Cannabinoid Receptor Promotes Neuronal Differentiation and Maturation of Neural Stem Cells.  (full – 2013)  

Endogenous cannabinoid receptor CB1 activation promotes vascular smooth muscle cell proliferation and neointima formation.  (full – 2013)  

Natural Cannabinoids Improve Dopamine Neurotransmission and Tau and Amyloid Pathology in a Mouse Model of Tauopathy.  (full – 2013)


DIFFERENTIAL DRUG-DRUG INTERACTIONS OF THE SYNTHETIC CANNABINOIDs JWH-018 AND JWH-073: IMPLICATIONS FOR DRUG ABUSE LIABILITY AND PAIN THERAPY. (full - 2013) http://jpet.aspetjournals.org/content/early/2013/06/25/jpet.113.206003.long


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


Alterations to Melanocortinergic, GABAergic and Cannabinoid Neurotransmission Associated with Olanzapine-Induced Weight Gain (full – 2013) http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0033548

Activation of Type 1 Cannabinoid Receptor (CB1R) Promotes Neurogenesis in Murine Subventricular Zone Cell Cultures (full – 2013) http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0063529


GPR55 and its interaction with membrane lipids: comparison with other endocannabinoid-binding receptors. (link to PDF - 2013) http://www.eurekaselect.com/105678/article
Endocannabinoid signaling in cancer: a rather complex puzzle  (letter- 2013)

The endocannabinoid system provides an avenue for evidence-based treatment development for PTSD.  (1st page – 2013)


WIN55, 212-2 promotes differentiation of oligodendrocyte precursor cells and improve remyelination through regulation of the phosphorylation level of the ERK 1/2 via cannabinoid receptor 1 after stroke-induced demyelination.  (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23148948


Anti-inflammatory lipoxin A4 is an endogenous allosteric enhancer of CB1 cannabinoid receptor.  (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23150578


Striatal CB1 and D2 receptors regulate expression of each other, cripla and delta opioid systems. (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23286559


Genetic variation in the cannabinoid receptor gene (CNR1) (G1359A polymorphism) and their influence on anthropometric parameters and metabolic parameters under a high monounsaturated vs. high polyunsaturated fat hypocaloric diets. (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23337343


The cannabinoid TRPA1 agonist cannabichromene inhibits nitric oxide production in macrophages and ameliorates murine colitis. (abst – 2013) 

Nicotine-Induced Neuroprotection Against Ischemic Injury Involves Activation of Endocannabinoid System in Rats (abst – 2013) 

Stimulatory and Inhibitory Roles of Brain 2-Arachidonoylglycerol in Bombesin-Induced Central Activation of Adrenomedullary Outflow in Rats. (abst – 2013) 

Rapid Glucocorticoid-Induced Activation of TRP and CB1 Receptors Causes Biphasic Modulation of Glutamate Release in Gastric-Related Hypothalamic Preautonomic Neurons. (abst – 2013)  

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

Neonatal lipopolysaccharide treatment has long term effects on monoaminergic and cannabinoid receptors in the rat. (abst – 2013) 

Signaling cross-talk between cannabinoid and muscarinic systems actives Rho-kinase and increases the contractile responses of the bovine ciliary muscle (abst – 2013) 

Role of cannabinoid and vanilloid receptors in invasion of human breast carcinoma cells (abst – 2013) 

Repeated Low Dose Administration of the Monoacylglycerol Lipase Inhibitor JZL184 Retains CB1 Receptor Mediated Antinociceptive and Gastroprotective Effects. (abst – 2013) 

Computationally-predicted CB1 cannabinoid receptor mutants show distinct patterns of salt-bridges that correlate with their level of constitutive activity reflected in G protein coupling levels, thermal stability, and ligand binding. (abst – 2013) 

Screening genetic variability at the CNR1 gene in both major depression etiology and clinical response to citalopram treatment. (abst – 2013) 

CNR1 Gene and Risk of the Metabolic Syndrome in Patients With Schizophrenia. (abst – 2013) 


Toxicological profiles of selected synthetic cannabinoids showing high binding affinities to the cannabinoid receptor subtype CB1. (abst – 2013)


Effect of Cannabinoid Receptor Activation on Spreading Depression. (abst – 2013)


Chemical probes of endocannabinoid metabolism. (abst – 2013)


Role of intra-accumbal cannabinoid CB1 receptors in the potentiation, acquisition and expression of morphine-induced conditioned place preference. (abst – 2013)


An ultra-low dose of tetrahydrocannabinol provides cardioprotection. (abst – 2013)


Involvement of prelimbic medial prefrontal cortex in panic-like elaborated defensive behaviour and innate fear-induced antinociception elicited by GABAA receptor blockade in the dorsomedial and ventromedial hypothalamic nuclei: role of the endocannabinoid CB1 receptor. (abst – 2013)

http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=8874231


Modulation of the cannabinoid receptors by hemopressin peptides. (abst – 2013)


2-AG into the lateral hypothalamus increases REM sleep and cFos expression in melanin concentrating hormone neurons in rats. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23603032


Effects of CB1 receptor blockade on monosodium glutamate induced hypometabolic and hypothalamic obesity in rats. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23620336


Infusion of cannabidiol into infralimbic cortex facilitates fear extinction via CB1 receptors. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23643693


A spontaneous deletion of α-Synuclein is associated with an increase in CB1 mRNA transcript and receptor expression in the hippocampus and amygdala: Effects on alcohol consumption (abst – 2013) http://onlinelibrary.wiley.com/doi/10.1002/syn.21639/abstract


Impact of omega-6 polyunsaturated fatty acid supplementation and γ-aminobutyric acid on astrogliogenesis through the endocannabinoid system. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23633391


Cannabinoid 1 receptor as therapeutic target in preventing chronic epilepsy (abst – 2013) http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/660.2?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

Cardiorespiratory control as a function of wake-sleep behavior and diet in mice lacking CB1 cannabinoid receptors (abst – 2013) http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/926.1?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

Anandamide inhibits proliferation of oral squamous cell carcinoma (abst – 2013) http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/729.16?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

Effects of anandamide and other CB1 ligands on cognitive function (abst – 2013) http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1097.10?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

Activation of Type 1 Cannabinoid Receptor (CB1R) Promotes Neurogenesis in Murine Subventricular Zone Cell Cultures. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23704915


Cannabinoid (CB)1 receptors are critical for the innate immune response to TLR4 stimulation. (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23739343


CNR1 variation is associated with the age at onset in Huntington disease. (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23747361


The endocannabinoid system in normal and pathological brain ageing  (abst – 2013)  http://rstb.royalsocietypublishing.org/content/367/1607/3326.abstract?sid=20cf2c23-e4fd-49e3-9398-ece8be2e0026

Cannabinoid attenuates catalepsy induced by distinct pharmacological mechanisms via 5-HT1A receptors activation in mice. (abst – 2013)  http://www.ncbi.nlm.nih.gov/pubmed/23791616


Cannabinoid receptor modulation of the endothelial cell inflammatory response (abst – 2013)  http://www.jimmunol.org/cgi/content/meeting_abstract/190/1_MeetingAbstracts/112.29?sid=c3422dd2-7ad0-42e4-a862-845dc670f7c


Cannabinoids, Neurogenesis and Antidepressant Drugs: Is there a Link?


Complex Interplay between the Cannabinoid CB1 Receptor and Corticotropin-Releasing Hormone in the Regulation of Appetite, Food Intake and Energy Expenditure (abst – 2013) http://edrv.endojournals.org/cgi/content/meeting_abstract/34/03_MeetingAbstracts/MON-671?sid=89628f3e-b2f1-448c-b0df-984f390dfffd2

CB1 cannabinoid receptor expressed in enteroendocrine cells mediates food intake in mice (abst – 2013) http://edrv.endojournals.org/cgi/content/meeting_abstract/34/03_MeetingAbstracts/SAT-659?sid=89628f3e-b2f1-448c-b0df-984f390dfffd2


Obesity-driven synaptic remodeling affects endocannabinoid control of orexinergic neurons (abst – 2013) http://www.pnas.org/content/110/24/E2229.abstract?sid=9072cbaa-20ba-484f-86cc-00052ffe8339

Endocannabinoid receptor (CB1R) deficiency affects maternal care and alters the dam's hippocampal oxytocin receptor and BDNF expression (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23895426


Why resolutions about taking up physical activity are hard to keep. (news – 2013) http://www.thefreelibrary.com/Why+resolutions+about+taking+up+physical+activity+are+hard+to+keep.-a0313904638

Key Shift in Brain That Creates Drive to Overeat Identified (news – 2013) http://www.sciencedaily.com/releases/2013/04/130429154214.htm
Brain-Imaging Study Links Cannabinoid Receptors to Post-Traumatic Stress Disorder: First Pharmaceutical Treatment for PTSD Within Reach  (news – 2013)
http://www.sciencedaily.com/releases/2013/05/130514085016.htm

Researchers discover connection between CB1 receptors and PTSD  (news – 2013)

Marijuana May Cure PTSD  (news – 2013)

GABA deficits disturb endocannabinoid system  (news – 2013)
http://www.sciencecodex.com/read/gaba_deficits_disturb_endocannabinoid_system-84784

Marijuana-like compound could lead to first-ever medication for PTSD  (news – 2013)
http://www.foxnews.com/health/2013/05/14/marijuana-like-compound-could-lead-to-first-ever-medication-for-ptsd/

**CBR - CB2 CANNABINOID RECEPTOR** - no "high", activated by THC, Anandamide, 2–AG, THC

Cannabinoid Receptor Ligands  (full - undated)
http://www.tocris.com/pdfs/cannabinoid_receptor_review/page_001.html

Introduction to the Endocannabinoid System  (news – undated)
http://norml.org/library/item/introduction-to-the-endocannabinoid-system

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

Immunomodulation by Cannabinoids is Absent in Mice Deficient for the Cannabinoid Cb(2) Receptor.  (abst – 2000)

Involvement of central and peripheral cannabinoid receptors in the regulation of heart resistance to arrhythmogenic effects of epinephrine.  (abst - 2000)

Inhibition of Glioma Growth in Vivo by Selective Activation of the CB2 Cannabinoid Receptor1  (full - 2001)
http://cancerres.aacrjournals.org/cgi/reprint/61/15/5784.pdf

Sourcing the Code: Searching for the Evolutionary Origins of Cannabinoid Receptors, Vanilloid Receptors, and Anandamide  (full – 2002)
Targeting CB2 cannabinoid receptors as a novel therapy to treat malignant lymphoblastic disease  (full - 2002)
http://bloodjournal.hematologylibrary.org/cgi/content/full/100/2/627?ijkey=eb71d6d7a06f311440761cfac6a7d081bcc2771d

CB2 cannabinoid receptor agonists: pain relief without psychoactive effects?  (abst - 2002)  

Anandamide and R-(+)-methanandamide prevent development of ischemic and reperfusion arrhythmia in rats by stimulation of CB2-receptors  (abst – 2002)

Lymphoma may be slowed by cannabis  (news - 2002)

Differential Roles of CB1 and CB2 Cannabinoid Receptors in Mast Cells  (full – 2003)
http://www.jimmunol.org/content/170/10/4953.full?sid=59017819-f39b-4214-abca-07231b51da55

Cannabinoid CB2 Receptors and Fatty Acid Amide Hydrolase Are Selectively Overexpressed in Neuritic Plaque-Associated Glia in Alzheimer's Disease Brains  (full – 2003)
http://www.jneurosci.org/content/23/35/11136.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&resourcetype=HWCIT

Endocannabinoid signalling in the blood of patients with schizophrenia  (full – 2003)
http://www.lipidworld.com/content/2/1/5

Activation of CB2 cannabinoid receptors by AM1241 inhibits experimental neuropathic pain: Pain inhibition by receptors not present in the CNS  (full - 2003)
http://www.pnas.org/content/100/18/10529.full

Inhibition of Inflammatory Hyperalgesia by Activation of Peripheral CB2 Cannabinoid Receptors  (full – 2003)

Cannabinoid CB2 receptor activation reduces mouse myocardial ischemia-reperfusion injury: involvement of cytokine/chemokines and PMN  (full - 2003)
http://www.jleukbio.org/cgi/content/full/75/3/453?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT

Inhibition of guinea-pig and human sensory nerve activity and the cough reflex in guinea-pigs by cannabinoid (CB2) receptor activation.  (full - 2003)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1574031/?tool=pubmed

Effects of cannabinoid receptor-2 activation on accelerated gastrointestinal transit in lipopolysaccharide-treated rats  (full - 2004)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1575196/?tool=pmcentrez
Cannabinoids and intestinal motility: welcome to CB2 receptors  
[full - 2004]  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1575197/  

The Peripheral Cannabinoid Receptor CB2 and CD40 Are Novel Biological Markers That Predict Outcome in Diffuse Large B-Cell Lymphoma of Elderly Patients.  
(abst - 2004)  
http://abstracts.hematologylibrary.org/cgi/content/abstract/104/11/3256?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourcetype=HWCIT  

Cannabinoid receptor type 2 gene is associated with human osteoporosis  
(full - 2005)  
http://hmg.oxfordjournals.org/cgi/content/full/14/22/3389?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=400&resourcetype=HWCIT  

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  

Evidence that the plant cannabinoid Δ9-tetrahydrocannabinvarin is a cannabinoid CB1 and CB2 receptor antagonist  
(full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1751228/?tool=pubmed  

Stimulation of cannabinoid receptor 2 (CB2) suppresses microglial activation  
(full – 2005)  
http://www.springerlink.com/content/tq777102q4185073/fulltext.html  

Cannabidiol inhibits human glioma cell migration through a cannabinoid receptor-independent mechanism  
(full - 2005)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1576089/?tool=pmcentre  

CB2 cannabinoid receptors in trabecular meshwork cells mediate JWH015-induced enhancement of aqueous humor outflow facility.  
(full - 2005)  
http://www.iovs.org/content/46/6/1988.long  

Low dose oral cannabinoid therapy reduces progression of atherosclerosis in mice  
(full - 2005)  
http://www.nature.com/nature/journal/v434/n7034/full/nature03389.html  

Identification and functional characterization of brainstem cannabinoid CB2 receptors.  
(full - 2005) (requires free registration)  
http://www.sciencemag.org/content/310/5746/329.full  

Chemical modification of the naphthoyl 3-position of JWH-015: In search of a fluorescent probe to the cannabinoid CB2 receptor  
(abst – 2005)  

Marijuana May Grow Neurons in the Brain  
(news - 2005)  
http://www.medpagetoday.com/Psychiatry/AnxietyStress/1934  

The Cannabinoid CB2 Receptor as a Target for Inflammation-Dependent Neurodegeneration  
(full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2435344/?tool=pmcentre
Cannabidiol-Induced Apoptosis in Human Leukemia Cells: A Novel Role of Cannabidiol in the Regulation of p22phox and Nox4 Expression (full - 2006)  
http://molpharm.aspetjournals.org/content/70/3/897.long

Non-psychoactive CB2 cannabinoid agonists stimulate neural progenitor proliferation (full - 2006)  
http://www.fasebj.org/cgi/content/full/20/13/2405?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabis&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HW

In vitro pharmacological characterization of AM1241: a protean agonist at the cannabinoid CB2 receptor? (full - 2006)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2013801/?tool=pubmed

Peripheral cannabinoid receptor, CB2, regulates bone mass (full - 2006)  
http://www.pnas.org/content/103/3/696.full

Signaling pathways involved in the cardioprotective effects of cannabinoids. (full - 2006)  
https://www.jstage.jst.go.jp/article/jphs/102/2/102_2_155/_pdf

Alkylamides from Echinacea are a new class of cannabinomimetics. Cannabinoid type 2 receptor-dependent and -independent immunomodulatory effects. (full – 2006)  
http://www.jbc.org/content/281/20/14192.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

New Natural Noncannabinoid Ligands for Cannabinoid Type-2 (CB2) Receptors (abst - 2006)  
http://informahealthcare.com/doi/abs/10.1080/10799890600942674

Delta-9-tetrahydrocannabinol protects cardiac cells from hypoxia via CB2 receptor activation and nitric oxide production (abst - 2006)  
http://www.ingentaconnect.com/content/klu/mcbi/2006/00000283/F0020001/00002346


Towards a therapeutic use of selective CB2 cannabinoid receptor ligands for atherosclerosis. (abst – 2006)  

Researchers from the Hebrew University Discover New Drug for Osteoporosis (news – 2006)  

Women with a variant of the CB2 gene have a three-fold higher risk of osteoporosis
Activation of CB2 receptor attenuates bone loss in osteoporosis (news - 2006)

Cannabinoid CB1 and CB2 Receptors and Fatty Acid Amide Hydrolase Are Specific Markers of Plaque Cell Subtypes in Human Multiple Sclerosis (full - 2007)
http://www.jneurosci.org/cgi/content/full/27/9/2396?maxtoshow=&hits=10&RESULTFORMAT=&fulltext=cannabinoid&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcetype=HWCIT

CB2 cannabinoid receptors as an emerging target for demyelinating diseases: from neuroimmune interactions to cell replacement strategies (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219542/?tool=pmcentrez

Spinal cannabinoid receptor type 2 activation reduces hypersensitivity and spinal cord glial activation after paw incision. (full - 2007)

Cannabinoid CB2 receptors in the gastrointestinal tract: a regulatory system in states of inflammation (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219529/?tool=pmcentrez

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

Virodhamine and CP55,940 modulate cAMP production and IL-8 release in human bronchial epithelial cells. (full – 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2042924/?tool=pubmed

In vivo effects of CB2 receptor-selective cannabinoids on the vasculature of normal and arthritic rat knee joints (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219539/?tool=pmcentrez

Cannabinoid CB2 receptor activation decreases cerebral infarction in a mouse focal ischemia/reperfusion model (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2637559/?tool=pmcentrez

The CB2 cannabinoid agonist AM-1241 prolongs survival in a transgenic mouse model of amyotrophic lateral sclerosis when initiated at symptom onset (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2819701/?tool=pmcentrez

CB2 receptors in the brain: role in central immune function (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC22219530/?tool=pmcentrez
Cannabinoid CB2 receptors in the gastrointestinal tract: a regulatory system in states of inflammation (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219529/?tool=pmcentrez

Potential role for CB2 selective ligands as immunosuppressive agents (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1864948/?tool=pmcentrez

Cannabinoid CB2 receptors: a therapeutic target for the treatment of inflammatory and neuropathic pain (full - 2007)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219541/?tool=pmcentrez

Cannabidiol displays unexpectedly high potency as an antagonist of CB1 and CB2 receptor agonists in vitro (full - 2007)  

CB2 cannabinoid receptors promote mouse neural stem cell proliferation. (abst – 2007)  

Cannabinoids for the treatment of inflammation. (abst - 2007)  

Cannabinoid CB2 receptor activation prevents bronchoconstriction and airway oedema in a model of gastro-oesophageal reflux (abst - 2007)  

The local antinociceptive effects of paracetamol in neuropathic pain are mediated by cannabinoid receptors (abst – 2007)  

Role of cannabinoid CB2 receptors in glucose homeostasis in rats (abst – 2007)  

The cannabinoid CB(2) receptor: a good friend in the gut. (abst – 2007)  

Involvement of cannabinoid CB2 receptor in alcohol preference in mice and alcoholism in humans (abst – 2007)  

Cannabinoids stimulate fibroblastic colony formation by bone marrow cells indirectly via CB2 receptors. (abst – 2007)  

Hippies vindicated: Human-produced cannabinoids have anti-inflammatory powers (news – 2007)  
http://www.sciencecodex.com/hippies_vindicated_human_produced_cannabinoids_have_anti_inflammatory_powers

CB2 receptors in reproduction (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219526/
Cannabinoid CB2 receptors in human brain inflammation  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219537/

Cannabinoid receptor 2 is increased in acutely and chronically inflamed bladder of rats  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2592089/?tool=pmcentrez

Regulation of Bone Mass, Osteoclast Function, and Ovariectomy-Induced Bone Loss by the Type 2 Cannabinoid Receptor  (full - 2008)  
http://endo.endojournals.org/cgi/content/full/149/11/5619?maxtoshow=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=240&resourcetype=HWCIT

The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids: Δ9-tetrahydrocannabinol, cannabidiol and Δ9-tetrahydrocannabivarin  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219532/

The CB2 Cannabinoid Receptor Controls Myeloid Progenitor Trafficking INVOLVEMENT IN THE PATHOGENESIS OF AN ANIMAL MODEL OF MULTIPLE SCLEROSIS  (full - 2008)  
http://www.jbc.org/content/283/19/13320.long

Cannabinoid receptors and the regulation of bone mass  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219540/?tool=pmcentrez

Selective Activation of Cannabinoid CB2 Receptors Suppresses Neuropathic Nociception Induced by Treatment with the Chemotherapeutic Agent Paclitaxel in Rats  (full - 2008)  
http://jpet.aspetjournals.org/content/327/2/584.full#content-block

CB2 cannabinoid receptors as an emerging target for demyelinating diseases: from neuroimmune interactions to cell replacement strategies  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219542/

Pleiotropic effects of the CB2 cannabinoid receptor activation on human monocyte migration: implications for atherosclerosis and inflammatory diseases  (full – 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2267750/?tool=pubmed

Crucial Role of CB2 Cannabinoid Receptor in the Regulation of Central Immune Responses during Neuropathic Pain  (full - 2008)  
http://www.jneurosci.org/cgi/content/full/28/46/12125

Expression of the Endocannabinoid System in Human First Trimester Placenta and Its Role in Trophoblast Proliferation  (full – 2008)  
http://endo.endojournals.org/content/149/10/5052.full?sid=15b14012-9fbc-4f10-890c-386313060cf8

The cannabinoid delta-9-tetrahydrocannabinol mediates inhibition of macrophage chemotaxis to RANTES/CCL5: linkage to the CB2 receptor.  (full – 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2677557/
Cannabinoid CB2 receptors in the enteric nervous system modulate gastrointestinal contractility in lipopolysaccharide-treated rats (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2494728/?tool=pubmed

Cannabinoid CB2 receptors in the gastrointestinal tract: a regulatory system in states of inflammation. (full – 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219529/?tool=pubmed

Endocannabinoids and Liver Disease. III. Endocannabinoid effects on immune cells: implications for inflammatory liver diseases (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2376822/?tool=pmcentrez

Regression of Fibrosis after Chronic Stimulation of Cannabinoid CB2 Receptor in Cirrhotic Rats (full - 2008)
http://jpet.aspetjournals.org/content/324/2/475.full?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=320&resourcetype=HWCIT#content-block

Endocannabinoids and cannabinoid receptors in ischaemia–reperfusion injury and preconditioning (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219536/?tool=pmcentrez

Virodhamine relaxes the human pulmonary artery through the endothelial cannabinoid receptor and indirectly through a COX product. (full – 2008)

CB2 receptors as new therapeutic targets for liver diseases. (full - 2008)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2219531/?tool=pubmed

The CB(2) cannabinoid receptor controls myeloid progenitor trafficking: involvement in the pathogenesis of an animal model of multiple sclerosis. (full - 2008)
http://www.jbc.org/content/283/19/13320.long

Crucial role of CB(2) cannabinoid receptor in the regulation of central immune responses during neuropathic pain. (full - 2008) http://www.jneurosci.org/cgi/content/full/28/46/12125

Role of activated endocannabinoid system in regulation of cellular cholesterol metabolism in macrophages (full – 2008)
http://cardiovascres.oxfordjournals.org/content/81/4/805.full?sid=7d2438c4-a727-410f-870d-4a971695b41f

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

Expression of cannabinoid receptors type 1 and type 2 in non-Hodgkin lymphoma: growth inhibition by receptor activation. (full – 2008)


Glial expression of cannabinoid CB(2) receptors and fatty acid amide hydrolase are beta amyloid-linked events in Down's syndrome. (abst – 2008) http://www.ncbi.nlm.nih.gov/pubmed/18068305


Cannabislike Drugs May Hold Key to Treating Pain While Bypassing the Brain (news – 2008) http://jama.jamanetwork.com/article.aspx?articleid=182826


Modulation of cannabinoid receptor activation as a neuroprotective strategy for EAE and stroke. (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2855650/?tool=pubmed

Emerging Role of the CB2 Cannabinoid Receptor in Immune Regulation and Therapeutic Prospects (full - 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2768535/?tool=pmcentrez

Spatio-temporal expression patterns of anandamide-binding receptors in rat implantation sites: evidence for a role of the endocannabinoid system during the period of placental development (full – 2009) http://www.rbej.com/content/7/1/121

The CB1/CB2 receptor agonist WIN-55,212-2 reduces viability of human Kaposi’s sarcoma cells in vitro (full - 2009) http://science.iowamedicalmarijuana.org/pdfs/cancer/Luca%20et%20al%202009%2019539619.pdf
The cannabinoid receptor 2 is critical for the host response to sepsis. (full – 2009) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2763235/?tool=pubmed

CB1 and CB2 cannabinoid receptors differentially regulate the production of reactive oxygen species by macrophages (full – 2009) http://cardiovascres.oxfordjournals.org/content/84/3/378.full?sid=7d2438c4-a727-410f-870d-4a971695b4f


Endocannabinoids and Their Receptors as Targets for Obesity Therapy (full - 2009) http://endo.endojournals.org/cgi/content/full/150/6/2531#top

Inhibition of human tumour prostate PC-3 cell growth by cannabinoids R(+) - Methanandamide and JWH-015: Involvement of CB2 (full - 2009) http://www.nature.com/bjc/journal/v101/n6/full/6605248a.html


Endocannabinoid-mediated control of synaptic transmission. (full – 2009) http://physrev.physiology.org/content/89/1/309.long

Microglial CB2 cannabinoid receptors are neuroprotective in Huntington's disease excitotoxicity (full - 2009) http://brain.oxfordjournals.org/content/132/11/3152.long


CXCR4-chemokine receptor and Cannabinoid Receptor 2 (CB2) heterodimerization suggests a mechanism for breast metastasis regulation (abst – 2009)


Cannabinoid-mediated modulation of neuropathic pain and microglial accumulation in a model of murine type I diabetic peripheral neuropathic pain (full - 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2845559/?tool=pmcentrez

Activation of cannabinoid 2 receptors protects against cerebral ischemia by inhibiting neutrophil recruitment. (full – 2010) http://www.fasebj.org/content/24/3/788.long


Cannabinoid-2 receptor limits inflammation, oxidative/nitrosative stress, and cell death in nephropathy. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2869084/?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.biomedcentral.com/1471-2202/11/44

Tonic modulation of spinal hyperexcitability by the endocannabinoid receptor system in a rat model of osteoarthritis pain. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3132591/?tool=pubmed

Cannabinoid inhibition of macrophage migration to the trans-activating (Tat) protein of HIV-1 is linked to the CB(2) cannabinoid receptor. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2846023/?tool=pubmed

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

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

Immunoregulation of a CB2 receptor agonist in a murine model of neuroAIDS. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3109320/

Cannabinoid (JWH-133) therapy could be effective for treatment of corneal neovascularization (link to PDF – 2010) http://www.doaj.org/doaj?func=abstract&id=844832&q1=cannabinoid&f1=all&b1=or&q2=cannabis&f2=all&recNo=68&uiLanguage=en


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

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

Consider the CB(2) Receptor (article – 2010) http://www.wellsphere.com/drug-addiction-article/consider-the-cb-2-receptor/1164631


The cannabinoid receptor type 2 is time-dependently expressed during skeletal muscle wound healing in rats (abst - 2010)  

Cannabinoid subtype-2 receptors modulate the antihyperalgesic effect of WIN 55,212-2 in rats with neuropathic spinal cord injury pain. (abst – 2010)  

The serine hydrolase ABHD6 controls the accumulation and efficacy of 2-AG at cannabinoid receptors (abst – 2010)  
http://www.nature.com/neuro/journal/v13/n8/full/nn.2601.html

Substantially altered expression pattern of cannabinoid receptor 2 and activated endocannabinoid system in patients with severe heart failure. (abst – 2010)  


Cannabinoid (JWH-133) therapy could be effective for treatment of corneal neovascularization (abst – 2010)  
http://www.doaj.org/doaj?func=abstract&id=844832&q1=Cannabinoid%20%28JWH-133%29%20therapy%20could%20be%20effective%20for%20treatment%20of%20corneal%20neovascularization%20&f1=all&b1=and&q2=&f2=all&recNo=1&uiLanguage=en

Paradoxical effects of the cannabinoid CB2 receptor agonist GW405833 on rat osteoarthritic knee joint pain. (abst – 2010)  

Functionally selective cannabinoid receptor signalling: Therapeutic implications and opportunities (abst – 2010)  

The development of cannabinoid CBII receptor agonists for the treatment of central neuropathies. (abst – 2010)  

Role of the endocannabinoid system in alcoholic liver disease. (abst – 2010)  

Interaction between anandamide and sphingosine-1-phosphate in mediating vasorelaxation in rat coronary artery (abst – 2010)  
http://www.unboundmedicine.com/medline/ebm/record/20718749/abstract/Interaction_between_anandamide_and_sphingosine_1_phosphate_in_mediating_vasorelaxation_in_rat_coronary_artery

Studies demonstrate analgesic properties of synthetic cannabinoid (news – 2010)  
Deletion of CB2 Cannabinoid Receptor Induces Schizophrenia-Related Behaviors in Mice  (full – 2011)  http://www.nature.com/npp/journal/v36/n7/full/npp201134a.html

Cannabinoid receptors, CB1 and CB2, as novel targets for inhibition of non-small cell lung cancer growth and metastasis  (full - 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3025486/?tool=pubmed

Cannabinoid receptor 2 signaling does not modulate atherogenesis in mice  (full – 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3082575/?tool=pubmed

Cannabinoid Receptor 2 Deficiency in Haematopoietic cells Aggravates Early Atherosclerosis in LDL Receptor Deficient Mice.  (full – 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3109635/?tool=pubmed


Targeting the CB2 cannabinoid receptor in osteoporosis  (full – 2011)  http://www.expert-reviews.com/doi/full/10.1586/eem.11.2?prevSearch=Keyword%253A%2522cannabinoid%2522%2522&searchHistoryKey=


Functional selectivity in CB2 cannabinoid receptor signaling and regulation: implications for the therapeutic potential of CB2 ligands.  (full – 2011)  http://molpharm.aspetjournals.org/content/early/2011/11/07/mol.111.074013.long


Cannabinoid CB2 Receptors Contribute to Upregulation of β-endorphin in Inflamed Skin Tissues by Electroacupuncture  (full – 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3281798/

Crosstalk between chemokine receptor CXCR4 and cannabinoid receptor CB2 in modulating breast cancer growth and invasion.  (full – 2011)  http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3168464/?tool=pubmed

Endocannabinoid system in cardiovascular disorders - new pharmacotherapeutic opportunities  (full – 2011)  http://www.jpbsonline.org/article.asp?issn=0975-7406;year=2011;volume=3;issue=3;spage=350;epage=360;aulast=Cunha

Cannabinoid Receptor 2 Deficiency in Haematopoietic cells Aggravates Early Atherosclerosis in LDL Receptor Deficient Mice.  (full – 2011)
Regulatory effect of cannabinoid receptor agonist on chemokine-induced lymphocyte chemotaxis. (full – 2011) https://www.jstage.jst.go.jp/article/bpb/34/7/34_7_1090/_pdf

Protective Role of Cannabinoid Receptor Type 2 in a Mouse Model of Diabetic Nephropathy. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3161308/


Is lipid signaling through cannabinoid 2 receptors part of a protective system? (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3062638/


CNR2 functional variant (Q63R) influences childhood immune thrombocytopenic purpura. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3232275/

Activation of cannabinoid type 2 receptors inhibits HIV-1 envelope glycoprotein gp120-induced synapse loss. (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3164336/

The activation of the cannabinoid receptor type 2 reduces neutrophilic protease-mediated vulnerability in atherosclerotic plaques (full – 2011) http://eurheartj.oxfordjournals.org/content/33/7/846.full


The Type 2 Cannabinoid Receptor Regulates Bone Mass and Ovariectomy-Induced Bone Loss by Affecting Osteoblast Differentiation and Bone Formation (full – 2011) http://endo.endojournals.org/content/152/6/2141.full

Cannabinoid Receptor 2 Is Critical for the Homing and Retention of Marginal Zone B Lineage Cells and for Efficient T-Independent Immune Responses (full – 2011) http://www.jimmunol.org/content/187/11/5720.full.pdf+html

N-arachidonoyl--serine is neuroprotective after traumatic brain injury by reducing apoptosis (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3170948/


Cannabidiol decreases body weight gain in rats: Involvement of CB2 receptors. (abst - 2011) http://marijuana.researchtoday.net/archive/8/1/3517.htm


Deletion of cannabinoid receptors 1 and 2 exacerbates APC function to increase inflammation and cellular immunity during influenza infection. (abst – 2011)  http://www.ncbi.nlm.nih.gov/pubmed/21873455


Brain cannabinoid CB2 receptors modulate cocaine's actions in mice (abst – 2011)  http://www.nature.com/neuro/journal/vaop/ncurrent/full/nn.2874.html


Antinociceptive effects induced through the stimulation of spinal cannabinoid type 2 receptors in chronically inflamed mice  (abst - 2011)  http://www.unboundmedicine.com/medline/ebm/record/21771590/abstract/Antinociceptive_effects_induced_through_the_stimulation_of_spinal_cannabinoid_type_2_receptors_in_chronically_inflamed_mice_


Sex Differences in Cannabinoid 1 vs. Cannabinoid 2 Receptor-Selective Antagonism of Antinociception Produced by Δ9-Tetrahydrocannabinol and CP55,940 in the Rat (abst – 2011)  http://jpet.aspetjournals.org/content/340/3/787.abstract?sid=2ef42c80-59ad-4b4e-8eed-d5b9d556b866


The endocannabinoid system in the cancer therapy: an overview. (abst – 2011)  

CB2 Cannabinoid Receptors Promote Neural Progenitor Cell Proliferation via mTORC1 Signaling (abst – 2011)  
http://www.jbc.org/content/287/2/1198.abstract?sid=2c3b88ec-b6e6-4245-a171-2e24c17b5e8b

Activation of Cannabinoid Type 2 Receptors Inhibits HIV-1 Envelope Glycoprotein gp120-Induced Synapse Loss (abst – 2011)  
http://molpharm.aspetjournals.org/content/80/3/357.abstract?sid=5a0b04c-1879-438e-a131-8829ce6f9bcb

Electroacupuncture reduces the expression of proinflammatory cytokines in inflamed skin tissues through activation of cannabinoid CB2 receptors. (abst – 2011)  

The role of central CB2 cannabinoid receptors on food intake in neonatal chicks (abst – 2011)  

Severity of acute cystitis may be cut with cannabinoid agonist (news – 2011)  

Effects of a Selective Cannabinoid CB2 Agonist and Antagonist on Intravenous Nicotine Self Administration and Reinstatement of Nicotine Seeking. (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3266883/?tool=pubmed

Methylhonokiol attenuates neuroinflammation: a role for cannabinoid receptors? (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3419612/

Endocannabinoids Stimulate Human Melanogenesis via Type-1 Cannabinoid Receptor (full – 2012)  
http://www.jbc.org/content/early/2012/03/19/jbc.M111.314880.full.pdf+html

The role of CB2 receptor ligands in human eosinophil function (full – 2012)  

Cannabinoid Receptor 2-Mediated Attenuation of CXCR4-Tropic HIV Infection in Primary CD4+ T Cells (full – 2012)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0033961

Cannabinoids and atherosclerotic coronary heart disease. (full – 2012)  

Targeting cannabinoid receptor CB2 in cardiovascular disorders: promises and controversies (full – 2012)  
Cannabinoid receptor 2 activation reduces intestinal leukocyte recruitment and systemic inflammatory mediator release in acute experimental sepsis (full – 2012)  
http://ccforum.com/content/16/2/R47

Disease modification of breast cancer-induced bone remodeling by cannabinoid 2 receptor agonists. (full – 2012)  

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

Cannabinoid modulation of neuroinflammatory disorders. (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3386505/

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

Therapeutic Potentials and uses of Cannabinoid Agonists in Health and Disease Conditions (full – 2012)  
http://maxwellsci.com/print/bjpt/v3-76-88.pdf

Role of cannabinoids in the regulation of bone remodeling (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3499879/

Early Endogenous Activation of CB1 and CB2 Receptors after Spinal Cord Injury Is a Protective Response Involved in Spontaneous Recovery (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3496738/

The maintenance of cisplatin- and paclitaxel-induced mechanical and cold allodynia is suppressed by cannabinoid CB2 receptor activation and independent of CXCR4 signaling in models of chemotherapy-induced peripheral neuropathy (full – 2012)  
http://www.molecularpain.com/content/8/1/71

Small-animal PET imaging of the type 1 and type 2 cannabinoid receptors in a photothrombotic stroke model (full – 2012)  

Differences in the endocannabinoid system of sperm from fertile and infertile men. (full – 2012)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0047704

Cannabinoid receptor type 2 is time-dependently expressed during skin wound healing in mice. (full – 2012)  

GPR18 in microglia: implications for the CNS and endocannabinoid system signaling (full – 2012)  

Cannabinoids Facilitate the Swallowing Reflex Elicited by the Superior Laryngeal Nerve Stimulation in Rats (full – 2012)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3507745/
Cannabinoid receptor type 2 functional variant influences liver damage in children with non-alcoholic Fatty liver disease.  (full – 2012)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0042259

Targeting cannabinoid receptor CB(2) in cardiovascular disorders: promises and controversies.  (full – 2012)  

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

Endocannabinoids in stressed humans  (link to PDF – 2012)  
http://www.doaj.org/doaj?func=abstract&id=1152482&q1=cannabinoid&f1=all&b1=and&q2=&f2=all&recNo=2&uiLanguage=en

Activation of the CB(2) receptor system reverses amyloid-induced memory deficiency.  (abst – 2012)  

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/

Behavioral effects of pulp exposure in mice lacking cannabinoid receptor 2.  (abst – 2012)  

Role of cannabinoid 2 receptor in the development of bone cancer pain  (abst – 2012)  

Review article: Why do cannabinoid receptors have more than one endogenous ligand?  (abst - 2012)  

Cannabinoid type 2 receptor activation downregulates stroke-induced classic and alternative brain macrophage/microglial activation concomitant to neuroprotection.  (abst – 2012)  

Cannabinoid CB(2) receptor-mediated regulation of impulsive-like behaviour in DBA/2 mice.  (abst – 2012)  

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

Overexpression of CB2 cannabinoid receptors results in neuroprotection against behavioral and neurochemical alterations induced by intracaudate administration of 6-hydroxydopamine.  (abst – 2012)  

Overexpression of cannabinoid CB2 receptor in the brain induces hyperglycaemia and a lean phenotype in adult mice.  (abst – 2012)  


Cannabinoid receptor-2-selective agonists improve recovery in experimental autoimmune encephalomyelitis (abst – 2012) http://www.jimmunol.org/cgi/content/meeting_abstract/188/1_MeetingAbstracts/116.7?maxtoshow=&hits=25&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=130&sortspec=date&resourcetype=HWCIT


Cannabinoid receptor 2 agonists inhibit migration of activated dendritic cells via modulation of MMP-9 (abst – 2012)
Cannabinoid receptors in submandibular acinar cells: Functional coupling between saliva fluid and electrolytes secretion and Ca2+ signalling (abst – 2012)

Discovery and optimization of novel purines as potent and selective CB2 agonists. (abst – 2012)  

Therapeutic modulation of cannabinoid lipid signaling: Metabolic profiling of a novel antinociceptive cannabinoid-2 receptor agonist. (abst – 2012)  

Sex Differences in Cannabinoid 1 vs. Cannabinoid 2 Receptor-Selective Antagonism of Antinociception Produced by Δ9-Tetrahydrocannabinol and CP55,940 in the Rat (abst – 2012)  
http://jpet.aspetjournals.org/content/340/3/787.abstract?sid=ae58f15a-06bb-4a81-b850-61bb89fd59f5

The Expression and Significance of Cannabinoid Receptor 2 in Non-infectious Granuloma and Malignant Melanoma (abst – 2012)  

Activation of cannabinoid receptor 2 attenuates leukocyte-endothelial cell interactions and blood-brain barrier dysfunction under inflammatory conditions. (abst – 2012)  

Spinal Cord Fatty Acid Amide Hydrolase (FAAH) in Normal Micturition Control and Bladder Overactivity in Awake Rats. (abst – 2012)  

Excitability of prefrontal cortical pyramidal neurons is modulated by activation of intracellular type-2 cannabinoid receptors. (abst – 2012)  

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. (abst – 2012)  

A cannabinoid type 2 receptor agonist attenuates blood-brain barrier damage and neurodegeneration in a murine model of traumatic brain injury. (abst – 2012)  

Expression of fatty acid amide hydrolase (FAAH) in human, mouse, and rat urinary bladder and effects of FAAH inhibition on bladder function in awake rats. (abst – 2012)  
Genetic variability in the endocannabinoid system and 12-week clinical response to citalopram treatment: the role of the CNR1, CNR2 and FAAH genes (abst – 2012)  
http://jop.sagepub.com/content/early/2012/07/22/0269881112454229.abstract?maxtoshow=&bits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcetype=HWCIT

Signaling through cannabinoid receptor 2 suppresses murine dendritic cell migration by inhibiting matrix metalloproteinase 9 expression. (abst – 2012)  

The therapeutic potential of cannabis and cannabinoids. (abst – 2012)  

Anandamide enhances expression of heat shock protein 72 to protect against ischemia-reperfusion injury in rat heart. (abst – 2012)  

Cannabinoid Receptor Subtypes 1 and 2 Mediate Long-Lasting Neuroprotection and Improve Motor Behaviour Deficits After Transient Focal Cerebral Ischemia. (abst – 2012)  

4-Oxo-1,4-dihydropyridines as Selective CB2 Cannabinoid Receptor Ligands Part 2: Discovery of New Agonists Endowed with Protective Effect Against Experimental Colitis. (abst – 2012)  

Chronic activation of cannabinoid receptors in vitro does not compromise mouse islet function. (abst – 2012)  

Distribution and function of the endocannabinoid system in the rat and human bladder. (abst – 2012)  

The cannabinoid receptor-2 is involved in allergic inflammation (abst – 2012)  

Cannabinoid drugs can directly inhibit HIV in late-stage AIDS (news – 2012)  

Cannabinoid 2 receptors regulate impulsive behavior (news – 2012)  

Involvement of peripheral cannabinoid and opioid receptors in β-caryophyllene-induced antinociception. (abst – 2012)  

Activation of Cannabinoid Receptor 2 reduces inflammation in acute experimental pancreatitis via intra-acinar activation of p38 and MK2-dependent mechanisms. (abst – 2012)  


Role of CB1 and CB2 cannabinoid receptors in the development of joint pain induced by monosodium iodoacetate. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/23199705


Researchers investigating potential drug for treatment of Alzheimer's disease (news – 2012)

A biophysical model of endocannabinoid-mediated short term depression in hippocampal inhibition. (full – 2013)
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0058926

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


The Second Intracellular Loop of the Human Cannabinoid CB2 Receptor Governs G Protein Coupling in Coordination with the Carboxyl Terminal Domain. (full – 2013)
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0063262

Cannabinoid Receptor 2 Protects against Acute Experimental Sepsis in Mice. (full – 2013) http://www.hindawi.com/journals/mi/2013/741303/


Stabilization of Functional Recombinant Cannabinoid Receptor CB2 in Detergent Micelles and Lipid Bilayers (full – 2013)
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0046290

Cannabinoids inhibit energetic metabolism and induce AMPK-dependent autophagy in pancreatic cancer cells. (full – 2013)
GPR55 and its interaction with membrane lipids: comparison with other endocannabinoid-binding receptors. (link to PDF - 2013)
http://www.eurekaselect.com/105678/article

Endocannabinoid signaling in cancer: a rather complex puzzle (letter - 2013)

CB1 and CB2 Cannabinoid Receptor Agonists Induce Peripheral Antinociception by Activation of the Endogenous Noradrenergic System. (abst – 2013)

Differential Expression of Intracellular and Extracellular CB(2) Cannabinoid Receptor Protein by Human Peripheral Blood Leukocytes. (abst – 2013)


The cannabinoid TRPA1 agonist cannabichromene inhibits nitric oxide production in macrophages and ameliorates murine colitis. (abst – 2013)

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

Cannabinoid CB2 receptor gene (CNR2) polymorphism is associated with chronic childhood immune thrombocytopenia in Egypt. (abst – 2013)


Activation of Cannabinoid CB2 Receptor-Mediated AMPK/CREB Pathway Reduces Cerebral Ischemic Injury. (abst – 2013)

Attenuation of HIV-1 replication in macrophages by cannabinoid receptor 2 agonists. (abst – 2013)

Comparative proteomic and phosphoproteomic profiling of pancreatic adenocarcinoma cells treated with CB1 or CB2 agonists. (abst – 2013)

Cannabinoid Receptor 2: Potential Role in Immunomodulation and Neuroinflammation. (abst – 2013)

Application of HaloTag Technology to Expression and Purification of Cannabinoid Receptor CB2. (abst – 2013)

Endogenous Lipid Activated G Protein-Coupled Receptors: Emerging Structural Features From Crystallography and Molecular Dynamics Simulations. (abst – 2013)

Endocannabinoid system and drug addiction: new insights from mutant mice approaches. (abst – 2013)

Cannabinoid receptors are widely expressed in goldfish: molecular cloning of a CB2-like receptor and evaluation of CB1 and CB2 mRNA expression profiles in different organs. (abst - 2013)

The complex effects of cannabinoids on insulin secretion from rat isolated islets of Langerhans. (abst – 2013)

Whole-Body Biodistribution and Radiation Dosimetry of the Cannabinoid Type 2 Receptor Ligand [11C]-NE40 in Healthy Subjects. (abst – 2013)

Chemical probes of endocannabinoid metabolism. (abst – 2013)


Cannabinoid Receptor Type 2, but not Type 1, is Up-Regulated in Peripheral Blood Mononuclear Cells of Children Affected by Autistic Disorders. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23585028

Mechanisms Of Cannabidiol Neuroprotection In Hypoxic-Ischemic Newborn Pigs: Role Of 5HT1A And CB2 Receptors. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23587650


Childhood immune thrombocytopenia-who will spontaneously recover? (abst – 2013) 

Effect of cannabinoid CB2 receptor agonism on learning and memory in a mouse model of photothrombosis (abst – 2013) 
http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1097.4?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

Effects of the cannabinoid 2 receptor-selective agonist GW405833 in assays of acute pain-stimulated and paindepressed behavior in rats (abst – 2013) 
http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/886.9?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

β-Caryophyllene ameliorates cisplatin-induced nephrotoxicity in a cannabinoid 2 receptor-dependent manner (abst – 2013) 
http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/704.3?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

Inflammatory signaling as a therapeutic target for the treatment of breast cancer-induced bone pain. (abst – 2013) 
http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/887.10?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

The omega and omega-1 monohydroxyl metabolites of the abused K2/Spice synthetic cannabinoids JWH-018 and JWH-073 bind with high affinity and act as agonists at human cannabinoid 2 receptors (hCB2s) (abst – 2013) 
http://www.fasebj.org/cgi/content/meeting_abstract/26/1_MeetingAbstracts/660.8?sid=eea722c0-971c-4daa-8b8c-38c0c63c19ad

Association Between a Polymorphism in Cannabinoid Receptor 2 and Severe Necroinflammation in Patients With Chronic Hepatitis C. (abst – 2013) 

Cannabinoid CB2 receptor activation attenuates cytokine-evoked mucosal damage in a human colonic explant model without changing epithelial permeability. (abst – 2013) 

Activation of Cannabinoid Type 2 Receptor by JWH133 Protects Heart Against Ischemia/Reperfusion-Induced Apoptosis. (abst – 2013) 

Modulation of anxiety-like behaviour by the endocannabinoid 2-arachidonoylglycerol (2-AG) in the dorsolateral periaqueductal gray. (abst – 2013) 

Blockade of cannabinoid receptors reduces inflammation, leukocyte accumulation and neovascularization in a model of sponge-induced inflammatory angiogenesis. (abst – 2013) 

Müller cells express the cannabinoid CB2 receptor in the vervet monkey retina. (abst – 2013) 


Cannabinoid receptor modulation of the endothelial cell inflammatory response (abst – 2013)  [http://www.jimmunol.org/cgi/content/meeting_abstract/190/1_MeetingAbstracts/112.29?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf](http://www.jimmunol.org/cgi/content/meeting_abstract/190/1_MeetingAbstracts/112.29?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf)

Cannabinoid CB2 receptors as novel target for inhibiting house dust mite induced allergic airway inflammation (abst – 2013)  [http://www.jimmunol.org/cgi/content/meeting_abstract/190/1_MeetingAbstracts/120.12?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf](http://www.jimmunol.org/cgi/content/meeting_abstract/190/1_MeetingAbstracts/120.12?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf)


Study: cannabis compound might have use as an HIV drug (news – 2013) http://www.wired.co.uk/news/archive/2013-05/1/cannabis-hiv-drug


Compounds That Stimulate The Cannabinoid Type 2 Receptor In White Blood Cells Can Weaken HIV-1 Infection (news – 2013)

CBR–GPR-18 - activated by Abnormal CBD, N-arachidonoylglycine, O-1602, THC, Anandamide

N-arachidonoyl glycine, an abundant endogenous lipid, potently drives directed cellular migration through GPR18, the putative abnormal cannabidiol receptor (full – 2010)
http://www.biomedcentral.com/1471-2202/11/44

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/


siRNA knockdown of GPR18 receptors in BV-2 microglia attenuates N-arachidonoyl glycine-induced cell migration (full – 2012)
http://www.jmolecularsignaling.com/content/7/1/10

So what do we call GPR18 now? (full – 2012)

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

A GPR18-based signaling system regulates IOP in murine eye. (abst – 2013)

Mechanism of Central Atypical Cannabinoid Receptor GPR18-Mediated Hypotension in Conscious Rats (abst – 2013)
http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/654.15?sid=eea722c0-971c-4d9a-8b8c-38c0c63c19ad

Role of Central Atypical Cannabinoid Receptor GPR18 in Modulating Cardiovascular Function (abst – 2013)
http://www.fasebj.org/cgi/content/meeting_abstract/26/1_MeetingAbstracts/663.10?sid=eea722c0-971c-4d9a-8b8c-38c0c63c19ad

Cannabinoid receptor modulation of the endothelial cell inflammatory response (abst – 2013)
http://www.jimmunol.org/cgi/content/meeting_abstract/190/1_MeetingAbstracts/112.29?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf
CBR – GPR-40 CANNABINOID RECEPTOR - activated by GW1100, TAK-875

The Ffa Receptor Gpr40 Links Hyperinsulinemia, Hepatic Steatosis, and Impaired Glucose Homeostasis in Mouse.   (abst – 2005)  

Gpr40 Gene Expression in Human Pancreas and Insulinoma.   (abst – 2005)  

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

Expression of the Gene for a Membrane-bound Fatty Acid Receptor in the Pancreas and Islet Cell Tumours in Humans: Evidence for Gpr40 Expression in Pancreatic Beta Cells and Implications for Insulin Secretion.   (abst – 2006)  

Selective small-molecule agonists of G protein-coupled receptor 40 promote glucose-dependent insulin secretion and reduce blood glucose in mice.   (full – 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2494688/?tool=pubmed

Overexpression of GPR40 in pancreatic beta-cells augments glucose-stimulated insulin secretion and improves glucose tolerance in normal and diabetic mice.   (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2671040/?tool=pubmed

Acute administration of GPR40 receptor agonist potentiates glucose-stimulated insulin secretion in vivo in the rat.   (abst – 2009)  

International Union of Basic and Clinical Pharmacology. LXXIX. Cannabinoid Receptors and Their Ligands: Beyond CB1 and CB2   (full – 2010)  
http://pharmrev.aspetjournals.org/content/62/4/588.full.pdf+html

TAK-875, an orally available G protein-coupled receptor 40/free fatty acid receptor 1 agonist, enhances glucose-dependent insulin secretion and improves both postprandial and fasting hyperglycemia in type 2 diabetic rats.   (abst – 2011)  

A Multiple-Ascending-Dose Study to Evaluate Safety, Pharmacokinetics, and Pharmacodynamics of a Novel GPR40 Agonist, TAK-875, in Subjects With Type 2 Diabetes.   (abst – 2012)  
Optimization of (2,3-dihydro-1-benzofuran-3-yl)acetic acids: discovery of a non-free fatty acid-like, highly bioavailable G protein-coupled receptor 40/free fatty acid receptor 1 agonist as a glucose-dependent insulinotropic agent. (abst – 2012)

TAK-875 versus placebo or glimepiride in type 2 diabetes mellitus: a phase 2, randomised, double-blind, placebo-controlled trial. (abst – 2012)

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

Cannabinoid Receptor Ligands (full - undated)
http://www.tocris.com/pdfs/cannabinoid_receptor_review/page_001.html


GPR55: a new member of the cannabinoid receptor clan? (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2095104/?tool=pubmed

The orphan receptor GPR55 is a novel cannabinoid receptor. (full – 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2095107/?tool=pubmed

GPR55 and the vascular receptors for cannabinoids. (full – 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190021/?tool=pubmed

The novel endocannabinoid receptor GPR55 is activated by atypical cannabinoids but does not mediate their vasodilator effects. (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190033/?tool=pubmed

GPR55 and the vascular receptors for cannabinoids. (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190021/?tool=pubmed

GPR55 is a novel cannabinoid receptor (full - 2007)
http://www.biomedcentral.com/1471-2210/7/S2/A3

Novel cannabinoid receptors (full - 2007)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2190013/?tool=pmcentrez

GPR55: signaling pathways and functions (abst - 2007)
http://www.biomedcentral.com/1471-2210/9/S2/A3
GPR55 is a cannabinoid receptor that increases intracellular calcium and inhibits M current  (full - 2008)  [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2268199/?tool=pubmed]

Interactions of the G protein-coupled receptor-associated sorting proteins (GASP) 1 and 2 with the novel cannabinoid receptor GPR55  (abst – 2008)  [http://www.biomedcentral.com/1471-2210/8/S1/A16]

The putative cannabinoid receptor GPR55 affects osteoclast function in vitro and bone mass in vivo  (full - 2009)  [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2737440/?tool=pubmed]


Endocannabinoid-mediated control of synaptic transmission.  (full – 2009)  [http://physrev.physiology.org/content/89/1/309.long]

The GPR55 ligand L-alpha-lysophosphatidylinositol promotes RhoA-dependent Ca2+ signaling and NFAT activation.  (full – 2009)  [http://www.fasebj.org/content/23/1/183.long]

Atypical responsiveness of the orphan receptor GPR55 to cannabinoid ligands.  (full - 2009)  [http://www.ibc.org/content/284/43/29817.full?sid=ec54c280-2526-4d1b-ab9f-73a1ca683a5e]


GPR55 ligands promote receptor coupling to multiple signalling pathways.  (full – 2010)  [http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931561/?tool=pubmed]


Cannabinoids and the gut: new developments and emerging concepts (abst - 2010)

A role for L-alpha-lysophosphatidylinositol and GPR55 in the modulation of migration, orientation and polarization of human breast cancer cells. (abst - 2010)

Cannabinoids and Bone: Friend or Foe? (abst - 2010)

Endocannabinoid-like N-arachidonoyl serine is a novel pro-angiogenic mediator. (abst – 2010)

Pharmacology of GPR55 in yeast and identification of GSK494581A as a mixed-activity glycine transporter subtype 1 inhibitor and GPR55 agonist. (full – 2011)
http://jpet.aspetjournals.org/content/337/1/236.long

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

Screening for Selective Ligands for GPR55. (full – 2011)
http://www.ncbi.nlm.nih.gov/books/NBK66153/

New blood brothers: the GPR55 and CB2 partnership (full – 2011)
http://www.nature.com/cr/journal/vaop/ncurrent/full/cr201177a.html

A role for the putative cannabinoid receptor GPR55 in the islets of Langerhans. (full – 2011) http://joe.endocrinology-journals.org/content/211/2/177.long

A role for L-alpha-lysophosphatidylinositol and GPR55 in the modulation of migration, orientation and polarization of human breast cancer cells. (full – 2011)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2931574/?tool=pubmed


What is the natural ligand of GPR55? (abst – 2011)
http://jb.oxfordjournals.org/content/149/5/495.short?rss=1


GPR55 regulates cannabinoid 2 receptor-mediated responses in human neutrophils. (abst – 2011)
http://www.unboundmedicine.com/medline/ebm/record/21467997/abstract/GPR55_regulates_cannabinoid_2_receptor_mediated_responses_in_human_neutrophils


The novel cannabinoid receptor GPR55, inhibits cholangiocarcinoma growth (abst – 2011) http://www.fasebj.org/cgi/content/meeting_abstract/25/1_MeetingAbstracts/1117.3?


Role of cannabinoids in the regulation of bone remodeling (full – 2012) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3499879/

The L-α-lysophosphatidylinositol/GPR55 system and its potential role in human obesity. (full – 2012) http://diabetes.diabetesjournals.org/content/61/2/281.long

The cannabinoid receptor CB1 modulates the signaling properties of the lysophosphatidylinositol receptor GPR55. (full – 2012) http://www.jbc.org/content/early/2012/11/16/jbc.M112.364109.long
The atypical cannabinoid O-1602 increases hind paw sensitisation in the chronic constriction injury model of neuropathic pain. (abst – 2012)  

The Endocannabinoids Anandamide and Virodhamine Modulate the Activity of the Candidate Cannabinoid Receptor GPR55. (abst – 2012)  

Effects of Palmitoylethanolamide on Aqueous Humor Outflow. (abst – 2012)  

The interaction between intrathecal administration of low doses of palmitoylethanolamide and AM251 in formalin-induced pain related behavior and spinal cord IL1-β expression in rats. (abst – 2012)  

Evidence for the Putative Cannabinoid Receptor (GPR55)-Mediated Inhibitory Effects on Intestinal Contractility in Mice. (abst – 2012)  

GPR55 and GPR35 and their relationship to cannabinoid and lysophospholipid receptors. (abst – 2012)  

A potential role for GPR55 in gastrointestinal functions. (abst – 2012)  

The Endocannabinoids Anandamide and Virodhamine Modulate the Activity of the Candidate Cannabinoid Receptor GPR55 (abst – 2012)  
http://link.springer.com/article/10.1007%2Fs11481-012-9351-6#page-1

A homology modeling study toward the understanding of three-dimensional structure and putative pharmacological profile of the G-protein coupled receptor GPR55. (abst – 2012)  

GPR55, a G-Protein Coupled Receptor for Lysophosphatidylinositol, Plays a Role in Motor Coordination. (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0060314

Cannabinoid- and lysophosphatidylinositol-sensitive receptor GPR55 boosts neurotransmitter release at central synapses. (full – 2013)  
http://www.pnas.org/content/early/2013/03/06/1211204110.full.pdf+html

A role for O-1602 and G protein-coupled receptor GPR55 in the control of colonic motility in mice. (abst – 2013)  


The actions and metabolism of lysophosphatidylinositol, an endogenous agonist for GPR55. (abst – 2013)  
Cannabinoid receptor modulation of the endothelial cell inflammatory response (abst – 2013)
http://www.jimmunol.org/cgi/content/meeting_abstract/190/1_MeetingAbstracts/112.29?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf

Regulation of cell proliferation by GPR55/cannabinoid receptors using (R,R')-4’-methoxy-1-naphthylfenoterol in rat C6 glioma cell line (abst – 2013)
http://www.abstractsonline.com/Plan/ViewAbstract.aspx?sKey=695437a2-7613-4bef-8697-2294df2da859&cKey=18ba6eb0-2c5f-4004-a56f-2d1f450e2ed1&mKey=9b2d28e7-24a0-466f-a3c9-07c21f6e9be9

(R,R’)-4’-methoxy-1-naphthylfenoterol Inhibits GPR55 signaling and the modulation of motility in human cancer cells (abst – 2013)
http://www.abstractsonline.com/Plan/ViewAbstract.aspx?sKey=25370896-7d13-4f15-be76-f664d79b577d&cKey=87b7fee1-45cc-42b7-aca7-48c6b1d42773&mKey=9b2d28e7-24a0-466f-a3c9-07c21f6e9be9

GPR55 and its Interaction with Membrane Lipids: Comparison with Other Endocannabinoid-Binding Receptors (abst – 2013)
http://www.eurekaselect.com/105678/article


**CBR - GPR109 CANNABINOID RECEPTOR**

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

International Union of Basic and Clinical Pharmacology. LXXIX. Cannabinoid Receptors and Their Ligands: Beyond CB1 and CB2 (full – 2010)
http://pharmrev.aspetjournals.org/content/62/4/588.full.pdf+html

**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)  
http://endo.endojournals.org/content/148/6/2601.long

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

Endocannabinoids and nutrition.  (full – 2008)  

GPR119, a novel G protein-coupled receptor target for the treatment of type 2 diabetes and obesity  (full - 2008)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2268073/?tool=pmcentrez

Receptors for acylethanolamides-GPR55 and GPR119.  (full – 2009)  
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751869/?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

N-acylethanolamines, anandamide and food intake.  (abst – 2009)  

International Union of Basic and Clinical Pharmacology. LXXIX. Cannabinoid Receptors and Their Ligands: Beyond CB1 and CB2  (full – 2010)  
http://pharmrev.aspetjournals.org/content/62/4/588.full.pdf+html

N-oleoyldopamine enhances glucose homeostasis through the activation of GPR119.  (full – 2010)  
http://mend.endojournals.org/content/24/1/161.long

GPR119 agonists for the potential treatment of type 2 diabetes and related metabolic disorders.  (abst – 2010)  

Novel GPR119 agonist AS1535907 contributes to first-phase insulin secretion in rat perfused pancreas and diabetic db/db mice.  (abst – 2010)  

AS1907417, a novel GPR119 agonist, as an insulinotropic and β-cell preservative agent for the treatment of type 2 diabetes.  (abst – 2010)  

GPR119 Regulates Murine Glucose Homeostasis Through Incretin Receptor-Dependent and Independent Mechanisms  (full – 2011)  
http://endo.endojournals.org/content/152/2/374.full?sid=c7413b30-1046-4f9c-b028-c46f78f293d9

The cytoprotective effects of oleoylethanolamide in insulin-secreting cells do not require activation of GPR119.  (abst – 2011)  
The cytoprotective effects of oleoylethanolamide in insulin-secreting cells do not require activation of GPR119.  (full - 2012)  

Stimulating beta cell replication and improving islet graft function by GPR119 agonists.  (abst – 2012)  

GPR119 as a fat sensor.  (abst – 2012)  

Cannabinoid receptor modulation of the endothelial cell inflammatory response  
(abst – 2013)  
http://www.jimmunol.org/cgi/content/meeting_abstract/190/1_MeetingAbstracts/112.29?sid=c3422dd2-7ad0-42e4-a862-845dc670f7cf

CBR - GPR158 CANNABINOID RECEPTOR

The presence of aberrant DNA methylation in noncancerous esophageal mucosae in association with smoking history: a target for risk diagnosis and prevention of esophageal cancers.  (full – 2009)  

GPR158/179 regulate G protein signaling by controlling localization and activity of the RGS7 complexes.  (full – 2012)  
http://jcb.rupress.org/content/197/6/711.long

Genome-wide association study of antibody response to smallpox vaccine.  (abst – 2012)  

GPR158, an Orphan Member of G Protein-Coupled Receptor Family C: Glucocorticoid-Stimulated Expression and Novel Nuclear Role  (full – 2013)  
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0057843