Granny Storm Crow's List - January 2014

THE SYNTHETICS

ABN-CBD/ ABNORMAL CANNABIDIOL/ CAY10429* - GPR-18 agonist? GPR-55 agonist?

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Effects of cannabinoid receptor type 2 on endogenous myocardial regeneration by activating cardiac progenitor cells in mouse infarcted heart. (link to PDF – 2014)
http://life.scichina.com:8082/sciCe/EN/abstract/abstract513395.shtml#

AM-1346 - CB1 agonist

Synthetic Cannabinoid May Aid Fertility In Smokers (news - 2006)
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Marijuana-like Chemical Can Restore Sperm Function Lost to Tobacco Abuse (news - 2006) http://www.rxpgnews.com/specialtopics/article_5093.shtml

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Discriminative stimulus functions in rats of AM1346, a high-affinity CB1R selective anandamide analog. (full – 2008)
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Scientist Discovers New Molecule to Treat Chronic Pain (news - 2008)
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AM-1710 – CB2 agonist

Species comparison and pharmacological characterization of rat and human CB2 cannabinoid receptors. (abst - 2004) http://www.ncbi.nlm.nih.gov/pubmed/15556131

Cannabilactones: a novel class of CB2 selective agonists with peripheral analgesic activity. (abst – 2007) http://www.ncbi.nlm.nih.gov/pubmed/18038967

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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

Intrathecal cannabilactone CB(2)R agonist, AM1710, controls pathological pain and restores basal cytokine levels. (full– 2012)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3603341/

AM-2201 – CB1 agonist

Analysis of 30 synthetic cannabinoids in serum by liquid chromatography-electrospray ionization tandem mass spectrometry after liquid-liquid extraction (abst – 2012)
http://onlinelibrary.wiley.com/doi/10.1002/jms.3020/abstract

First European case of convulsions related to analytically confirmed use of the synthetic cannabinoid receptor agonist AM-2201. (abst – 2012)
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Identification and Structural Elucidation of Four Cannabimimetic Compounds (RCS-4, AM-2201, JWH-203 and JWH-210) in Seized Products. (abst – 2013)
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Driving under the influence of synthetic cannabinoids ("Spice"): a case series. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23636569

Validation of a Novel Immunoassay for the Detection of Synthetic Cannabinoids and Metabolites in Urine Specimens. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23625703

K2 Toxicity: Fatal Case of Psychiatric Complications Following AM2201 Exposure. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23822805

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Detection of Synthetic Cannabinoids in Oral Fluid Using ELISA and LC-MS-MS. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23946452

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AM -2233 – CB1 agonist

F200A substitution in the third transmembrane helix of human cannabinoid CB1 receptor converts AM2233 from receptor agonist to inverse agonist. (abst – 2006)
http://www.ncbi.nlm.nih.gov/pubmed/16438957

Evaluation of the in vivo receptor occupancy for the behavioral effects of cannabinoids using a radiolabeled cannabinoid receptor agonist, R-[125/131I]AM2233.
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Another nail in coffin of synthetic cannabis (news – 2011)
http://tvnz.co.nz/national-news/another-nail-in-coffin-synthetic-cannabis-4666168?ref=rss

Characteristics of the designer drug and synthetic cannabinoid receptor agonist AM-2201 regarding its chemistry and metabolism. (abst – 2013)
http://www.ncbi.nlm.nih.gov/pubmed/23832945

AM-3506 – blocks the break-down of Anandamide

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/

Sulfonyl fluoride inhibitors of Fatty Acid amide hydrolase. (abst – 2012)
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Convergent translational evidence of a role for anandamide in amygdala-mediated fear extinction, threat processing and stress-reactivity (abst – 2012)
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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)
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Role of endogenous cannabinoid system in the gut. (full - 2013)
http://www.actaps.com.cn/qikan/manage/wenzhang/2013-4-12.pdf

AM- 4054 - CB1 agonist

Behavioral Profile of the Novel Cannabinoid Agonist AM4054 (thesis - 2006)
http://digitalcommons.uconn.edu/cgi/viewcontent.cgi?article=1016&context=srhonors_theses&sei-redir=1#search=%22am-4054%20%2Bcannabinoid%22

Effects of a Selective Cannabinoid Agonist and Antagonist on Body Temperature in Rats (abst - 2007)
http://www.fasebj.org/cgi/content/meeting_abstract/21/5/A409?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourcetype=HWCIT

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Diuretic effects of cannabinoid agonists in mice. (abst – 2013)
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Effects of a novel CB1 agonist on visual attention in male rats: Role of strategy and expectancy in task accuracy. (abst – 2013)
http://www.ncbi.nlm.nih.gov/pubmed/24099361

AM- 4113 – CB1 antagonist

Effects of a Selective Cannabinoid Agonist and Antagonist on Body Temperature in Rats (abst - 2007)
http://www.fasebj.org/cgi/content/meeting_abstract/21/5/A409?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=cannabinoid&searchid=1&FIRSTINDEX=800&resourcetype=HWCIT

The neutral cannabinoid CB_1 receptor antagonist AM4113 regulates body weight through changes in energy intake in the rat. (abst – 2011)
http://www.ncbi.nlm.nih.gov/pubmed/21056053

The CB(1) Receptor-Mediated Endocannabinoid Signaling and NGF: The Novel Targets of Curcumin. (turmeric) (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22311129

AM- 6545 – peripherally restricted CB1 antagonist, no "high"

Rehashing endocannabinoid antagonists: can we selectively target the periphery to safely treat obesity and type 2 diabetes? (full – 2010)
http://www.jci.org/articles/view/44099?search[abstract_text]=&search[article_text]=cannabinoid&search[authors_text]=&search[fpage]=&search[title_text]=&search[volume]=

A novel peripherally restricted cannabinoid receptor antagonist, AM6545, reduces food intake and body weight, but does not cause malaise, in rodents (full – 2010)
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2990160/

The novel cannabinoid CB1 antagonist AM6545 suppresses food intake and food-reinforced behavior. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3522179/

Peripheral CB1 cannabinoid receptor blockade improves cardiometabolic risk in mouse models of obesity. (full – 2010) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2912197/

Peripherally restricted CB1 receptor blockers. (abst – 2013)
http://www.ncbi.nlm.nih.gov/pubmed/23902803

AM- 6546 – CB1 antagonist

Endocannabinoid signaling in the gut mediates preference for dietary unsaturated fats. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23463697

AM- 6701 – equally blocks the break-down of 2-AG and anandamide

Equipotent Inhibition of Fatty Acid Amide Hydrolase and Monoacylglycerol Lipase - Dual Targets of the Endocannabinoid System to Protect against Seizure Pathology. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22270809

AM- 6702 - strongly blocks the break-down of anandamide, and, weakly, 2-AG

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AS- 1535907 - GPR119 agonist

The role of small molecule GPR119 agonist, AS1535907, in glucose-stimulated insulin secretion and pancreatic β-cell function (abst – 2010) http://www.ncbi.nlm.nih.gov/pubmed/21114601

Novel GPR119 agonist AS1535907 contributes to first-phase insulin secretion in rat perfused pancreas and diabetic db/db mice. (abst – 2010) http://www.ncbi.nlm.nih.gov/pubmed/20937249

AS- 1907417 - GPR119 agonist

AS1907417, a novel GPR119 agonist, as an insulinotropic and β-cell preservative agent for the treatment of type 2 diabetes. (abst – 2010) http://www.ncbi.nlm.nih.gov/pubmed/20816753

CANNABINOR - CB2 agonist

Pharmos Initiates Phase I Trial of CB2-Selective Drug Candidate Cannabinor (news – 2005) http://www.prnewswire.com/news-releases/pharmos-initiates-phase-i-trial-of-cb2-selective-drug-candidate-cannabinor-54718747.html

Cannabinoid Receptor Agonist Significantly Reduces Post-Operative Pain, Study Says (news – 2007) http://norml.org/index.cfm?Group_ID=7246

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Cannabinor, a selective cannabinoid-2 receptor agonist, improves bladder emptying in rats with partial urethral obstruction. (full – 2010) http://www.jurology.com/article/S0022-5347%2810%2904713-0/fulltext

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3-Carboxamido-5-aryl-isoxazoles as new CB2 agonists for the treatment of colitis. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23849204

CB – 65 - CB 2 agonist

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Evaluation of Anti-invasion Effect of Cannabinoids on Human Hepatocarcinoma Cells. (abst – 2012) http://www.ncbi.nlm.nih.gov/pubmed/22978792

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Role of cannabinoid and vanilloid receptors in invasion of human breast carcinoma cells (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23394450

CESAMET – see NABILONE

COMPOUND A - CB1/2 agonist that is excluded from the brain

An Effective Prodrug Strategy to Selectively Enhance Ocular Exposure of a Cannabinoid Receptor (CB1/2) Agonist. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/23738526

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Cannabimimetic activity from CP-47,497, a derivative of 3-phenylcyclohexanol (abst - 1982)
http://jpet.aspetjournals.org/content/223/2/516.abstract?maxtoshow=&hits=80&RESULTFORMAT=&fulltext=Hexahydrocannabinol&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT

The Conformational Properties of the Highly Selective Cannabinoid Receptor Ligand CP-55,940 (full - 1996)
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Now, There's a Test for That -- Norchem's "Fake Marijuana" Test Reveals Significantly Increased Abuse of Spice/K2 (news - 2010)
http://www.marketwire.com/press-release/Now-Theres-Test-That-Norchems-Fake-Marijuana-Test-Reveals-Significantly-Increased-Abuse-1356247.htm

College students and use of K2: an emerging drug of abuse in young persons (full – 2011) http://www.substanceabusepolicy.com/content/6/1/16

Marijuana-based Drugs: Innovative Therapeutics or Designer Drugs of Abuse? (full – 2011) http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3139381/?tool=pubmed

Beyond THC: The New Generation of Cannabinoid Designer Drugs. (full – 2011)
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http://pubs.acs.org/doi/full/10.1021/ac900564u

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A method for CP 47, 497 a synthetic non-traditional cannabinoid in human urine using liquid chromatography tandem mass spectrometry. (abst – 2011)
http://www.ncbi.nlm.nih.gov/pubmed/21233028

Synthetic cannabinoids in oral fluid. (abst – 2011)
http://www.ncbi.nlm.nih.gov/pubmed/21871150

Cytotoxicity of synthetic cannabinoids found in "Spice" products: The role of cannabinoid receptors and the caspase cascade in the NG 108-15 cell line. (abst – 2011) http://www.ncbi.nlm.nih.gov/pubmed/21907772

Use of high-resolution accurate mass spectrometry to detect reported and previously unreported cannabinomimetics in "herbal high" products. (abst – 2011)
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Getting up to speed with the public health and regulatory challenges posed by new psychoactive substances in the information age (editorial – 2013)
http://onlinelibrary.wiley.com/doi/10.1111/add.12287/full

Synthetic Cannabinoids -The Challenges of Testing for Designer Drugs (article – 2013) (funky link- delete the "sign in", and it comes up)
http://www.aacc.org/publications/cln/2013/february/Pages/Cannabinoids.aspx?PassThru=ok&PersonID=206339#

The K2/Spice Phenomenon: emergence, identification, legislation and metabolic characterization of synthetic cannabinoids in herbal incense products. (abst – 2013)
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Cytotoxicity of synthetic cannabinoids on primary neuronal cells of the forebrain: the involvement of cannabinoid CB1 receptors and apoptotic cell death. (abst – 2013)

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Simultaneous quantification of 20 synthetic cannabinoids and 21 metabolites, and semi-quantification of 12 alkyl hydroxy metabolites in human urine by liquid chromatography-tandem mass spectrometry. (abst – 2013) http://www.ncbi.nlm.nih.gov/pubmed/24418231

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Clinical experience with levonantradol hydrochloride in the prevention of cancer chemotherapy-induced nausea and vomiting. (abst – 1981)
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http://www.ncbi.nlm.nih.gov/pubmed/6754212

Levonantradol, a new antiemetic with a high rate of side-effects for the prevention of nausea and vomiting in patients receiving cancer chemotherapy. (abst – 1982)
http://www.ncbi.nlm.nih.gov/pubmed/7139853

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