The Endocannabinoid System

ENDOCANNABINOIDS*

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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 neuroprotective role of endocannabinoids against chemical-induced injury and other adverse effects. (abst – 2013)  

Cannabinoid Receptors as Therapeutic Targets for Dialysis-Induced Peritoneal Fibrosis. (abst – 2013)  

LiCABEDS II. Modeling of Ligand Selectivity for G-protein Coupled Cannabinoid Receptors. (abst – 2013)  

Activation of the CB(2) receptor system reverses amyloid-induced memory deficiency. (abst – 2013)  

CB(2) receptor and amyloid pathology in frontal cortex of Alzheimer's disease patients. (abst – 2013)  

CB2 Cannabinoid Receptor Agonist Ameliorates Alzheimer-Like Phenotype in AβPP/PS1 Mice. (abst – 2013)  

Evidence for the involvement of cannabinoid receptors' polymorphisms in the pathophysiology of human diseases. (abst – 2013)  

Behavioral Responses to Acute and Sub-chronic Administration of the Synthetic Cannabinoid JWH-018 in Adult Mice Prenatally Exposed to Corticosterone. (abst – 2013)  

Cannabinoid receptor 2 is upregulated in melanoma. (abst – 2013)  

Δ9-tetrahydrocannabinol impairs the inflammatory response to influenza infection: role of antigen-presenting cells and the cannabinoid receptors 1 and 2. (abst – 2013)  


Comparative proteomic and phosphoproteomic profiling of pancreatic adenocarcinoma cells treated with CB1 or CB2 agonists. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23463621


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 phototormbosis   (abst – 2013)
http://www.fasebj.org/cgi/content/meeting_abstract/27/1_MeetingAbstracts/1097.4?sid=eea722c0-971c-4d4aa-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-4d4aa-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-4d4aa-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-4d4aa-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-4d4aa-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

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


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-arachidonoylglycerine, O-1602, THC, Anandamide

N-arachidonoylglycerine, 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-arachidonoylglycerine, 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-arachidonoylglycerine-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-arachidonoylglycerine are full agonists at GPR18 receptors and induce migration in human endometrial HEC-1B cells (full – 2012)


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-4dab-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-4dab-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-a682-845dc670f7c
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-lysophosphatidylinositol (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


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)


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 the putative cannabinoid receptor GPR55 in the islets of Langerhans. (full – 2011) http://joe.endocrinology-journals.org/content/211/2/177.long


What is the natural ligand of GPR55? (abst – 2011) http://jb.oxfordjournals.org/content/149/5/495.short?rss=1


The novel cannabinoid receptor GPR55, inhibits cholangiocarcinoma growth (abst – 2011) http://www.fasebj.org/cgi/content/meeting_abstract/25/1_MeetingAbstracts/1117.3?maxtoshow=&hits=80 &RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=80&sortspec=date&resourcetype=HWCTT


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 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


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


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


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-a7a7-48c6b1d42773&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

Orphan G protein receptor GPR55 as an emerging target in cancer therapy and management.  
(abst – 2013)  

**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

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


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


N-oleoyldopamine enhances glucose homeostasis through the activation of GPR119. (full – 2010) http://mend.endojournals.org/content/24/1/161.long


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. (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