

926 PubMed Cannabidiol Studies

1.

[Effects of intracisternal administration of **cannabidiol** on the cardiovascular and behavioral responses to acute restraint stress.](#)

Granjeiro EM, Gomes FV, Guimarães FS, Corrêa FM, Resstel LB.

Pharmacol Biochem Behav. 2011 Jul 12. [Epub ahead of print]

PMID:

21771609

[PubMed - as supplied by publisher]

[Related citations](#)



2.

[Nonpsychotropic Cannabinoids, Abnormal **Cannabidiol** and Canabigerol-Dimethyl Heptyl, Act at Novel Cannabinoid Receptors to Reduce Intraocular Pressure.](#)

Szczesniak AM, Maor Y, Robertson H, Hung O, Kelly ME.

J Ocul Pharmacol Ther. 2011 Jul 19. [Epub ahead of print]

PMID:

21770780

[PubMed - as supplied by publisher]

[Related citations](#)



3.

[Cannabinoids in oral fluid following passive exposure to marijuana smoke.](#)

Moore C, Coulter C, Uges D, Tuyay J, van der Linde S, van Leeuwen A, Garnier M, Orbita J Jr.

Forensic Sci Int. 2011 Jul 13. [Epub ahead of print]

PMID:

21763088

[PubMed - as supplied by publisher]

[Related citations](#)



4.

[Taming THC: potential cannabis synergy and phytocannabinoid-terpenoid entourage effects.](#)

Russo EB.

Br J Pharmacol. 2011 Aug;163(7):1344-64. doi: 10.1111/j.1476-5381.2011.01238.x.

PMID:

21749363

[PubMed - in process]

[Related citations](#)



5.

[Cannabinoids mediate opposing effects on inflammation-induced intestinal permeability.](#)

Alhamoruni A, Wright KL, Larvin M, O'Sullivan SE.

Br J Pharmacol. 2011 Jul 11. doi: 10.1111/j.1476-5381.2011.01589.x. [Epub ahead of print]

PMID:

21745190

[PubMed - as supplied by publisher]

[Related citations](#)



6.

[Cannabidiol Prevents the Development of Cold and Mechanical Allodynia in Paclitaxel-Treated Female C57Bl6 Mice.](#)

Ward SJ, Ramirez MD, Neelakantan H, Walker EA.

Anesth Analg. 2011 Jul 7. [Epub ahead of print]

PMID:

21737705

[PubMed - as supplied by publisher]

[Related citations](#)



7.

[Direct quantification of cannabinoids and cannabinoid glucuronides in whole blood by liquid chromatography-tandem mass spectrometry.](#)

Schwope DM, Scheidweiler KB, Huestis MA.

Anal Bioanal Chem. 2011 Jul 5. [Epub ahead of print]

PMID:

21727996

[PubMed - as supplied by publisher]

[Related citations](#)



8.

[Cannabinoid actions at TRPV channels: effects on TRPV3 and TRPV4 and their potential relevance to gastrointestinal inflammation.](#)

De Petrocellis L, Orlando P, Moriello AS, Aviello G, Stott C, Izzo A, Di Marzo V.

Acta Physiol (Oxf). 2011 Jul 4. doi: 10.1111/j.1748-1716.2011.02338.x. [Epub ahead of print]

PMID:

21726418

[PubMed - as supplied by publisher]

[Related citations](#)



9.

[A novel CB receptor GPR55 and its ligands are involved in regulation of gut movement in rodents.](#)

Lin XH, Yuece B, Li YY, Feng YJ, Feng JY, Yu LY, Li K, Li YN, Storr M.

Neurogastroenterol Motil. 2011 Jul 5. doi: 10.1111/j.1365-2982.2011.01742.x. [Epub ahead of print]

PMID:

21726355

[PubMed - as supplied by publisher]

[Related citations](#)



10.

[Identification of cytochrome P450 enzymes responsible for metabolism of **cannabidiol** by human liver microsomes.](#)

Jiang R, Yamaori S, Takeda S, Yamamoto I, Watanabe K.

Life Sci. 2011 Aug 1;89(5-6):165-70. Epub 2011 Jun 16.

PMID:

21704641

[PubMed - in process]

[Related citations](#)



11.

[The endocannabinoid system in the regulation of emotions throughout lifespan: a discussion on therapeutic perspectives.](#)

Marco EM, Laviola G.

J Psychopharmacol. 2011 Jun 27. [Epub ahead of print]

PMID:

21693551

[PubMed - as supplied by publisher]

[Related citations](#)



12.

[The abnormal **cannabidiol** analogue O-1602 reduces nociception in a rat model of acute arthritis via the putative cannabinoid receptor GPR55.](#)

Schuelert N, McDougall JJ.

Neurosci Lett. 2011 Aug 1;500(1):72-6. Epub 2011 Jun 13.

PMID:

21683763

[PubMed - in process]

[Related citations](#)



13.

[Screening and quantitation of multiclass drugs of abuse and pharmaceuticals in hair by fast liquid chromatography electrospray time-of-flight mass spectrometry.](#)

Domínguez-Romero JC, García-Reyes JF, Molina-Díaz A.

J Chromatogr B Analyt Technol Biomed Life Sci. 2011 Jul 15;879(22):2034-42. Epub 2011 May 30.

PMID:

21680266

[PubMed - in process]

[Related citations](#)



14.

[Oral Fluid Cannabinoids in Chronic, Daily Cannabis Smokers During Sustained, Monitored Abstinence.](#)

Lee D, Milman G, Barnes AJ, Goodwin RS, Hirvonen J, Huestis MA.

Clin Chem. 2011 Jun 15. [Epub ahead of print]

PMID:

21677094

[PubMed - as supplied by publisher]

[Related citations](#)



15.

[Neuroprotective effects of phytocannabinoid-based medicines in experimental models of Huntington's disease.](#)

Sagredo O, Pazos MR, Satta V, Ramos JA, Pertwee RG, Fernández-Ruiz J.

J Neurosci Res. 2011 Sep;89(9):1509-18. doi: 10.1002/jnr.22682. Epub 2011 Jun 14.

PMID:

21674569

[PubMed - in process]

[Related citations](#)



16.

[Modulation of auditory and visual processing by delta-9-tetrahydrocannabinol and **cannabidiol**: an FMRI study.](#)

Winton-Brown TT, Allen P, Bhattacharya S, Borgwardt SJ, Fusar-Poli P, Crippa JA, Seal ML, Martin-Santos R, Ffytche D, Zuardi AW, Atakan Z, McGuire PK.

Neuropsychopharmacology. 2011 Jul;36(8):1778. doi: 10.1038/npp.2011.58. No abstract available.

PMID:

21673712

[PubMed - in process]

[Related citations](#)



17.

[A randomized, double-blind, placebo-controlled, crossover study to evaluate the subjective abuse potential and cognitive effects of nabiximols oromucosal spray in subjects with a history of recreational cannabis use.](#)

Schoedel KA, Chen N, Hilliard A, White L, Stott C, Russo E, Wright S, Guy G, Romach MK, Sellers EM.

Hum Psychopharmacol. 2011 Jun 13. doi: 10.1002/hup.1196. [Epub ahead of print]

PMID:

21671456

[PubMed - as supplied by publisher]

[Related citations](#)



18.

[Cannabidiol potentiates \$\Delta\(9\)\$ -tetrahydrocannabinol \(THC\) behavioural effects and alters THC pharmacokinetics during acute and chronic treatment in adolescent rats.](#)

Klein C, Karanges E, Spiro A, Wong A, Spencer J, Huynh T, Gunasekaran N, Karl T, Long LE, Huang XF, Liu K, Arnold JC, McGregor IS.

Psychopharmacology (Berl). 2011 Jun 11. [Epub ahead of print]

PMID:

21667074

[PubMed - as supplied by publisher]

[Related citations](#)



19.

[Cannabidiol causes activated hepatic stellate cell death through a mechanism of endoplasmic reticulum stress-induced apoptosis.](#)

Lim MP, Devi LA, Rozenfeld R.

Cell Death Dis. 2011 Jun 9;2:e170. doi: 10.1038/cddis.2011.52.

PMID:

21654828

[PubMed - in process]

[Related citations](#)



20.

[Cannabidiol reduces brain damage and improves functional recovery after acute hypoxia-ischemia in newborn pigs.](#)

Lafuente H, Alvarez FJ, Pazos MR, Alvarez A, Rey-Santano MC, Mielgo V, Murgia-Esteve X, Hilario E, Martinez-Orgado J.

Pediatr Res. 2011 Jun 7. [Epub ahead of print]

PMID:

21654550

[PubMed - as supplied by publisher]

[Related citations](#)

[The role of phytochemicals in the treatment and prevention of dementia.](#)

Howes MJ, Perry E.

Drugs Aging. 2011 Jun 1;28(6):439-68. doi: 10.2165/11591310-000000000-00000.

PMID:

21639405

[PubMed - in process]

[Related citations](#)



22.

[Cannabinoids and metabolites in expectorated oral fluid after 8 days of controlled around-the-clock oral THC administration.](#)

Milman G, Barnes AJ, Schwoppe DM, Schwilke EW, Goodwin RS, Kelly DL, Gorelick DA, Huestis MA.

Anal Bioanal Chem. 2011 Aug;401(2):599-607. Epub 2011 Jun 3.

PMID:

21637933

[PubMed - in process]

[Related citations](#)



23.

[Analysis of abuse drugs in urine using surfactant-assisted dispersive liquid-liquid microextraction.](#)

Moradi M, Yamini Y, Baheri T.

J Sep Sci. 2011 Jul;34(14):1722-9. doi: 10.1002/jssc.201100132. Epub 2011 May 24.

PMID:

21608128

[PubMed - in process]

[Related citations](#)



24.

[Cannabis with high **cannabidiol** content is associated with fewer psychotic experiences.](#)

Schubart CD, Sommer IE, van Gastel WA, Goetgebuer RL, Kahn RS, Boks MP.

Schizophr Res. 2011 Aug;130(1-3):216-21. Epub 2011 May 17.

PMID:

21592732

[PubMed - in process]

[Related citations](#)



25.

[Erratum to: The effect of **cannabidiol** and URB597 on conditioned gaping \(a model of nausea\) elicited by a lithium-paired context in the rat.](#)

Rock EM, Limebeer CL, Mechoulam R, Piomelli D, Parker LA.

Psychopharmacology (Berl). 2011 Jul;216(1):149. No abstract available.

PMID:

21584723

[PubMed - in process]

[Related citations](#)



26.

[Cannabidiol Induces Programmed Cell Death in Breast Cancer Cells by Coordinating the Cross-talk between Apoptosis and Autophagy.](#)

Shrivastava A, Kuzontkoski PM, Groopman JE, Prasad A.

Mol Cancer Ther. 2011 Jul;10(7):1161-72. Epub 2011 May 12.

PMID:

21566064

[PubMed - in process]

[Related citations](#)



27.

[Prospects for cannabinoid therapies in basal ganglia disorders.](#)

Fernández-Ruiz J, Moreno-Martet M, Rodríguez-Cueto C, Palomo-Garo C, Gómez-Cañas M, Valdeolivas S, Guaza C, Romero J, Guzmán M, Mechoulam R, Ramos JA.

Br J Pharmacol. 2011 Aug;163(7):1365-1378. doi: 10.1111/j.1476-5381.2011.01365.x.

PMID:

21545415

[PubMed - as supplied by publisher]

[Related citations](#)



28.

[Differential transcriptional profiles mediated by exposure to the cannabinoids **cannabidiol** and \$\Delta\(9\)\$ -tetrahydrocannabinol in BV-2 microglial cells.](#)

Juknat A, Pietr M, Kozela E, Rimmerman N, Levy R, Coppola G, Geschwind D, Vogel Z.

Br J Pharmacol. 2011 May 4. doi: 10.1111/j.1476-5381.2011.01461.x. [Epub ahead of print]

PMID:

21542829

[PubMed - as supplied by publisher]

[Related citations](#)



29.

[Abuse potential and psychoactive effects of \$\delta\$ -9-tetrahydrocannabinol and **cannabidiol** oromucosal spray \(Sativex\), a new cannabinoid medicine.](#)

Robson P.

Expert Opin Drug Saf. 2011 May 4. [Epub ahead of print]

PMID:

21542664

[PubMed - as supplied by publisher]

[Related citations](#)



30.

[The Non-Psychoactive Plant Cannabinoid, **Cannabidiol** Affects Cholesterol Metabolism-Related Genes in Microglial Cells.](#)

Rimmerman N, Juknat A, Kozela E, Levy R, Bradshaw HB, Vogel Z.

Cell Mol Neurobiol. 2011 Apr 30. [Epub ahead of print]

PMID:

21533611

[PubMed - as supplied by publisher]

[Related citations](#)



31.

[Evaluation of the cyclooxygenase inhibiting effects of six major cannabinoids isolated from Cannabis sativa.](#)

Ruhaak LR, Felth J, Karlsson PC, Rafter JJ, Verpoorte R, Bohlin L.

Biol Pharm Bull. 2011;34(5):774-8.

PMID:

21532172

[PubMed - in process]

[Free Article](#)

[Related citations](#)



32.

[Association between a cannabinoid receptor gene \(CNR1\) polymorphism and cannabinoid-induced alterations of the auditory event-related P300 potential.](#)

Stadelmann AM, Juckel G, Arning L, Gallinat J, Epplen JT, Roser P.

Neurosci Lett. 2011 May 27;496(1):60-4. Epub 2011 Apr 12.

PMID:

21513772

[PubMed - in process]

[Related citations](#)



33.

[A synthetic cannabinoid, CP55940, inhibits lipopolysaccharide-induced cytokine mRNA expression in a cannabinoid receptor-independent mechanism in rat cerebellar granule cells.](#)

Chiba T, Ueno S, Obara Y, Nakahata N.

J Pharm Pharmacol. 2011 May;63(5):636-47. doi: 10.1111/j.2042-7158.2011.01250.x. Epub 2011 Mar 28.

PMID:

21492165

[PubMed - in process]

[Related citations](#)



34.

[Cannabinoids and endocannabinoids in metabolic disorders with focus on diabetes.](#)

Di Marzo V, Piscitelli F, Mechoulam R.

Handb Exp Pharmacol. 2011;(203):75-104. Review.

PMID:

21484568

[PubMed - indexed for MEDLINE]

[Related citations](#)



35.

[Role of myeloid-derived suppressor cells in amelioration of experimental autoimmune hepatitis following activation of TRPV1 receptors by cannabidiol.](#)

Hegde VL, Nagarkatti PS, Nagarkatti M.

PLoS One. 2011 Apr 1;6(4):e18281.

PMID:

21483776

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



36.

[Psychotropic and nonpsychotropic cannabis derivatives inhibit human 5-HT\(3A\) receptors through a receptor desensitization-dependent mechanism.](#)

Xiong W, Koo BN, Morton R, Zhang L.

Neuroscience. 2011 Jun 16;184:28-37. Epub 2011 Apr 6.

PMID:

21477640

[PubMed - in process]

[Related citations](#)



37.

[Effect of **cannabidiol** in a MK-801-rodent model of aspects of Schizophrenia.](#)

Gururajan A, Taylor DA, Malone DT.

Behav Brain Res. 2011 Sep 23;222(2):299-308. Epub 2011 Mar 31.

PMID:

21458498

[PubMed - in process]

[Related citations](#)



38.

[THC and CBD oromucosal spray \(Sativex®\) in the management of spasticity associated with multiple sclerosis.](#)

Sastre-Garriga J, Vila C, Clissold S, Montalban X.

Expert Rev Neurother. 2011 May;11(5):627-37. Epub 2011 Apr 1.

PMID:

21456949

[PubMed - in process]

[Related citations](#)



39.

[COMPARTMENTALIZATION OF ENDOCANNABINOIDS INTO LIPID RAFTS IN A MICROGLIAL CELL LINE, WHICH IS DEVOID OF CAVEOLIN-1.](#)

Rimmerman N, Bradshaw HB, Kozela E, Levy R, Juknat A, Vogel Z.

Br J Pharmacol. 2011 Mar 30. doi: 10.1111/j.1476-5381.2011.01380.x. [Epub ahead of print]

PMID:

21449981

[PubMed - as supplied by publisher]

[Related citations](#)



40.

[Cannabidiol inhibits pathogenic T cells, decreases spinal microglial activation and ameliorates multiple sclerosis-like disease in C57BL/6 mice.](#)

Kozela E, Lev N, Kaushansky N, Eilam R, Rimmerman N, Levy R, Ben-Nun A, Juknat A, Vogel Z.

Br J Pharmacol. 2011 Aug;163(7):1507-19. doi: 10.1111/j.1476-5381.2011.01379.x.

PMID:

21449980

[PubMed - in process]

[Related citations](#)

sults: 41 to 60 of 926



41.

[Cannabinoid effects on ventilation and breathlessness: a pilot study of efficacy and safety.](#)

Pickering EE, Semple SJ, Nazir MS, Murphy K, Snow TM, Cummin AR, Moosavi SH, Guz A, Holdcroft A.

Chron Respir Dis. 2011;8(2):109-18. Epub 2011 Mar 24.

PMID:

21436223

[PubMed - in process]

[Related citations](#)



42.

[Modulation of auditory and visual processing by delta-9-tetrahydrocannabinol and cannabidiol: an FMRI study.](#)

Winton-Brown TT, Allen P, Bhattacharya S, Borgwardt SJ, Fusar-Poli P, Crippa JA, Seal ML, Martin-Santos R, Ffytche D, Zuardi AW, Atakan Z, McGuire PK.

Neuropsychopharmacology. 2011 Jun;36(7):1340-8. Epub 2011 Mar 16.

PMID:

21412224

[PubMed - in process]

[Related citations](#)



43.

[\[Simultaneous determination of delta-9-tetrahydrocannabinol cannabidiol and cannabinol in edible oil using ultra performance liquid chromatography-tandem mass spectrometry\].](#)

Zhang A, Wang Q, Mo S.

Se Pu. 2010 Nov;28(11):1015-9. Chinese.

PMID:

21381415

[PubMed - in process]

[Related citations](#)



44.

[Cannabidiol protects against hepatic ischemia/reperfusion injury by attenuating inflammatory signaling and response, oxidative/nitrative stress, and cell death.](#)

Mukhopadhyay P, Rajesh M, Horváth B, Bátkai S, Park O, Tanchian G, Gao RY, Patel V, Wink DA, Liaudet L, Haskó G, Mechoulam R, Pacher P.

Free Radic Biol Med. 2011 May 15;50(10):1368-81. Epub 2011 Mar 11.

PMID:

21362471

[PubMed - in process]

[Related citations](#)



45.

[Potent inhibition of human cytochrome P450 3A isoforms by cannabidiol: role of phenolic hydroxyl groups in the resorcinol moiety.](#)

Yamaori S, Ebisawa J, Okushima Y, Yamamoto I, Watanabe K.

Life Sci. 2011 Apr 11;88(15-16):730-6. Epub 2011 Feb 26.

PMID:

21356216

[PubMed - indexed for MEDLINE]

[Related citations](#)



46.

[Cannabidiol and other cannabinoids reduce microglial activation in vitro and in vivo: relevance to Alzheimer's disease.](#)

Martín-Moreno AM, Reigada D, Ramírez BG, Mechoulam R, Innamorato N, Cuadrado A, de Ceballos ML.

Mol Pharmacol. 2011 Jun;79(6):964-73. Epub 2011 Feb 24.

PMID:

21350020

[PubMed - in process]

[Related citations](#)



47.

[Symptom-relieving and neuroprotective effects of the phytocannabinoid \$\Delta\(9\)\$ -THCV in animal models of Parkinson's disease.](#)

García C, Palomo-Garo C, García-Arencibia M, Ramos J, Pertwee R, Fernández-Ruiz J.

Br J Pharmacol. 2011 Aug;163(7):1495-506. doi: 10.1111/j.1476-5381.2011.01278.x.

PMID:

21323909

[PubMed - in process]

[Related citations](#)



48.

[\[Cannabis medicinal drugs. "Psychedelics" by prescription?\].](#)

Gross H.

MMW Fortschr Med. 2010 Nov 11;152(45):14-6. German. No abstract available.

PMID:

21319400

[PubMed - indexed for MEDLINE]

[Related citations](#)



49.

[Inhibitory effect of standardized cannabis sativa extract and its ingredient **cannabidiol** on rat and human bladder contractility.](#)

Capasso R, Aviello G, Borrelli F, Romano B, Ferro M, Castaldo L, Montanaro V, Altieri V, Izzo AA.

Urology. 2011 Apr;77(4):1006.e9-1006.e15. Epub 2011 Feb 18.

PMID:

21310467

[PubMed - indexed for MEDLINE]

[Related citations](#)



50.

[Cannabidiol reduces the anxiety induced by simulated public speaking in treatment-naïve social phobia patients.](#)

Bergamaschi MM, Queiroz RH, Chagas MH, de Oliveira DC, De Martinis BS, Kapczinski F, Quevedo J, Roesler R, Schröder N, Nardi AE, Martín-Santos R, Hallak JE, Zuardi AW, Crippa JA.

Neuropsychopharmacology. 2011 May;36(6):1219-26. Epub 2011 Feb 9.

PMID:

21307846

[PubMed - in process]

[Related citations](#)



51.

[Subjective and physiological effects after controlled Sativex and oral THC administration.](#)

Karschner EL, Darwin WD, McMahon RP, Liu F, Wright S, Goodwin RS, Huestis MA.

Clin Pharmacol Ther. 2011 Mar;89(3):400-7. Epub 2011 Feb 2.

PMID:

21289620

[PubMed - indexed for MEDLINE]

[Related citations](#)



52.

[Heterogeneity in the composition of marijuana seized in California.](#)

Burgdorf JR, Kilmer B, Pacula RL.

Drug Alcohol Depend. 2011 Aug 1;117(1):59-61. Epub 2011 Feb 1.

PMID:

21288662

[PubMed - in process]

[Related citations](#)



53.

[Cannabinoids inhibit the synaptic uptake of adenosine and dopamine in the rat and mouse striatum.](#)

Pandolfo P, Silveirinha V, dos Santos-Rodrigues A, Venance L, Ledent C, Takahashi RN, Cunha RA, Kőfalvi A.

Eur J Pharmacol. 2011 Mar 25;655(1-3):38-45. Epub 2011 Jan 23.

PMID:

21266173

[PubMed - indexed for MEDLINE]

[Related citations](#)



54.

[Effects on sleep and dopamine levels of microdialysis perfusion of **cannabidiol** into the lateral hypothalamus of rats.](#)

Murillo-Rodríguez E, Palomero-Rivero M, Millán-Aldaco D, Mechoulam R, Drucker-Colín R.

Life Sci. 2011 Mar 14;88(11-12):504-11. Epub 2011 Jan 22.

PMID:

21262236

[PubMed - indexed for MEDLINE]

[Related citations](#)



55.

[Disposition of Cannabichromene, **Cannabidiol**, and \$\Delta\$ -Tetrahydrocannabinol and its Metabolites in Mouse Brain following Marijuana Inhalation Determined by High-Performance Liquid Chromatography-Tandem Mass Spectrometry.](#)

Poklis JL, Thompson CC, Long KA, Lichtman AH, Poklis A.

J Anal Toxicol. 2010 Oct 1;34(8):516-520.

PMID:

21258613

[PubMed]

[Related citations](#)



56.

[Endocannabinoids in liver disease.](#)

Tam J, Liu J, Mukhopadhyay B, Cinar R, Godlewski G, Kunos G.

Hepatology. 2011 Jan;53(1):346-55. doi: 10.1002/hep.24077. Review.

PMID:

21254182

[PubMed - indexed for MEDLINE]

[Related citations](#)



57.

[Cannabidiol reduces lipopolysaccharide-induced vascular changes and inflammation in the mouse brain: an intravital microscopy study.](#)

Ruiz-Valdepeñas L, Martínez-Orgado JA, Benito C, Millán A, Tolón RM, Romero J.

J Neuroinflammation. 2011 Jan 18;8(1):5.

PMID:

21244691

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



58.

[Interaction between non-psychotropic cannabinoids in marihuana: effect of cannabigerol \(CBG\) on the anti-nausea or anti-emetic effects of cannabidiol \(CBD\) in rats and shrews.](#)

Rock EM, Goodwin JM, Limebeer CL, Breuer A, Pertwee RG, Mechoulam R, Parker LA.

Psychopharmacology (Berl). 2011 Jun;215(3):505-12. Epub 2011 Jan 18.

PMID:

21243485

[PubMed - in process]

[Related citations](#)



59.

[Cannabidiol as an emergent therapeutic strategy for lessening the impact of inflammation on oxidative stress.](#)

Booz GW.

Free Radic Biol Med. 2011 Jan 14. [Epub ahead of print]

PMID:

21238581

[PubMed - as supplied by publisher]

[Related citations](#)



60.

[Cannabidiol inhibits the hyperphagia induced by cannabinoid-1 or serotonin-1A receptor agonists.](#)

Scopinho AA, Guimarães FS, Corrêa FM, Resstel LB.

Pharmacol Biochem Behav. 2011 Apr;98(2):268-72. Epub 2011 Jan 14.

PMID:

21238476

[PubMed - indexed for MEDLINE]

[Related citations](#)

[A combined preclinical therapy of cannabinoids and temozolomide against glioma.](#)

Torres S, Lorente M, Rodríguez-Fornés F, Hernández-Tiedra S, Salazar M, García-Taboada E, Barcia J, Guzmán M, Velasco G.

Mol Cancer Ther. 2011 Jan;10(1):90-103.

PMID:

21220494

[PubMed - in process]

[Related citations](#)



62.

[WITHDRAWN: Cannabidiol exerts anti-convulsant effects in animal models of temporal lobe and partial seizures.](#)

Jones NA, Hill AJ, Weston SE, Burnett MD, Stephens GJ, Whalley BJ, Williams CM.

Seizure. 2011 Jan 6. [Epub ahead of print]

PMID:

21212005

[PubMed - as supplied by publisher]

[Related citations](#)



63.

[Cannabidiol improves brain and liver function in a fulminant hepatic failure-induced model of hepatic encephalopathy in mice.](#)

Avraham Y, Grigoriadis N, Poutahidis T, Vorobiev L, Magen I, Ilan Y, Mechoulam R, Berry E.

Br J Pharmacol. 2011 Apr;162(7):1650-8. doi: 10.1111/j.1476-5381.2010.01179.x.

PMID:

21182490

[PubMed - indexed for MEDLINE]

[Related citations](#)



64.

[Regulation of nausea and vomiting by cannabinoids.](#)

Parker LA, Rock EM, Limebeer CL.

Br J Pharmacol. 2011 Aug;163(7):1411-22. doi: 10.1111/j.1476-5381.2010.01176.x.

PMID:

21175589

[PubMed - in process]

[Related citations](#)



65.

[Effects of cannabinoids and cannabinoid-enriched Cannabis extracts on TRP channels and endocannabinoid metabolic enzymes.](#)

De Petrocellis L, Ligresti A, Moriello AS, Allarà M, Bisogno T, Petrosino S, Stott CG, Di Marzo V.

Br J Pharmacol. 2011 Aug;163(7):1479-94. doi: 10.1111/j.1476-5381.2010.01166.x.

PMID:

21175579

[PubMed - in process]

[Related citations](#)



66.

[Cannabidiol decreases body weight gain in rats: involvement of CB2 receptors.](#)

Ignatowska-Jankowska B, Jankowski MM, Swiergiel AH.

Neurosci Lett. 2011 Feb 18;490(1):82-4. Epub 2010 Dec 21.

PMID:

21172406

[PubMed - indexed for MEDLINE]

[Related citations](#)



67.

[Cannabidiol injected into the bed nucleus of the stria terminalis reduces the expression of contextual fear conditioning via 5-HT1A receptors.](#)

Gomes FV, Reis DG, Alves FH, Corrêa FM, Guimares FS, Resstel LB.

J Psychopharmacol. 2010 Dec 8. [Epub ahead of print]

PMID:

21148020

[PubMed - as supplied by publisher]

[Related citations](#)



68.

[Cannabidiol attenuates cardiac dysfunction, oxidative stress, fibrosis, and inflammatory and cell death signaling pathways in diabetic cardiomyopathy.](#)

Rajesh M, Mukhopadhyay P, Bátkai S, Patel V, Saito K, Matsumoto S, Kashiwaya Y, Horváth B, Mukhopadhyay B, Becker L, Haskó G, Liaudet L, Wink DA, Veves A, Mechoulam R, Pacher P.

J Am Coll Cardiol. 2010 Dec 14;56(25):2115-25.

PMID:

21144973

[PubMed - indexed for MEDLINE]

[Related citations](#)



69.

[Immunochemical approach using monoclonal antibody against \$\Delta\(9\)\$ -tetrahydrocannabinolic acid \(THCA\) to discern cannabis plants and to investigate new drug candidates.](#)

Tanaka H.

Curr Drug Discov Technol. 2011 Mar 1;8(1):3-15.

PMID:

21143135

[PubMed - in process]

[Related citations](#)



70.

[Cannabinoids lead to enhanced virulence of the smallpox vaccine \(vaccinia\) virus.](#)

Huemer HP, Lassnig C, Bernhard D, Sturm S, Nowotny N, Kitchen M, Pavlic M.

Immunobiology. 2011 Jun;216(6):670-7. Epub 2010 Nov 16.

PMID:

21131094

[PubMed - in process]

[Related citations](#)



71.

[Acute and chronic cannabinoid extracts administration affects motor function in a CREAE model of multiple sclerosis.](#)

Buccellato E, Carretta D, Utan A, Cavina C, Speroni E, Grassi G, Candeletti S, Romualdi P.

J Ethnopharmacol. 2011 Feb 16;133(3):1033-8. Epub 2010 Nov 19.

PMID:

21094240

[PubMed - indexed for MEDLINE]

[Related citations](#)



72.

[\[New guidelines for the treatment of neuropathic pain\].](#)

Stępień A, Domżał TM.

Neurol Neurochir Pol. 2010 Sep-Oct;44(5):437-42. Polish. No abstract available.

PMID:

21082489

[PubMed - indexed for MEDLINE]

[Related citations](#)



73.

[Plasma cannabinoid pharmacokinetics following controlled oral delta9-tetrahydrocannabinol and oromucosal cannabis extract administration.](#)

Karschner EL, Darwin WD, Goodwin RS, Wright S, Huestis MA.

Clin Chem. 2011 Jan;57(1):66-75. Epub 2010 Nov 15.

PMID:

21078841

[PubMed - indexed for MEDLINE]

[Related citations](#)



74.

[The interplay of cannabinoid and NMDA glutamate receptor systems in humans: preliminary evidence of interactive effects of **cannabidiol** and ketamine in healthy human subjects.](#)

Hallak JE, Dursun SM, Bosi DC, de Macedo LR, Machado-de-Sousa JP, Abrão J, Crippa JA, McGuire P, Krystal JH, Baker GB, Zuardi AW.

Prog Neuropsychopharmacol Biol Psychiatry. 2011 Jan 15;35(1):198-202. Epub 2010 Nov 7.

PMID:

21062637

[PubMed - indexed for MEDLINE]

[Related citations](#)



75.

[Diminished gray matter in the hippocampus of cannabis users: Possible protective effects of **cannabidiol**.](#)

Demirakca T, Sartorius A, Ende G, Meyer N, Welzel H, Skopp G, Mann K, Hermann D.

Drug Alcohol Depend. 2011 Apr 1;114(2-3):242-5. Epub 2010 Nov 2.

PMID:

21050680

[PubMed - in process]

[Related citations](#)



76.

[Cannabidiol attenuates delayed-type hypersensitivity reactions via suppressing T-cell and macrophage reactivity.](#)

LIU DZ, HU CM, HUANG CH, WEY SP, JAN TR.

Acta Pharmacol Sin. 2010 Dec;31(12):1611-7. Epub 2010 Nov 1.

PMID:

21042286

[PubMed - indexed for MEDLINE]

[Related citations](#)



77.

[Preliminary efficacy and safety of an oromucosal standardized cannabis extract in chemotherapy-induced nausea and vomiting.](#)

Duran M, Pérez E, Abanades S, Vidal X, Saura C, Majem M, Arriola E, Rabanal M, Pastor A, Farré M, Rams N, Laporte JR, Capellà D.

Br J Clin Pharmacol. 2010 Nov;70(5):656-63. doi: 10.1111/j.1365-2125.2010.03743.x.

PMID:

21039759

[PubMed - indexed for MEDLINE]

[Related citations](#)



78.

[Cannabidiol As a Putative Novel Therapy for Diabetic Retinopathy: A Postulated Mechanism of Action as an Entry Point for Biomarker-Guided Clinical Development.](#)

Liou G, El-Remessy A, Ibrahim A, Caldwell R, Khalifa Y, Gunes A, Nussbaum J.

Curr Pharmacogenomics Person Med. 2009 Sep;7(3):215-222.

PMID:

20953236

[PubMed]

[Free PMC Article](#)

[Free full text Related citations](#)



79.

[The anxiolytic-like effects of **cannabidiol** injected into the bed nucleus of the stria terminalis are mediated by 5-HT1A receptors.](#)

Gomes FV, Resstel LB, Guimarães FS.

Psychopharmacology (Berl). 2011 Feb;213(2-3):465-73. Epub 2010 Oct 14.

PMID:

20945065

[PubMed - indexed for MEDLINE]

[Related citations](#)



80.

[Non-psychoactive cannabinoids modulate the descending pathway of antinociception in anaesthetized rats through several mechanisms of action.](#)

Maione S, Piscitelli F, Gatta L, Vita D, De Petrocellis L, Palazzo E, de Novellis V, Di Marzo V.

Br J Pharmacol. 2011 Feb;162(3):584-96. doi: 10.1111/j.1476-5381.2010.01063.x.

PMID:

20942863

[PubMed - in process]

[Related citations](#)

[Impact of **cannabidiol** on the acute memory and psychotomimetic effects of smoked cannabis: naturalistic study: naturalistic study \[corrected\].](#)

Morgan CJ, Schafer G, Freeman TP, Curran HV.

Br J Psychiatry. 2010 Oct;197(4):285-90. Erratum in: Br J Psychiatry. 2010 Nov;197:416.

PMID:

20884951

[PubMed - indexed for MEDLINE]

[Related citations](#)



82.

[Does **cannabidiol** protect against the negative effects of THC?](#)

Henquet C, Kuepper R.

Br J Psychiatry. 2010 Oct;197(4):259-60.

PMID:

20884945

[PubMed - indexed for MEDLINE]

[Related citations](#)



83.

[Pathways mediating the effects of **cannabidiol** on the reduction of breast cancer cell proliferation, invasion, and metastasis.](#)

McAllister SD, Murase R, Christian RT, Lau D, Zielinski AJ, Allison J, Almanza C, Pakdel A, Lee J, Limbad C, Liu Y, Debs RJ, Moore DH, Desprez PY.

Breast Cancer Res Treat. 2011 Aug;129(1):37-47. Epub 2010 Sep 22.

PMID:

20859676

[PubMed - in process]

[Related citations](#)



84.

[Neural basis of anxiolytic effects of **cannabidiol** \(CBD\) in generalized social anxiety disorder: a preliminary report.](#)

Crippa JA, Derenusson GN, Ferrari TB, Wichert-Ana L, Duran FL, Martin-Santos R, Simões MV, Bhattacharyya S, Fusar-Poli P, Atakan Z, Santos Filho A, Freitas-Ferrari MC, McGuire PK, Zuardi AW, Busatto GF, Hallak JE.

J Psychopharmacol. 2011 Jan;25(1):121-30. Epub 2010 Sep 9.

PMID:

20829306

[PubMed - indexed for MEDLINE]

[Related citations](#)



85.

[Randomized controlled trial of Sativex to treat detrusor overactivity in multiple sclerosis.](#)

Kavia RB, De Ridder D, Constantinescu CS, Stott CG, Fowler CJ.

Mult Scler. 2010 Nov;16(11):1349-59. Epub 2010 Sep 9.

PMID:

20829244

[PubMed - indexed for MEDLINE]

[Related citations](#)



86.

[Cannabidiol inhibits synaptic transmission in rat hippocampal cultures and slices via multiple receptor pathways.](#)

Ledgerwood CJ, Greenwood SM, Brett RR, Pratt JA, Bushell TJ.

Br J Pharmacol. 2011 Jan;162(1):286-94. doi: 10.1111/j.1476-5381.2010.01015.x.

PMID:

20825410

[PubMed - indexed for MEDLINE]

[Related citations](#)



87.

[Cannabidiol protects retinal neurons by preserving glutamine synthetase activity in diabetes.](#)

El-Remessy AB, Khalifa Y, Ola S, Ibrahim AS, Liou GL.

Mol Vis. 2010 Aug 4;16:1487-95.

PMID:

20806080

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



88.

[Cannabidiol inhibitory effect on marble-burying behaviour: involvement of CB1 receptors.](#)

Casarotto PC, Gomes FV, Resstel LB, Guimarães FS.

Behav Pharmacol. 2010 Jul;21(4):353-8.

PMID:

20695034

[PubMed - indexed for MEDLINE]

[Related citations](#)



89.

[Validation of an analytical method for analysis of cannabinoids in hair by headspace solid-phase microextraction and gas chromatography-ion trap tandem mass spectrometry.](#)

Emídio ES, Prata Vde M, Dórea HS.

Anal Chim Acta. 2010 Jun 18;670(1-2):63-71. Epub 2010 Apr 18.

PMID:

20685418

[PubMed - indexed for MEDLINE]

[Related citations](#)



90.

[Enhancement drugs: are there limits to what we should enhance and why?](#)

Hesse M.

BMC Med. 2010 Aug 3;8:50.

PMID:

20682058

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



91.

[Decrease of plasminogen activator inhibitor-1 may contribute to the anti-invasive action of cannabidiol on human lung cancer cells.](#)

Ramer R, Rohde A, Merkord J, Rohde H, Hinz B.

Pharm Res. 2010 Oct;27(10):2162-74. Epub 2010 Jul 29.

PMID:

20668920

[PubMed - indexed for MEDLINE]

[Related citations](#)



92.

[Hollow fiber-based liquid phase microextraction with factorial design optimization and gas chromatography-tandem mass spectrometry for determination of cannabinoids in human hair.](#)

Emídio ES, de Menezes Prata V, de Santana FJ, Dórea HS.

J Chromatogr B Analyt Technol Biomed Life Sci. 2010 Aug 15;878(24):2175-83. Epub 2010 Jun 9.

PMID:

20655815

[PubMed - indexed for MEDLINE]

[Related citations](#)



93.

[Cannabidiol induces intracellular calcium elevation and cytotoxicity in oligodendrocytes.](#)

Mato S, Victoria Sánchez-Gómez M, Matute C.

Glia. 2010 Nov 1;58(14):1739-47.

PMID:

20645411

[PubMed - indexed for MEDLINE]

[Related citations](#)



94.

[Cannabis-based treatment induces polarity-reversing plasticity assessed by theta burst stimulation in humans.](#)

Koch G, Mori F, Codecà C, Kusayanagi H, Monteleone F, Buttari F, Fiore S, Bernardi G, Centonze D.

Brain Stimul. 2009 Oct;2(4):229-33. Epub 2009 Apr 3.

PMID:

20633421

[PubMed - indexed for MEDLINE]

[Related citations](#)



95.

[Cannabidiol injected into the bed nucleus of the stria terminalis modulates baroreflex activity through 5-HT1A receptors.](#)

Alves FH, Crestani CC, Gomes FV, Guimarães FS, Correa FM, Resstel LB.

Pharmacol Res. 2010 Sep;62(3):228-36.

PMID:

20621717

[PubMed - indexed for MEDLINE]

[Related citations](#)



96.

[Detection of cannabigerol and its presumptive metabolite in human urine after Cannabis consumption.](#)

Hidvégi E, Somogyi GP.

Pharmazie. 2010 Jun;65(6):408-11.

PMID:

20614687

[PubMed - indexed for MEDLINE]

[Related citations](#)



97.

[Pharmacological effects of cannabinoids on the Caco-2 cell culture model of intestinal permeability.](#)

Alhamoruni A, Lee AC, Wright KL, Larvin M, O'Sullivan SE.

J Pharmacol Exp Ther. 2010 Oct;335(1):92-102. Epub 2010 Jun 30.

PMID:

20592049

[PubMed - indexed for MEDLINE]

[Related citations](#)



98.

[Acute administration of **cannabidiol** in vivo suppresses ischaemia-induced cardiac arrhythmias and reduces infarct size when given at reperfusion.](#)

Walsh SK, Hepburn CY, Kane KA, Wainwright CL.

Br J Pharmacol. 2010 Jul;160(5):1234-42.

PMID:

20590615

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



99.

[The effects of Delta-tetrahydrocannabinol and **cannabidiol** alone and in combination on damage, inflammation and in vitro motility disturbances in rat colitis.](#)

Jamontt JM, Molleman A, Pertwee RG, Parsons ME.

Br J Pharmacol. 2010 Jun;160(3):712-23.

PMID:

20590574

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



100.

[Cannabis based drug is licensed for spasticity in patients with MS.](#)

Kmietowicz Z.

BMJ. 2010 Jun 22;340:c3363. doi: 10.1136/bmj.c3363. No abstract available.

PMID:

20570870

[PubMed - indexed for MEDLINE]

[Related citations](#)

101.

[Cannabinoid receptor CB1 mediates baseline and activity-induced survival of new neurons in adult hippocampal neurogenesis.](#)

Wolf SA, Bick-Sander A, Fabel K, Leal-Galicia P, Tauber S, Ramirez-Rodriguez G, Müller A, Melnik A, Waltinger TP, Ullrich O, Kempermann G.

Cell Commun Signal. 2010 Jun 17;8:12.

PMID:

20565726

[PubMed]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



102.

[Treatment with **cannabidiol** reverses oxidative stress parameters, cognitive impairment and mortality in rats submitted to sepsis by cecal ligation and puncture.](#)

Cassol-Jr OJ, Comim CM, Silva BR, Hermani FV, Constantino LS, Felisberto F, Petronilho F, Hallak JE, De Martinis BS, Zuardi AW, Crippa JA, Quevedo J, Dal-Pizzol F.

Brain Res. 2010 Aug 12;1348:128-38. Epub 2010 Jun 16.

PMID:

20561509

[PubMed - indexed for MEDLINE]

[Related citations](#)



103.

[Meta-analysis of the efficacy and safety of Sativex \(nabiximols\), on spasticity in people with multiple sclerosis.](#)

Wade DT, Collin C, Stott C, Duncombe P.

Mult Scler. 2010 Jun;16(6):707-14.

PMID:

20558502

[PubMed - indexed for MEDLINE]

[Related citations](#)



104.

[TRPV2 activation induces apoptotic cell death in human T24 bladder cancer cells: a potential therapeutic target for bladder cancer.](#)

Yamada T, Ueda T, Shibata Y, Ikegami Y, Saito M, Ishida Y, Ugawa S, Kohri K, Shimada S.

Urology. 2010 Aug;76(2):509.e1-7. Epub 2010 May 23.

PMID:

20546877

[PubMed - indexed for MEDLINE]

[Related citations](#)



105.

[Cannabidiol bioavailability after nasal and transdermal application: effect of permeation enhancers.](#)

Paudel KS, Hammell DC, Agu RU, Valiveti S, Stinchcomb AL.

Drug Dev Ind Pharm. 2010 Sep;36(9):1088-97.

PMID:

20545522

[PubMed - indexed for MEDLINE]

[Related citations](#)



106.

[Disposition of cannabinoids in oral fluid after controlled around-the-clock oral THC administration.](#)

Milman G, Barnes AJ, Schwoppe DM, Schwilke EW, Darwin WD, Goodwin RS, Kelly DL, Gorelick DA, Huestis MA.

Clin Chem. 2010 Aug;56(8):1261-9. Epub 2010 Jun 8.

PMID:

20530732

[PubMed - indexed for MEDLINE]

[Related citations](#)



107.

[\[Therapeutical use of the cannabinoids in psychiatry\].](#)

Crippa JA, Zuardi AW, Hallak JE.

Rev Bras Psiquiatr. 2010 May;32 Suppl 1:S56-66. Review. Portuguese.

PMID:

20512271

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

108.

[Medical marijuana and the mind. More is known about the psychiatric risks than the benefits.](#)

[No authors listed]

Harv Ment Health Lett. 2010 Apr;26(10):1-3. No abstract available.

PMID:

20499454

[PubMed - indexed for MEDLINE]

[Related citations](#)

109.

[High-pressure Diels-Alder cycloadditions between benzylideneacetones and 1,3-butadienes: application to the synthesis of \(R,R\)-\(-\)- and \(S,S\)-\(+\)-Delta8-tetrahydrocannabinol.](#)

Ballerini E, Minuti L, Piermatti O.

J Org Chem. 2010 Jun 18;75(12):4251-60.

PMID:

20476768

[PubMed - indexed for MEDLINE]

[Related citations](#)

110.

[Cannabidiol induced a contrasting pro-apoptotic effect between freshly isolated and precultured human monocytes.](#)

Wu HY, Chang AC, Wang CC, Kuo FH, Lee CY, Liu DZ, Jan TR.

Toxicol Appl Pharmacol. 2010 May 21. [Epub ahead of print]

PMID:

20471992

[PubMed - as supplied by publisher]

[Related citations](#)

111.

[Intra-dorsal periaqueductal gray administration of cannabidiol blocks panic-like response by activating 5-HT1A receptors.](#)

Soares Vde P, Campos AC, Bortoli VC, Zangrossi H Jr, Guimarães FS, Zuardi AW.

Behav Brain Res. 2010 Dec 1;213(2):225-9. Epub 2010 May 8.

PMID:

20457188

[PubMed - indexed for MEDLINE]

[Related citations](#)



112.

[Cannabidiol attenuates the appetitive effects of Delta 9-tetrahydrocannabinol in humans smoking their chosen cannabis.](#)

Morgan CJ, Freeman TP, Schafer GL, Curran HV.

Neuropsychopharmacology. 2010 Aug;35(9):1879-85. Epub 2010 Apr 28.

PMID:

20428110

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



113.

[Analysis of drugs of abuse in biofluids by low temperature plasma \(LTP\) ionization mass spectrometry.](#)

Jackson AU, Garcia-Reyes JF, Harper JD, Wiley JS, Molina-Díaz A, Ouyang Z, Cooks RG.

Analyst. 2010 May;135(5):927-33. Epub 2010 Jan 12.

PMID:

20419240

[PubMed - indexed for MEDLINE]

[Related citations](#)



114.

[Gateways to clinical trials.](#)

Tomillero A, Moral MA.

Methods Find Exp Clin Pharmacol. 2010 Mar;32(2):133-47.

PMID:

20401351

[PubMed - indexed for MEDLINE]

[Related citations](#)



115.

[Updating the chemistry and biology of cannabinoid CB2 receptor-specific inverse agonists.](#)

Lunn CA.

Curr Top Med Chem. 2010;10(8):768-78. Review.

PMID:

20370714

[PubMed - indexed for MEDLINE]

[Related citations](#)



116.

[Validation of an enzyme immunoassay for detection and semiquantification of cannabinoids in oral fluid.](#)

Schwoppe DM, Milman G, Huestis MA.

Clin Chem. 2010 Jun;56(6):1007-14. Epub 2010 Apr 1.

PMID:

20360126

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



117.

[The endocannabinoid system and psychiatric disorders.](#)

Parolaro D, Realini N, Vigano D, Guidali C, Rubino T.

Exp Neurol. 2010 Jul;224(1):3-14. Epub 2010 Mar 29. Review.

PMID:

20353783

[PubMed - indexed for MEDLINE]

[Related citations](#)



118.

[N-arachidonoyl glycine, an abundant endogenous lipid, potently drives directed cellular migration through GPR18, the putative abnormal **cannabidiol** receptor.](#)

McHugh D, Hu SS, Rimmerman N, Juknat A, Vogel Z, Walker JM, Bradshaw HB.

BMC Neurosci. 2010 Mar 26;11:44.

PMID:

20346144

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



119.

[Lack of positive allosteric modulation of mutated alpha\(1\)S267I glycine receptors by cannabinoids.](#)

Foadi N, Leuwer M, Demir R, Dengler R, Buchholz V, de la Roche J, Karst M, Haeseler G, Ahrens J.

Naunyn Schmiedebergs Arch Pharmacol. 2010 May;381(5):477-82. Epub 2010 Mar 26.

PMID:

20339834

[PubMed - indexed for MEDLINE]

[Related citations](#)



120.

[Performance of schizophrenic patients in the Stroop Color Word Test and electrodermal responsiveness after acute administration of **cannabidiol** \(CBD\).](#)

Hallak JE, Machado-de-Sousa JP, Crippa JA, Sanches RF, Trzesniak C, Chaves C, Bernardo SA, Regalo SC, Zuardi AW.

Rev Bras Psiquiatr. 2010 Mar;32(1):56-61.

PMID:

20339735

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



121.

[Antidepressant-like effect of delta9-tetrahydrocannabinol and other cannabinoids isolated from Cannabis sativa L.](#)

El-Alfy AT, Ivey K, Robinson K, Ahmed S, Radwan M, Slade D, Khan I, ElSohly M, Ross S.

Pharmacol Biochem Behav. 2010 Jun;95(4):434-42. Epub 2010 Mar 21.

PMID:

20332000

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



122.

[A double-blind, randomized, placebo-controlled, parallel-group study of Sativex, in subjects with symptoms of spasticity due to multiple sclerosis.](#)

Collin C, Ehler E, Waberszinek G, Alsindi Z, Davies P, Powell K, Notcutt W, O'Leary C, Ratcliffe S, Nováková I, Zapletalova O, Píková J, Ambler Z.

Neurol Res. 2010 Jun;32(5):451-9. Epub 2010 Mar 19.

PMID:

20307378

[PubMed - indexed for MEDLINE]

[Related citations](#)



123.

[Validation of a two-dimensional gas chromatography mass spectrometry method for the simultaneous quantification of cannabidiol, Delta\(9\)-tetrahydrocannabinol \(THC\), 11-hydroxy-THC, and 11-nor-9-carboxy-THC in plasma.](#)

Karschner EL, Barnes AJ, Lowe RH, Scheidweiler KB, Huestis MA.

Anal Bioanal Chem. 2010 May;397(2):603-11. Epub 2010 Mar 20.

PMID:

20306180

[PubMed - indexed for MEDLINE]

[Related citations](#)



124.

[Pharmacological characterization of GPR55, a putative cannabinoid receptor.](#)

Sharir H, Abood ME.

Pharmacol Ther. 2010 Jun;126(3):301-13. Epub 2010 Mar 16. Review.

PMID:

20298715

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



125.

[Cannabinoid-mediated modulation of neuropathic pain and microglial accumulation in a model of murine type I diabetic peripheral neuropathic pain.](#)

Toth CC, Jedrzejewski NM, Ellis CL, Frey WH 2nd.

Mol Pain. 2010 Mar 17;6:16.

PMID:

20236533

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



126.

[Diabetic retinopathy: Role of inflammation and potential therapies for anti-inflammation.](#)

Liou GI.

World J Diabetes. 2010 Mar 15;1(1):12-8.

PMID:

21537423

[PubMed]

[Free PMC Article](#)

[Free full text](#)



127.

[Potential antipsychotic properties of central cannabinoid \(CB1\) receptor antagonists.](#)

Roser P, Vollenweider FX, Kawohl W.

World J Biol Psychiatry. 2010 Mar;11(2 Pt 2):208-19. Review.

PMID:

20218784

[PubMed - indexed for MEDLINE]

[Related citations](#)



128.

[Cannabidiol hydroxyquinone-induced apoptosis of splenocytes is mediated predominantly by thiol depletion.](#)

Wu HY, Jan TR.

Toxicol Lett. 2010 May 19;195(1):68-74. Epub 2010 Feb 23.

PMID:

20184945

[PubMed - indexed for MEDLINE]

[Related citations](#)



129.

[The nonpsychoactive cannabinoid cannabidiol inhibits 5-hydroxytryptamine3A receptor-mediated currents in Xenopus laevis oocytes.](#)

Yang KH, Galadari S, Isaev D, Petroianu G, Shippenberg TS, Oz M.

J Pharmacol Exp Ther. 2010 May;333(2):547-54. Epub 2010 Feb 16.

PMID:

20160007

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



130.

[Hair analysis for Delta9-tetrahydrocannabinolic acid A--new insights into the mechanism of drug incorporation of cannabinoids into hair.](#)

Auwärter V, Wohlfarth A, Traber J, Thieme D, Weinmann W.

Forensic Sci Int. 2010 Mar 20;196(1-3):10-3. Epub 2010 Feb 2.

PMID:

20129747

[PubMed - indexed for MEDLINE]

[Related citations](#)



131.

[Cannabidiol ameliorates cognitive and motor impairments in bile-duct ligated mice via 5-HT1A receptor activation.](#)

Magen I, Avraham Y, Ackerman Z, Vorobiev L, Mechoulam R, Berry EM.

Br J Pharmacol. 2010 Feb;159(4):950-7. Epub 2010 Jan 29.

PMID:

20128798

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



132.

[Cannabinoid receptor 1 binding activity and quantitative analysis of Cannabis sativa L. smoke and vapor.](#)

Fischedick J, Van Der Kooy F, Verpoorte R.

Chem Pharm Bull (Tokyo). 2010 Feb;58(2):201-7.

PMID:

20118579

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



133.

[Characterization of major phytocannabinoids, **cannabidiol** and cannabitol, as isoform-selective and potent inhibitors of human CYP1 enzymes.](#)

Yamaori S, Kushihara M, Yamamoto I, Watanabe K.

Biochem Pharmacol. 2010 Jun 1;79(11):1691-8. Epub 2010 Feb 1.

PMID:

20117100

[PubMed - indexed for MEDLINE]

[Related citations](#)



134.

[A cannabinoid receptor, sensitive to O-1918, is involved in the delayed hypotension induced by anandamide in anaesthetized rats.](#)

Zakrzaska A, Schlicker E, Baranowska M, Kozłowska H, Kwolek G, Malinowska B.

Br J Pharmacol. 2010 Jun;160(3):574-84. Epub 2010 Jan 25.

PMID:

20105178

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



135.

[Simultaneous quantification of cannabinoids and metabolites in oral fluid by two-dimensional gas chromatography mass spectrometry.](#)

Milman G, Barnes AJ, Lowe RH, Huestis MA.

J Chromatogr A. 2010 Feb 26;1217(9):1513-21. Epub 2010 Jan 4.

PMID:

20083251

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



136.

[Effects of abnormal **cannabidiol** on oxytocin-induced myometrial contractility.](#)

Houlihan DD, Denny MC, Morrison JJ.

Reproduction. 2010 Apr;139(4):783-8. Epub 2010 Jan 12.

PMID:

20068032

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



137.

[Cannabidiol-induced lymphopenia does not involve NKT and NK cells.](#)

Ignatowska-Jankowska B, Jankowski M, Glac W, Swiergel AH.

J Physiol Pharmacol. 2009 Oct;60 Suppl 3:99-103.

PMID:

19996489

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



138.

[Cannabidiol enhances the inhibitory effects of delta9-tetrahydrocannabinol on human glioblastoma cell proliferation and survival.](#)

Marcu JP, Christian RT, Lau D, Zielinski AJ, Horowitz MP, Lee J, Pakdel A, Allison J, Limbad C, Moore DH, Yount GL, Desprez PY, McAllister SD.

Mol Cancer Ther. 2010 Jan;9(1):180-9. Epub 2010 Jan 6.

PMID:

20053780

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text Related citations](#)



139.

[Evidence that the plant cannabinoid cannabigerol is a highly potent alpha2-adrenoceptor agonist and moderately potent 5HT1A receptor antagonist.](#)

Cascio MG, Gauson LA, Stevenson LA, Ross RA, Pertwee RG.

Br J Pharmacol. 2010 Jan;159(1):129-41. Epub 2009 Dec 4.

PMID:

20002104

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



140.

[Antidepressant-like effects of **cannabidiol** in mice: possible involvement of 5-HT1A receptors.](#)

Zanelati TV, Biojone C, Moreira FA, Guimarães FS, Joca SR.

Br J Pharmacol. 2010 Jan;159(1):122-8. Epub 2009 Dec 4.

PMID:

20002102

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)

[Examining the roles of cannabinoids in pain and other therapeutic indications: a review.](#)

Turcotte D, Le Dorze JA, Esfahani F, Frost E, Gomori A, Namaka M.

Expert Opin Pharmacother. 2010 Jan;11(1):17-31. Review.

PMID:

20001426

[PubMed - indexed for MEDLINE]

[Related citations](#)



142.

[Whole plant cannabis extracts in the treatment of spasticity in multiple sclerosis: a systematic review.](#)

Lakhan SE, Rowland M.

BMC Neurol. 2009 Dec 4;9:59. Review.

PMID:

19961570

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



143.

[Cannabidiol, a nonpsychotropic component of cannabis, inhibits cue-induced heroin seeking and normalizes discrete mesolimbic neuronal disturbances.](#)

Ren Y, Whittard J, Higuera-Matas A, Morris CV, Hurd YL.

J Neurosci. 2009 Nov 25;29(47):14764-9.

PMID:

19940171

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



144.

[Effects of cannabidiol on amphetamine-induced oxidative stress generation in an animal model of mania.](#)

Valvassori SS, Elias G, de Souza B, Petronilho F, Dal-Pizzol F, Kapczinski F, Trzesniak C, Tumas V, Dursun S, Chagas MH, Hallak JE, Zuardi AW, Quevedo J, Crippa JA.

J Psychopharmacol. 2011 Feb;25(2):274-80. Epub 2009 Nov 25.

PMID:

19939866

[PubMed - indexed for MEDLINE]

[Related citations](#)



145.

[Innovative development and validation of an HPLC/DAD method for the qualitative and quantitative determination of major cannabinoids in cannabis plant material.](#)

De Backer B, Debrus B, Lebrun P, Theunis L, Dubois N, Decock L, Verstraete A, Hubert P, Charlier C.

J Chromatogr B Analyt Technol Biomed Life Sci. 2009 Dec 15;877(32):4115-24. Epub 2009 Nov 6.

PMID:

19932642

[PubMed - indexed for MEDLINE]

[Related citations](#)



146.

[Opposite effects of delta-9-tetrahydrocannabinol and cannabidiol on human brain function and psychopathology.](#)

Bhattacharyya S, Morrison PD, Fusar-Poli P, Martin-Santos R, Borgwardt S, Winton-Brown T, Nosarti C, O'Carroll CM, Seal M, Allen P, Mehta MA, Stone JM, Tunstall N, Giampietro V, Kapur S, Murray RM, Zuardi AW, Crippa JA, Atakan Z, McGuire PK.

Neuropsychopharmacology. 2010 Feb;35(3):764-74. Epub 2009 Nov 18.

PMID:

19924114

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



147.

[Cannabidiol inhibits cancer cell invasion via upregulation of tissue inhibitor of matrix metalloproteinases-1.](#)

Ramer R, Merkord J, Rohde H, Hinz B.

Biochem Pharmacol. 2010 Apr 1;79(7):955-66. Epub 2009 Nov 13.

PMID:

19914218

[PubMed - indexed for MEDLINE]

[Related citations](#)



148.

[Cannabinoids Delta\(9\)-tetrahydrocannabinol and cannabidiol differentially inhibit the lipopolysaccharide-activated NF-kappaB and interferon-beta/STAT proinflammatory pathways in BV-2 microglial cells.](#)

Kozela E, Pietr M, Juknat A, Rimmerman N, Levy R, Vogel Z.

J Biol Chem. 2010 Jan 15;285(3):1616-26. Epub 2009 Nov 12.

PMID:

19910459

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



149.

[Cannabidiol displays antiepileptiform and antiseizure properties in vitro and in vivo.](#)

Jones NA, Hill AJ, Smith I, Bevan SA, Williams CM, Whalley BJ, Stephens GJ.

J Pharmacol Exp Ther. 2010 Feb;332(2):569-77. Epub 2009 Nov 11.

PMID:

19906779

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



150.

[The neuroprotective effect of cannabidiol in an in vitro model of newborn hypoxic-ischemic brain damage in mice is mediated by CB\(2\) and adenosine receptors.](#)

Castillo A, Tolón MR, Fernández-Ruiz J, Romero J, Martínez-Orgado J.

Neurobiol Dis. 2010 Feb;37(2):434-40. Epub 2009 Nov 6.

PMID:

19900555

[PubMed - indexed for MEDLINE]

[Related citations](#)



151.

[Multicenter, double-blind, randomized, placebo-controlled, parallel-group study of the efficacy, safety, and tolerability of THC:CBD extract and THC extract in patients with intractable cancer-related pain.](#)

Johnson JR, Burnell-Nugent M, Lossignol D, Ganae-Motan ED, Potts R, Fallon MT.

J Pain Symptom Manage. 2010 Feb;39(2):167-79. Epub 2009 Nov 5.

PMID:

19896326

[PubMed - indexed for MEDLINE]

[Related citations](#)



152.

[Automated solid-phase extraction-liquid chromatography-tandem mass spectrometry analysis of 11-nor-Delta9-tetrahydrocannabinol-9-carboxylic acid in human urine specimens: application to a high-throughput urine analysis laboratory.](#)

Robandt PV, Klette KL, Sibum M.

J Anal Toxicol. 2009 Oct;33(8):456-60.

PMID:

19874652

[PubMed - indexed for MEDLINE]

[Related citations](#)



153.

[Non-CB1, non-CB2 receptors for endocannabinoids, plant cannabinoids, and synthetic cannabimimetics: focus on G-protein-coupled receptors and transient receptor potential channels.](#)

De Petrocellis L, Di Marzo V.

J Neuroimmune Pharmacol. 2010 Mar;5(1):103-21. Epub 2009 Oct 22. Review.

PMID:

19847654

[PubMed - indexed for MEDLINE]

[Related citations](#)



154.

[Cannabinoid activation of peroxisome proliferator-activated receptors: potential for modulation of inflammatory disease.](#)

O'Sullivan SE, Kendall DA.

Immunobiology. 2010 Aug;215(8):611-6. Epub 2009 Oct 14. Review.

PMID:

19833407

[PubMed - indexed for MEDLINE]

[Related citations](#)



155.

[Standardized natural product cannabis in pain management and observations at a Canadian compassion society: a case report.](#)

Hornby AP, Sharma M, Stegman B.

Cases J. 2009 May 18;2:7487.

PMID:

19829975

[PubMed]

[Free PMC Article](#)

[Free full text Related citations](#)



156.

[Randomized placebo-controlled double-blind clinical trial of cannabis-based medicinal product \(Sativex\) in painful diabetic neuropathy: depression is a major confounding factor.](#)

Selvarajah D, Gandhi R, Emery CJ, Tesfaye S.

Diabetes Care. 2010 Jan;33(1):128-30. Epub 2009 Oct 6.

PMID:

19808912

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text Related citations](#)



157.

[The putative cannabinoid receptor GPR55 affects osteoclast function in vitro and bone mass in vivo.](#)

Whyte LS, Ryberg E, Sims NA, Ridge SA, Mackie K, Greasley PJ, Ross RA, Rogers MJ.

Proc Natl Acad Sci U S A. 2009 Sep 22;106(38):16511-6. Epub 2009 Sep 3.

PMID:

19805329

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



158.

[Involvement of the prelimbic prefrontal cortex on **cannabidiol**-induced attenuation of contextual conditioned fear in rats.](#)

Lemos JI, Resstel LB, Guimarães FS.

Behav Brain Res. 2010 Feb 11;207(1):105-11. Epub 2009 Oct 2.

PMID:

19800921

[PubMed - indexed for MEDLINE]

[Related citations](#)



159.

[Cannabinoids as pharmacotherapies for neuropathic pain: from the bench to the bedside.](#)

Rahn EJ, Hohmann AG.

Neurotherapeutics. 2009 Oct;6(4):713-37. Review.

PMID:

19789075

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



160.

[A behavioural comparison of acute and chronic Delta9-tetrahydrocannabinol and **cannabidiol** in C57BL/6JArc mice.](#)

Long LE, Chesworth R, Huang XF, McGregor IS, Arnold JC, Karl T.

Int J Neuropsychopharmacol. 2010 Aug;13(7):861-76. Epub 2009 Sep 29.

PMID:

19785914

[PubMed - indexed for MEDLINE]

[Related citations](#)

161.

[Modulation of effective connectivity during emotional processing by Delta 9-tetrahydrocannabinol and **cannabidiol**.](#)

Fusar-Poli P, Allen P, Bhattacharyya S, Crippa JA, Mechelli A, Borgwardt S, Martin-Santos R, Seal ML, O'Carroll C, Atakan Z, Zuardi AW, McGuire P.

Int J Neuropsychopharmacol. 2010 May;13(4):421-32. Epub 2009 Sep 24.

PMID:

19775500

[PubMed - indexed for MEDLINE]

[Related citations](#)



162.

[Lack of effect of cannabis-based treatment on clinical and laboratory measures in multiple sclerosis.](#)

Centonze D, Mori F, Koch G, Buttari F, Codecà C, Rossi S, Cencioni MT, Bari M, Fiore S, Bernardi G, Battistini L, Maccarrone M.

Neurol Sci. 2009 Dec;30(6):531-4. Epub 2009 Sep 19.

PMID:

19768368

[PubMed - indexed for MEDLINE]

[Related citations](#)



163.

[Evidence for a potential role for TRPV1 receptors in the dorsolateral periaqueductal gray in the attenuation of the anxiolytic effects of cannabinoids.](#)

Campos AC, Guimaraes FS.

Prog Neuropsychopharmacol Biol Psychiatry. 2009 Nov 13;33(8):1517-21. Epub 2009 Sep 6.

PMID:

19735690

[PubMed - indexed for MEDLINE]

[Related citations](#)



164.

[Non-psychotropic plant cannabinoids: new therapeutic opportunities from an ancient herb.](#)

Izzo AA, Borrelli F, Capasso R, Di Marzo V, Mechoulam R.

Trends Pharmacol Sci. 2009 Oct;30(10):515-27. Epub 2009 Sep 2. Review. Erratum in: Trends Pharmacol Sci. 2009 Dec;30(12):609.

PMID:

19729208

[PubMed - indexed for MEDLINE]

[Related citations](#)



165.

[Therapeutic time window of **cannabidiol** treatment on delayed ischemic damage via high-mobility group box1-inhibiting mechanism.](#)

Hayakawa K, Irie K, Sano K, Watanabe T, Higuchi S, Enoki M, Nakano T, Harada K, Ishikane S, Ikeda T, Fujioka M, Orito K, Iwasaki K, Mishima K, Fujiwara M.

Biol Pharm Bull. 2009 Sep;32(9):1538-44.

PMID:

19721229

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



166.

[**Cannabidiol**, a safe and non-psychotropic ingredient of the marijuana plant *Cannabis sativa*, is protective in a murine model of colitis.](#)

Borrelli F, Aviello G, Romano B, Orlando P, Capasso R, Maiello F, Guadagno F, Petrosino S, Capasso F, Di Marzo V, Izzo AA.

J Mol Med (Berl). 2009 Nov;87(11):1111-21. Epub 2009 Aug 20.

PMID:

19690824

[PubMed - indexed for MEDLINE]

[Related citations](#)



167.

[Evaluation of prevalent phytocannabinoids in the acetic acid model of visceral nociception.](#)

Booker L, Naidu PS, Razdan RK, Mahadevan A, Lichtman AH.

Drug Alcohol Depend. 2009 Nov 1;105(1-2):42-7. Epub 2009 Aug 12.

PMID:

19679411

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



168.

[A semi-automated solid-phase extraction liquid chromatography/tandem mass spectrometry method for the analysis of tetrahydrocannabinol and metabolites in whole blood.](#)

Jagerdeo E, Schaff JE, Montgomery MA, LeBeau MA.

Rapid Commun Mass Spectrom. 2009 Sep;23(17):2697-705.

PMID:

19630026

[PubMed - indexed for MEDLINE]

[Related citations](#)



169.

[Neuroimaging in cannabis use: a systematic review of the literature.](#)

Martín-Santos R, Fagundo AB, Crippa JA, Atakan Z, Bhattacharyya S, Allen P, Fusar-Poli P, Borgwardt S, Seal M, Busatto GF, McGuire P.

Psychol Med. 2010 Mar;40(3):383-98. Epub 2009 Jul 23. Review.

PMID:

19627647

[PubMed - indexed for MEDLINE]

[Related citations](#)



170.

[Cannabidiol ameliorates cognitive and motor impairments in mice with bile duct ligation.](#)

Magen I, Avraham Y, Ackerman Z, Vorobiev L, Mechoulam R, Berry EM.

J Hepatol. 2009 Sep;51(3):528-34. Epub 2009 May 27.

PMID:

19596476

[PubMed - indexed for MEDLINE]

[Related citations](#)



171.

[Endocannabinoid chemical biology: a tool for the development of novel therapies.](#)

Petrosino S, Ligresti A, Di Marzo V.

Curr Opin Chem Biol. 2009 Jun;13(3):309-20. Epub 2009 May 18. Review.

PMID:

19457702

[PubMed - indexed for MEDLINE]

[Related citations](#)



172.

[Cannabidiol-2',6'-dimethyl ether, a cannabidiol derivative, is a highly potent and selective 15-lipoxygenase inhibitor.](#)

Takeda S, Usami N, Yamamoto I, Watanabe K.

Drug Metab Dispos. 2009 Aug;37(8):1733-7. Epub 2009 Apr 30.

PMID:

19406952

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



173.

[High pressure Diels-Alder approach to hydroxy-substituted 6a-cyano-tetrahydro-6H-benzo\[c\]chromen-6-ones: a route to delta\(6\)-cis-cannabidiol.](#)

Ballerini E, Minuti L, Piermatti O, Pizzo F.

J Org Chem. 2009 Jun 5;74(11):4311-7.

PMID:

19402693

[PubMed - indexed for MEDLINE]

[Related citations](#)



174.

[Cannabidiol reverses the reduction in social interaction produced by low dose Delta\(9\)-tetrahydrocannabinol in rats.](#)

Malone DT, Jongejan D, Taylor DA.

Pharmacol Biochem Behav. 2009 Aug;93(2):91-6. Epub 2009 Apr 23.

PMID:

19393686

[PubMed - indexed for MEDLINE]

[Related citations](#)



175.

[Evaluation of principal cannabinoids in airborne particulates.](#)

Balducci C, Nervegna G, Cecinato A.

Anal Chim Acta. 2009 May 8;641(1-2):89-94. Epub 2009 Mar 31.

PMID:

19393371

[PubMed - indexed for MEDLINE]

[Related citations](#)



176.

[Synthetic and plant-derived cannabinoid receptor antagonists show hypophagic properties in fasted and non-fasted mice.](#)

Riedel G, Fadda P, McKillop-Smith S, Pertwee RG, Platt B, Robinson L.

Br J Pharmacol. 2009 Apr;156(7):1154-66.

PMID:

19378378

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



177.

[Cannabinoids for the treatment of dementia.](#)

Krishnan S, Cairns R, Howard R.

Cochrane Database Syst Rev. 2009 Apr 15;(2):CD007204. Review.

PMID:

19370677

[PubMed - indexed for MEDLINE]

[Related citations](#)



178.

[Modulation of mediotemporal and ventrostriatal function in humans by Delta9-tetrahydrocannabinol: a neural basis for the effects of Cannabis sativa on learning and psychosis.](#)

Bhattacharyya S, Fusar-Poli P, Borgwardt S, Martin-Santos R, Nosarti C, O'Carroll C, Allen P, Seal ML, Fletcher PC, Crippa JA, Giampietro V, Mechelli A, Atakan Z, McGuire P.

Arch Gen Psychiatry. 2009 Apr;66(4):442-51.

PMID:

19349314

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



179.

[Characterization of human hepatic and extrahepatic UDP-glucuronosyltransferase enzymes involved in the metabolism of classic cannabinoids.](#)

Mazur A, Lichti CF, Prather PL, Zielinska AK, Bratton SM, Gallus-Zawada A, Finel M, Miller GP, Radomińska-Pandya A, Moran JH.

Drug Metab Dispos. 2009 Jul;37(7):1496-504. Epub 2009 Apr 1.

PMID:

19339377

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



180.

[Addiction and the pharmacology of cannabis: implications for medicine and the law.](#)

Lader M.

Med Sci Law. 2009 Jan;49(1):1-17. Review.

PMID:

19306615

[PubMed - indexed for MEDLINE]

[Related citations](#)

181.

[Time-dependent vascular actions of **cannabidiol** in the rat aorta.](#)

O'Sullivan SE, Sun Y, Bennett AJ, Randall MD, Kendall DA.

Eur J Pharmacol. 2009 Jun 10;612(1-3):61-8. Epub 2009 Mar 11.

PMID:

19285060

[PubMed - indexed for MEDLINE]

[Related citations](#)



182.

[Willingness to pay for a treatment for pain in multiple sclerosis.](#)

Iskedjian M, Desjardins O, Piwko C, Bereza B, Jaszewski B, Einarson TR.

Pharmacoeconomics. 2009;27(2):149-58. doi: 10.2165/00019053-200927020-00005.

PMID:

19254047

[PubMed - indexed for MEDLINE]

[Related citations](#)



183.

[Cannabinoids against pain. Efficacy and strategies to reduce psychoactivity: a clinical perspective.](#)

Karst M, Wippermann S.

Expert Opin Investig Drugs. 2009 Feb;18(2):125-33. Review.

PMID:

19236260

[PubMed - indexed for MEDLINE]

[Related citations](#)



184.

[Cannabidiol targets mitochondria to regulate intracellular Ca²⁺ levels.](#)

Ryan D, Drysdale AJ, Lafourcade C, Pertwee RG, Platt B.

J Neurosci. 2009 Feb 18;29(7):2053-63.

PMID:

19228959

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



185.

[Cannabidiol: a promising drug for neurodegenerative disorders?](#)

Iuvone T, Esposito G, De Filippis D, Scuderi C, Steardo L.

CNS Neurosci Ther. 2009 Winter;15(1):65-75. Review.

PMID:

19228180

[PubMed - indexed for MEDLINE]

[Related citations](#)

186.

[Emerging strategies for exploiting cannabinoid receptor agonists as medicines.](#)

Pertwee RG.

Br J Pharmacol. 2009 Feb;156(3):397-411. Review.

PMID:

19226257

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)

187.

[Psychomotor performance in relation to acute oral administration of Delta9-tetrahydrocannabinol and standardized cannabis extract in healthy human subjects.](#)

Roser P, Gallinat J, Weinberg G, Juckel G, Gorynia I, Stadelmann AM.

Eur Arch Psychiatry Clin Neurosci. 2009 Aug;259(5):284-92. Epub 2009 Feb 17.

PMID:

19224107

[PubMed - indexed for MEDLINE]

[Related citations](#)

188.

[The nonpsychotropic cannabinoid **cannabidiol** modulates and directly activates alpha-1 and alpha-1-Beta glycine receptor function.](#)

Ahrens J, Demir R, Leuwer M, de la Roche J, Krampfl K, Foadi N, Karst M, Haeseler G.

Pharmacology. 2009;83(4):217-22. Epub 2009 Feb 10. Erratum in: Pharmacology. 2010;86(5-6):344.

PMID:

19204413

[PubMed - indexed for MEDLINE]

[Related citations](#)

189.

[Cannabinoids, endocannabinoids, and related analogs in inflammation.](#)

Burstein SH, Zurier RB.

AAPS J. 2009 Mar;11(1):109-19. Epub 2009 Feb 6. Review.

PMID:

19199042

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



190.

[Delta9-tetrahydrocannabinol and **cannabidiol** modulate mitogen-induced tryptophan degradation and neopterin formation in peripheral blood mononuclear cells in vitro.](#)

Jenny M, Santer E, Pirich E, Schennach H, Fuchs D.

J Neuroimmunol. 2009 Feb 15;207(1-2):75-82. Epub 2009 Jan 22.

PMID:

19167098

[PubMed - indexed for MEDLINE]

[Related citations](#)



191.

[5-HT1A receptors are involved in the **cannabidiol**-induced attenuation of behavioural and cardiovascular responses to acute restraint stress in rats.](#)

Resstel LB, Tavares RF, Lisboa SF, Joca SR, Corrêa FM, Guimarães FS.

Br J Pharmacol. 2009 Jan;156(1):181-8.

PMID:

19133999

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



192.

[Distinct effects of {delta}9-tetrahydrocannabinol and **cannabidiol** on neural activation during emotional processing.](#)

Fusar-Poli P, Crippa JA, Bhattacharyya S, Borgwardt SJ, Allen P, Martin-Santos R, Seal M, Surguladze SA, O'Carroll C, Atakan Z, Zuardi AW, McGuire PK.

Arch Gen Psychiatry. 2009 Jan;66(1):95-105.

PMID:

19124693

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



193.

[Antiaversive effects of cannabinoids: is the periaqueductal gray involved?](#)

Moreira FA, Aguiar DC, Campos AC, Lisboa SF, Terzian AL, Resstel LB, Guimarães FS.

Neural Plast. 2009;2009:625469. Epub 2008 Dec 2.

PMID:

19096514

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



194.

[**Cannabidiol** attenuates cisplatin-induced nephrotoxicity by decreasing oxidative/nitrosative stress, inflammation, and cell death.](#)

Pan H, Mukhopadhyay P, Rajesh M, Patel V, Mukhopadhyay B, Gao B, Haskó G, Pacher P.

J Pharmacol Exp Ther. 2009 Mar;328(3):708-14. Epub 2008 Dec 12.

PMID:

19074681

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



195.

[What is the mechanism whereby cannabis use increases risk of psychosis?](#)

Luzi S, Morrison PD, Powell J, di Forti M, Murray RM.

Neurotox Res. 2008 Oct;14(2-3):105-12. Review.

PMID:

19073418

[PubMed - indexed for MEDLINE]

[Related citations](#)



196.

[Cannabidiol decreases bone resorption by inhibiting RANK/RANKL expression and pro-inflammatory cytokines during experimental periodontitis in rats.](#)

Napimoga MH, Benatti BB, Lima FO, Alves PM, Campos AC, Pena-Dos-Santos DR, Severino FP, Cunha FQ, Guimarães FS.

Int Immunopharmacol. 2009 Feb;9(2):216-22. Epub 2008 Dec 12.

PMID:

19070683

[PubMed - indexed for MEDLINE]

[Related citations](#)



197.

[Neuroprotective effects of cannabidiol in endotoxin-induced uveitis: critical role of p38 MAPK activation.](#)

El-Remessy AB, Tang Y, Zhu G, Matragoon S, Khalifa Y, Liu EK, Liu JY, Hanson E, Mian S, Fatteh N, Liou GI.

Mol Vis. 2008;14:2190-203. Epub 2008 Dec 3.

PMID:

19052649

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



198.

[The nonpsychoactive Cannabis constituent cannabidiol is a wake-inducing agent.](#)

Murillo-Rodríguez E, Millán-Aldaco D, Palomero-Rivero M, Mechoulam R, Drucker-Colín R.

Behav Neurosci. 2008 Dec;122(6):1378-82.

PMID:

19045957

[PubMed - indexed for MEDLINE]

[Related citations](#)



199.

[Phytochemical and genetic analyses of ancient cannabis from Central Asia.](#)

Russo EB, Jiang HE, Li X, Sutton A, Carboni A, del Bianco F, Mandolino G, Potter DJ, Zhao YX, Bera S, Zhang YB, Lü EG, Ferguson DK, Hueber F, Zhao LC, Liu CJ, Wang YF, Li CS.

J Exp Bot. 2008;59(15):4171-82.

PMID:

19036842

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



200.

[Psychopathological and cognitive effects of therapeutic cannabinoids in multiple sclerosis: a double-blind, placebo controlled, crossover study.](#)

Aragona M, Onesti E, Tomassini V, Conte A, Gupta S, Gilio F, Pantano P, Pozzilli C, Inghilleri M.

Clin Neuropharmacol. 2009 Jan-Feb;32(1):41-7.

PMID:

18978501

[PubMed - indexed for MEDLINE]

[Related citations](#)

201.

[Generation of reactive oxygen species during mouse hepatic microsomal metabolism of **cannabidiol** and **cannabidiol** hydroxy-quinone.](#)

Usami N, Yamamoto I, Watanabe K.

Life Sci. 2008 Nov 21;83(21-22):717-24. Epub 2008 Sep 25.

PMID:

18929579

[PubMed - indexed for MEDLINE]

[Related citations](#)



202.

[Cannabidiol in medicine: a review of its therapeutic potential in CNS disorders.](#)

Scuderi C, Filippis DD, Iuvone T, Blasio A, Steardo A, Esposito G.

Phytother Res. 2009 May;23(5):597-602. Review.

PMID:

18844286

[PubMed - indexed for MEDLINE]

[Related citations](#)



203.

[2-Arachidonoylglycerol elicits neuroprotective effects on excitotoxically lesioned dentate gyrus granule cells via abnormal-cannabidiol-sensitive receptors on microglial cells.](#)

Kreutz S, Koch M, Böttger C, Ghadban C, Korf HW, Dehghani F.

Glia. 2009 Feb;57(3):286-94.

PMID:

18837048

[PubMed - indexed for MEDLINE]

[Related citations](#)



204.

[Cannabidiol: from an inactive cannabinoid to a drug with wide spectrum of action.](#)

Zuardi AW.

Rev Bras Psiquiatr. 2008 Sep;30(3):271-80. Review.

PMID:

18833429

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



205.

[The effects of **cannabidiol** and tetrahydrocannabinol on motion-induced emesis in *Suncus murinus*.](#)

Cluny NL, Naylor RJ, Whittle BA, Javid FA.

Basic Clin Pharmacol Toxicol. 2008 Aug;103(2):150-6.

PMID:

18816298

[PubMed - indexed for MEDLINE]

[Related citations](#)



206.

[Virodhamine relaxes the human pulmonary artery through the endothelial cannabinoid receptor and indirectly through a COX product.](#)

Kozłowska H, Baranowska M, Schlicker E, Kozłowski M, Laudański J, Malinowska B.

Br J Pharmacol. 2008 Dec;155(7):1034-42. Epub 2008 Sep 22.

PMID:

18806815

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



207.

[Cannabidiol was ineffective for manic episode of bipolar affective disorder.](#)

Zuardi A, Crippa J, Dursun S, Morais S, Vilela J, Sanches R, Hallak J.

J Psychopharmacol. 2010 Jan;24(1):135-7. Epub 2008 Sep 18.

PMID:

18801823

[PubMed - indexed for MEDLINE]

[Related citations](#)



208.

[Cannabidiol for the treatment of psychosis in Parkinson's disease.](#)

Zuardi AW, Crippa JA, Hallak JE, Pinto JP, Chagas MH, Rodrigues GG, Dursun SM, Tumas V.

J Psychopharmacol. 2009 Nov;23(8):979-83. Epub 2008 Sep 18.

PMID:

18801821

[PubMed - indexed for MEDLINE]

[Related citations](#)



209.

[The role of the endocannabinoid system in Alzheimer's disease: facts and hypotheses.](#)

Bisogno T, Di Marzo V.

Curr Pharm Des. 2008;14(23):2299-3305. Review.

PMID:

18781980

[PubMed - indexed for MEDLINE]

[Related citations](#)



210.

[Cannabinoids in the management of difficult to treat pain.](#)

Russo EB.

Ther Clin Risk Manag. 2008 Feb;4(1):245-59.

PMID:

18728714

[PubMed]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)

211.

[Facilitation of contextual fear memory extinction and anti-angiogenic effects of AM404 and **cannabidiol** in conditioned rats.](#)

Bitencourt RM, Pamplona FA, Takahashi RN.

Eur Neuropsychopharmacol. 2008 Dec;18(12):849-59. Epub 2008 Aug 15.

PMID:

18706790

[PubMed - indexed for MEDLINE]

[Related citations](#)

212.

[Antibacterial cannabinoids from Cannabis sativa: a structure-activity study.](#)

Appendino G, Gibbons S, Giana A, Pagani A, Grassi G, Stavri M, Smith E, Rahman MM.

J Nat Prod. 2008 Aug;71(8):1427-30. Epub 2008 Aug 6.

PMID:

18681481

[PubMed - indexed for MEDLINE]

[Related citations](#)

213.

[Neuroprotective effects of the nonpsychoactive cannabinoid **cannabidiol** in hypoxic-ischemic newborn piglets.](#)

Alvarez FJ, Lafuente H, Rey-Santano MC, Mielgo VE, Gastiasoro E, Rueda M, Pertwee RG, Castillo AI, Romero J, Martínez-Orgado J.

Pediatr Res. 2008 Dec;64(6):653-8.

PMID:

18679164

[PubMed - indexed for MEDLINE]

[Related citations](#)

214.

[\[Pain relief with cannabinoids-- the importance of endocannabinoids and cannabinoids for pain therapy\].](#)

Karst M, Bernateck M.

Anesthesiol Intensivmed Notfallmed Schmerzther. 2008 Jul;43(7-8):522-8. Review. German.

PMID:

18671173

[PubMed - indexed for MEDLINE]

[Related citations](#)



215.

[The profile of immune modulation by **cannabidiol** \(CBD\) involves deregulation of nuclear factor of activated T cells \(NFAT\).](#)

Kaplan BL, Springs AE, Kaminski NE.

Biochem Pharmacol. 2008 Sep 15;76(6):726-37. Epub 2008 Jul 8.

PMID:

18656454

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text Related citations](#)



216.

[Mediation of **cannabidiol** anti-inflammation in the retina by equilibrative nucleoside transporter and A2A adenosine receptor.](#)

Liou GI, Auchampach JA, Hillard CJ, Zhu G, Yousufzai B, Mian S, Khan S, Khalifa Y.

Invest Ophthalmol Vis Sci. 2008 Dec;49(12):5526-31. Epub 2008 Jul 18.

PMID:

18641283

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text Related citations](#)



217.

[Cannabidiol prevents a post-ischemic injury progressively induced by cerebral ischemia via a high-mobility group box1-inhibiting mechanism.](#)

Hayakawa K, Mishima K, Irie K, Hazekawa M, Mishima S, Fujioka M, Orito K, Egashira N, Katsurabayashi S, Takasaki K, Iwasaki K, Fujiwara M.

Neuropharmacology. 2008 Dec;55(8):1280-6. Epub 2008 Jun 27.

PMID:

18634812

[PubMed - indexed for MEDLINE]

[Related citations](#)



218.

[Interaction of plant cannabinoids with the multidrug transporter ABCC1 \(MRP1\).](#)

Holland ML, Allen JD, Arnold JC.

Eur J Pharmacol. 2008 Sep 4;591(1-3):128-31. Epub 2008 Jun 27.

PMID:

18619955

[PubMed - indexed for MEDLINE]

[Related citations](#)



219.

[Antihyperalgesic effect of a Cannabis sativa extract in a rat model of neuropathic pain: mechanisms involved.](#)

Comelli F, Giagnoni G, Bettoni I, Colleoni M, Costa B.

Phytother Res. 2008 Aug;22(8):1017-24.

PMID:

18618522

[PubMed - indexed for MEDLINE]

[Related citations](#)



220.

[Role of the cannabinoid system in pain control and therapeutic implications for the management of acute and chronic pain episodes.](#)

Manzanares J, Julian M, Carrascosa A.

Curr Neuropharmacol. 2006 Jul;4(3):239-57.

PMID:

18615144

[PubMed]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)

221.

[Potential antipsychotic properties of central cannabinoid \(CB\(1\)\) receptor antagonists.](#)

Roser P, Vollenweider FX, Kawohl W.

World J Biol Psychiatry. 2008 Feb 7:1-12. [Epub ahead of print]

PMID:

18609442

[PubMed - as supplied by publisher]

[Related citations](#)



222.

[Cannabinoid-induced effects on the nociceptive system: a neurophysiological study in patients with secondary progressive multiple sclerosis.](#)

Conte A, Bettolo CM, Onesti E, Frasca V, Iacovelli E, Gilio F, Giacomelli E, Gabriele M, Aragona M, Tomassini V, Pantano P, Pozzilli C, Inghilleri M.

Eur J Pain. 2009 May;13(5):472-7. Epub 2008 Jul 7.

PMID:

18603457

[PubMed - indexed for MEDLINE]

[Related citations](#)



223.

[Cannabis and schizophrenia: towards a cannabinoid hypothesis of schizophrenia.](#)

Müller-Vahl KR, Emrich HM.

Expert Rev Neurother. 2008 Jul;8(7):1037-48. Review.

PMID:

18590475

[PubMed - indexed for MEDLINE]

[Related citations](#)



224.

[Neural basis of Delta-9-tetrahydrocannabinol and **cannabidiol**: effects during response inhibition.](#)

Borgwardt SJ, Allen P, Bhattacharyya S, Fusar-Poli P, Crippa JA, Seal ML, Fraccaro V, Atakan Z, Martin-Santos R, O'Carroll C, Rubia K, McGuire PK.

Biol Psychiatry. 2008 Dec 1;64(11):966-73. Epub 2008 Jun 27.

PMID:

18589404

[PubMed - indexed for MEDLINE]

[Related citations](#)



225.

[TRPV2 is activated by **cannabidiol** and mediates CGRP release in cultured rat dorsal root ganglion neurons.](#)

Qin N, Neepker MP, Liu Y, Hutchinson TL, Lubin ML, Flores CM.

J Neurosci. 2008 Jun 11;28(24):6231-8.

PMID:

18550765

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



226.

[Effects of acute oral Delta9-tetrahydrocannabinol and standardized cannabis extract on the auditory P300 event-related potential in healthy volunteers.](#)

Roser P, Juckel G, Rentzsch J, Nadulski T, Gallinat J, Stadelmann AM.

Eur Neuropsychopharmacol. 2008 Aug;18(8):569-77. Epub 2008 Jun 10.

PMID:

18544469

[PubMed - indexed for MEDLINE]

[Related citations](#)



227.

[Current status of cannabis treatment of multiple sclerosis with an illustrative case presentation of a patient with MS, complex vocal tics, paroxysmal dystonia, and marijuana dependence treated with dronabinol.](#)

Deutsch SI, Rosse RB, Connor JM, Burket JA, Murphy ME, Fox FJ.

CNS Spectr. 2008 May;13(5):393-403.

PMID:

18496477

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



228.

[Cannabidiol, extracted from Cannabis sativa, selectively inhibits inflammatory hypermotility in mice.](#)

Capasso R, Borrelli F, Aviello G, Romano B, Scalisi C, Capasso F, Izzo AA.

Br J Pharmacol. 2008 Jul;154(5):1001-8. Epub 2008 May 12.

PMID:

18469842

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



229.

[Involvement of 5HT1A receptors in the anxiolytic-like effects of cannabidiol injected into the dorsolateral periaqueductal gray of rats.](#)

Campos AC, Guimarães FS.

Psychopharmacology (Berl). 2008 Aug;199(2):223-30. Epub 2008 May 1.

PMID:

18446323

[PubMed - indexed for MEDLINE]

[Related citations](#)



230.

[Managing neuropathic pain with Sativex: a review of its pros and cons.](#)

Perez J, Ribera MV.

Expert Opin Pharmacother. 2008 May;9(7):1189-95. Review.

PMID:

18422475

[PubMed - indexed for MEDLINE]

[Related citations](#)



231.

[Inhibition of recombinant human T-type calcium channels by Delta9-tetrahydrocannabinol and **cannabidiol**.](#)

Ross HR, Napier I, Connor M.

J Biol Chem. 2008 Jun 6;283(23):16124-34. Epub 2008 Apr 7.

PMID:

18390906

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



232.

[A comparative study on **cannabidiol**-induced apoptosis in murine thymocytes and EL-4 thymoma cells.](#)

Lee CY, Wey SP, Liao MH, Hsu WL, Wu HY, Jan TR.

Int Immunopharmacol. 2008 May;8(5):732-40. Epub 2008 Feb 14.

PMID:

18387516

[PubMed - indexed for MEDLINE]

[Related citations](#)



233.

[Effects of **cannabidiol** on schizophrenia-like symptoms in people who use cannabis.](#)

Morgan CJ, Curran HV.

Br J Psychiatry. 2008 Apr;192(4):306-7.

PMID:

18378995

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



234.

[Effect of **cannabidiol** on sepsis-induced motility disturbances in mice: involvement of CB receptors and fatty acid amide hydrolase.](#)

de Filippis D, Iuvone T, d'amico A, Esposito G, Steardo L, Herman AG, Pelckmans PA, de Winter BY, de Man JG.

Neurogastroenterol Motil. 2008 Aug;20(8):919-27. Epub 2008 Mar 27.

PMID:

18373655

[PubMed - indexed for MEDLINE]

[Related citations](#)



235.

[Plant-derived cannabinoids modulate the activity of transient receptor potential channels of ankyrin type-1 and melastatin type-8.](#)

De Petrocellis L, Vellani V, Schiano-Moriello A, Marini P, Magherini PC, Orlando P, Di Marzo V.

J Pharmacol Exp Ther. 2008 Jun;325(3):1007-15. Epub 2008 Mar 19.

PMID:

18354058

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

236.

[Smoked marijuana as medicine: not much future.](#)

Kalant H.

Clin Pharmacol Ther. 2008 Apr;83(4):517-9. No abstract available.

PMID:

18349871

[PubMed - indexed for MEDLINE]

[Related citations](#)

237.

[Cannabidiol: a prion therapy for mice?](#)

Dicou E.

J Neurosci Res. 2008 May 1;86(6):1417-8. No abstract available.

PMID:

18338806

[PubMed - indexed for MEDLINE]

[Related citations](#)

238.

[Potency of delta 9-THC and other cannabinoids in cannabis in England in 2005: implications for psychoactivity and pharmacology.](#)

Potter DJ, Clark P, Brown MB.

J Forensic Sci. 2008 Jan;53(1):90-4.

PMID:

18279244

[PubMed]

[Related citations](#)

239.

[Divergent effects of **cannabidiol** on the discriminative stimulus and place conditioning effects of Delta\(9\)-tetrahydrocannabinol.](#)

Vann RE, Gamage TF, Warner JA, Marshall EM, Taylor NL, Martin BR, Wiley JL.

Drug Alcohol Depend. 2008 Apr 1;94(1-3):191-8.

PMID:

18206320

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



240.

[Context-specific reversal of cocaine sensitization by the CB1 cannabinoid receptor antagonist rimonabant.](#)

Gerdeman GL, Schechter JB, French ED.

Neuropsychopharmacology. 2008 Oct;33(11):2747-59. Epub 2007 Dec 5.

PMID:

18059436

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

[Gateways to clinical trials.](#)

Bayes M, Rabasseda X, Prous JR.

Methods Find Exp Clin Pharmacol. 2007 Oct;29(8):547-83.

PMID:

18040531

[PubMed - indexed for MEDLINE]

[Related citations](#)



242.

[Oromucosal delta9-tetrahydrocannabinol/**cannabidiol** for neuropathic pain associated with multiple sclerosis: an uncontrolled, open-label, 2-year extension trial.](#)

Rog DJ, Nurmikko TJ, Young CA.

Clin Ther. 2007 Sep;29(9):2068-79.

PMID:

18035205

[PubMed - indexed for MEDLINE]

[Related citations](#)



243.

[5-Lipoxygenase and anandamide hydrolase \(FAAH\) mediate the antitumor activity of **cannabidiol**, a non-psychoactive cannabinoid.](#)

Massi P, Valenti M, Vaccani A, Gasperi V, Perletti G, Marras E, Fezza F, Maccarrone M, Parolaro D.

J Neurochem. 2008 Feb;104(4):1091-100. Epub 2007 Nov 17.

PMID:

18028339

[PubMed - indexed for MEDLINE]

[Related citations](#)



244.

[Cannabidiol as a novel inhibitor of Id-1 gene expression in aggressive breast cancer cells.](#)

McAllister SD, Christian RT, Horowitz MP, Garcia A, Desprez PY.

Mol Cancer Ther. 2007 Nov;6(11):2921-7.

PMID:

18025276

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



245.

[Cannabidiol potentiates pharmacological effects of Delta\(9\)-tetrahydrocannabinol via CB\(1\) receptor-dependent mechanism.](#)

Hayakawa K, Mishima K, Hazekawa M, Sano K, Irie K, Orito K, Egawa T, Kitamura Y, Uchida N, Nishimura R, Egashira N, Iwasaki K, Fujiwara M.

Brain Res. 2008 Jan 10;1188:157-64. Epub 2007 Oct 12.

PMID:

18021759

[PubMed - indexed for MEDLINE]

[Related citations](#)



246.

[Sativex successfully treats neuropathic pain characterised by allodynia: a randomised, double-blind, placebo-controlled clinical trial.](#)

Nurmikko TJ, Serpell MG, Hoggart B, Toomey PJ, Morlion BJ, Haines D.

Pain. 2007 Dec 15;133(1-3):210-20. Epub 2007 Nov 7.

PMID:

17997224

[PubMed - indexed for MEDLINE]

[Related citations](#)



247.

[The effect of cannabidiol and URB597 on conditioned gaping \(a model of nausea\) elicited by a lithium-paired context in the rat.](#)

Rock EM, Limebeer CL, Mechoulam R, Piomelli D, Parker LA.

Psychopharmacology (Berl). 2008 Feb;196(3):389-95. Epub 2007 Nov 9.

PMID:

17992520

[PubMed - indexed for MEDLINE]

[Related citations](#)



248.

[Prevalence and disposition of drugs of abuse and opioid treatment drugs in oral fluid.](#)

Cone EJ, Clarke J, Tsanaclis L.

J Anal Toxicol. 2007 Oct;31(8):424-33. Erratum in: J Anal Toxicol. 2008 Mar;32(2):199-200.

PMID:

17988455

[PubMed - indexed for MEDLINE]

[Related citations](#)



249.

[Inhibition of human neutrophil chemotaxis by endogenous cannabinoids and phytocannabinoids: evidence for a site distinct from CB1 and CB2.](#)

McHugh D, Tanner C, Mechoulam R, Pertwee RG, Ross RA.

Mol Pharmacol. 2008 Feb;73(2):441-50. Epub 2007 Oct 26.

PMID:

17965195

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



250.

[Cannabidiol-induced apoptosis in primary lymphocytes is associated with oxidative stress-dependent activation of caspase-8.](#)

Wu HY, Chu RM, Wang CC, Lee CY, Lin SH, Jan TR.

Toxicol Appl Pharmacol. 2008 Feb 1;226(3):260-70. Epub 2007 Sep 20.

PMID:

17950393

[PubMed - indexed for MEDLINE]

[Related citations](#)



251.

[Identification of the vasodilatory endothelial cannabinoid receptor in the human pulmonary artery.](#)

Kozłowska H, Baranowska M, Schlicker E, Kozłowski M, Laudański J, Malinowska B.

J Hypertens. 2007 Nov;25(11):2240-8.

PMID:

17921818

[PubMed - indexed for MEDLINE]

[Related citations](#)



252.

[The multidrug transporter ABCG2 \(BCRP\) is inhibited by plant-derived cannabinoids.](#)

Holland ML, Lau DT, Allen JD, Arnold JC.

Br J Pharmacol. 2007 Nov;152(5):815-24. Epub 2007 Oct 1.

PMID:

17906686

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



253.

[Vascular pharmacology of a novel cannabinoid-like compound, 3-\(5-dimethylcarbamoyl-pent-1-enyl\)-N-\(2-hydroxy-1-methyl-ethyl\)benzamide \(VSN16\) in the rat.](#)

Hoi PM, Visintin C, Okuyama M, Gardiner SM, Kaup SS, Bennett T, Baker D, Selwood DL, Hiley CR.

Br J Pharmacol. 2007 Nov;152(5):751-64. Epub 2007 Sep 24.

PMID:

17891160

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



254.

[Cannabidiol, a nonpsychoactive Cannabis constituent, protects against myocardial ischemic reperfusion injury.](#)

Durst R, Danenberg H, Gallily R, Mechoulam R, Meir K, Grad E, Beeri R, Pugatsch T, Tarsish E, Lotan C.

Am J Physiol Heart Circ Physiol. 2007 Dec;293(6):H3602-7. Epub 2007 Sep 21.

PMID:

17890433

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



255.

[Acute effects of Delta9-tetrahydrocannabinol and standardized cannabis extract on the auditory evoked mismatch negativity.](#)

Juckel G, Roser P, Nadulski T, Stadelmann AM, Gallinat J.

Schizophr Res. 2007 Dec;97(1-3):109-17. Epub 2007 Sep 19.

PMID:

17884351

[PubMed - indexed for MEDLINE]

[Related citations](#)



256.

[The orphan receptor GPR55 is a novel cannabinoid receptor.](#)

Ryberg E, Larsson N, Sjögren S, Hjorth S, Hermansson NO, Leonova J, Elebring T, Nilsson K, Drmota T, Greasley PJ.

Br J Pharmacol. 2007 Dec;152(7):1092-101. Epub 2007 Sep 17.

PMID:

17876302

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



257.

[GPR55: a new member of the cannabinoid receptor clan?](#)

Pertwee RG.

Br J Pharmacol. 2007 Dec;152(7):984-6. Epub 2007 Sep 17. Review.

PMID:

17876300

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



258.

[Symptomatic treatment of multiple sclerosis using cannabinoids: recent advances.](#)

Smith PF.

Expert Rev Neurother. 2007 Sep;7(9):1157-63. Review.

PMID:

17868014

[PubMed - indexed for MEDLINE]

[Related citations](#)



259.

[The diverse CB1 and CB2 receptor pharmacology of three plant cannabinoids: delta9-tetrahydrocannabinol, **cannabidiol** and delta9-tetrahydrocannabivarin.](#)

Pertwee RG.

Br J Pharmacol. 2008 Jan;153(2):199-215. Epub 2007 Sep 10. Review.

PMID:

17828291

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



260.

[Nonpsychoactive **cannabidiol** prevents prion accumulation and protects neurons against prion toxicity.](#)

Dirikoc S, Priola SA, Marella M, Zsürger N, Chabry J.

J Neurosci. 2007 Sep 5;27(36):9537-44.

PMID:

17804615

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

261.

[Cannabidiol arrests onset of autoimmune diabetes in NOD mice.](#)

Weiss L, Zeira M, Reich S, Slavin S, Raz I, Mechoulam R, Gallily R.

Neuropharmacology. 2008 Jan;54(1):244-9. Epub 2007 Jul 17.

PMID:

17714746

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



262.

[HU-331: a cannabinoid quinone, with uncommon cytotoxic properties and low toxicity.](#)

Peters M, Kogan NM.

Expert Opin Investig Drugs. 2007 Sep;16(9):1405-13. Review.

PMID:

17714026

[PubMed - indexed for MEDLINE]

[Related citations](#)



263.

[Therapeutic potential of cannabinoid-based drugs.](#)

Klein TW, Newton CA.

Adv Exp Med Biol. 2007;601:395-413. Review.

PMID:

17713029

[PubMed - indexed for MEDLINE]

[Related citations](#)



264.

[The toxicology of cannabis and cannabis prohibition.](#)

Grotenhermen F.

Chem Biodivers. 2007 Aug;4(8):1744-69. Review.

PMID:

17712818

[PubMed - indexed for MEDLINE]

[Related citations](#)



265.

[Cannabis, pain, and sleep: lessons from therapeutic clinical trials of Sativex, a cannabis-based medicine.](#)

Russo EB, Guy GW, Robson PJ.

Chem Biodivers. 2007 Aug;4(8):1729-43. Review.

PMID:

17712817

[PubMed - indexed for MEDLINE]

[Related citations](#)



266.

[Cannabidiol--recent advances.](#)

Mechoulam R, Peters M, Murillo-Rodriguez E, Hanus LO.

Chem Biodivers. 2007 Aug;4(8):1678-92. Review.

PMID:

17712814

[PubMed - indexed for MEDLINE]

[Related citations](#)



267.

[The novel endocannabinoid receptor GPR55 is activated by atypical cannabinoids but does not mediate their vasodilator effects.](#)

Johns DG, Behm DJ, Walker DJ, Ao Z, Shapland EM, Daniels DA, Riddick M, Dowell S, Staton PC, Green P, Shabon U, Bao W, Aiyar N, Yue TL, Brown AJ, Morrison AD, Douglas SA.

Br J Pharmacol. 2007 Nov;152(5):825-31. Epub 2007 Aug 20.

PMID:

17704827

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



268.

[GPR55 and the vascular receptors for cannabinoids.](#)

Hiley CR, Kaup SS.

Br J Pharmacol. 2007 Nov;152(5):559-61. Epub 2007 Aug 20.

PMID:

17704825

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



269.

[Recent advances in Cannabis sativa research: biosynthetic studies and its potential in biotechnology.](#)

Sirikantaramas S, Taura F, Morimoto S, Shoyama Y.

Curr Pharm Biotechnol. 2007 Aug;8(4):237-43. Review.

PMID:

17691992

[PubMed - indexed for MEDLINE]

[Related citations](#)



270.

[Cannabis; adverse effects from an oromucosal spray.](#)

Scully C.

Br Dent J. 2007 Sep 22;203(6):E12; discussion 336-7. Epub 2007 Aug 17.

PMID:

17703180

[PubMed - indexed for MEDLINE]

[Related citations](#)



271.

[Cannabidiol reduced the striatal atrophy caused 3-nitropropionic acid in vivo by mechanisms independent of the activation of cannabinoid, vanilloid TRPV1 and adenosine A2A receptors.](#)

Sagredo O, Ramos JA, Decio A, Mechoulam R, Fernández-Ruiz J.

Eur J Neurosci. 2007 Aug;26(4):843-51. Epub 2007 Aug 2.

PMID:

17672854

[PubMed - indexed for MEDLINE]

[Related citations](#)



272.

[Meta-analysis of cannabinoid ligand binding affinity and receptor distribution: interspecies differences.](#)

McPartland JM, Glass M, Pertwee RG.

Br J Pharmacol. 2007 Nov;152(5):583-93. Epub 2007 Jul 16. Review.

PMID:

17641667

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



273.

[Cannabidiol in vivo blunts beta-amyloid induced neuroinflammation by suppressing IL-1beta and iNOS expression.](#)

Esposito G, Scuderi C, Savani C, Steardo L Jr, De Filippis D, Cottone P, Iuvone T, Cuomo V, Steardo L.

Br J Pharmacol. 2007 Aug;151(8):1272-9. Epub 2007 Jun 25.

PMID:

17592514

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



274.

[The application of 3D-QSAR studies for novel cannabinoid ligands substituted at the C1' position of the alkyl side chain on the structural requirements for binding to cannabinoid receptors CB1 and CB2.](#)

Durdagi S, Kapou A, Kourouli T, Andreou T, Nikas SP, Nahmias VR, Papahatjis DP, Papadopoulos MG, Mavromoustakos T.

J Med Chem. 2007 Jun 14;50(12):2875-85. Epub 2007 May 24.

PMID:

17521177

[PubMed - indexed for MEDLINE]

[Related citations](#)



275.

[Gateways to clinical trials.](#)

Bayes M, Rabasseda X, Prous JR.

Methods Find Exp Clin Pharmacol. 2007 Apr;29(3):231-45.

PMID:

17520107

[PubMed - indexed for MEDLINE]

[Related citations](#)



276.

[Update on pharmacotherapy guidelines for treatment of neuropathic pain.](#)

Wallace JM.

Curr Pain Headache Rep. 2007 Jun;11(3):208-14. Review.

PMID:

17504648

[PubMed - indexed for MEDLINE]

[Related citations](#)



277.

[A cannabinoid anticancer quinone, HU-331, is more potent and less cardiotoxic than doxorubicin: a comparative in vivo study.](#)

Kogan NM, Schlesinger M, Peters M, Marincheva G, Beeri R, Mechoulam R.

J Pharmacol Exp Ther. 2007 Aug;322(2):646-53. Epub 2007 May 3.

PMID:

17478614

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



278.

[Suppressive effects of **cannabidiol** on antigen-specific antibody production and functional activity of splenocytes in ovalbumin-sensitized BALB/c mice.](#)

Jan TR, Su ST, Wu HY, Liao MH.

Int Immunopharmacol. 2007 Jun;7(6):773-80. Epub 2007 Feb 15.

PMID:

17466911

[PubMed - indexed for MEDLINE]

[Related citations](#)



279.

[Oleamide: a fatty acid amide signaling molecule in the cardiovascular system?](#)

Hiley CR, Hoi PM.

Cardiovasc Drug Rev. 2007 Spring;25(1):46-60. Review.

PMID:

17445087

[PubMed - indexed for MEDLINE]

[Related citations](#)



280.

[Gateways to clinical trials.](#)

Bayes M.

Methods Find Exp Clin Pharmacol. 2007 Mar;29(2):153-73.

PMID:

17440629

[PubMed - indexed for MEDLINE]

[Related citations](#)

281.

[Delayed treatment with cannabidiol has a cerebroprotective action via a cannabinoid receptor-independent myeloperoxidase-inhibiting mechanism.](#)

Hayakawa K, Mishima K, Nozako M, Hazekawa M, Irie K, Fujioka M, Orito K, Abe K, Hasebe N, Egashira N, Iwasaki K, Fujiwara M.

J Neurochem. 2007 Sep;102(5):1488-96. Epub 2007 Apr 16.

PMID:

17437545

[PubMed - indexed for MEDLINE]

[Related citations](#)



282.

[Interactions of cannabidiol with endocannabinoid signalling in hippocampal tissue.](#)

Ryan D, Drysdale AJ, Pertwee RG, Platt B.

Eur J Neurosci. 2007 Apr;25(7):2093-102.

PMID:

17419758

[PubMed - indexed for MEDLINE]

[Related citations](#)



283.

[A simple and reliable procedure for the determination of psychoactive drugs in oral fluid by gas chromatography-mass spectrometry.](#)

Pujadas M, Pichini S, Civit E, Santamariña E, Perez K, de la Torre R.

J Pharm Biomed Anal. 2007 Jun 28;44(2):594-601. Epub 2007 Feb 23.

PMID:

17395417

[PubMed - indexed for MEDLINE]

[Related citations](#)



284.

[Cannabidiol attenuates high glucose-induced endothelial cell inflammatory response and barrier disruption.](#)

Rajesh M, Mukhopadhyay P, Bátkai S, Haskó G, Liaudet L, Drel VR, Obrosova IG, Pacher P.

Am J Physiol Heart Circ Physiol. 2007 Jul;293(1):H610-9. Epub 2007 Mar 23.

PMID:

17384130

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text Related citations](#)



285.

[Anandamide-mediated CB1/CB2 cannabinoid receptor--independent nitric oxide production in rabbit aortic endothelial cells.](#)

McCollum L, Howlett AC, Mukhopadhyay S.

J Pharmacol Exp Ther. 2007 Jun;321(3):930-7. Epub 2007 Mar 22.

PMID:

17379772

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



286.

[Randomized controlled trial of cannabis-based medicine in spasticity caused by multiple sclerosis.](#)

Collin C, Davies P, Mutiboko IK, Ratcliffe S; Sativex Spasticity in MS Study Group.

Eur J Neurol. 2007 Mar;14(3):290-6.

PMID:

17355549

[PubMed - indexed for MEDLINE]

[Related citations](#)



287.

[Cannabidiol, unlike synthetic cannabinoids, triggers activation of RBL-2H3 mast cells.](#)

Giudice ED, Rinaldi L, Passarotto M, Facchinetti F, D'Arrigo A, Guiotto A, Carbonare MD, Battistin L, Leon A.

J Leukoc Biol. 2007 Jun;81(6):1512-22. Epub 2007 Mar 5.

PMID:

17339608

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



288.

[Simultaneous identification of 2-carboxy-tetrahydrocannabinol, tetrahydrocannabinol, cannabinol and cannabidiol in oral fluid.](#)

Moore C, Rana S, Coulter C.

J Chromatogr B Analyt Technol Biomed Life Sci. 2007 Jun 1;852(1-2):459-64. Epub 2007 Feb 15.

PMID:

17321807

[PubMed - indexed for MEDLINE]

[Related citations](#)



289.

[Repeated treatment with cannabidiol but not Delta9-tetrahydrocannabinol has a neuroprotective effect without the development of tolerance.](#)

Hayakawa K, Mishima K, Nozako M, Ogata A, Hazekawa M, Liu AX, Fujioka M, Abe K, Hasebe N, Egashira N, Iwasaki K, Fujiwara M.

Neuropharmacology. 2007 Mar;52(4):1079-87. Epub 2007 Feb 21.

PMID:

17320118

[PubMed - indexed for MEDLINE]

[Related citations](#)



290.

[Headspace solid-phase microextraction of cannabinoids in human head hair samples.](#)

Dizioli Rodrigues de Oliveira C, Yonamine M, Lucia de Moraes Moreau R.

J Sep Sci. 2007 Jan;30(1):128-34.

PMID:

17313152

[PubMed - indexed for MEDLINE]

[Related citations](#)



291.

[2-Arachidonylglycerol ether and abnormal **cannabidiol**-induced vascular smooth muscle relaxation in rabbit pulmonary arteries via receptor-pertussis toxin sensitive G proteins-ERK1/2 signaling.](#)

Su JY, Vo AC.

Eur J Pharmacol. 2007 Mar 22;559(2-3):189-95. Epub 2007 Jan 16.

PMID:

17292352

[PubMed - indexed for MEDLINE]

[Related citations](#)



292.

[Pharmacological characterization of receptor types mediating the dilator action of anandamide on blood vessels of the rat knee joint.](#)

Lam FF, Luk PW, Ng ES.

Life Sci. 2007 Mar 27;80(16):1495-502. Epub 2007 Jan 18.

PMID:

17275857

[PubMed - indexed for MEDLINE]

[Related citations](#)



293.

[Meta-analysis of cannabis based treatments for neuropathic and multiple sclerosis-related pain.](#)

Iskedjian M, Bereza B, Gordon A, Piwko C, Einarson TR.

Curr Med Res Opin. 2007 Jan;23(1):17-24.

PMID:

17257464

[PubMed - indexed for MEDLINE]

[Related citations](#)



294.

[Cannabidiol displays unexpectedly high potency as an antagonist of CB1 and CB2 receptor agonists in vitro.](#)

Thomas A, Baillie GL, Phillips AM, Razdan RK, Ross RA, Pertwee RG.

Br J Pharmacol. 2007 Mar;150(5):613-23. Epub 2007 Jan 22.

PMID:

17245363

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



295.

[Dorsolateral prefrontal cortex N-acetylaspartate/total creatine \(NAA/tCr\) loss in male recreational cannabis users.](#)

Hermann D, Sartorius A, Welzel H, Walter S, Skopp G, Ende G, Mann K.

Biol Psychiatry. 2007 Jun 1;61(11):1281-9. Epub 2007 Jan 17.

PMID:

17239356

[PubMed - indexed for MEDLINE]

[Related citations](#)



296.

[Heterogeneity of human adipose blood flow.](#)

Levitt DG.

BMC Clin Pharmacol. 2007 Jan 20;7:1.

PMID:

17239252

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



297.

[HU-331, a novel cannabinoid-based anticancer topoisomerase II inhibitor.](#)

Kogan NM, Schlesinger M, Priel E, Rabinowitz R, Berenshtein E, Chevion M, Mechoulam R.

Mol Cancer Ther. 2007 Jan;6(1):173-83.

PMID:

17237277

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



298.

[Development of a LC/MS/MS method for the analysis of cannabinoids in human EDTA-plasma and urine after small doses of Cannabis sativa extracts.](#)

Grauwiler SB, Scholer A, Drewe J.

J Chromatogr B Analyt Technol Biomed Life Sci. 2007 May 1;850(1-2):515-22. Epub 2007 Jan 11.

PMID:

17236827

[PubMed - indexed for MEDLINE]

[Related citations](#)



299.

[Latest pain relief a combination of new and old.](#)

D'Arcy Y.

Nurse Pract. 2007 Jan;32(1):11-2. Review. No abstract available.

PMID:

17198336

[PubMed - indexed for MEDLINE]

[Related citations](#)



300.

[New pain management options: drugs.](#)

D'Arcy Y.

Nursing. 2007 Jan;37(1):18-9. No abstract available.

PMID:

17198138

[PubMed - indexed for MEDLINE]

[Related citations](#)

301.

[Evaluation of the neuroprotective effect of cannabinoids in a rat model of Parkinson's disease: importance of antioxidant and cannabinoid receptor-independent properties.](#)

García-Arencibia M, González S, de Lago E, Ramos JA, Mechoulam R, Fernández-Ruiz J.

Brain Res. 2007 Feb 23;1134(1):162-70. Epub 2006 Dec 28.

PMID:

17196181

[PubMed - indexed for MEDLINE]

[Related citations](#)



302.

[Cannabinoids inhibit human keratinocyte proliferation through a non-CB1/CB2 mechanism and have a potential therapeutic value in the treatment of psoriasis.](#)

Wilkinson JD, Williamson EM.

J Dermatol Sci. 2007 Feb;45(2):87-92. Epub 2006 Dec 6.

PMID:

17157480

[PubMed - indexed for MEDLINE]

[Related citations](#)



303.

[The non-psychoactive cannabis constituent **cannabidiol** is an orally effective therapeutic agent in rat chronic inflammatory and neuropathic pain.](#)

Costa B, Trovato AE, Comelli F, Giagnoni G, Colleoni M.

Eur J Pharmacol. 2007 Feb 5;556(1-3):75-83. Epub 2006 Nov 10.

PMID:

17157290

[PubMed - indexed for MEDLINE]

[Related citations](#)



304.

[Potential therapeutical effects of **cannabidiol** in children with pharmaco-resistant epilepsy.](#)

Cortesi M, Fusar-Poli P.

Med Hypotheses. 2007;68(4):920-1. Epub 2006 Nov 16. No abstract available.

PMID:

17112679

[PubMed - indexed for MEDLINE]

[Related citations](#)



305.

[Deposition of cannabinoids in hair after long-term use of cannabis.](#)

Skopp G, Strohbeck-Kuehner P, Mann K, Hermann D.

Forensic Sci Int. 2007 Jul 20;170(1):46-50. Epub 2006 Nov 13.

PMID:

17098389

[PubMed - indexed for MEDLINE]

[Related citations](#)



306.

[Precipitation complexation method produces **cannabidiol**/beta-cyclodextrin inclusion complex suitable for sublingual administration of **cannabidiol**.](#)

Mannila J, Järvinen T, Järvinen K, Jarho P.

J Pharm Sci. 2007 Feb;96(2):312-9.

PMID:

17051591

[PubMed - indexed for MEDLINE]

[Related citations](#)



307.

[Differential effects of cannabis extracts and pure plant cannabinoids on hippocampal neurones and glia.](#)

Ryan D, Drysdale AJ, Pertwee RG, Platt B.

Neurosci Lett. 2006 Nov 20;408(3):236-41. Epub 2006 Sep 25.

PMID:

16997463

[PubMed - indexed for MEDLINE]

[Related citations](#)



308.

[Effect of sublingual application of cannabinoids on intraocular pressure: a pilot study.](#)

Tomida I, Azuara-Blanco A, House H, Flint M, Pertwee RG, Robson PJ.

J Glaucoma. 2006 Oct;15(5):349-53.

PMID:

16988594

[PubMed - indexed for MEDLINE]

[Related citations](#)



309.

[Simple and sensitive determination of Delta\(9\)-tetrahydrocannabinol, **cannabidiol** and cannabitol in hair by combined silylation, headspace solid phase microextraction and gas chromatography-mass spectrometry.](#)

Nadulski T, Pragst F.

J Chromatogr B Analyt Technol Biomed Life Sci. 2007 Feb 1;846(1-2):78-85. Epub 2006 Sep 12.

PMID:

16971195

[PubMed - indexed for MEDLINE]

[Related citations](#)



310.

[Combined cannabinoid therapy via an oromucosal spray.](#)

Perez J.

Drugs Today (Barc). 2006 Aug;42(8):495-503. Review.

PMID:

16969427

[PubMed - indexed for MEDLINE]

[Related citations](#)



311.

[The synthetic cannabinoid WIN 55,212-2 increases COX-2 expression and PGE2 release in murine brain-derived endothelial cells following Theiler's virus infection.](#)

Mestre L, Correa F, Docagne F, Clemente D, Guaza C.

Biochem Pharmacol. 2006 Sep 28;72(7):869-80. Epub 2006 Aug 17.

PMID:

16914119

[PubMed - indexed for MEDLINE]

[Related citations](#)



312.

[The non-psychoactive **cannabidiol** triggers caspase activation and oxidative stress in human glioma cells.](#)

Massi P, Vaccani A, Bianchessi S, Costa B, Macchi P, Parolaro D.

Cell Mol Life Sci. 2006 Sep;63(17):2057-66.

PMID:

16909207

[PubMed - indexed for MEDLINE]

[Related citations](#)



313.

[Gateways to clinical trials.](#)

Bayes M, Rabasseda X, Prous JR.

Methods Find Exp Clin Pharmacol. 2006 Jul-Aug;28(6):379-412.

PMID:

16894408

[PubMed - indexed for MEDLINE]

[Related citations](#)



314.

[Anxiolytic-like effect of **cannabidiol** in the rat Vogel conflict test.](#)

Moreira FA, Aguiar DC, Guimarães FS.

Prog Neuropsychopharmacol Biol Psychiatry. 2006 Dec 30;30(8):1466-71. Epub 2006 Jul 31.

PMID:

16876926

[PubMed - indexed for MEDLINE]

[Related citations](#)



315.

[Comparison of orally administered cannabis extract and delta-9-tetrahydrocannabinol in treating patients with cancer-related anorexia-cachexia syndrome: a multicenter, phase III, randomized, double-blind, placebo-controlled clinical trial from the Cannabis-In-Cachexia-Study-Group.](#)

Cannabis-In-Cachexia-Study-Group, Strasser F, Luftner D, Possinger K, Ernst G, Ruhstaller T, Meissner W, Ko YD, Schnelle M, Reif M, Cerny T.

J Clin Oncol. 2006 Jul 20;24(21):3394-400.

PMID:

16849753

[PubMed - indexed for MEDLINE]

[Related citations](#)



316.

[Determination of cannabinoids in biological samples using a new solid phase micro-extraction membrane and liquid chromatography-mass spectrometry.](#)

Yang R, Xie W.

Forensic Sci Int. 2006 Oct 16;162(1-3):135-9. Epub 2006 Jul 17.

PMID:

16844333

[PubMed - indexed for MEDLINE]

[Related citations](#)



317.

[Cannabidiol, a constituent of Cannabis sativa, modulates sleep in rats.](#)

Murillo-Rodríguez E, Millán-Aldaco D, Palomero-Rivero M, Mechoulam R, Drucker-Colín R.

FEBS Lett. 2006 Aug 7;580(18):4337-45. Epub 2006 Jul 10.

PMID:

16844117

[PubMed - indexed for MEDLINE]

[Related citations](#)



318.

[Cannabinoids attenuate norepinephrine-induced melatonin biosynthesis in the rat pineal gland by reducing arylalkylamine N-acetyltransferase activity without involvement of cannabinoid receptors.](#)

Koch M, Dehghani F, Habazettl I, Schomerus C, Korf HW.

J Neurochem. 2006 Jul;98(1):267-78.

PMID:

16805813

[PubMed - indexed for MEDLINE]

[Related citations](#)



319.

[Effects of **cannabidiol** and diazepam on behavioral and cardiovascular responses induced by contextual conditioned fear in rats.](#)

Resstel LB, Joca SR, Moreira FA, Corrêa FM, Guimarães FS.

Behav Brain Res. 2006 Sep 25;172(2):294-8. Epub 2006 Jun 15.

PMID:

16780966

[PubMed - indexed for MEDLINE]

[Related citations](#)



320.

[Synthesis of cannabidiols via alkenylation of cyclohexenyl monoacetate.](#)

Kobayashi Y, Takeuchi A, Wang YG.

Org Lett. 2006 Jun 22;8(13):2699-702.

PMID:

16774235

[PubMed - indexed for MEDLINE]

[Related citations](#)

[**Cannabidiol**-induced apoptosis in human leukemia cells: A novel role of **cannabidiol** in the regulation of p22phox and Nox4 expression.](#)

McKallip RJ, Jia W, Schlomer J, Warren JW, Nagarkatti PS, Nagarkatti M.

Mol Pharmacol. 2006 Sep;70(3):897-908. Epub 2006 Jun 5.

PMID:

16754784

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



322.

[Antitumor activity of plant cannabinoids with emphasis on the effect of **cannabidiol** on human breast carcinoma.](#)

Ligresti A, Moriello AS, Starowicz K, Matias I, Pisanti S, De Petrocellis L, Laezza C, Portella G, Bifulco M, Di Marzo V.

J Pharmacol Exp Ther. 2006 Sep;318(3):1375-87. Epub 2006 May 25.

PMID:

16728591

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



323.

[Cannabidiol lowers incidence of diabetes in non-obese diabetic mice.](#)

Weiss L, Zeira M, Reich S, Har-Noy M, Mechoulam R, Slavin S, Gallily R.

Autoimmunity. 2006 Mar;39(2):143-51.

PMID:

16698671

[PubMed - indexed for MEDLINE]

[Related citations](#)



324.

[Inhibition of an equilibrative nucleoside transporter by **cannabidiol**: a mechanism of cannabinoid immunosuppression.](#)

Carrier EJ, Auchampach JA, Hillard CJ.

Proc Natl Acad Sci U S A. 2006 May 16;103(20):7895-900. Epub 2006 May 3.

PMID:

16672367

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



325.

[The use of a cannabis-based medicine \(Sativex\) in the treatment of pain caused by rheumatoid arthritis.](#)

Wright S, Ware M, Guy G.

Rheumatology (Oxford). 2006 Jun;45(6):781; author reply 781-2. Epub 2006 Apr 18. No abstract available.

PMID:

16621924

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



326.

[Cannabidiol, a Cannabis sativa constituent, as an antipsychotic drug.](#)

Zuardi AW, Crippa JA, Hallak JE, Moreira FA, Guimarães FS.

Braz J Med Biol Res. 2006 Apr;39(4):421-9. Epub 2006 Apr 3. Review.

PMID:

16612464

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



327.

[Pharmacokinetics and metabolism of the plant cannabinoids, delta9-tetrahydrocannabinol, cannabidiol and cannabinol.](#)

Huestis MA.

Handb Exp Pharmacol. 2005;(168):657-90. Review.

PMID:

16596792

[PubMed - indexed for MEDLINE]

[Related citations](#)



328.

[Pharmacological actions of cannabinoids.](#)

Pertwee RG.

Handb Exp Pharmacol. 2005;(168):1-51. Review.

PMID:

16596770

[PubMed - indexed for MEDLINE]

[Related citations](#)



329.

[Interactions between THC and cannabidiol in mouse models of cannabinoid activity.](#)

Varvel SA, Wiley JL, Yang R, Bridgen DT, Long K, Lichtman AH, Martin BR.

Psychopharmacology (Berl). 2006 Jun;186(2):226-34. Epub 2006 Mar 30.

PMID:

16572263

[PubMed - indexed for MEDLINE]

[Related citations](#)



330.

[A cannabinoid quinone inhibits angiogenesis by targeting vascular endothelial cells.](#)

Kogan NM, Blázquez C, Alvarez L, Gallily R, Schlesinger M, Guzmán M, Mechoulam R.

Mol Pharmacol. 2006 Jul;70(1):51-9. Epub 2006 Mar 29.

PMID:

16571653

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



331.

[Sativex: clinical efficacy and tolerability in the treatment of symptoms of multiple sclerosis and neuropathic pain.](#)

Barnes MP.

Expert Opin Pharmacother. 2006 Apr;7(5):607-15. Review.

PMID:

16553576

[PubMed - indexed for MEDLINE]

[Related citations](#)



332.

[The effect of cannabis on urge incontinence in patients with multiple sclerosis: a multicentre, randomised placebo-controlled trial \(CAMS-LUTS\).](#)

Freeman RM, Adekanmi O, Waterfield MR, Waterfield AE, Wright D, Zajicek J.

Int Urogynecol J Pelvic Floor Dysfunct. 2006 Nov;17(6):636-41. Epub 2006 Mar 22.

PMID:

16552618

[PubMed - indexed for MEDLINE]

[Related citations](#)



333.

[Gateways to clinical trials.](#)

Bayés M, Rabasseda X, Prous JR.

Methods Find Exp Clin Pharmacol. 2006 Jan-Feb;28(1):31-63.

PMID:

16541195

[PubMed - indexed for MEDLINE]

[Related citations](#)



334.

[The bioassay of cannabinoids using the mouse isolated vas deferens.](#)

Thomas A, Pertwee RG.

Methods Mol Med. 2006;123:191-207.

PMID:

16506409

[PubMed - indexed for MEDLINE]

[Related citations](#)



335.

[Cannabidiol inhibits inducible nitric oxide synthase protein expression and nitric oxide production in beta-amyloid stimulated PC12 neurons through p38 MAP kinase and NF-kappaB involvement.](#)

Esposito G, De Filippis D, Maiuri MC, De Stefano D, Carnuccio R, Iuvone T.

Neurosci Lett. 2006 May 15;399(1-2):91-5. Epub 2006 Feb 21.

PMID:

16490313

[PubMed - indexed for MEDLINE]

[Related citations](#)



336.

[Cannabidiol is an allosteric modulator at mu- and delta-opioid receptors.](#)

Kathmann M, Flau K, Redmer A, Tränkle C, Schlicker E.

Naunyn Schmiedebergs Arch Pharmacol. 2006 Feb;372(5):354-61. Epub 2006 Feb 18.

PMID:

16489449

[PubMed - indexed for MEDLINE]

[Related citations](#)



337.

[N-arachidonoyl L-serine, an endocannabinoid-like brain constituent with vasodilatory properties.](#)

Milman G, Maor Y, Abu-Lafi S, Horowitz M, Gallily R, Batkai S, Mo FM, Offertaler L, Pacher P, Kunos G, Mechoulam R.

Proc Natl Acad Sci U S A. 2006 Feb 14;103(7):2428-33. Epub 2006 Feb 7.

PMID:

16467152

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)

338.

[The effects of cannabinoids on P-glycoprotein transport and expression in multidrug resistant cells.](#)

Holland ML, Panetta JA, Hoskins JM, Bebawy M, Roufogalis BD, Allen JD, Arnold JC.

Biochem Pharmacol. 2006 Apr 14;71(8):1146-54. Epub 2006 Feb 2.

PMID:

16458258

[PubMed - indexed for MEDLINE]

[Related citations](#)

339.

[New cannabidiol derivatives: synthesis, binding to cannabinoid receptor, and evaluation of their antiinflammatory activity.](#)

Ben-Shabat S, Hanus LO, Katzavian G, Gallily R.

J Med Chem. 2006 Feb 9;49(3):1113-7.

PMID:

16451075

[PubMed - indexed for MEDLINE]

[Related citations](#)

340.

[Cannabinoid analgesia as a potential new therapeutic option in the treatment of chronic pain.](#)

Burns TL, Ineck JR.

Ann Pharmacother. 2006 Feb;40(2):251-60. Epub 2006 Jan 31. Review.

PMID:

16449552

[PubMed - indexed for MEDLINE]

[Related citations](#)



341.

[Characterization of P-glycoprotein inhibition by major cannabinoids from marijuana.](#)

Zhu HJ, Wang JS, Markowitz JS, Donovan JL, Gibson BB, Gefroh HA, Devane CL.

J Pharmacol Exp Ther. 2006 May;317(2):850-7. Epub 2006 Jan 26.

PMID:

16439618

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



342.

[Vasorelaxant effects of oleamide in rat small mesenteric artery indicate action at a novel cannabinoid receptor.](#)

Hoi PM, Hiley CR.

Br J Pharmacol. 2006 Mar;147(5):560-8.

PMID:

16415907

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



343.

[Scopolamine and MK801-induced working memory deficits in rats are not reversed by CBD-rich cannabis extracts.](#)

Fadda P, Robinson L, Fratta W, Pertwee RG, Riedel G.

Behav Brain Res. 2006 Apr 3;168(2):307-11. Epub 2006 Jan 6.

PMID:

16406104

[PubMed - indexed for MEDLINE]

[Related citations](#)



344.

[Cannabidiol monotherapy for treatment-resistant schizophrenia.](#)

Zuardi AW, Hallak JE, Dursun SM, Morais SL, Sanches RF, Musty RE, Crippa JA.

J Psychopharmacol. 2006 Sep;20(5):683-6. Epub 2006 Jan 9.

PMID:

16401651

[PubMed - indexed for MEDLINE]

[Related citations](#)



345.

[Neuroprotective and blood-retinal barrier-preserving effects of cannabidiol in experimental diabetes.](#)

El-Remessy AB, Al-Shabrawey M, Khalifa Y, Tsai NT, Caldwell RB, Liou GI.

Am J Pathol. 2006 Jan;168(1):235-44.

PMID:

16400026

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



346.

[Antiestrogenic effects of marijuana smoke condensate and cannabinoid compounds.](#)

Lee SY, Oh SM, Lee SK, Chung KH.

Arch Pharm Res. 2005 Dec;28(12):1365-75.

PMID:

16392670

[PubMed - indexed for MEDLINE]

[Related citations](#)



347.

[The marijuana component **cannabidiol** inhibits beta-amyloid-induced tau protein hyperphosphorylation through Wnt/beta-catenin pathway rescue in PC12 cells.](#)

Esposito G, De Filippis D, Carnuccio R, Izzo AA, Iuvone T.

J Mol Med (Berl). 2006 Mar;84(3):253-8. Epub 2005 Dec 31.

PMID:

16389547

[PubMed - indexed for MEDLINE]

[Related citations](#)



348.

[Cannabidiol-induced intracellular Ca²⁺ elevations in hippocampal cells.](#)

Drysdale AJ, Ryan D, Pertwee RG, Platt B.

Neuropharmacology. 2006 Apr;50(5):621-31. Epub 2005 Dec 28.

PMID:

16386766

[PubMed - indexed for MEDLINE]

[Related citations](#)



349.

[The cannabinoid agonist WIN55,212-2 increases intracellular calcium via CB1 receptor coupling to Gq/11 G proteins.](#)

Lauckner JE, Hille B, Mackie K.

Proc Natl Acad Sci U S A. 2005 Dec 27;102(52):19144-9. Epub 2005 Dec 19.

PMID:

16365309

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



350.

[Simultaneous and sensitive analysis of THC, 11-OH-THC, THC-COOH, CBD, and CBN by GC-MS in plasma after oral application of small doses of THC and cannabis extract.](#)

Nadulski T, Sporkert F, Schnelle M, Stadelmann AM, Roser P, Schefter T, Pragst F.

J Anal Toxicol. 2005 Nov-Dec;29(8):782-9.

PMID:

16356335

[PubMed - indexed for MEDLINE]

[Related citations](#)



351.

[Extraction and analysis of different Cannabis samples by headspace solid-phase microextraction combined with gas chromatography-mass spectrometry.](#)

Ilias Y, Rudaz S, Mathieu P, Christen P, Veuthey JL.

J Sep Sci. 2005 Nov;28(17):2293-300.

PMID:

16342794

[PubMed - indexed for MEDLINE]

[Related citations](#)



352.

[Sativex for the management of multiple sclerosis symptoms.](#)

Perras C.

Issues Emerg Health Technol. 2005 Sep;(72):1-4.

PMID:

16317825

[PubMed - indexed for MEDLINE]

[Related citations](#)



353.

[Randomized, double-blind, placebo-controlled study about the effects of **cannabidiol** \(CBD\) on the pharmacokinetics of Delta9-tetrahydrocannabinol \(THC\) after oral application of THC verses standardized cannabis extract.](#)

Nadulski T, Pragst F, Weinberg G, Roser P, Schnelle M, Fronk EM, Stadelmann AM.

Ther Drug Monit. 2005 Dec;27(6):799-810.

PMID:

16306858

[PubMed - indexed for MEDLINE]

[Related citations](#)



354.

[Preliminary assessment of the efficacy, tolerability and safety of a cannabis-based medicine \(Sativex\) in the treatment of pain caused by rheumatoid arthritis.](#)

Blake DR, Robson P, Ho M, Jubb RW, McCabe CS.

Rheumatology (Oxford). 2006 Jan;45(1):50-2. Epub 2005 Nov 9.

PMID:

16282192

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



355.

[Gateways to clinical trials.](#)

Bayes M, Rabasseda X, Prous JR.

Methods Find Exp Clin Pharmacol. 2005 Oct;27(8):569-612.

PMID:

16273137

[PubMed - indexed for MEDLINE]

[Related citations](#)



356.

[Cannabinoids.](#)

Grotenhermen F.

Curr Drug Targets CNS Neurol Disord. 2005 Oct;4(5):507-30. Review.

PMID:

16266285

[PubMed - indexed for MEDLINE]

[Related citations](#)



357.

[Agonistic properties of cannabidiol at 5-HT_{1A} receptors.](#)

Russo EB, Burnett A, Hall B, Parker KK.

Neurochem Res. 2005 Aug;30(8):1037-43.

PMID:

16258853

[PubMed - indexed for MEDLINE]

[Related citations](#)



358.

[Pharmacokinetics of cannabinoids.](#)

McGilveray JJ.

Pain Res Manag. 2005 Autumn;10 Suppl A:15A-22A.

PMID:

16237477

[PubMed - in process]

[Related citations](#)



359.

[Tetrahydrocannabinols in clinical and forensic toxicology.](#)

Kochanowski M, Kała M.

Przegl Lek. 2005;62(6):576-80. Review.

PMID:

16225128

[PubMed - indexed for MEDLINE]

[Related citations](#)

360.

[Simultaneous determination of **cannabidiol**, cannabinol, and delta9-tetrahydrocannabinol in human hair by gas chromatography-mass spectrometry.](#)

Kim JY, Suh SI, In MK, Paeng KJ, Chung BC.

Arch Pharm Res. 2005 Sep;28(9):1086-91.

PMID:

16212242

[PubMed - indexed for MEDLINE]

[Related citations](#)

361.

[A tale of two cannabinoids: the therapeutic rationale for combining tetrahydrocannabinol and **cannabidiol**.](#)

Russo E, Guy GW.

Med Hypotheses. 2006;66(2):234-46. Epub 2005 Oct 4.

PMID:

16209908

[PubMed - indexed for MEDLINE]

[Related citations](#)

362.

[Evidence that the plant cannabinoid Delta9-tetrahydrocannabivarin is a cannabinoid CB1 and CB2 receptor antagonist.](#)

Thomas A, Stevenson LA, Wease KN, Price MR, Baillie G, Ross RA, Pertwee RG.

Br J Pharmacol. 2005 Dec;146(7):917-26.

PMID:

16205722

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)

363.

[Delta-9-tetrahydrocannabinol and **cannabidiol**, but not ondansetron, interfere with conditioned retching reactions elicited by a lithium-paired context in *Suncus murinus*: An animal model of anticipatory nausea and vomiting.](#)

Parker LA, Kwiatkowska M, Mechoulam R.

Physiol Behav. 2006 Jan 30;87(1):66-71. Epub 2005 Sep 28.

PMID:

16197970

[PubMed - indexed for MEDLINE]

[Related citations](#)



364.

[Randomized, controlled trial of cannabis-based medicine in central pain in multiple sclerosis.](#)

Rog DJ, Nurmikko TJ, Friede T, Young CA.

Neurology. 2005 Sep 27;65(6):812-9.

PMID:

16186518

[PubMed - indexed for MEDLINE]

[Related citations](#)



365.

[Gateways to clinical trials.](#)

Bayes M, Rabasseda X, Prous JR.

Methods Find Exp Clin Pharmacol. 2005 Jul-Aug;27(6):411-61.

PMID:

16179960

[PubMed - indexed for MEDLINE]

[Related citations](#)



366.

[Neurophysiological and subjective profile of marijuana with varying concentrations of cannabinoids.](#)

Ilan AB, Gevins A, Coleman M, ElSohly MA, de Wit H.

Behav Pharmacol. 2005 Sep;16(5-6):487-96.

PMID:

16148455

[PubMed - indexed for MEDLINE]

[Related citations](#)



367.

[Gene ancestry of the cannabinoid receptor family.](#)

Anday JK, Mercier RW.

Pharmacol Res. 2005 Dec;52(6):463-6. Epub 2005 Aug 22.

PMID:

16118055

[PubMed - indexed for MEDLINE]

[Related citations](#)



368.

[Cannabidiol reverses MK-801-induced disruption of prepulse inhibition in mice.](#)

Long LE, Malone DT, Taylor DA.

Neuropsychopharmacology. 2006 Apr;31(4):795-803.

PMID:

16052245

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



369.

[Sublingual drug delivery during functional magnetic resonance imaging.](#)

Lee MC, Menon DK.

Anaesthesia. 2005 Aug;60(8):821-2. No abstract available.

PMID:

16029237

[PubMed - indexed for MEDLINE]

[Related citations](#)



370.

[The use of cannabinoids in multiple sclerosis.](#)

Teare L, Zajicek J.

Expert Opin Investig Drugs. 2005 Jul;14(7):859-69. Review.

PMID:

16022575

[PubMed - indexed for MEDLINE]

[Related citations](#)



371.

[Conditional okay for cannabis prescription drug.](#)

Sibbald B.

CMAJ. 2005 Jun 21;172(13):1672. No abstract available.

PMID:

15967965

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



372.

[Effects of RM-beta-CD on sublingual bioavailability of Delta9-tetrahydrocannabinol in rabbits.](#)

Mannila J, Järvinen T, Järvinen K, Tarvainen M, Jarho P.

Eur J Pharm Sci. 2005 Sep;26(1):71-7.

PMID:

15955678

[PubMed - indexed for MEDLINE]

[Related citations](#)



373.

[Evidence that \(-\)-7-hydroxy-4'-dimethylheptyl-cannabidiol activates a non-CB\(1\), non-CB\(2\), non-TRPV1 target in the mouse vas deferens.](#)

Pertwee RG, Thomas A, Stevenson LA, Maor Y, Mechoulam R.

Neuropharmacology. 2005 Jun;48(8):1139-46. Epub 2005 Mar 19.

PMID:

15910889

[PubMed - indexed for MEDLINE]

[Related citations](#)



374.

[Peripheral, but not central effects of cannabidiol derivatives: mediation by CB\(1\) and unidentified receptors.](#)

Fride E, Ponde D, Breuer A, Hanus L.

Neuropharmacology. 2005 Jun;48(8):1117-29. Epub 2005 Apr 26.

PMID:

15910887

[PubMed - indexed for MEDLINE]

[Related citations](#)



375.

[Cannabinoids in bipolar affective disorder: a review and discussion of their therapeutic potential.](#)

Ashton CH, Moore PB, Gallagher P, Young AH.

J Psychopharmacol. 2005 May;19(3):293-300. Review.

PMID:

15888515

[PubMed - indexed for MEDLINE]

[Related citations](#)



376.

[Comparison of **cannabidiol**, antioxidants, and diuretics in reversing binge ethanol-induced neurotoxicity.](#)

Hamelink C, Hampson A, Wink DA, Eiden LE, Eskay RL.

J Pharmacol Exp Ther. 2005 Aug;314(2):780-8. Epub 2005 May 5.

PMID:

15878999

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



377.

[Effect of cannabis use in human brain activity.](#)

Martín-Santos R, Atakan Z, McGuire P.

Rev Bras Psiquiatr. 2005 Mar;27(1):3-4. Epub 2005 Apr 18. No abstract available.

PMID:

15867974

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



378.

[**Cannabidiol** prevents cerebral infarction via a serotonergic 5-hydroxytryptamine 1A receptor-dependent mechanism.](#)

Mishima K, Hayakawa K, Abe K, Ikeda T, Egashira N, Iwasaki K, Fujiwara M.

Stroke. 2005 May;36(5):1077-82. Epub 2005 Apr 21.

PMID:

15845890

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



379.

[Cannabidiol inhibits the hyperlocomotion induced by psychotomimetic drugs in mice.](#)

Moreira FA, Guimarães FS.

Eur J Pharmacol. 2005 Apr 11;512(2-3):199-205.

PMID:

15840405

[PubMed - indexed for MEDLINE]

[Related citations](#)



380.

[Cannabinoids provide neuroprotection against 6-hydroxydopamine toxicity in vivo and in vitro: relevance to Parkinson's disease.](#)

Lastres-Becker I, Molina-Holgado F, Ramos JA, Mechoulam R, Fernández-Ruiz J.

Neurobiol Dis. 2005 Jun-Jul;19(1-2):96-107.

PMID:

15837565

[PubMed - indexed for MEDLINE]

[Related citations](#)

381.

[CB1 cannabinoid receptor-mediated modulation of food intake in mice.](#)

Wiley JL, Burston JJ, Leggett DC, Alekseeva OO, Razdan RK, Mahadevan A, Martin BR.

Br J Pharmacol. 2005 Jun;145(3):293-300.

PMID:

15778743

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



382.

[Enantiomeric cannabidiol derivatives: synthesis and binding to cannabinoid receptors.](#)

Hanus LO, Tchilibon S, Ponde DE, Breuer A, Fride E, Mechoulam R.

Org Biomol Chem. 2005 Mar 21;3(6):1116-23. Epub 2005 Feb 16.

PMID:

15750656

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



383.

[Cannabidiol inhibits human glioma cell migration through a cannabinoid receptor-independent mechanism.](#)

Vaccani A, Massi P, Colombo A, Rubino T, Parolaro D.

Br J Pharmacol. 2005 Apr;144(8):1032-6.

PMID:

15700028

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



384.

[Flavonoid glycosides and cannabinoids from the pollen of Cannabis sativa L.](#)

Ross SA, ElSohly MA, Sultana GN, Mehmedic Z, Hossain CF, Chandra S.

Phytochem Anal. 2005 Jan-Feb;16(1):45-8.

PMID:

15688956

[PubMed - indexed for MEDLINE]

[Related citations](#)



385.

[The nonpsychoactive component of marijuana **cannabidiol** modulates chemotaxis and IL-10 and IL-12 production of murine macrophages both in vivo and in vitro.](#)

Sacerdote P, Martucci C, Vaccani A, Bariselli F, Panerai AE, Colombo A, Parolaro D, Massi P.

J Neuroimmunol. 2005 Feb;159(1-2):97-105. Epub 2004 Dec 1.

PMID:

15652407

[PubMed - indexed for MEDLINE]

[Related citations](#)



386.

[Cannabidiol prevents infarction via the non-CB1 cannabinoid receptor mechanism.](#)

Hayakawa K, Mishima K, Abe K, Hasebe N, Takamatsu F, Yasuda H, Ikeda T, Inui K, Egashira N, Iwasaki K, Fujiwara M.

Neuroreport. 2004 Oct 25;15(15):2381-5.

PMID:

15640760

[PubMed - indexed for MEDLINE]

[Related citations](#)



387.

[Cultivation of Cannabis sativa L. in northern Morocco.](#)

Stambouli H, El Bouri A, Bellimam MA, Bouayoun T, El Karni N.

Bull Narc. 2005;57(1-2):79-118.

PMID:

21338017

[PubMed - indexed for MEDLINE]

[Related citations](#)



388.

[A rapid and simple procedure for the determination of cannabinoids in hemp food products by gas chromatography-mass spectrometry.](#)

Pellegrini M, Marchei E, Pacifici R, Pichini S.

J Pharm Biomed Anal. 2005 Jan 4;36(5):939-46.

PMID:

15620517

[PubMed - indexed for MEDLINE]

[Related citations](#)



389.

[Determination of cannabinoids in cannabis products using liquid chromatography-ion trap mass spectrometry.](#)

Stolker AA, van Schoonhoven J, de Vries AJ, Bobeldijk-Pastorova I, Vaes WH, van den Berg R.

J Chromatogr A. 2004 Nov 26;1058(1-2):143-51.

PMID:

15595662

[PubMed - indexed for MEDLINE]

[Related citations](#)



390.

[NMR assignments of the major cannabinoids and cannabiflavonoids isolated from flowers of Cannabis sativa.](#)

Choi YH, Hazekamp A, Peltenburg-Looman AM, Frédérich M, Erkelens C, Lefeber AW, Verpoorte R.

Phytochem Anal. 2004 Nov-Dec;15(6):345-54.

PMID:

15595449

[PubMed - indexed for MEDLINE]

[Related citations](#)



391.

[Pain reduction and lack of psychotropic effects with ajulemic acid: comment on the article by Sumariwalla et al.](#)

Burstein S, Zurier RB.

Arthritis Rheum. 2004 Dec;50(12):4078-9; author reply 4079-80. No abstract available.

PMID:

15593192

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

392.

[Marijuana extracts possess the effects like the endocrine disrupting chemicals.](#)

Watanabe K, Motoya E, Matsuzawa N, Funahashi T, Kimura T, Matsunaga T, Arizono K, Yamamoto I.

Toxicology. 2005 Jan 31;206(3):471-8.

PMID:

15588936

[PubMed - indexed for MEDLINE]

[Related citations](#)

393.

[\(+\)-Cannabidiol analogues which bind cannabinoid receptors but exert peripheral activity only.](#)

Fride E, Feigin C, Ponde DE, Breuer A, Hanus L, Arshavsky N, Mechoulam R.

Eur J Pharmacol. 2004 Dec 15;506(2):179-88.

PMID:

15588739

[PubMed - indexed for MEDLINE]

[Related citations](#)

394.

[Differential effects of THC- or CBD-rich cannabis extracts on working memory in rats.](#)

Fadda P, Robinson L, Fratta W, Pertwee RG, Riedel G.

Neuropharmacology. 2004 Dec;47(8):1170-9.

PMID:

15567426

[PubMed - indexed for MEDLINE]

[Related citations](#)

395.

[Efficacy of two cannabis based medicinal extracts for relief of central neuropathic pain from brachial plexus avulsion: results of a randomised controlled trial.](#)

Berman JS, Symonds C, Birch R.

Pain. 2004 Dec;112(3):299-306.

PMID:

15561385

[PubMed - indexed for MEDLINE]

[Related citations](#)



396.

[Cannabis \(marijuana\) contamination of United States and foreign paper currency.](#)

Lavins ES, Lavins BD, Jenkins AJ.

J Anal Toxicol. 2004 Sep;28(6):439-42.

PMID:

15516293

[PubMed - indexed for MEDLINE]

[Related citations](#)



397.

[Cannabinoids in hair: strategy to prove marijuana/hashish consumption.](#)

Uhl M, Sachs H.

Forensic Sci Int. 2004 Oct 29;145(2-3):143-7.

PMID:

15451086

[PubMed - indexed for MEDLINE]

[Related citations](#)



398.

[Do cannabis-based medicinal extracts have general or specific effects on symptoms in multiple sclerosis? A double-blind, randomized, placebo-controlled study on 160 patients.](#)

Wade DT, Makela P, Robson P, House H, Bateman C.

Mult Scler. 2004 Aug;10(4):434-41.

PMID:

15327042

[PubMed - indexed for MEDLINE]

[Related citations](#)



399.

[An open-label pilot study of cannabis-based extracts for bladder dysfunction in advanced multiple sclerosis.](#)

Brady CM, DasGupta R, Dalton C, Wiseman OJ, Berkley KJ, Fowler CJ.

Mult Scler. 2004 Aug;10(4):425-33.

PMID:

15327041

[PubMed - indexed for MEDLINE]

[Related citations](#)



400.

[Efficacy, safety and tolerability of an orally administered cannabis extract in the treatment of spasticity in patients with multiple sclerosis: a randomized, double-blind, placebo-controlled, crossover study.](#)

Vaney C, Heinzel-Gutenbrunner M, Jobin P, Tschopp F, Gattlen B, Hagen U, Schnelle M, Reif M.

Mult Scler. 2004 Aug;10(4):417-24.

PMID:

15327040

[PubMed - indexed for MEDLINE]

[Related citations](#)

401.

[Vanilloid TRPV1 receptor mediates the antihyperalgesic effect of the nonpsychoactive cannabinoid, **cannabidiol**, in a rat model of acute inflammation.](#)

Costa B, Giagnoni G, Franke C, Trovato AE, Colleoni M.

Br J Pharmacol. 2004 Sep;143(2):247-50. Epub 2004 Aug 16.

PMID:

15313881

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



402.

[GW-1000. GW Pharmaceuticals.](#)

Smith PF.

Curr Opin Investig Drugs. 2004 Jul;5(7):748-54.

PMID:

15298072

[PubMed - indexed for MEDLINE]

[Related citations](#)



403.

[Medicinal cannabis extracts for the treatment of multiple sclerosis.](#)

Smith PF.

Curr Opin Investig Drugs. 2004 Jul;5(7):727-30.

PMID:

15298068

[PubMed - indexed for MEDLINE]

[Related citations](#)



404.

[Synthesis and antitumor activity of quinonoid derivatives of cannabinoids.](#)

Kogan NM, Rabinowitz R, Levi P, Gibson D, Sandor P, Schlesinger M, Mechoulam R.

J Med Chem. 2004 Jul 15;47(15):3800-6.

PMID:

15239658

[PubMed - indexed for MEDLINE]

[Related citations](#)



405.

[Vasorelaxant activities of the putative endocannabinoid virodhamine in rat isolated small mesenteric artery.](#)

Ho WS, Hiley CR.

J Pharm Pharmacol. 2004 Jul;56(7):869-75.

PMID:

15233865

[PubMed - indexed for MEDLINE]

[Related citations](#)



406.

[A chemotaxonomic analysis of cannabinoid variation in Cannabis \(Cannabaceae\).](#)

Hillig KW, Mahlberg PG.

Am J Bot. 2004 Jun;91(6):966-75.

PMID:

21653452

[PubMed - in process]



407.

[Pharmacology of cannabinoids.](#)

Grotenhermen F.

Neuro Endocrinol Lett. 2004 Feb-Apr;25(1-2):14-23. Review.

PMID:

15159677

[PubMed - indexed for MEDLINE]

[Related citations](#)



408.

[Cannabidiol increases Fos expression in the nucleus accumbens but not in the dorsal striatum.](#)

Guimarães VM, Zuardi AW, Del Bel EA, Guimarães FS.

Life Sci. 2004 Jun 18;75(5):633-8.

PMID:

15158372

[PubMed - indexed for MEDLINE]

[Related citations](#)



409.

[Cannabidiol lacks the vanilloid VR1-mediated vasorespiratory effects of capsaicin and anandamide in anaesthetised rats.](#)

McQueen DS, Bond SM, Smith PJ, Balali-Mood K, Smart D.

Eur J Pharmacol. 2004 May 3;491(2-3):181-9.

PMID:

15140635

[PubMed - indexed for MEDLINE]

[Related citations](#)



410.

[Effect of low doses of delta9-tetrahydrocannabinol and cannabidiol on the extinction of cocaine-induced and amphetamine-induced conditioned place preference learning in rats.](#)

Parker LA, Burton P, Sorge RE, Yakiwchuk C, Mechoulam R.

Psychopharmacology (Berl). 2004 Sep;175(3):360-6.

PMID:

15138755

[PubMed - indexed for MEDLINE]

[Related citations](#)



411.

[Effect of Delta-9-tetrahydrocannabinol and cannabidiol on nocturnal sleep and early-morning behavior in young adults.](#)

Nicholson AN, Turner C, Stone BM, Robson PJ.

J Clin Psychopharmacol. 2004 Jun;24(3):305-13.

PMID:

15118485

[PubMed - indexed for MEDLINE]

[Related citations](#)



412.

[Initial experiences with medicinal extracts of cannabis for chronic pain: results from 34 'N of 1' studies.](#)

Notcutt W, Price M, Miller R, Newport S, Phillips C, Simmons S, Sansom C.

Anaesthesia. 2004 May;59(5):440-52.

PMID:

15096238

[PubMed - indexed for MEDLINE]

[Related citations](#)



413.

[Atypical cannabinoid stimulates endothelial cell migration via a Gi/Go-coupled receptor distinct from CB1, CB2 or EDG-1.](#)

Mo FM, Offertáler L, Kunos G.

Eur J Pharmacol. 2004 Apr 5;489(1-2):21-7.

PMID:

15063151

[PubMed - indexed for MEDLINE]

[Related citations](#)



414.

[\[A novel analgesics made from Cannabis\].](#)

Szendrei K.

Ideggyogy Sz. 2004 Jan 20;57(1-2):36-40. Review. Hungarian.

PMID:

15042867

[PubMed - indexed for MEDLINE]

[Related citations](#)



415.

[6"-Azidohex-2"-yne-cannabidiol: a potential neutral, competitive cannabinoid CB1 receptor antagonist.](#)

Thomas A, Ross RA, Saha B, Mahadevan A, Razdan RK, Pertwee RG.

Eur J Pharmacol. 2004 Mar 8;487(1-3):213-21.

PMID:

15033394

[PubMed - indexed for MEDLINE]

[Related citations](#)



416.

[Neuroprotective effect of cannabidiol, a non-psychoactive component from Cannabis sativa, on beta-amyloid-induced toxicity in PC12 cells.](#)

Iuvone T, Esposito G, Esposito R, Santamaria R, Di Rosa M, Izzo AA.

J Neurochem. 2004 Apr;89(1):134-41.

PMID:

15030397

[PubMed - indexed for MEDLINE]

[Related citations](#)



417.

[Human skin permeation of Delta8-tetrahydrocannabinol, cannabidiol and cannabinol.](#)

Stinchcomb AL, Valiveti S, Hammell DC, Ramsey DR.

J Pharm Pharmacol. 2004 Mar;56(3):291-7.

PMID:

15025853

[PubMed - indexed for MEDLINE]

[Related citations](#)



418.

[A novel synthetic, nonpsychoactive cannabinoid acid \(HU-320\) with antiinflammatory properties in murine collagen-induced arthritis.](#)

Sumariwalla PF, Gallily R, Tchilibon S, Fride E, Mechoulam R, Feldmann M.

Arthritis Rheum. 2004 Mar;50(3):985-98.

PMID:

15022343

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



419.

[Effects of coadministration of cannabinoids and morphine on nociceptive behaviour, brain monoamines and HPA axis activity in a rat model of persistent pain.](#)

Finn DP, Beckett SR, Roe CH, Madjd A, Fone KC, Kendall DA, Marsden CA, Chapman V.

Eur J Neurosci. 2004 Feb;19(3):678-86.

PMID:

14984418

[PubMed - indexed for MEDLINE]

[Related citations](#)



420.

[Oral anti-inflammatory activity of **cannabidiol**, a non-psychoactive constituent of cannabis, in acute carrageenan-induced inflammation in the rat paw.](#)

Costa B, Colleoni M, Conti S, Parolaro D, Franke C, Trovato AE, Giagnoni G.

Naunyn Schmiedebergs Arch Pharmacol. 2004 Mar;369(3):294-9. Epub 2004 Feb 12.

PMID:

14963641

[PubMed - indexed for MEDLINE]

[Related citations](#)

421.

[A comparative analysis of the potential of cannabinoids and ondansetron to suppress cisplatin-induced emesis in the Suncus murinus \(house musk shrew\).](#)

Kwiatkowska M, Parker LA, Burton P, Mechoulam R.

Psychopharmacology (Berl). 2004 Jul;174(2):254-9.

PMID:

14740147

[PubMed - indexed for MEDLINE]

[Related citations](#)



422.

[Medicinal cannabis: is delta9-tetrahydrocannabinol necessary for all its effects?](#)

Wilkinson JD, Whalley BJ, Baker D, Pryce G, Constanti A, Gibbons S, Williamson EM.

J Pharm Pharmacol. 2003 Dec;55(12):1687-94.

PMID:

14738597

[PubMed - indexed for MEDLINE]

[Related citations](#)



423.

[Gamma-irradiation enhances apoptosis induced by **cannabidiol**, a non-psychoactive cannabinoid, in cultured HL-60 myeloblastic leukemia cells.](#)

Gallily R, Even-Chena T, Katzavian G, Lehmann D, Dagan A, Mechoulam R.

Leuk Lymphoma. 2003 Oct;44(10):1767-73.

PMID:

14692532

[PubMed - indexed for MEDLINE]

[Related citations](#)



424.

[Cannabidiol-transdermal delivery and anti-inflammatory effect in a murine model.](#)

Lodzki M, Godin B, Rakou L, Mechoulam R, Gallily R, Touitou E.

J Control Release. 2003 Dec 12;93(3):377-87.

PMID:

14644587

[PubMed - indexed for MEDLINE]

[Related citations](#)



425.

[Antitumor effects of **cannabidiol**, a nonpsychoactive cannabinoid, on human glioma cell lines.](#)

Massi P, Vaccani A, Ceruti S, Colombo A, Abbracchio MP, Parolaro D.

J Pharmacol Exp Ther. 2004 Mar;308(3):838-45. Epub 2003 Nov 14.

PMID:

14617682

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



426.

[Cannabinoids for treatment of spasticity and other symptoms related to multiple sclerosis \(CAMS study\): multicentre randomised placebo-controlled trial.](#)

Zajicek J, Fox P, Sanders H, Wright D, Vickery J, Nunn A, Thompson A; UK MS Research Group.

Lancet. 2003 Nov 8;362(9395):1517-26.

PMID:

14615106

[PubMed - indexed for MEDLINE]

[Related citations](#)



427.

[Oral cannabinoids for spasticity in multiple sclerosis: will attitude continue to limit use?](#)

Metz L, Page S.

Lancet. 2003 Nov 8;362(9395):1513. No abstract available.

PMID:

14615102

[PubMed - indexed for MEDLINE]

[Related citations](#)

428.

[Determination of cannabinoids in hemp food products by use of headspace solid-phase microextraction and gas chromatography-mass spectrometry.](#)

Lachenmeier DW, Kroener L, Musshoff F, Madea B.

Anal Bioanal Chem. 2004 Jan;378(1):183-9. Epub 2003 Nov 4.

PMID:

14598006

[PubMed - indexed for MEDLINE]

[Related citations](#)

429.

[Effects of cannabidiol \(CBD\) on regional cerebral blood flow.](#)

Crippa JA, Zuardi AW, Garrido GE, Wichert-Ana L, Guarnieri R, Ferrari L, Azevedo-Marques PM, Hallak JE, McGuire PK, Filho Busatto G.

Neuropsychopharmacology. 2004 Feb;29(2):417-26.

PMID:

14583744

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

430.

[Neuroprotective effect of \(-\)Delta9-tetrahydrocannabinol and cannabidiol in N-methyl-D-aspartate-induced retinal neurotoxicity: involvement of peroxynitrite.](#)

El-Remessy AB, Khalil IE, Matragoon S, Abou-Mohamed G, Tsai NJ, Roon P, Caldwell RB, Caldwell RW, Green K, Liou GI.

Am J Pathol. 2003 Nov;163(5):1997-2008.

PMID:

14578199

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text Related citations](#)



431.

[Cannabinoid agonists and antagonists modulate lithium-induced conditioned gaping in rats.](#)

Parker LA, Mechoulam R.

Integr Physiol Behav Sci. 2003 Apr-Jun;38(2):133-45.

PMID:

14527182

[PubMed - indexed for MEDLINE]

[Related citations](#)



432.

[Neuroscience. Stout guards of the central nervous system.](#)

Mechoulam R, Lichtman AH.

Science. 2003 Oct 3;302(5642):65-7.

PMID:

14526067

[PubMed - indexed for MEDLINE]

[Related citations](#)



433.

[Effect of cannabinoids on lithium-induced vomiting in the Suncus murinus \(house musk shrew\).](#)

Parker LA, Kwiatkowska M, Burton P, Mechoulam R.

Psychopharmacology (Berl). 2004 Jan;171(2):156-61. Epub 2003 Sep 10.

PMID:

13680081

[PubMed - indexed for MEDLINE]

[Related citations](#)

434.

[G protein-coupled endothelial receptor for atypical cannabinoid ligands modulates a Ca²⁺-dependent K⁺ current.](#)

Begg M, Mo FM, Offertaler L, Bátkai S, Pacher P, Razdan RK, Lovinger DM, Kunos G.

J Biol Chem. 2003 Nov 14;278(46):46188-94. Epub 2003 Sep 2.

PMID:

12952947

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

435.

[Cannabis-based medicines--GW pharmaceuticals: high CBD, high THC, medicinal cannabis--GW pharmaceuticals, THC:CBD.](#)

[No authors listed]

Drugs R D. 2003;4(5):306-9. Review.

PMID:

12952500

[PubMed - indexed for MEDLINE]

[Related citations](#)

436.

[Palmitoylethanolamide increases after focal cerebral ischemia and potentiates microglial cell motility.](#)

Franklin A, Parmentier-Batteur S, Walter L, Greenberg DA, Stella N.

J Neurosci. 2003 Aug 27;23(21):7767-75.

PMID:

12944505

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

437.

[Arachidonylcyclopropylamide increases microglial cell migration through cannabinoid CB2 and abnormal-cannabidiol-sensitive receptors.](#)

Franklin A, Stella N.

Eur J Pharmacol. 2003 Aug 8;474(2-3):195-8.

PMID:

12921861

[PubMed - indexed for MEDLINE]

[Related citations](#)

438.

[The CB1 cannabinoid receptor agonist, HU-210, reduces levodopa-induced rotations in 6-hydroxydopamine-lesioned rats.](#)

Gilgun-Sherki Y, Melamed E, Mechoulam R, Offen D.

Pharmacol Toxicol. 2003 Aug;93(2):66-70.

PMID:

12899667

[PubMed - indexed for MEDLINE]

[Related citations](#)

439.

[Gateways to clinical trials.](#)

Bayes M, Rabasseda X, Prous JR.

Methods Find Exp Clin Pharmacol. 2003 Jun;25(5):387-408.

PMID:

12851663

[PubMed - indexed for MEDLINE]

[Related citations](#)

440.

[Post-ischemic treatment with cannabidiol prevents electroencephalographic flattening, hyperlocomotion and neuronal injury in gerbils.](#)

Braida D, Pegorini S, Arcidiacono MV, Consalez GG, Croci L, Sala M.

Neurosci Lett. 2003 Jul 31;346(1-2):61-4.

PMID:

12850548

[PubMed - indexed for MEDLINE]

[Related citations](#)

441.

[Simultaneous detection of some drugs of abuse in saliva samples by SPME technique.](#)

Fucci N, De Giovanni N, Chiarotti M.

Forensic Sci Int. 2003 Jun 24;134(1):40-5.

PMID:

12842356

[PubMed - indexed for MEDLINE]

[Related citations](#)



442.

[Evidence for cannabinoid receptor-dependent and -independent mechanisms of action in leukocytes.](#)

Kaplan BL, Rockwell CE, Kaminski NE.

J Pharmacol Exp Ther. 2003 Sep;306(3):1077-85. Epub 2003 Jun 12.

PMID:

12805480

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



443.

[Gateways to clinical trials.](#)

Bayés M, Rabasseda X, Prous JR.

Methods Find Exp Clin Pharmacol. 2003 Apr;25(3):225-48. Review.

PMID:

12743628

[PubMed - indexed for MEDLINE]

[Related citations](#)



444.

[Automated headspace solid-phase dynamic extraction for the determination of cannabinoids in hair samples.](#)

Musshoff F, Lachenmeier DW, Kroener L, Madea B.

Forensic Sci Int. 2003 Apr 23;133(1-2):32-8.

PMID:

12742687

[PubMed - indexed for MEDLINE]

[Related citations](#)



445.

[Vasodilator actions of abnormal-cannabidiol in rat isolated small mesenteric artery.](#)

Ho WS, Hiley CR.

Br J Pharmacol. 2003 Apr;138(7):1320-32.

PMID:

12711633

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text Related citations](#)



446.

[Pharmacokinetics and pharmacodynamics of cannabinoids.](#)

Grotenhermen F.

Clin Pharmacokinet. 2003;42(4):327-60. Review.

PMID:

12648025

[PubMed - indexed for MEDLINE]

[Related citations](#)

447.

[\[Weather-induced changes in cannabinoid content of hair\].](#)

Kury M, Skopp G, Mattern R.

Arch Kriminol. 2003 Jan-Feb;211(1-2):9-18. German.

PMID:

12635486

[PubMed - indexed for MEDLINE]

[Related citations](#)

448.

[Therapeutic potential of cannabinoids in CNS disease.](#)

Croxford JL.

CNS Drugs. 2003;17(3):179-202. Review.

PMID:

12617697

[PubMed - indexed for MEDLINE]

[Related citations](#)

449.

[A preliminary controlled study to determine whether whole-plant cannabis extracts can improve intractable neurogenic symptoms.](#)

Wade DT, Robson P, House H, Makela P, Aram J.

Clin Rehabil. 2003 Feb;17(1):21-9.

PMID:

12617376

[PubMed - indexed for MEDLINE]

[Related citations](#)



450.

[Selective ligands and cellular effectors of a G protein-coupled endothelial cannabinoid receptor.](#)

Offertáler L, Mo FM, Bátkai S, Liu J, Begg M, Razdan RK, Martin BR, Bukoski RD, Kunos G.

Mol Pharmacol. 2003 Mar;63(3):699-705.

PMID:

12606780

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



451.

[Safety, tolerability, and efficacy of orally administered cannabinoids in MS.](#)

Russo EB.

Neurology. 2003 Feb 25;60(4):729-30; author reply 729-30. No abstract available.

PMID:

12601130

[PubMed - indexed for MEDLINE]

[Related citations](#)



452.

[Nonpsychotropic cannabinoid receptors regulate microglial cell migration.](#)

Walter L, Franklin A, Witting A, Wade C, Xie Y, Kunos G, Mackie K, Stella N.

J Neurosci. 2003 Feb 15;23(4):1398-405.

PMID:

12598628

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

453.

[The inheritance of chemical phenotype in Cannabis sativa L.](#)

de Meijer EP, Bagatta M, Carboni A, Crucitti P, Moliterni VM, Ranalli P, Mandolino G.

Genetics. 2003 Jan;163(1):335-46.

PMID:

12586720

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)

454.

[Cannabidiol: an overview of some chemical and pharmacological aspects. Part I: chemical aspects.](#)

Mechoulam R, Hanus L.

Chem Phys Lipids. 2002 Dec 31;121(1-2):35-43. Review.

PMID:

12505688

[PubMed - indexed for MEDLINE]

[Related citations](#)

455.

[Antiemetic and motor-depressive actions of CP55,940: cannabinoid CB1 receptor characterization, distribution, and G-protein activation.](#)

Darmani NA, Sim-Selley LJ, Martin BR, Janoyan JJ, Crim JL, Parekh B, Breivogel CS.

Eur J Pharmacol. 2003 Jan 10;459(1):83-95.

PMID:

12505537

[PubMed - indexed for MEDLINE]

[Related citations](#)

456.

[Fully automated determination of cannabinoids in hair samples using headspace solid-phase microextraction and gas chromatography-mass spectrometry.](#)

Musshoff F, Junker HP, Lachenmeier DW, Kroener L, Madea B.

J Anal Toxicol. 2002 Nov-Dec;26(8):554-60.

PMID:

12501912

[PubMed - indexed for MEDLINE]

[Related citations](#)



457.

[\(-\)-Cannabidiol antagonizes cannabinoid receptor agonists and noradrenaline in the mouse vas deferens.](#)

Pertwee RG, Ross RA, Craib SJ, Thomas A.

Eur J Pharmacol. 2002 Dec 5;456(1-3):99-106.

PMID:

12450575

[PubMed - indexed for MEDLINE]

[Related citations](#)



458.

[Novel 1',1'-chain substituted Delta\(8\)-tetrahydrocannabinols.](#)

Papahatjis DP, Nikas SP, Andreou T, Makriyannis A.

Bioorg Med Chem Lett. 2002 Dec 16;12(24):3583-6.

PMID:

12443781

[PubMed - indexed for MEDLINE]

[Related citations](#)



459.

[Effects of pharmacological manipulations of cannabinoid receptors on severity of dystonia in a genetic model of paroxysmal dyskinesia.](#)

Richter A, Löscher W.

Eur J Pharmacol. 2002 Nov 15;454(2-3):145-51.

PMID:

12421641

[PubMed - indexed for MEDLINE]

[Related citations](#)



460.

[Cannabidiol: an overview of some pharmacological aspects.](#)

Mechoulam R, Parker LA, Gallily R.

J Clin Pharmacol. 2002 Nov;42(11 Suppl):11S-19S. Review.

PMID:

12412831

[PubMed - indexed for MEDLINE]

[Related citations](#)

461.

[Hair analysis for delta\(9\)-THC, delta\(9\)-THC-COOH, CBN and CBD, by GC/MS-EI. Comparison with GC/MS-NCI for delta\(9\)-THC-COOH.](#)

Baptista MJ, Monsanto PV, Pinho Marques EG, Bermejo A, Avila S, Castanheira AM, Margalho C, Barroso M, Vieira DN.

Forensic Sci Int. 2002 Aug 14;128(1-2):66-78.

PMID:

12208025

[PubMed - indexed for MEDLINE]

[Related citations](#)



462.

[Cannabidiol, a non-psychoactive component of cannabis and its synthetic dimethylheptyl homolog suppress nausea in an experimental model with rats.](#)

Parker LA, Mechoulam R, Schlievert C.

Neuroreport. 2002 Apr 16;13(5):567-70.

PMID:

11973447

[PubMed - indexed for MEDLINE]

[Related citations](#)

463.

[Resorcinol derivatives: a novel template for the development of cannabinoid CB\(1\)/CB\(2\) and CB\(2\)-selective agonists.](#)

Wiley JL, Beletskaya ID, Ng EW, Dai Z, Crocker PJ, Mahadevan A, Razdan RK, Martin BR.

J Pharmacol Exp Ther. 2002 May;301(2):679-89.

PMID:

11961073

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

464.

[Medicinal use of cannabis: history and current status.](#)

Kalant H.

Pain Res Manag. 2001 Summer;6(2):80-91.

PMID:

11854770

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

465.

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

Mechoulam R, Hanu L.

Pain Res Manag. 2001 Summer;6(2):67-73. Review.

PMID:

11854768

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



466.

[CB\(1\) receptor antagonist SR141716A inhibits Ca\(2+\)-induced relaxation in CB\(1\) receptor-deficient mice.](#)

Bukoski RD, Batkai S, Jarai Z, Wang Y, Offertaler L, Jackson WF, Kunos G.

Hypertension. 2002 Feb;39(2):251-7.

PMID:

11847193

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



467.

[DNA fingerprinting of Cannabis sativa using inter-simple sequence repeat \(ISSR\) amplification.](#)

Kojoma M, Iida O, Makino Y, Sekita S, Satake M.

Planta Med. 2002 Jan;68(1):60-3.

PMID:

11842329

[PubMed - indexed for MEDLINE]

[Related citations](#)



468.

[Determination of cannabinoids in hair using high-pH* non-aqueous electrolytes and electrochemical detection. Some aspects of sensitivity and selectivity.](#)

Backofen U, Matysik FM, Lunte CE.

J Chromatogr A. 2002 Jan 4;942(1-2):259-69.

PMID:

11822390

[PubMed - indexed for MEDLINE]

[Related citations](#)



469.

[Cannabinol enhancement of interleukin-2 \(IL-2\) expression by T cells is associated with an increase in IL-2 distal nuclear factor of activated T cell activity.](#)

Jan TR, Rao GK, Kaminski NE.

Mol Pharmacol. 2002 Feb;61(2):446-54.

PMID:

11809870

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



470.

[Assessment of the role of CB1 receptors in cannabinoid anticonvulsant effects.](#)

Wallace MJ, Wiley JL, Martin BR, DeLorenzo RJ.

Eur J Pharmacol. 2001 Sep 28;428(1):51-7.

PMID:

11779037

[PubMed - indexed for MEDLINE]

[Related citations](#)



471.

[The potent emetogenic effects of the endocannabinoid, 2-AG \(2-arachidonoylglycerol\) are blocked by delta\(9\)-tetrahydrocannabinol and other cannabinoids.](#)

Darmani NA.

J Pharmacol Exp Ther. 2002 Jan;300(1):34-42.

PMID:

11752094

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



472.

[Alcohol and marijuana: effects on epilepsy and use by patients with epilepsy.](#)

Gordon E, Devinsky O.

Epilepsia. 2001 Oct;42(10):1266-72. Review.

PMID:

11737161

[PubMed - indexed for MEDLINE]

[Related citations](#)



473.

[Molecular targets for **cannabidiol** and its synthetic analogues: effect on vanilloid VR1 receptors and on the cellular uptake and enzymatic hydrolysis of anandamide.](#)

Bisogno T, Hanus L, De Petrocellis L, Tchilibon S, Ponde DE, Brandi I, Moriello AS, Davis JB, Mechoulam R, Di Marzo V.

Br J Pharmacol. 2001 Oct;134(4):845-52.

PMID:

11606325

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



474.

[Cannabis and **cannabidiol**: interview with Robert Gorter, M.D. Interview by Fred Gardner.](#)

Gorter R.

AIDS Treat News. 1998 Oct 16;(No 305):4-6 concl.

PMID:

11365868

[PubMed - indexed for MEDLINE]

[Related citations](#)



475.

[Cannabinoid-induced alterations in brain disposition of drugs of abuse.](#)

Reid MJ, Bornheim LM.

Biochem Pharmacol. 2001 Jun 1;61(11):1357-67.

PMID:

11331071

[PubMed - indexed for MEDLINE]

[Related citations](#)



476.

[\[Analysis of the major components in cannabis by capillary gas chromatography\].](#)

Peng X.

Se Pu. 1998 Mar;16(2):170-2. Chinese.

PMID:

11326988

[PubMed - indexed for MEDLINE]

[Related citations](#)



477.

[Characterization of palmitoylethanolamide transport in mouse Neuro-2a neuroblastoma and rat RBL-2H3 basophilic leukaemia cells: comparison with anandamide.](#)

Jacobsson SO, Fowler CJ.

Br J Pharmacol. 2001 Apr;132(8):1743-54.

PMID:

11309246

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



478.

[Cannabinoid CB\(1\) receptor agonists produce cerebellar dysfunction in mice.](#)

Patel S, Hillard CJ.

J Pharmacol Exp Ther. 2001 May;297(2):629-37.

PMID:

11303052

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



479.

[\[Cannabis arteriopathy\].](#)

Disdier P, Constans J.

Presse Med. 2000 Dec 23;29(40):2226. French. No abstract available.

PMID:

11196058

[PubMed - indexed for MEDLINE]

[Related citations](#)



480.

[Cannabinoids in clinical practice.](#)

Williamson EM, Evans FJ.

Drugs. 2000 Dec;60(6):1303-14. Review.

PMID:

11152013

[PubMed - indexed for MEDLINE]

[Related citations](#)

[Serum-dependent effects of tamoxifen and cannabinoids upon C6 glioma cell viability.](#)

Jacobsson SO, Rongård E, Stridh M, Tiger G, Fowler CJ.

Biochem Pharmacol. 2000 Dec 15;60(12):1807-13.

PMID:

11108795

[PubMed - indexed for MEDLINE]

[Related citations](#)



482.

[Stability of cannabinoids in hair samples exposed to sunlight.](#)

Skopp G, Pötsch L, Mauden M.

Clin Chem. 2000 Nov;46(11):1846-8. No abstract available.

PMID:

11067826

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



483.

[Synthesis of a primary metabolite of cannabidiol.](#)

Tchilibon S, Mechoulam R.

Org Lett. 2000 Oct 19;2(21):3301-3.

PMID:

11029195

[PubMed - indexed for MEDLINE]

[Related citations](#)



484.

[Capillary electrochromatography of cannabinoids.](#)

Lurie IS, Meyers RP, Conner TS.

Anal Chem. 1998 Aug 1;70(15):3255-60.

PMID:

11013726

[PubMed - indexed for MEDLINE]

[Related citations](#)



485.

[Effects of unsaturated side-chain analogs of tetrahydrocannabinol on cytochromes P450.](#)

Bornheim LM.

Biochem Pharmacol. 2000 Oct 1;60(7):955-61.

PMID:

10974204

[PubMed - indexed for MEDLINE]

[Related citations](#)



486.

[Characterisation of cannabis plants phenotypes from illegal cultivations in Crete.](#)

Tsatsakis AM, Tutudaki M, Stiakakis I, Dimopoulou M, Tzatzarakis M, Michalodimitrakis M.

Boll Chim Farm. 2000 May-Jun;139(3):140-5.

PMID:

10961025

[PubMed - indexed for MEDLINE]

[Related citations](#)



487.

[Immunoactive cannabinoids: therapeutic prospects for marijuana constituents.](#)

Straus SE.

Proc Natl Acad Sci U S A. 2000 Aug 15;97(17):9363-4. No abstract available.

PMID:

10931962

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



488.

[The nonpsychoactive cannabis constituent **cannabidiol** is an oral anti-arthritic therapeutic in murine collagen-induced arthritis.](#)

Malfait AM, Gallily R, Sumariwalla PF, Malik AS, Andreakos E, Mechoulam R, Feldmann M.

Proc Natl Acad Sci U S A. 2000 Aug 15;97(17):9561-6.

PMID:

10920191

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



489.

[Cannabinoids protect cells from oxidative cell death: a receptor-independent mechanism.](#)

Chen Y, Buck J.

J Pharmacol Exp Ther. 2000 Jun;293(3):807-12.

PMID:

10869379

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



490.

[Neuroprotective antioxidants from marijuana.](#)

Hampson AJ, Grimaldi M, Lolic M, Wink D, Rosenthal R, Axelrod J.

Ann N Y Acad Sci. 2000;899:274-82. Review.

PMID:

10863546

[PubMed - indexed for MEDLINE]

[Related citations](#)



491.

[Different effects of nabilone and cannabidiol on binocular depth inversion in Man.](#)

Leweke FM, Schneider U, Radwan M, Schmidt E, Emrich HM.

Pharmacol Biochem Behav. 2000 May;66(1):175-81.

PMID:

10837858

[PubMed - indexed for MEDLINE]

[Related citations](#)



492.

[Synthesis and cytotoxic effects of deoxy-tomentellin.](#)

Han DS, Jung KH, Jung WY, Oh IK, Kang KU, Baek SH.

Arch Pharm Res. 2000 Apr;23(2):121-7.

PMID:

10836737

[PubMed - indexed for MEDLINE]

[Related citations](#)



493.

[\[Cannabis-induced arteriopathy\].](#)

Nahas G.

Presse Med. 2000 Apr 22-29;29(15):845. French. No abstract available.

PMID:

10827792

[PubMed - indexed for MEDLINE]

[Related citations](#)



494.

[Membrane associated antitumor effects of crocine-, ginsenoside- and cannabinoid derivates.](#)

Molnár J, Szabó D, Pusztai R, Mucsi I, Berek L, Ocsovszki I, Kawata E, Shoyama Y.

Anticancer Res. 2000 Mar-Apr;20(2A):861-7.

PMID:

10810367

[PubMed - indexed for MEDLINE]

[Related citations](#)



495.

[Cannabinoid ligands and their effects on learning and performance in rhesus monkeys.](#)

Winsauer PJ, Lambert P, Moerschbaecher JM.

Behav Pharmacol. 1999 Sep;10(5):497-511.

PMID:

10780256

[PubMed - indexed for MEDLINE]

[Related citations](#)



496.

[Detection of THCCOOH in hair by MSD-NCI after HPLC clean-up.](#)

Sachs H, Dressler U.

Forensic Sci Int. 2000 Jan 10;107(1-3):239-47.

PMID:

10689576

[PubMed - indexed for MEDLINE]

[Related citations](#)



497.

[Use of headspace solid-phase microextraction \(HS-SPME\) in hair analysis for organic compounds.](#)

Sporkert F, Pragst F.

Forensic Sci Int. 2000 Jan 10;107(1-3):129-48.

PMID:

10689567

[PubMed - indexed for MEDLINE]

[Related citations](#)



498.

[Potency trends of delta9-THC and other cannabinoids in confiscated marijuana from 1980-1997.](#)

EISohly MA, Ross SA, Mehmedic Z, Arafat R, Yi B, Banahan BF 3rd.

J Forensic Sci. 2000 Jan;45(1):24-30.

PMID:

10641915

[PubMed - indexed for MEDLINE]

[Related citations](#)



499.

[Synthesis and pharmacological evaluation in mice of halogenated **cannabidiol** derivatives.](#)

Usami N, Okuda T, Yoshida H, Kimura T, Watanabe K, Yoshimura H, Yamamoto I.

Chem Pharm Bull (Tokyo). 1999 Nov;47(11):1641-5.

PMID:

10605059

[PubMed - indexed for MEDLINE]

[Related citations](#)



500.

[Cancer cachexia and cannabinoids.](#)

Gorter RW.

Forsch Komplementarmed. 1999 Oct;6 Suppl 3:21-2. Review.

PMID:

10575285

[PubMed - indexed for MEDLINE]

[Related citations](#)

[Cannabinoid-induced mesenteric vasodilation through an endothelial site distinct from CB1 or CB2 receptors.](#)

Járai Z, Wagner JA, Varga K, Lake KD, Compton DR, Martin BR, Zimmer AM, Bonner TI, Buckley NE, Mezey E, Razdan RK, Zimmer A, Kunos G.

Proc Natl Acad Sci U S A. 1999 Nov 23;96(24):14136-41.

PMID:

10570211

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



502.

[Are cannabinoids detected in hair after washing with Cannabio shampoo?](#)

Cirimele V, Kintz P, Jamey C, Ludes B.

J Anal Toxicol. 1999 Sep;23(5):349-51.

PMID:

10488922

[PubMed - indexed for MEDLINE]

[Related citations](#)



503.

[Cannabinoids, endogenous ligands and synthetic analogs.](#)

Pop E.

Curr Opin Chem Biol. 1999 Aug;3(4):418-25. Review.

PMID:

10419842

[PubMed - indexed for MEDLINE]

[Related citations](#)



504.

[Solid-phase microextraction for cannabinoids analysis in hair and its possible application to other drugs.](#)

Strano-Rossi S, Chiarotti M.

J Anal Toxicol. 1999 Jan-Feb;23(1):7-10.

PMID:

10022202

[PubMed - indexed for MEDLINE]

[Related citations](#)



505.

[Delta9 tetrahydrocannabinol and cannabidiol alter cytokine production by human immune cells.](#)

Srivastava MD, Srivastava BI, Brouhard B.

Immunopharmacology. 1998 Nov;40(3):179-85.

PMID:

9858061

[PubMed - indexed for MEDLINE]

[Related citations](#)



506.

[\[Quantitative analysis and pharmaco-toxicity of cannabinoids in commercially available cannabis seeds\].](#)

Matsunaga T, Watanabe K, Yoshimura H, Yamamoto I.

Yakugaku Zasshi. 1998 Sep;118(9):408-14. Japanese.

PMID:

9779001

[PubMed - indexed for MEDLINE]

[Related citations](#)



507.

[Characterization of cytochrome P450 3A inactivation by cannabidiol: possible involvement of cannabidiol-hydroxyquinone as a P450 inactivator.](#)

Bornheim LM, Grillo MP.

Chem Res Toxicol. 1998 Oct;11(10):1209-16.

PMID:

9778318

[PubMed - indexed for MEDLINE]

[Related citations](#)



508.

[Complex pharmacology of natural cannabinoids: evidence for partial agonist activity of delta9-tetrahydrocannabinol and antagonist activity of cannabidiol on rat brain cannabinoid receptors.](#)

Petit F, Jeantaud B, Reibaud M, Imperato A, Dubroeuq MC.

Life Sci. 1998;63(1):PL1-6.

PMID:

9667767

[PubMed - indexed for MEDLINE]

[Related citations](#)



509.

[Cannabidiol and \(-\)-Delta9-tetrahydrocannabinol are neuroprotective antioxidants.](#)

Hampson AJ, Grimaldi M, Axelrod J, Wink D.

Proc Natl Acad Sci U S A. 1998 Jul 7;95(14):8268-73.

PMID:

9653176

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



510.

[Effect of cytochrome P450 inducers on cocaine-mediated hepatotoxicity.](#)

Bornheim LM.

Toxicol Appl Pharmacol. 1998 May;150(1):158-65.

PMID:

9630465

[PubMed - indexed for MEDLINE]

[Related citations](#)



511.

[Determination of cannabinoids in water and human saliva by solid-phase microextraction and quadrupole ion trap gas chromatography/mass spectrometry.](#)

Hall BJ, Satterfield-Doerr M, Parikh AR, Brodbelt JS.

Anal Chem. 1998 May 1;70(9):1788-96.

PMID:

9599579

[PubMed - indexed for MEDLINE]

[Related citations](#)



512.

[Comparative receptor binding analyses of cannabinoid agonists and antagonists.](#)

Thomas BF, Gilliam AF, Burch DF, Roche MJ, Seltzman HH.

J Pharmacol Exp Ther. 1998 Apr;285(1):285-92.

PMID:

9536023

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



513.

[Distribution and characterization of anandamide amidohydrolase in mouse brain and liver.](#)

Watanabe K, Ogi H, Nakamura S, Kayano Y, Matsunaga T, Yoshimura H, Yamamoto I.

Life Sci. 1998;62(14):1223-9.

PMID:

9570337

[PubMed - indexed for MEDLINE]

[Related citations](#)



514.

[SR141716A antagonizes the disruptive effects of cannabinoid ligands on learning in rats.](#)

Brodkin J, Moerschbaecher JM.

J Pharmacol Exp Ther. 1997 Sep;282(3):1526-32.

PMID:

9316868

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



515.

[Clinical pharmacokinetics of escalating i.v. doses of dexanabinol \(HU-211\), a neuroprotectant agent, in normal volunteers.](#)

Brewster ME, Pop E, Foltz RL, Reuschel S, Griffith W, Amselem S, Biegon A.

Int J Clin Pharmacol Ther. 1997 Sep;35(9):361-5.

PMID:

9314087

[PubMed - indexed for MEDLINE]

[Related citations](#)



516.

[A preliminary study of the analysis of Cannabis by supercritical fluid chromatography with atmospheric pressure chemical ionisation mass spectroscopic detection.](#)

Bäckström B, Cole MD, Carrott MJ, Jones DC, Davidson G, Coleman K.

Sci Justice. 1997 Apr-Jun;37(2):91-7.

PMID:

9206314

[PubMed - indexed for MEDLINE]

[Related citations](#)



517.

[Cannabinoids excite dopamine neurons in the ventral tegmentum and substantia nigra.](#)

French ED, Dillon K, Wu X.

Neuroreport. 1997 Feb 10;8(3):649-52.

PMID:

9106740

[PubMed - indexed for MEDLINE]

[Related citations](#)



518.

[Failure of cannabinoid compounds to stimulate estrogen receptors.](#)

Ruh MF, Taylor JA, Howlett AC, Welshons WV.

Biochem Pharmacol. 1997 Jan 10;53(1):35-41.

PMID:

8960061

[PubMed - indexed for MEDLINE]

[Related citations](#)



519.

[Psychoactive cannabinoids increase mortality and alter acute phase cytokine responses in mice sublethally infected with Legionella pneumophila.](#)

Smith MS, Yamamoto Y, Newton C, Friedman H, Klein T.

Proc Soc Exp Biol Med. 1997 Jan;214(1):69-75.

PMID:

9012363

[PubMed - indexed for MEDLINE]

[Related citations](#)



520.

[Tetrahydrocannabinol inhibition of macrophage nitric oxide production.](#)

Coffey RG, Yamamoto Y, Snella E, Pross S.

Biochem Pharmacol. 1996 Sep 13;52(5):743-51.

PMID:

8765472

[PubMed - indexed for MEDLINE]

[Related citations](#)

[Inhibition of anandamide amidase activity in mouse brain microsomes by cannabinoids.](#)

Watanabe K, Kayano Y, Matsunaga T, Yamamoto I, Yoshimura H.

Biol Pharm Bull. 1996 Aug;19(8):1109-11.

PMID:

8874830

[PubMed - indexed for MEDLINE]

[Related citations](#)



522.

[Inhibition of cyclosporine and tetrahydrocannabinol metabolism by **cannabidiol** in mouse and human microsomes.](#)

Jaeger W, Benet LZ, Bornheim LM.

Xenobiotica. 1996 Mar;26(3):275-84.

PMID:

8730919

[PubMed - indexed for MEDLINE]

[Related citations](#)



523.

[Testing human hair for Cannabis. III. rapid screening procedure for the simultaneous identification of delta 9-tetrahydrocannabinol, cannabinol, and **cannabidiol**.](#)

Cirimele V, Sachs H, Kintz P, Mangin P.

J Anal Toxicol. 1996 Jan-Feb;20(1):13-6.

PMID:

8837945

[PubMed - indexed for MEDLINE]

[Related citations](#)



524.

[The preimplantation mouse embryo is a target for cannabinoid ligand-receptor signaling.](#)

Paria BC, Das SK, Dey SK.

Proc Natl Acad Sci U S A. 1995 Oct 10;92(21):9460-4.

PMID:

7568154

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



525.

[Antipsychotic effect of **cannabidiol**.](#)

Zuardi AW, Morais SL, Guimarães FS, Mechoulam R.

J Clin Psychiatry. 1995 Oct;56(10):485-6. No abstract available.

PMID:

7559378

[PubMed - indexed for MEDLINE]

[Related citations](#)



526.

[Cannabinoids in humans. I. Analysis of delta 9-tetrahydrocannabinol and six metabolites in plasma and urine using GC-MS.](#)

Kemp PM, Abukhalaf IK, Manno JE, Manno BR, Alford DD, Abusada GA.

J Anal Toxicol. 1995 Sep;19(5):285-91.

PMID:

7500614

[PubMed - indexed for MEDLINE]

[Related citations](#)



527.

[A novel metabolite, an oxepin formed from **cannabidiol** with guinea-pig hepatic microsomes.](#)

Yamamoto I, Nagai K, Watanabe K, Matsunaga T, Yoshimura H.

J Pharm Pharmacol. 1995 Aug;47(8):683-6.

PMID:

8583373

[PubMed - indexed for MEDLINE]

[Related citations](#)



528.

[Recent advances in the metabolism of cannabinoids.](#)

Yamamoto I, Watanabe K, Narimatsu S, Yoshimura H.

Int J Biochem Cell Biol. 1995 Aug;27(8):741-6. Review. Erratum in: Int J Biochem Cell Biol 1995 Dec;27(12):1365.

PMID:

7584607

[PubMed - indexed for MEDLINE]

[Related citations](#)



529.

[Effect of **cannabidiol** pretreatment on the kinetics of tetrahydrocannabinol metabolites in mouse brain.](#)

Bornheim LM, Kim KY, Li J, Perotti BY, Benet LZ.

Drug Metab Dispos. 1995 Aug;23(8):825-31.

PMID:

7493549

[PubMed - indexed for MEDLINE]

[Related citations](#)



530.

[Systemic or intrahippocampal cannabinoid administration impairs spatial memory in rats.](#)

Lichtman AH, Dimen KR, Martin BR.

Psychopharmacology (Berl). 1995 Jun;119(3):282-90.

PMID:

7675962

[PubMed - indexed for MEDLINE]

[Related citations](#)



531.

[Cannabinoid ligand-receptor signaling in the mouse uterus.](#)

Das SK, Paria BC, Chakraborty I, Dey SK.

Proc Natl Acad Sci U S A. 1995 May 9;92(10):4332-6.

PMID:

7753807

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



532.

[Other therapies for wasting.](#)

Smart T.

GMHC Treat Issues. 1995 May;9(5):7-8, 12.

PMID:

11362415

[PubMed - indexed for MEDLINE]

[Related citations](#)



533.

[\[Gas chromatographic analysis of cannabinoids on tandem columns\].](#)

Petri G, Nyiredy S, Veszki P, Oroszlán P, Turiák G.

Acta Pharm Hung. 1995 May;65(3):63-7. Hungarian.

PMID:

7572186

[PubMed - indexed for MEDLINE]

[Related citations](#)



534.

[Formation of carbon monoxide during mouse hepatic microsomal oxidative metabolism of **cannabidiol**; identification and determination.](#)

Usami N, Tateoka Y, Watanabe K, Yamamoto I, Yoshimura H.

Biol Pharm Bull. 1995 Apr;18(4):529-35.

PMID:

7655421

[PubMed - indexed for MEDLINE]

[Related citations](#)



535.

[The design, synthesis and testing of desoxy-CBD: further evidence for a region of steric interference at the cannabinoid receptor.](#)

Reggio PH, Bramblett RD, Yuknavich H, Seltzman HH, Fleming DN, Fernando SR, Stevenson LA, Pertwee RG.

Life Sci. 1995;56(23-24):2025-32.

PMID:

7776828

[PubMed - indexed for MEDLINE]

[Related citations](#)



536.

[Mammary excretion of **cannabidiol** in rabbits after intravenous administration.](#)

Yoo SD, Fincher TK, Holladay JW.

J Pharm Pharmacol. 1994 Nov;46(11):926-8.

PMID:

7897602

[PubMed - indexed for MEDLINE]

[Related citations](#)



537.

[Induction and genetic regulation of mouse hepatic cytochrome P450 by **cannabidiol**.](#)

Bornheim LM, Everhart ET, Li J, Correia MA.

Biochem Pharmacol. 1994 Jul 5;48(1):161-71.

PMID:

8043019

[PubMed - indexed for MEDLINE]

[Related citations](#)



538.

[In vitro activation of brain protein kinase C by the cannabinoids.](#)

Hillard CJ, Auchampach JA.

Biochim Biophys Acta. 1994 Jan 13;1220(2):163-70.

PMID:

8312360

[PubMed - indexed for MEDLINE]

[Related citations](#)



539.

[Cocaine N-demethylation and the metabolism-related hepatotoxicity can be prevented by cytochrome P450 3A inhibitors.](#)

Pellinen P, Honkakoski P, Stenbäck F, Niemitz M, Alhava E, Pelkonen O, Lang MA, Pasanen M.

Eur J Pharmacol. 1994 Jan 3;270(1):35-43.

PMID:

8157080

[PubMed - indexed for MEDLINE]

[Related citations](#)



540.

[Anxiolytic effect of **cannabidiol** derivatives in the elevated plus-maze.](#)

Guimarães FS, de Aguiar JC, Mechoulam R, Breuer A.

Gen Pharmacol. 1994 Jan;25(1):161-4.

PMID:

7913072

[PubMed - indexed for MEDLINE]

[Related citations](#)

541.

[Comparison of three advanced chromatographic techniques for cannabis identification.](#)

Debruyne D, Albessard F, Bigot MC, Moulin M.

Bull Narc. 1994;46(2):109-21.

PMID:

7866395

[PubMed - indexed for MEDLINE]

[Related citations](#)



542.

[The effect of **cannabidiol** on mouse hepatic microsomal cytochrome P450-dependent anandamide metabolism.](#)

Bornheim LM, Kim KY, Chen B, Correia MA.

Biochem Biophys Res Commun. 1993 Dec 15;197(2):740-6.

PMID:

8267610

[PubMed - indexed for MEDLINE]

[Related citations](#)



543.

[In vitro metabolic formation of a new metabolite, 6 beta-hydroxymethyl-delta 9-tetrahydrocannabinol from **cannabidiol** through an epoxide intermediate and its pharmacological effects on mice.](#)

Nagai K, Watanabe K, Narimatsu S, Gohda H, Matsunaga T, Yamamoto I, Yoshimura H.

Biol Pharm Bull. 1993 Oct;16(10):1008-13.

PMID:

8287029

[PubMed - indexed for MEDLINE]

[Related citations](#)



544.

[Pharmacological evaluation of iodo and nitro analogs of delta 8-THC and delta 9-THC.](#)

Martin BR, Compton DR, Semus SF, Lin S, Marciniak G, Grzybowska J, Charalambous A, Makriyannis A.

Pharmacol Biochem Behav. 1993 Oct;46(2):295-301.

PMID:

8265683

[PubMed - indexed for MEDLINE]

[Related citations](#)



545.

[Chronic cannabinoid administration alters cannabinoid receptor binding in rat brain: a quantitative autoradiographic study.](#)

Oviedo A, Glowa J, Herkenham M.

Brain Res. 1993 Jul 9;616(1-2):293-302.

PMID:

8395305

[PubMed - indexed for MEDLINE]

[Related citations](#)



546.

[Cannabinoids inhibit agonist-stimulated formation of inositol phosphates in rat hippocampal cultures.](#)

Nah SY, Saya D, Vogel Z.

Eur J Pharmacol. 1993 Jun 15;246(1):19-24.

PMID:

8102606

[PubMed - indexed for MEDLINE]

[Related citations](#)



547.

[Suppression of liver microsomal drug-metabolizing enzyme activities in adult female rats pretreated with **cannabidiol**.](#)

Narimatsu S, Watanabe K, Matsunaga T, Yamamoto I, Imaoka S, Funae Y, Yoshimura H.

Biol Pharm Bull. 1993 Apr;16(4):428-30.

PMID:

8395282

[PubMed - indexed for MEDLINE]

[Related citations](#)



548.

[Characterization of **cannabidiol**-mediated cytochrome P450 inactivation.](#)

Bornheim LM, Everhart ET, Li J, Correia MA.

Biochem Pharmacol. 1993 Mar 24;45(6):1323-31.

PMID:

8466552

[PubMed - indexed for MEDLINE]

[Related citations](#)



549.

[Effect of **cannabidiol** on plasma prolactin, growth hormone and cortisol in human volunteers.](#)

Zuardi AW, Guimarães FS, Moreira AC.

Braz J Med Biol Res. 1993 Feb;26(2):213-7.

PMID:

8257923

[PubMed - indexed for MEDLINE]

[Related citations](#)

550.

[Solubilization of the cannabinoid receptor from rat brain and its functional interaction with guanine nucleotide-binding proteins.](#)

Houston DB, Howlett AC.

Mol Pharmacol. 1993 Jan;43(1):17-22.

PMID:

8423766

[PubMed - indexed for MEDLINE]

[Related citations](#)

551.

[Effects of delta-9-tetrahydrocannabinol on delayed match to sample performance in rats: alterations in short-term memory associated with changes in task specific firing of hippocampal cells.](#)

Heyser CJ, Hampson RE, Deadwyler SA.

J Pharmacol Exp Ther. 1993 Jan;264(1):294-307.

PMID:

8380864

[PubMed - indexed for MEDLINE]

[Related citations](#)

552.

[In vitro effects of psychoactive and non-psychoactive cannabinoids on immature rat Sertoli cell function.](#)

Newton SC, Murphy LL, Bartke A.

Life Sci. 1993;53(18):1429-37.

PMID:

8231631

[PubMed - indexed for MEDLINE]

[Related citations](#)

553.

[Some features of Cannabis plants grown in the United Kingdom from seeds of known origin.](#)

Pitts JE, Neal JD, Gough TA.

J Pharm Pharmacol. 1992 Dec;44(12):947-51.

PMID:

1361557

[PubMed - indexed for MEDLINE]

[Related citations](#)



554.

[Cytoskeletal organization following cannabinoid treatment in undifferentiated and differentiated PC12 cells.](#)

Tahir SK, Trogadis JE, Stevens JK, Zimmerman AM.

Biochem Cell Biol. 1992 Oct-Nov;70(10-11):1159-73.

PMID:

1297339

[PubMed - indexed for MEDLINE]

[Related citations](#)



555.

[Pharmacological profile of a series of bicyclic cannabinoid analogs: classification as cannabimimetic agents.](#)

Compton DR, Johnson MR, Melvin LS, Martin BR.

J Pharmacol Exp Ther. 1992 Jan;260(1):201-9.

PMID:

1309872

[PubMed - indexed for MEDLINE]

[Related citations](#)



556.

[Chronic marijuana smoke exposure in the rhesus monkey. IV: Neurochemical effects and comparison to acute and chronic exposure to delta-9-tetrahydrocannabinol \(THC\) in rats.](#)

Ali SF, Newport GD, Scallet AC, Paule MG, Bailey JR, Slikker W Jr.

Pharmacol Biochem Behav. 1991 Nov;40(3):677-82.

PMID:

1666927

[PubMed - indexed for MEDLINE]

[Related citations](#)



557.

[Controlled clinical trial of **cannabidiol** in Huntington's disease.](#)

Consroe P, Laguna J, Allender J, Snider S, Stern L, Sandyk R, Kennedy K, Schram K.

Pharmacol Biochem Behav. 1991 Nov;40(3):701-8.

PMID:

1839644

[PubMed - indexed for MEDLINE]

[Related citations](#)



558.

[Influence of marihuana on cellular structures and biochemical activities.](#)

Tahir SK, Zimmerman AM.

Pharmacol Biochem Behav. 1991 Nov;40(3):617-23. Review.

PMID:

1806949

[PubMed - indexed for MEDLINE]

[Related citations](#)



559.

[Cannabinoids inhibit fertilization in sea urchins by reducing the fertilizing capacity of sperm.](#)

Schuel H, Chang MC, Berkery D, Schuel R, Zimmerman AM, Zimmerman S.

Pharmacol Biochem Behav. 1991 Nov;40(3):609-15.

PMID:

1806948

[PubMed - indexed for MEDLINE]

[Related citations](#)



560.

[Cannabielsoin as a new metabolite of **cannabidiol** in mammals.](#)

Yamamoto I, Gohda H, Narimatsu S, Watanabe K, Yoshimura H.

Pharmacol Biochem Behav. 1991 Nov;40(3):541-6.

PMID:

1806944

[PubMed - indexed for MEDLINE]

[Related citations](#)

561.

[Comparative in vitro metabolism of the cannabinoids.](#)

Harvey DJ, Brown NK.

Pharmacol Biochem Behav. 1991 Nov;40(3):533-40.

PMID:

1806943

[PubMed - indexed for MEDLINE]

[Related citations](#)



562.

[Comparative metabolism of **cannabidiol** in dog, rat and man.](#)

Harvey DJ, Samara E, Mechoulam R.

Pharmacol Biochem Behav. 1991 Nov;40(3):523-32.

PMID:

1806942

[PubMed - indexed for MEDLINE]

[Related citations](#)



563.

[An investigation of the involvement of GABA in certain pharmacological effects of delta-9-tetrahydrocannabinol.](#)

Pertwee RG, Browne SE, Ross TM, Stretton CD.

Pharmacol Biochem Behav. 1991 Nov;40(3):581-5.

PMID:

1666920

[PubMed - indexed for MEDLINE]

[Related citations](#)



564.

[Assay of plasma **cannabidiol** by capillary gas chromatography/ion trap mass spectroscopy following high-dose repeated daily oral administration in humans.](#)

Consroe P, Kennedy K, Schram K.

Pharmacol Biochem Behav. 1991 Nov;40(3):517-22.

PMID:

1666917

[PubMed - indexed for MEDLINE]

[Related citations](#)



565.

[Potentiation of the inductive effect of phenobarbital on cytochrome P450 mRNAs by **cannabidiol**.](#)

Deutsch DG, Tombler ER, March JE, Lo SH, Adesnik M.

Biochem Pharmacol. 1991 Oct 24;42(10):2048-53. No abstract available.

PMID:

1741782

[PubMed - indexed for MEDLINE]

[Related citations](#)



566.

[Metabolism of **cannabidiol** by the rat.](#)

Samara E, Bialer M, Harvey DJ.

Eur J Drug Metab Pharmacokinet. 1991 Oct-Dec;16(4):305-13.

PMID:

1823875

[PubMed - indexed for MEDLINE]

[Related citations](#)



567.

[Purification and characterization of the major hepatic cannabinoid hydroxylase in the mouse: a possible member of the cytochrome P-450IIC subfamily.](#)

Bornheim LM, Correia MA.

Mol Pharmacol. 1991 Aug;40(2):228-34.

PMID:

1875910

[PubMed - indexed for MEDLINE]

[Related citations](#)



568.

[Inhibitory effect of **cannabidiol** hydroxy-quinone, an oxidative product of **cannabidiol**, on the hepatic microsomal drug-metabolizing enzymes of mice.](#)

Watanabe K, Usami N, Yamamoto I, Yoshimura H.

J Pharmacobiodyn. 1991 Jul;14(7):421-7.

PMID:

1802990

[PubMed - indexed for MEDLINE]

[Related citations](#)



569.

[Cannabinoids and the hippocampal glucocorticoid receptor: recent findings and possible significance.](#)

Eldridge JC, Murphy LL, Landfield PW.

Steroids. 1991 May;56(5):226-31. Review.

PMID:

1652167

[PubMed - indexed for MEDLINE]

[Related citations](#)

570.

[Reduction of the fertilizing capacity of sea urchin sperm by cannabinoids derived from marihuana. II. Ultrastructural changes associated with inhibition of the acrosome reaction.](#)

Chang MC, Schuel H.

Mol Reprod Dev. 1991 May;29(1):60-71.

PMID:

1647173

[PubMed - indexed for MEDLINE]

[Related citations](#)

571.

[Reduction of the fertilizing capacity of sea urchin sperm by cannabinoids derived from marihuana. I. Inhibition of the acrosome reaction induced by egg jelly.](#)

Schuel H, Berkery D, Schuel R, Chang MC, Zimmerman AM, Zimmerman S.

Mol Reprod Dev. 1991 May;29(1):51-9.

PMID:

1647172

[PubMed - indexed for MEDLINE]

[Related citations](#)

572.

[Quantitative evaluation of spermatogenesis in mice following chronic exposure to cannabinoids.](#)

Patra PB, Wadsworth RM.

Andrologia. 1991 Mar-Apr;23(2):151-6.

PMID:

1659250

[PubMed - indexed for MEDLINE]

[Related citations](#)



573.

[Urinary metabolites of **cannabidiol** in dog, rat and man and their identification by gas chromatography-mass spectrometry.](#)

Harvey DJ, Samara E, Mechoulam R.

J Chromatogr. 1991 Jan 2;562(1-2):299-322.

PMID:

2026700

[PubMed - indexed for MEDLINE]

[Related citations](#)



574.

[Effects of **cannabidiol** in animal models predictive of antipsychotic activity.](#)

Zuardi AW, Rodrigues JA, Cunha JM.

Psychopharmacology (Berl). 1991;104(2):260-4.

PMID:

1678894

[PubMed - indexed for MEDLINE]

[Related citations](#)



575.

[Marijuana components stimulate human peripheral blood mononuclear cell secretion of interferon-gamma and suppress interleukin-1 alpha in vitro.](#)

Watzl B, Scuderi P, Watson RR.

Int J Immunopharmacol. 1991;13(8):1091-7.

PMID:

1667651

[PubMed - indexed for MEDLINE]

[Related citations](#)



576.

[Influence of marijuana components \(THC and CBD\) on human mononuclear cell cytokine secretion in vitro.](#)

Watzl B, Scuderi P, Watson RR.

Adv Exp Med Biol. 1991;288:63-70. No abstract available.

PMID:

1659139

[PubMed - indexed for MEDLINE]

[Related citations](#)



577.

[Discriminative stimulus functions of cannabinoids/cannabimimetics.](#)

Järbe TU, Mathis DA.

NIDA Res Monogr. 1991;(116):75-99. Review. No abstract available.

PMID:

1369683

[PubMed - indexed for MEDLINE]

[Related citations](#)



578.

[Pharmacokinetics of urinary metabolites of **cannabidiol** in the dog.](#)

Samara E, Bialer M, Harvey DJ.

Biopharm Drug Dispos. 1990 Dec;11(9):785-95.

PMID:

2271754

[PubMed - indexed for MEDLINE]

[Related citations](#)



579.

[Cannabinoid interactions with glucocorticoid receptors in rat hippocampus.](#)

Eldridge JC, Landfield PW.

Brain Res. 1990 Nov 26;534(1-2):135-41.

PMID:

1963558

[PubMed - indexed for MEDLINE]

[Related citations](#)



580.

[Effects of delta-9-tetrahydrocannabinol, cannabinol and **cannabidiol**, alone and in combinations, on luteinizing hormone and prolactin release and on hypothalamic neurotransmitters in the male rat.](#)

Murphy LL, Steger RW, Smith MS, Bartke A.

Neuroendocrinology. 1990 Oct;52(4):316-21.

PMID:

1979838

[PubMed - indexed for MEDLINE]

[Related citations](#)

[Effects of psychoactive and nonpsychoactive cannabinoids on the hypothalamic-pituitary axis of the adult male rat.](#)

Steger RW, Murphy LL, Bartke A, Smith MS.

Pharmacol Biochem Behav. 1990 Oct;37(2):299-302.

PMID:

1964220

[PubMed - indexed for MEDLINE]

[Related citations](#)



582.

[Selective inactivation of mouse liver cytochrome P-450III_A by **cannabidiol**.](#)

Bornheim LM, Correia MA.

Mol Pharmacol. 1990 Sep;38(3):319-26.

PMID:

2402224

[PubMed - indexed for MEDLINE]

[Related citations](#)

583.

[In vitro metabolism of **cannabidiol** in the rabbit: identification of seventeen new metabolites including thirteen dihydroxylated in the isopropenyl chain.](#)

Harvey DJ, Brown NK.

Biomed Environ Mass Spectrom. 1990 Sep;19(9):559-67.

PMID:

2224184

[PubMed - indexed for MEDLINE]

[Related citations](#)

584.

[Identification of urinary metabolites of **cannabidiol** in the dog.](#)

Samara E, Bialer M, Harvey DJ.

Drug Metab Dispos. 1990 Sep-Oct;18(5):571-9.

PMID:

1981704

[PubMed - indexed for MEDLINE]

[Related citations](#)

585.

[Microsomal metabolism of the 1",1"-dimethylheptyl analogue of **cannabidiol**: relative percentage of monohydroxy metabolites in four species.](#)

Samara E, Brown NK, Harvey DJ.

Drug Metab Dispos. 1990 Jul-Aug;18(4):548-9. No abstract available.

PMID:

1976083

[PubMed - indexed for MEDLINE]

[Related citations](#)

586.

[In vivo and in vitro metabolism of **cannabidiol** monomethyl ether and **cannabidiol** dimethyl ether in the guinea pig: on the formation mechanism of cannabielsoin-type metabolite from **cannabidiol**.](#)

Gohda H, Narimatsu S, Yamamoto I, Yoshimura H.

Chem Pharm Bull (Tokyo). 1990 Jun;38(6):1697-701.

PMID:

2208386

[PubMed - indexed for MEDLINE]

[Related citations](#)



587.

[Pharmacological characterization of cannabinoids in the elevated plus maze.](#)

Onaivi ES, Green MR, Martin BR.

J Pharmacol Exp Ther. 1990 Jun;253(3):1002-9.

PMID:

2162942

[PubMed - indexed for MEDLINE]

[Related citations](#)



588.

[Inhibition of hepatic microsomal cytochrome P450 by **cannabidiol** in adult male rats.](#)

Narimatsu S, Watanabe K, Matsunaga T, Yamamoto I, Imaoka S, Funae Y, Yoshimura H.

Chem Pharm Bull (Tokyo). 1990 May;38(5):1365-8.

PMID:

2393963

[PubMed - indexed for MEDLINE]

[Related citations](#)



589.

[Identification of metabolites of the 1",1"-dimethylheptyl analogue of **cannabidiol** in rat and dog in vivo.](#)

Samara E, Bialer M, Bar-On H, Harvey DJ.

Xenobiotica. 1990 May;20(5):447-55.

PMID:

2349804

[PubMed - indexed for MEDLINE]

[Related citations](#)



590.

[Synthesis and pharmacological evaluation of amino, azido, and nitrogen mustard analogues of 10-substituted **cannabidiol** and 11- or 12-substituted delta 8-tetrahydrocannabinol.](#)

Compton DR, Little PJ, Martin BR, Gilman JW, Saha JK, Jorapur VS, Sard HP, Razdan RK.

J Med Chem. 1990 May;33(5):1437-43.

PMID:

2158563

[PubMed - indexed for MEDLINE]

[Related citations](#)



591.

[Metabolites of **cannabidiol** identified in human urine.](#)

Harvey DJ, Mechoulam R.

Xenobiotica. 1990 Mar;20(3):303-20.

PMID:

2336840

[PubMed - indexed for MEDLINE]

[Related citations](#)



592.

[Studies of the role of membrane lipid order in the effects of delta 9-tetrahydrocannabinol on adenylate cyclase activation in heart.](#)

Hillard CJ, Pounds JJ, Boyer DR, Bloom AS.

J Pharmacol Exp Ther. 1990 Mar;252(3):1075-82.

PMID:

2156989

[PubMed - indexed for MEDLINE]

[Related citations](#)



593.

[Identification of glucose conjugates as major urinary metabolites of **cannabidiol** in the dog.](#)

Samara E, Bialer M, Harvey DJ.

Xenobiotica. 1990 Feb;20(2):177-83.

PMID:

2333714

[PubMed - indexed for MEDLINE]

[Related citations](#)



594.

[Genetic effects of marijuana.](#)

Zimmerman S, Zimmerman AM.

Int J Addict. 1990-1991;25(1A):19-33. Review.

PMID:

2174024

[PubMed - indexed for MEDLINE]

[Related citations](#)



595.

[Antianxiety effect of **cannabidiol** in the elevated plus-maze.](#)

Guimarães FS, Chiaretti TM, Graeff FG, Zuardi AW.

Psychopharmacology (Berl). 1990;100(4):558-9.

PMID:

1969666

[PubMed - indexed for MEDLINE]

[Related citations](#)

596.

[The effects of pH and temperature on the in vitro bindings of delta-9-tetrahydrocannabinol and other cannabinoids to bovine serum albumin.](#)

Papa VM, Shen ML, Ou DW.

J Pharm Biomed Anal. 1990;8(4):353-6.

PMID:

1966044

[PubMed - indexed for MEDLINE]

[Related citations](#)

597.

[The inhibitory effects of cannabinoids, the active constituents of Cannabis sativa L. on human and rabbit platelet aggregation.](#)

Formukong EA, Evans AT, Evans FJ.

J Pharm Pharmacol. 1989 Oct;41(10):705-9.

PMID:

2575149

[PubMed - indexed for MEDLINE]

[Related citations](#)

598.

[Regulation of adenylate cyclase by cannabinoid drugs. Insights based on thermodynamic studies.](#)

Howlett AC, Scott DK, Wilken GH.

Biochem Pharmacol. 1989 Oct 1;38(19):3297-304.

PMID:

2554920

[PubMed - indexed for MEDLINE]

[Related citations](#)

599.

[Purification and characterization of a mouse liver cytochrome P-450 induced by **cannabidiol**.](#)

Bornheim LM, Correia MA.

Mol Pharmacol. 1989 Sep;36(3):377-83.

PMID:

2779523

[PubMed - indexed for MEDLINE]

[Related citations](#)



600.

[Effect of **cannabidiol** on cytochrome P-450 isozymes.](#)

Bornheim LM, Correia MA.

Biochem Pharmacol. 1989 Sep 1;38(17):2789-94.

PMID:

2550010

[PubMed - indexed for MEDLINE]

[Related citations](#)

[Mechanism of biological formation of cannabielsoin from **cannabidiol** in the guinea-pig, mouse, rat and rabbit.](#)

Yamamoto I, Gohda H, Narimatsu S, Yoshimura H.

J Pharmacobiodyn. 1989 Aug;12(8):488-94.

PMID:

2614640

[PubMed - indexed for MEDLINE]

[Related citations](#)



602.

[Pentylentetrazol kindling in mice.](#)

Karler R, Murphy V, Calder LD, Turkanis SA.

Neuropharmacology. 1989 Aug;28(8):775-80.

PMID:

2571101

[PubMed - indexed for MEDLINE]

[Related citations](#)



603.

[Psychoactive cannabinoids reduce gastrointestinal propulsion and motility in rodents.](#)

Shook JE, Burks TF.

J Pharmacol Exp Ther. 1989 May;249(2):444-9.

PMID:

2542532

[PubMed - indexed for MEDLINE]

[Related citations](#)



604.

[Behaviour in rats maintained by low differential reinforcement rate: effects of delta 1-tetrahydrocannabinol, cannabinol and **cannabidiol**, alone and in combination.](#)

Hiltunen AJ, Järbe TU, Kamkar MR, Archer T.

Neuropharmacology. 1989 Feb;28(2):183-9.

PMID:

2541367

[PubMed - indexed for MEDLINE]

[Related citations](#)



605.

[Cannabis plants illicitly grown in Jutland \(Denmark\).](#)

Kaa E.

Z Rechtsmed. 1989;102(6):367-75.

PMID:

2544068

[PubMed - indexed for MEDLINE]

[Related citations](#)

606.

[Diazotized dapsone as a reagent for the detection of cannabinoids on thin-layer chromatographic plates.](#)

Mali BD, Parulekar PP.

J Chromatogr. 1988 Dec 21;457:383-6. No abstract available.

PMID:

2854140

[PubMed - indexed for MEDLINE]

[Related citations](#)

607.

[Formation of similar species to carbon monoxide during hepatic microsomal metabolism of **cannabidiol** on the basis of spectral interaction with cytochrome P-450.](#)

Watanabe K, Narimatsu S, Gohda H, Yamamoto I, Yoshimura H.

Biochem Pharmacol. 1988 Dec 15;37(24):4719-26.

PMID:

3202905

[PubMed - indexed for MEDLINE]

[Related citations](#)

608.

[Identification of cannabielsoin, a new metabolite of **cannabidiol** formed by guinea-pig hepatic microsomal enzymes, and its pharmacological activity in mice.](#)

Yamamoto I, Gohda H, Narimatsu S, Yoshimura H.

J Pharmacobiodyn. 1988 Dec;11(12):833-8.

PMID:

3254981

[PubMed - indexed for MEDLINE]

[Related citations](#)

609.

[Delta 9-tetrahydrocannabinol increases arachidonic acid levels in guinea pig cerebral cortex slices.](#)

Reichman M, Nen W, Hokin LE.

Mol Pharmacol. 1988 Dec;34(6):823-8.

PMID:

2849049

[PubMed - indexed for MEDLINE]

[Related citations](#)



610.

[Mechanism for inhibitory effect of **cannabidiol** on microsomal testosterone oxidation in male rat liver.](#)

Narimatsu S, Watanabe K, Yamamoto I, Yoshimura H.

Drug Metab Dispos. 1988 Nov-Dec;16(6):880-9.

PMID:

2907469

[PubMed - indexed for MEDLINE]

[Related citations](#)



611.

[Pharmacokinetics of the dimethylheptyl homolog of **cannabidiol** in dogs.](#)

Samara E, Bialer M.

Drug Metab Dispos. 1988 Nov-Dec;16(6):875-9.

PMID:

2907468

[PubMed - indexed for MEDLINE]

[Related citations](#)



612.

[Determination and characterization of a cannabinoid receptor in rat brain.](#)

Devane WA, Dysarz FA 3rd, Johnson MR, Melvin LS, Howlett AC.

Mol Pharmacol. 1988 Nov;34(5):605-13.

PMID:

2848184

[PubMed - indexed for MEDLINE]

[Related citations](#)



613.

[Cannabinol and cannabidiol in combination: temperature, open-field activity, and vocalization.](#)

Hiltunen AJ, Järbe TU, Wängdahl K.

Pharmacol Biochem Behav. 1988 Jul;30(3):675-8.

PMID:

3211977

[PubMed - indexed for MEDLINE]

[Related citations](#)



614.

[Changes in neurotransmitter release at a neuromuscular junction of the lobster caused by cannabinoids.](#)

Turkanis SA, Karler R.

Neuropharmacology. 1988 Jul;27(7):737-42.

PMID:

2901683

[PubMed - indexed for MEDLINE]

[Related citations](#)



615.

[Selective inhibition of the binding of 3H-\(3-MeHis²\) thyrotropin releasing hormone to rat amygdala membranes by some naturally occurring cannabinoids.](#)

Bhargava HN, Gulati A.

Peptides. 1988 Jul-Aug;9(4):771-5.

PMID:

2852360

[PubMed - indexed for MEDLINE]

[Related citations](#)



616.

[Pharmacokinetics of cannabidiol in dogs.](#)

Samara E, Bialer M, Mechoulam R.

Drug Metab Dispos. 1988 May-Jun;16(3):469-72.

PMID:

2900742

[PubMed - indexed for MEDLINE]

[Related citations](#)



617.

[Inhibition of the cataleptic effect of tetrahydrocannabinol by other constituents of Cannabis sativa L.](#)

Formukong EA, Evans AT, Evans FJ.

J Pharm Pharmacol. 1988 Feb;40(2):132-4.

PMID:

2897447

[PubMed - indexed for MEDLINE]

[Related citations](#)



618.

[Perinatal exposure to cannabinoids alters neurochemical development in rat brain.](#)

Walters DE, Carr LA.

Pharmacol Biochem Behav. 1988 Jan;29(1):213-6.

PMID:

2895481

[PubMed - indexed for MEDLINE]

[Related citations](#)



619.

[Effects of delta 9-tetrahydrocannabinol on prostaglandin formation in brain.](#)

Reichman M, Nen W, Hokin LE.

Mol Pharmacol. 1987 Nov;32(5):686-90.

PMID:

2824983

[PubMed - indexed for MEDLINE]

[Related citations](#)



620.

[Self-catalyzed inactivation of cytochrome P-450 during microsomal metabolism of cannabidiol.](#)

Watanabe K, Arai M, Narimatsu S, Yamamoto I, Yoshimura H.

Biochem Pharmacol. 1987 Oct 15;36(20):3371-7.

PMID:

3675599

[PubMed - indexed for MEDLINE]

[Related citations](#)



621.

[Cannabinoids induce incomplete maturation of cultured human leukemia cells.](#)

Murison G, Chubb CB, Maeda S, Gemmell MA, Huberman E.

Proc Natl Acad Sci U S A. 1987 Aug;84(15):5414-8.

PMID:

3037549

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



622.

[The actions of THC on the intact hippocampus: a comparison of dentate and CA1 responses.](#)

Wilkison DM, Pontzer NJ.

Brain Res Bull. 1987 Jul;19(1):63-7.

PMID:

2820552

[PubMed - indexed for MEDLINE]

[Related citations](#)



623.

[Rapid high-performance liquid chromatographic assay with pharmacokinetic applications for monitoring **cannabidiol** in plasma.](#)

Samara E, Bialer M.

J Chromatogr. 1987 May 15;416(2):370-4. No abstract available.

PMID:

3611268

[PubMed - indexed for MEDLINE]

[Related citations](#)



624.

[Cannabinoid inhibition of adenylate cyclase: relative activity of constituents and metabolites of marihuana.](#)

Howlett AC.

Neuropharmacology. 1987 May;26(5):507-12.

PMID:

3601007

[PubMed - indexed for MEDLINE]

[Related citations](#)



625.

[Modulation of rat brain opioid receptors by cannabinoids.](#)

Vaysse PJ, Gardner EL, Zukin RS.

J Pharmacol Exp Ther. 1987 May;241(2):534-9.

PMID:

3033219

[PubMed - indexed for MEDLINE]

[Related citations](#)



626.

[Effect of acute administration of delta 1-tetrahydrocannabinol on beta-endorphin levels in plasma and brain tissue of the rat.](#)

Wiegant VM, Sweep CG, Nir I.

Experientia. 1987 Apr 15;43(4):413-5.

PMID:

3032670

[PubMed - indexed for MEDLINE]

[Related citations](#)



627.

[Central nervous system and peripheral mechanisms in ocular hypotensive effect of cannabinoids.](#)

Liu JH, Dacus AC.

Arch Ophthalmol. 1987 Feb;105(2):245-8.

PMID:

3813958

[PubMed - indexed for MEDLINE]

[Related citations](#)



628.

[Cannabinoids reduce fertility of sea urchin sperm.](#)

Schuel H, Schuel R, Zimmerman AM, Zimmerman S.

Biochem Cell Biol. 1987 Feb;65(2):130-6.

PMID:

3030370

[PubMed - indexed for MEDLINE]

[Related citations](#)



629.

[Activation of phospholipase A2 by cannabinoids. Lack of correlation with CNS effects.](#)

Evans AT, Formukong E, Evans FJ.

FEBS Lett. 1987 Jan 26;211(2):119-22.

PMID:

3803591

[PubMed - indexed for MEDLINE]

[Related citations](#)



630.

[Effects of cannabinoids on levels of acetylcholine and choline and on turnover rate of acetylcholine in various regions of the mouse brain.](#)

Tripathi HL, Vocci FJ, Brase DA, Dewey WL.

Alcohol Drug Res. 1987;7(5-6):525-32.

PMID:

3620017

[PubMed - indexed for MEDLINE]

[Related citations](#)



631.

[The effects of cannabinoids and cannabispri compounds on Escherichia coli adhesion to tissue culture cells and on leukocyte functions in vitro.](#)

Molnár J, Petri I, Berek I, Shoyama Y, Nishioka I.

Acta Microbiol Hung. 1987;34(3-4):233-40.

PMID:

3329437

[PubMed - indexed for MEDLINE]

[Related citations](#)



632.

[Structure-anticonvulsant activity relationships of **cannabidiol** analogs.](#)

Martin AR, Consroe P, Kane VV, Shah V, Singh V, Lander N, Mechoulam R, Srebnik M.

NIDA Res Monogr. 1987;79:48-58.

PMID:

3125480

[PubMed - indexed for MEDLINE]

[Related citations](#)



633.

[The pyrolysis of cannabinoids.](#)

Tjeerdema RS.

Rev Environ Contam Toxicol. 1987;99:61-81. Review. No abstract available.

PMID:

3039589

[PubMed - indexed for MEDLINE]

[Related citations](#)



634.

[Pharmacokinetics and disposition of cannabinoids.](#)

Chiang CN, Rapaka RS.

NIDA Res Monogr. 1987;79:173-88. Review. No abstract available.

PMID:

2830536

[PubMed - indexed for MEDLINE]

[Related citations](#)



635.

[Open label evaluation of **cannabidiol** in dystonic movement disorders.](#)

Consroe P, Sandyk R, Snider SR.

Int J Neurosci. 1986 Nov;30(4):277-82.

PMID:

3793381

[PubMed - indexed for MEDLINE]

[Related citations](#)



636.

[Effects of delta-9-tetrahydrocannabinol, 11-hydroxy-delta-9-tetrahydrocannabinol and **cannabidiol** on neuromuscular transmission in the frog.](#)

Turkanis SA, Karler R.

Neuropharmacology. 1986 Nov;25(11):1273-8.

PMID:

3025765

[PubMed - indexed for MEDLINE]

[Related citations](#)



637.

[Effects of delta 9-tetrahydrocannabinol on glucagon receptor coupling to adenylate cyclase in rat liver plasma membranes.](#)

Hillard CJ, Bloom AS, Houslay MD.

Biochem Pharmacol. 1986 Aug 15;35(16):2797-803.

PMID:

3017362

[PubMed - indexed for MEDLINE]

[Related citations](#)



638.

[Maternal cannabinoid exposure. Effects on spermatogenesis in male offspring.](#)

Dalterio SL, deRooij DG.

Int J Androl. 1986 Aug;9(4):250-8.

PMID:

3026968

[PubMed - indexed for MEDLINE]

[Related citations](#)



639.

[Cannabimimetic activity \(delta 1-THC cue\) of **cannabidiol** monomethyl ether and two stereoisomeric hexahydrocannabinols in rats and pigeons.](#)

Järbe TU, Hiltunen AJ, Lander N, Mechoulam R.

Pharmacol Biochem Behav. 1986 Aug;25(2):393-9.

PMID:

3020594

[PubMed - indexed for MEDLINE]

[Related citations](#)



640.

[Cannabidiol in dystonic movement disorders.](#)

Sandyk R, Snider SR, Consroe P, Elias SM.

Psychiatry Res. 1986 Jul;18(3):291. No abstract available.

PMID:

3749389

[PubMed - indexed for MEDLINE]

[Related citations](#)

641.

[Cannabidiol-caused depression of spinal motoneuron responses in cats.](#)

Turkanis SA, Karler R.

Pharmacol Biochem Behav. 1986 Jul;25(1):89-94.

PMID:

3018797

[PubMed - indexed for MEDLINE]

[Related citations](#)



642.

[Cannabidiol attenuates delta 9-tetrahydrocannabinol-like discriminative stimulus effects of cannabiniol.](#)

Hiltunen AJ, Järbe TU.

Eur J Pharmacol. 1986 Jun 17;125(2):301-4.

PMID:

3017729

[PubMed - indexed for MEDLINE]

[Related citations](#)



643.

[Perinatal cannabinoid exposure: effects on hepatic cytochrome P-450 and plasma protein levels in male mice.](#)

Dalterio S, Thomford PJ, Michael SD, DeAngelo L, Mayfield D.

Teratology. 1986 Apr;33(2):195-201.

PMID:

3016935

[PubMed - indexed for MEDLINE]

[Related citations](#)



644.

[Pharmacokinetics and metabolism of delta 1-tetrahydrocannabinol and other cannabinoids with emphasis on man.](#)

Agurell S, Halldin M, Lindgren JE, Ohlsson A, Widman M, Gillespie H, Hollister L.

Pharmacol Rev. 1986 Mar;38(1):21-43. Review. No abstract available.

PMID:

3012605

[PubMed - indexed for MEDLINE]

[Related citations](#)



645.

[Interactions between delta 9-tetrahydrocannabinol and **cannabidiol** as evaluated by drug discrimination procedures in rats and pigeons.](#)

Hiltunen AJ, Järbe TU.

Neuropharmacology. 1986 Feb;25(2):133-42.

PMID:

3010159

[PubMed - indexed for MEDLINE]

[Related citations](#)



646.

[Single-dose kinetics of deuterium-labelled **cannabidiol** in man after smoking and intravenous administration.](#)

Ohlsson A, Lindgren JE, Andersson S, Agurell S, Gillespie H, Hollister LE.

Biomed Environ Mass Spectrom. 1986 Feb;13(2):77-83.

PMID:

2937482

[PubMed - indexed for MEDLINE]

[Related citations](#)



647.

[Anticonvulsant effect of **cannabidiol**.](#)

Ames FR, Cridland S.

S Afr Med J. 1986 Jan 4;69(1):14. No abstract available.

PMID:

3941934

[PubMed - indexed for MEDLINE]

[Related citations](#)



648.

[Effects of two cannabinoids on hepatic microsomal cytochrome P-450.](#)

Watanabe K, Hamajima K, Narimatsu S, Yamamoto I, Yoshimura H.

J Pharmacobiodyn. 1986 Jan;9(1):39-45.

PMID:

3012058

[PubMed - indexed for MEDLINE]

[Related citations](#)



649.

[Alteration of electrical correlates of sensory processing by tetrahydrocannabinol.](#)

Pontzer NJ, Hosko MJ, Wilkison DM.

Exp Neurol. 1986 Jan;91(1):127-35.

PMID:

3000809

[PubMed - indexed for MEDLINE]

[Related citations](#)



650.

[Effects and interactions of natural cannabinoids on the isolated heart.](#)

Nahas G, Trouve R.

Proc Soc Exp Biol Med. 1985 Nov;180(2):312-6.

PMID:

4048169

[PubMed - indexed for MEDLINE]

[Related citations](#)



651.

[Cannabinoid content of cannabis grown on the Danish island of Bornholm.](#)

Felby S, Nielsen E.

Bull Narc. 1985 Oct-Dec;37(4):87-94.

PMID:

3011164

[PubMed - indexed for MEDLINE]

[Related citations](#)



652.

[Use of descending thin layer chromatography for identification of cannabinoids.](#)

Pe W.

Bull Narc. 1985 Oct-Dec;37(4):83-6.

PMID:

3011163

[PubMed - indexed for MEDLINE]

[Related citations](#)



653.

[Prostaglandins and cannabis XIV. Tolerance to the stimulatory actions of cannabinoids on arachidonate metabolism.](#)

Burstein S, Hunter SA, Renzulli L.

J Pharmacol Exp Ther. 1985 Oct;235(1):87-91.

PMID:

2995649

[PubMed - indexed for MEDLINE]

[Related citations](#)



654.

[The quasi-morphine withdrawal syndrome: effect of cannabinol, **cannabidiol** and tetrahydrocannabinol.](#)

Chesher GB, Jackson DM.

Pharmacol Biochem Behav. 1985 Jul;23(1):13-5.

PMID:

2994117

[PubMed - indexed for MEDLINE]

[Related citations](#)



655.

[Hashish: synthesis and central nervous system activity of some novel analogues of **cannabidiol** and oxepin derivatives of delta 9-tetrahydrocannabinol.](#)

Jorapur VS, Khalil ZH, Duffley RP, Razdan RK, Martin BR, Harris LS, Dewey WL.

J Med Chem. 1985 Jun;28(6):783-7.

PMID:

2989518

[PubMed - indexed for MEDLINE]

[Related citations](#)



656.

[Effects of the cannabinoids on physical properties of brain membranes and phospholipid vesicles: fluorescence studies.](#)

Hillard CJ, Harris RA, Bloom AS.

J Pharmacol Exp Ther. 1985 Mar;232(3):579-88.

PMID:

2983062

[PubMed - indexed for MEDLINE]

[Related citations](#)



657.

[Enhancement of brain \[3H\]flunitrazepam binding and analgesic activity of synthetic cannabimimetics.](#)

Koe BK, Milne GM, Weissman A, Johnson MR, Melvin LS.

Eur J Pharmacol. 1985 Feb 26;109(2):201-12.

PMID:

2986995

[PubMed - indexed for MEDLINE]

[Related citations](#)



658.

[Cannabinoids block release of serotonin from platelets induced by plasma from migraine patients.](#)

Volfe Z, Dvilansky A, Nathan I.

Int J Clin Pharmacol Res. 1985;5(4):243-6.

PMID:

2997048

[PubMed - indexed for MEDLINE]

[Related citations](#)



659.

[Hashish extract impairs retention of defeat-induced submissive behavior in mice.](#)

Frischknecht HR, Siegfried B, Schiller M, Waser PG.

Psychopharmacology (Berl). 1985;86(3):270-3.

PMID:

2994143

[PubMed - indexed for MEDLINE]

[Related citations](#)



660.

[Experimentally produced synovial sarcoma in mice.](#)

Szepsenwol J, Fletcher J, Casales EA, Murison GL.

Oncology. 1985;42(1):61-7.

PMID:

2982118

[PubMed - indexed for MEDLINE]

[Related citations](#)

661.

[Marijuana. Health and treatment issues.](#)

Jones RT.

Psychiatr Clin North Am. 1984 Dec;7(4):703-12.

PMID:

6097886

[PubMed - indexed for MEDLINE]

[Related citations](#)



662.

[Cannabinoid inhibition of adenylate cyclase. Pharmacology of the response in neuroblastoma cell membranes.](#)

Howlett AC, Fleming RM.

Mol Pharmacol. 1984 Nov;26(3):532-8.

PMID:

6092901

[PubMed - indexed for MEDLINE]

[Related citations](#)



663.

[Ethanol, marijuana, and other drug use in 600 drivers killed in single-vehicle crashes in North Carolina, 1978-1981.](#)

Mason AP, McBay AJ.

J Forensic Sci. 1984 Oct;29(4):987-1026.

PMID:

6502125

[PubMed - indexed for MEDLINE]

[Related citations](#)



664.

[Stimulation of sphingomyelin hydrolysis by **cannabidiol** in fibroblasts from a Niemann-Pick patient.](#)

Burstein S, Hunter SA, Renzulli L.

Biochem Biophys Res Commun. 1984 May 31;121(1):168-73.

PMID:

6732800

[PubMed - indexed for MEDLINE]

[Related citations](#)



665.

[Pharmacological interaction of the effects of delta 9-trans-tetrahydrocannabinol and **cannabidiol** on serum corticosterone levels in rats.](#)

Zuardi AW, Teixeira NA, Karniol IC.

Arch Int Pharmacodyn Ther. 1984 May;269(1):12-9.

PMID:

6087750

[PubMed - indexed for MEDLINE]

[Related citations](#)



666.

[Interactions of cannabinoids with bovine serum albumin.](#)

Haque SJ, Poddar MK.

Biosci Rep. 1984 Mar;4(3):239-43.

PMID:

6326885

[PubMed - indexed for MEDLINE]

[Related citations](#)



667.

[Cannabinoid level in the leaves as a tool for the early discrimination of Cannabis chemiovariants.](#)

Barni-Comparini I, Ferri S, Centini F.

Forensic Sci Int. 1984 Jan;24(1):37-42.

PMID:

6698450

[PubMed - indexed for MEDLINE]

[Related citations](#)



668.

[Acute and subacute bronchial effects of oral cannabinoids.](#)

Gong H Jr, Tashkin DP, Simmons MS, Calvarese B, Shapiro BJ.

Clin Pharmacol Ther. 1984 Jan;35(1):26-32.

PMID:

6690168

[PubMed - indexed for MEDLINE]

[Related citations](#)



669.

[Early cannabinoid exposure influences neuroendocrine and reproductive functions in mice: II. Postnatal effects.](#)

Dalterio S, Steger R, Mayfield D, Bartke A.

Pharmacol Biochem Behav. 1984 Jan;20(1):115-23.

PMID:

6320228

[PubMed - indexed for MEDLINE]

[Related citations](#)



670.

[Early cannabinoid exposure influences neuroendocrine and reproductive functions in male mice: I. Prenatal exposure.](#)

Dalterio S, Steger R, Mayfield D, Bartke A.

Pharmacol Biochem Behav. 1984 Jan;20(1):107-13.

PMID:

6320227

[PubMed - indexed for MEDLINE]

[Related citations](#)



671.

[Effects of cannabinoids on macromolecular synthesis in isolated spermatogenic cells.](#)

Tilak SK, Zimmerman AM.

Pharmacology. 1984;29(6):343-50.

PMID:

6209733

[PubMed - indexed for MEDLINE]

[Related citations](#)



672.

[Changes in CNS sensitivity to cannabinoids with repeated treatment: tolerance and auxoesthesia.](#)

Karler R, Calder LD, Turkanis SA.

NIDA Res Monogr. 1984;54:312-22. Review. No abstract available.

PMID:

6099877

[PubMed - indexed for MEDLINE]

[Related citations](#)



673.

[delta 1-Tetrahydrocannabinol but not **cannabidiol** reduces contact and aggressive behavior of rats tested in dyadic encounters.](#)

van Ree JM, Niesink RJ, Nir I.

Psychopharmacology (Berl). 1984;84(4):561-5.

PMID:

6098915

[PubMed - indexed for MEDLINE]

[Related citations](#)



674.

[delta 1-Tetrahydrocannabinol-induced circling behavior in rats: a possible measure of psychotomimetic activity?](#)

Nir I, Veldhuis HD, van Ree JM.

Psychopharmacology (Berl). 1984;84(4):556-60.

PMID:

6098914

[PubMed - indexed for MEDLINE]

[Related citations](#)



675.

[Ocular hypotension, ocular toxicity, and neurotoxicity in response to marihuana extract and **cannabidiol**.](#)

Colasanti BK, Brown RE, Craig CR.

Gen Pharmacol. 1984;15(6):479-84.

PMID:

6098513

[PubMed - indexed for MEDLINE]

[Related citations](#)



676.

[Detection of cannabinoids by gas chromatography/mass spectrometry \(GC/MS\). Part II. Quantitation of **cannabidiol** and cannabinol in human urine and blood plasma by GC/MS.](#)

Hattori H.

Nihon Hoigaku Zasshi. 1983 Dec;37(6):764-9. No abstract available.

PMID:

6678326

[PubMed - indexed for MEDLINE]

[Related citations](#)



677.

[\[Sex difference in the effects of delta 9-tetrahydrocannabinol and **cannabidiol** on pentobarbital-induced sleeping time and hepatic microsomal drug metabolizing enzyme systems in mice\].](#)

Hamajima K, Watanabe K, Narimatsu S, Tateoka Y, Yamamoto I, Yoshimura H.

Yakugaku Zasshi. 1983 Dec;103(12):1289-97. Japanese. No abstract available.

PMID:

6330340

[PubMed - indexed for MEDLINE]

[Related citations](#)



678.

[Effect of cannabinoids on human Sertoli cell function in vitro.](#)

Holmes SD, Lipshultz LI, Smith RG.

Arch Androl. 1983 Dec;11(3):245-51.

PMID:

6140904

[PubMed - indexed for MEDLINE]

[Related citations](#)



679.

[\[Detection of intake of hashish in biological material\].](#)

Harzer K, Kächele M.

J Chromatogr. 1983 Nov 11;278(1):63-70. German.

PMID:

6319443

[PubMed - indexed for MEDLINE]

[Related citations](#)



680.

[Allergenic properties of naturally occurring cannabinoids.](#)

Watson ES, Murphy JC, Turner CE.

J Pharm Sci. 1983 Aug;72(8):954-5.

PMID:

6620158

[PubMed - indexed for MEDLINE]

[Related citations](#)

681.

[The properties of UDP-glucuronyltransferase for cannabinoids in rat liver microsomes.](#)

Watanabe K, Kita M, Yamamoto I, Oguri K, Yoshimura H.

J Pharmacobiodyn. 1983 Aug;6(8):581-7.

PMID:

6315914

[PubMed - indexed for MEDLINE]

[Related citations](#)



682.

[Possible role of prostaglandins in the effects of the cannabinoids on adenylate cyclase activity.](#)

Hillard CJ, Bloom AS.

Eur J Pharmacol. 1983 Jul 15;91(1):21-7.

PMID:

6311573

[PubMed - indexed for MEDLINE]

[Related citations](#)



683.

[Effects on variable-interval performance in rats of delta 9-tetrahydrocannabinol and **cannabidiol**, separately and in combination.](#)

Zuardi AW, Karniol IG.

Braz J Med Biol Res. 1983 Jul;16(2):141-6.

PMID:

6317104

[PubMed - indexed for MEDLINE]

[Related citations](#)



684.

[Synthetic tetrahydrocannabinol.](#)

Churchill KT.

J Forensic Sci. 1983 Jul;28(3):762-72.

PMID:

6311937

[PubMed - indexed for MEDLINE]

[Related citations](#)



685.

[Biotransformation of **Cannabidiol** to Cannabielsoin by Suspension Cultures of Cannabis sativa and Saccharum officinarum.](#)

Hartsel SC, Loh WH, Robertson LW.

Planta Med. 1983 May;48(5):17-9.

PMID:

17404934

[PubMed - in process]

[Related citations](#)



686.

[A decreased influence of cannabinoids on macromolecular biosynthesis and cell proliferation in human cells which metabolize polycyclic hydrocarbon carcinogens.](#)

Green LG, Stein JL, Stein GS.

Anticancer Res. 1983 May-Jun;3(3):211-7.

PMID:

6191620

[PubMed - indexed for MEDLINE]

[Related citations](#)



687.

[Influence of different barbiturate anesthetics on delta-9-tetrahydrocannabinol effects on spinal monosynaptic reflexes.](#)

Turkanis SA, Karler R.

Life Sci. 1983 Apr 11;32(15):1675-81.

PMID:

6300596

[PubMed - indexed for MEDLINE]

[Related citations](#)



688.

[delta 9-Tetrahydrocannabinol and **cannabidiol**: dose-dependent effects on evoked potentials in the hippocampal slice.](#)

Kujtan PW, Carlen PL, Kapur BM.

Can J Physiol Pharmacol. 1983 Apr;61(4):420-6.

PMID:

6305469

[PubMed - indexed for MEDLINE]

[Related citations](#)



689.

[Packed column chromatography, high-resolution gas-chromatography and high pressure liquid chromatography in comparison for the analysis of cannabis constituents.](#)

Barni Comparini I, Centini F.

Forensic Sci Int. 1983 Mar-Apr;21(2):129-37.

PMID:

6301960

[PubMed - indexed for MEDLINE]

[Related citations](#)



690.

[Cannabinoids stimulate and inhibit testosterone production in vitro and in vivo.](#)

Dalterio SL, Bartke A, Mayfield D.

Life Sci. 1983 Feb 7;32(6):605-12. No abstract available.

PMID:

6300602

[PubMed - indexed for MEDLINE]

[Related citations](#)



691.

[Direct antigonadal activity of cannabinoids: suppression of rat granulosa cell functions.](#)

Adashi EY, Jones PB, Hsueh AJ.

Am J Physiol. 1983 Feb;244(2):E177-85.

PMID:

6297308

[PubMed - indexed for MEDLINE]

[Related citations](#)



692.

[Marijuana: interaction with the estrogen receptor.](#)

Sauer MA, Rifka SM, Hawks RL, Cutler GB Jr, Loriaux DL.

J Pharmacol Exp Ther. 1983 Feb;224(2):404-7.

PMID:

6296360

[PubMed - indexed for MEDLINE]

[Related citations](#)



693.

[Two dimensional thin-layer chromatography of ganja \(Cannabis sativa L.\).](#)

Tewari SN, Sharma JD.

Bull Narc. 1983 Jan-Mar;35(1):63-7.

PMID:

6555056

[PubMed - indexed for MEDLINE]

[Related citations](#)



694.

[\[Antagonistic effects of two natural cannabinoids on the isolated heart\].](#)

Trouvé R, Nahas G, Stüker O, Latour C.

C R Seances Acad Sci III. 1983;297(4):191-4. French.

PMID:

6318927

[PubMed - indexed for MEDLINE]

[Related citations](#)



695.

[The physical and chemical features of Cannabis plants grown in the United Kingdom of Great Britain and Northern Ireland from seeds of known origin--Part II: second generation studies.](#)

Baker PB, Gough TA, Taylor BJ.

Bull Narc. 1983 Jan-Mar;35(1):51-62.

PMID:

6311312

[PubMed - indexed for MEDLINE]

[Related citations](#)



696.

[Effects of delta 9-tetrahydrocannabinol, cannabinal and **cannabidiol** on the immune system in mice. II. In vitro investigation using cultured mouse splenocytes.](#)

Baczynsky WO, Zimmerman AM.

Pharmacology. 1983;26(1):12-9.

PMID:

6298842

[PubMed - indexed for MEDLINE]

[Related citations](#)



697.

[Effects of delta 9-tetrahydrocannabinol, cannabinal and **cannabidiol** on the immune system in mice. I. In vivo investigation of the primary and secondary immune response.](#)

Baczynsky WO, Zimmerman AM.

Pharmacology. 1983;26(1):1-11.

PMID:

6298841

[PubMed - indexed for MEDLINE]

[Related citations](#)



698.

[Effects of **cannabidiol** on behavioral seizures caused by convulsant drugs or current in mice.](#)

Consroe P, Benedito MA, Leite JR, Carlini EA, Mechoulam R.

Eur J Pharmacol. 1982 Sep 24;83(3-4):293-8.

PMID:

6129147

[PubMed - indexed for MEDLINE]

[Related citations](#)



699.

[Influence of hashish extract on the social behaviour of encountering male baboons \(*Papio c. anubis*\).](#)

Sieber B.

Pharmacol Biochem Behav. 1982 Aug;17(2):209-16.

PMID:

6291065

[PubMed - indexed for MEDLINE]

[Related citations](#)



700.

[Influence of 22-day treatment on the anticonvulsant properties of cannabinoids.](#)

Karler R, Borys HK, Turkanis SA.

Naunyn Schmiedebergs Arch Pharmacol. 1982 Aug;320(2):105-9.

PMID:

6289137

[PubMed - indexed for MEDLINE]

[Related citations](#)

701.

[In vitro effects of cannabinoids on follicular function in the rat.](#)

Reich R, Laufer N, Lewysohn O, Cordova T, Ayalon D, Tsafiriri A.

Biol Reprod. 1982 Aug;27(1):223-31.

PMID:

6288130

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



702.

[Prostaglandins and cannabis--IX. Stimulation of prostaglandin E2 synthesis in human lung fibroblasts by delta 1-tetrahydrocannabinol.](#)

Burstein S, Hunter SA, Sedor C, Shulman S.

Biochem Pharmacol. 1982 Jul 15;31(14):2361-5.

PMID:

6289843

[PubMed - indexed for MEDLINE]

[Related citations](#)



703.

[Cannabinoid induced degranulation of rabbit neutrophils.](#)

Naccache PH, Volpi M, Becker EL, Makryannis A, Sha'afi RI.

Biochem Biophys Res Commun. 1982 Jun 30;106(4):1286-90. No abstract available.

PMID:

6288043

[PubMed - indexed for MEDLINE]

[Related citations](#)



704.

[Effects of marihuana cannabinoids on seizure activity in cobalt-epileptic rats.](#)

Colasanti BK, Lindamood C 3rd, Craig CR.

Pharmacol Biochem Behav. 1982 Apr;16(4):573-8.

PMID:

6280204

[PubMed - indexed for MEDLINE]

[Related citations](#)



705.

[Cannabinoids inhibit calcium uptake by brain synaptosomes.](#)

Harris RA, Stokes JA.

J Neurosci. 1982 Apr;2(4):443-7. No abstract available.

PMID:

6279797

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



706.

[Effect of cannabinoids on the activity of monoamine oxidase in normal human platelets.](#)

Mazor M, Dvilansky A, Aharon M, Lazarovitz Z, Nathan I.

Arch Int Physiol Biochim. 1982 Apr;90(1):15-20.

PMID:

6179486

[PubMed - indexed for MEDLINE]

[Related citations](#)



707.

[delta 9-Tetrahydrocannabinol-induced changes in beta-adrenergic receptor binding in mouse cerebral cortex.](#)

Hillard CJ, Bloom AS.

Brain Res. 1982 Mar 11;235(2):370-7.

PMID:

6329417

[PubMed - indexed for MEDLINE]

[Related citations](#)



708.

[Anticonvulsant effects of the \(-\) and \(+\)isomers of **cannabidiol** and their dimethylheptyl homologs.](#)

Leite JR, Carlini EA, Lander N, Mechoulam R.

Pharmacology. 1982;24(3):141-6.

PMID:

7071126

[PubMed - indexed for MEDLINE]

[Related citations](#)



709.

[Intraocular pressure following systemic administration of cannabinoids.](#)

Green K, Symonds CM, Oliver NW, Elijah RD.

Curr Eye Res. 1982-1983;2(4):247-53.

PMID:

6295702

[PubMed - indexed for MEDLINE]

[Related citations](#)



710.

[Action of **cannabidiol** on the anxiety and other effects produced by delta 9-THC in normal subjects.](#)

Zuardi AW, Shirakawa I, Finkelfarb E, Karniol IG.

Psychopharmacology (Berl). 1982;76(3):245-50.

PMID:

6285406

[PubMed - indexed for MEDLINE]

[Related citations](#)



711.

[Central excitatory properties of delta 9-tetrahydrocannabinol and its metabolites in iron-induced epileptic rats.](#)

Turkanis SA, Karler R.

Neuropharmacology. 1982 Jan;21(1):7-13.

PMID:

6278353

[PubMed - indexed for MEDLINE]

[Related citations](#)

712.

[Determination of **cannabidiol** in plasma by electron-capture gas chromatography.](#)

Jones AB, Elsohly MA, Bedford JA, Turner CE.

J Chromatogr. 1981 Nov 13;226(1):99-105.

PMID:

7320159

[PubMed - indexed for MEDLINE]

[Related citations](#)

713.

[Cannabinoids impair the formation of cholesteryl ester in cultured human cells.](#)

Cornicelli JA, Gilman SR, Krom BA, Kottke BA.

Arteriosclerosis. 1981 Nov-Dec;1(6):449-54.

PMID:

6287983

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)

714.

[Interactions of delta 1-tetrahydrocannabinol with cannabinol and **cannabidiol** following oral administration in man. Assay of cannabinol and **cannabidiol** by mass fragmentography.](#)

Agurell S, Carlsson S, Lindgren JE, Ohlsson A, Gillespie H, Hollister L.

Experientia. 1981 Oct 15;37(10):1090-2. No abstract available.

PMID:

6273208

[PubMed - indexed for MEDLINE]

[Related citations](#)

715.

[\[Hashish\].](#)

Láng A.

Morphol Igazsagugyi Orv Sz. 1981 Oct;21(4):309-12. Hungarian. No abstract available.

PMID:

6275263

[PubMed - indexed for MEDLINE]

[Related citations](#)

716.

[Antiepileptic potential of **cannabidiol** analogs.](#)

Consroe P, Martin A, Singh V.

J Clin Pharmacol. 1981 Aug-Sep;21(8-9 Suppl):428S-436S.

PMID:

7298873

[PubMed - indexed for MEDLINE]

[Related citations](#)

717.

[Hypnotic and antiepileptic effects of **cannabidiol**.](#)

Carlini EA, Cunha JM.

J Clin Pharmacol. 1981 Aug-Sep;21(8-9 Suppl):417S-427S.

PMID:

7028792

[PubMed - indexed for MEDLINE]

[Related citations](#)

718.

[The cannabinoids as potential antiepileptics.](#)

Karler R, Turkanis SA.

J Clin Pharmacol. 1981 Aug-Sep;21(8-9 Suppl):437S-448S.

PMID:

6975285

[PubMed - indexed for MEDLINE]

[Related citations](#)



719.

[Cannabinoids in glaucoma: a primary screening procedure.](#)

Elsohly MA, Harland E, Murphy JC, Wirth P, Waller CW.

J Clin Pharmacol. 1981 Aug-Sep;21(8-9 Suppl):472S-478S.

PMID:

6271842

[PubMed - indexed for MEDLINE]

[Related citations](#)



720.

[Electrophysiologic properties of the cannabinoids.](#)

Turkanis SA, Karler R.

J Clin Pharmacol. 1981 Aug-Sep;21(8-9 Suppl):449S-463S.

PMID:

6271840

[PubMed - indexed for MEDLINE]

[Related citations](#)

[Cardiovascular and metabolic considerations in prolonged cannabinoid administration in man.](#)

Benowitz NL, Jones RT.

J Clin Pharmacol. 1981 Aug-Sep;21(8-9 Suppl):214S-223S.

PMID:

6271827

[PubMed - indexed for MEDLINE]

[Related citations](#)



722.

[Rabbit behavioral model of marijuana psychoactivity in humans.](#)

Consroe P, Fish BS.

Med Hypotheses. 1981 Aug;7(8):1079-90.

PMID:

6270517

[PubMed - indexed for MEDLINE]

[Related citations](#)



723.

[Evidence that **cannabidiol** does not significantly alter the pharmacokinetics of tetrahydrocannabinol in man.](#)

Hunt CA, Jones RT, Hering RI, Bachman J.

J Pharmacokinet Biopharm. 1981 Jun;9(3):245-60.

PMID:

6270295

[PubMed - indexed for MEDLINE]

[Related citations](#)



724.

[Cannabinoid-induced enhancement and depression of cat monosynaptic reflexes.](#)

Tramosch A, Sangdee C, Franz DN, Karler R, Turkanis SA.

Neuropharmacology. 1981 Jun;20(6):617-21. No abstract available.

PMID:

6264341

[PubMed - indexed for MEDLINE]

[Related citations](#)

725.

[In vivo cytogenetic effects of cannabinoids.](#)

Matsuyama SS, Fu TK.

J Clin Psychopharmacol. 1981 May;1(3):135-40.

PMID:

6271848

[PubMed - indexed for MEDLINE]

[Related citations](#)

726.

[Sedative activity of cannabis in relation to its delta'-trans-tetrahydrocannabinol and cannabidiol content.](#)

Pickens JT.

Br J Pharmacol. 1981 Apr;72(4):649-56.

PMID:

6269680

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)

727.

[Toxicity of short-term administration of cannabinoids to rhesus monkeys.](#)

Rosenkrantz H, Fleischman RW, Grant RJ.

Toxicol Appl Pharmacol. 1981 Mar 30;58(1):118-31. No abstract available.

PMID:

6262948

[PubMed - indexed for MEDLINE]

[Related citations](#)

728.

[Levonantradol, a potent cannabinoid-related analgesic, antagonizes haloperidol-induced activation of striatal dopamine synthesis.](#)

Koe BK.

Eur J Pharmacol. 1981 Mar 12;70(2):231-5.

PMID:

6266845

[PubMed - indexed for MEDLINE]

[Related citations](#)



729.

[Effect of **cannabidiol** on cytochrome P-450 and hexobarbital sleep time.](#)

Bornheim LM, Borys HK, Karler R.

Biochem Pharmacol. 1981 Mar 1;30(5):503-7. No abstract available.

PMID:

7225146

[PubMed - indexed for MEDLINE]

[Related citations](#)



730.

[Post-column derivatization procedure for the colorimetric analysis of tissue cannabinoids separated by high-performance liquid chromatography.](#)

Borys HK, Karler R.

J Chromatogr. 1981 Jan 30;205(2):303-23.

PMID:

6260827

[PubMed - indexed for MEDLINE]

[Related citations](#)



731.

[Excitatory and depressant effects of delta 9-tetrahydrocannabinol and **cannabidiol** on cortical evoked responses in the conscious rat.](#)

Turkanis SA, Karler R.

Psychopharmacology (Berl). 1981;75(3):294-8.

PMID:

6275447

[PubMed - indexed for MEDLINE]

[Related citations](#)



732.

[Identification and differentiation of resinous cannabis and textile cannabis: combined use of HPLC and high-resolution GLC.](#)

Debruyne D, Moulin M, Bigot MC, Camsonne R.

Bull Narc. 1981;33(2):49-58.

PMID:

6272923

[PubMed - indexed for MEDLINE]

[Related citations](#)



733.

[Marihuana.](#)

Spikes JJ, Pirl JN, Hanlon TH.

Prog Clin Pathol. 1981;8:279-86. Review. No abstract available.

PMID:

6272360

[PubMed - indexed for MEDLINE]

[Related citations](#)



734.

[Alterations of immune reactivity by haloperidol and delta-9-tetrahydrocannabinol.](#)

Levy JA, Heppner GH.

J Immunopharmacol. 1981;3(1):93-109.

PMID:

6265563

[PubMed - indexed for MEDLINE]

[Related citations](#)



735.

[Characteristics of the stimulus produced by the mixture of **cannabidiol** with delta 9-tetrahydrocannabinol.](#)

Zuardi AW, Finkelfarb E, Bueno OF, Musty RE, Karniol IG.

Arch Int Pharmacodyn Ther. 1981 Jan;249(1):137-46.

PMID:

6261703

[PubMed - indexed for MEDLINE]

[Related citations](#)



736.

[Post-swim grooming in mice inhibited by dopamine receptor antagonists and by cannabinoids.](#)

Chesher GB, Jackson DM.

Pharmacol Biochem Behav. 1980 Sep;13(3):479-81.

PMID:

7422707

[PubMed - indexed for MEDLINE]

[Related citations](#)



737.

[UDP-glucuronyltransferase activities of rabbit liver microsomes for cannabinoids.](#)

Watanabe K, Yamamoto I, Oguri K, Yoshimura H.

J Pharmacobiodyn. 1980 Sep;3(9):482-4.

PMID:

6780681

[PubMed - indexed for MEDLINE]

[Related citations](#)



738.

[Effects of cannabinoids on catecholamine uptake and release in hypothalamic and striatal synaptosomes.](#)

Poddar MK, Dewey WL.

J Pharmacol Exp Ther. 1980 Jul;214(1):63-7.

PMID:

7391971

[PubMed - indexed for MEDLINE]

[Related citations](#)



739.

[Metabolic and psychophysiologic studies of **cannabidiol**-hexobarbital interaction.](#)

Benowitz NL, Nguyen TL, Jones RT, Hering RI, Bachman J.

Clin Pharmacol Ther. 1980 Jul;28(1):115-20.

PMID:

7389248

[PubMed - indexed for MEDLINE]

[Related citations](#)



740.

[Effects of delta 9-tetrahydrocannabinol and **cannabidiol** on phospholipase and other enzymes regulating arachidonate metabolism.](#)

White HL, Tansik RL.

Prostaglandins Med. 1980 Jun;4(6):409-17.

PMID:

6251493

[PubMed - indexed for MEDLINE]

[Related citations](#)

[Effects of delta 9-tetrahydrocannabinol and **cannabidiol** on sodium-dependent high affinity choline uptake in the rat hippocampus.](#)

Lindamood C 3rd, Colasanti BK.

J Pharmacol Exp Ther. 1980 May;213(2):216-21.

PMID:

6245205

[PubMed - indexed for MEDLINE]

[Related citations](#)



742.

[Identification of in vivo liver metabolites of delta 1-tetra-hydrocannabinol, **cannabidiol**, and cannabinol produced by the guinea-pig.](#)

Harvey DJ, Martin BR, Paton WD.

J Pharm Pharmacol. 1980 Apr;32(4):267-71.

PMID:

6103056

[PubMed - indexed for MEDLINE]

[Related citations](#)



743.

[Subacute cannabinoid treatment: anticonvulsant activity and withdrawal excitability in mice.](#)

Karler R, Turkanis SA.

Br J Pharmacol. 1980 Mar;68(3):479-84.

PMID:

6301593

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



744.

[Cannabinoid-induced hormone changes in monkeys and rats.](#)

Rosenkrantz H, Esber HJ.

J Toxicol Environ Health. 1980 Mar;6(2):297-313.

PMID:

6248648

[PubMed - indexed for MEDLINE]

[Related citations](#)



745.

[Characterization of blood disappearance and tissue distribution of \[3H\]cannabidiol.](#)

Siemens AJ, Walczak D, Buckley FE.

Biochem Pharmacol. 1980 Feb;29(3):462-4. No abstract available.

PMID:

7362660

[PubMed - indexed for MEDLINE]

[Related citations](#)



746.

[Cannabidiol and phenytoin: a structural comparison.](#)

Tamir I, Mechoulam R, Meyer AY.

J Med Chem. 1980 Feb;23(2):220-3.

PMID:

7359539

[PubMed - indexed for MEDLINE]

[Related citations](#)



747.

[3H-delta 9-Tetrahydrocannabinol, 3H-cannabinol and 3H-cannabidiol: penetration and regional distribution in rat brain.](#)

Alozie SO, Martin BR, Harris LS, Dewey WL.

Pharmacol Biochem Behav. 1980 Feb;12(2):217-21.

PMID:

6246544

[PubMed - indexed for MEDLINE]

[Related citations](#)



748.

[Chronic administration of **cannabidiol** to healthy volunteers and epileptic patients.](#)

Cunha JM, Carlini EA, Pereira AE, Ramos OL, Pimentel C, Gagliardi R, Sanvito WL, Lander N, Mechoulam R.

Pharmacology. 1980;21(3):175-85.

PMID:

7413719

[PubMed - indexed for MEDLINE]

[Related citations](#)



749.

[\[Testing the pharmacological activity of some synthetic cannabinoids in mice \(author's transl\)\].](#)

Ganz AJ, Waser PG.

Arzneimittelforschung. 1980;30(3):471-7. German.

PMID:

7387758

[PubMed - indexed for MEDLINE]

[Related citations](#)



750.

[Behavioral effects of hashish in mice. II. Nursing behavior and development of the sucklings.](#)

Frischknecht HR, Sieber B, Waser PG.

Psychopharmacology (Berl). 1980;70(2):155-61.

PMID:

6776575

[PubMed - indexed for MEDLINE]

[Related citations](#)



751.

[In vitro induction of segregational errors of chromosomes by natural cannabinoids in normal human lymphocytes.](#)

Henrich RT, Nogawa T, Morishima A.

Environ Mutagen. 1980;2(2):139-47.

PMID:

6276167

[PubMed - indexed for MEDLINE]

[Related citations](#)



752.

[The effects of delta 9-tetrahydrocannabinol alone and in combination with **cannabidiol** on fixed-interval performance in rhesus monkeys.](#)

Brady KT, Balster RL.

Psychopharmacology (Berl). 1980;72(1):21-6.

PMID:

6258188

[PubMed - indexed for MEDLINE]

[Related citations](#)



753.

[Lack of effect of cannabinoids on carbonic anhydrase.](#)

Maor D, Treves T, Korczyn AD.

J Neural Transm. 1980;49(3):205-6.

PMID:

6256470

[PubMed - indexed for MEDLINE]

[Related citations](#)



754.

[Influence of cannabinoids on somatic cells in vivo.](#)

Zimmerman AM, Raj AY.

Pharmacology. 1980;21(4):277-87.

PMID:

6252564

[PubMed - indexed for MEDLINE]

[Related citations](#)



755.

[Marihuana: a forensic problem.](#)

McBay AJ.

Leg Med. 1980:111-20.

PMID:

6252399

[PubMed - indexed for MEDLINE]

[Related citations](#)



756.

[Pretreatment with delta 1-tetrahydrocannabinol and psychoactive drugs: effects on uptake of biogenic amines and on behavior.](#)

Hershkowitz M, Szechtman H.

Eur J Pharmacol. 1979 Nov 16;59(3-4):267-76.

PMID:

230975

[PubMed - indexed for MEDLINE]

[Related citations](#)



757.

[The oral activity of delta'-tetrahydrocannabinol and its dependence on prostaglandin E2.](#)

Fairbairn JW, Pickens JT.

Br J Pharmacol. 1979 Nov;67(3):379-85.

PMID:

574040

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



758.

[The value of the Duquenois test for cannabis--a survey.](#)

Bailey K.

J Forensic Sci. 1979 Oct;24(4):817-41.

PMID:

232123

[PubMed - indexed for MEDLINE]

[Related citations](#)



759.

[\[Cannabis plants cultivated in Germany: substances in the sense of the narcotics law?\].](#)

Maier RD.

Arch Kriminol. 1979 Sep-Oct;164(3-4):65-77. German. No abstract available.

PMID:

508050

[PubMed - indexed for MEDLINE]

[Related citations](#)



760.

[Development of tolerance to the prolongation of hexobarbitone sleeping time caused by cannabidiol.](#)

Borys HK, Ingall GB, Karler R.

Br J Pharmacol. 1979 Sep;67(1):93-101.

PMID:

497524

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)

761.

[Effects of systemic and intraventricular administration of cannabinoids on schedule-controlled responding in the squirrel monkey.](#)

Carney JM, Balster RL, Martin BR, Harris LS.

J Pharmacol Exp Ther. 1979 Sep;210(3):399-404.

PMID:

113528

[PubMed - indexed for MEDLINE]

[Related citations](#)



762.

[The effect of **cannabidiol**, alone and in combination with ethanol, on human performance.](#)

Belgrave BE, Bird KD, Cheshier GB, Jackson DM, Lubbe KE, Starmer GA, Teo RK.

Psychopharmacology (Berl). 1979 Aug 8;64(2):243-6.

PMID:

115049

[PubMed - indexed for MEDLINE]

[Related citations](#)



763.

[An electrophysiological analysis of the anticonvulsant action of **cannabidiol** on limbic seizures in conscious rats.](#)

Turkanis SA, Smiley KA, Borys HK, Olsen DM, Karler R.

Epilepsia. 1979 Aug;20(4):351-63.

PMID:

477630

[PubMed - indexed for MEDLINE]

[Related citations](#)



764.

[Effects of cannabinoids on cardiac microsomal CaATPase activity and calcium uptake.](#)

Collins FG, Haavik CO.

Biochem Pharmacol. 1979 Aug 1;28(15):2303-6. No abstract available.

PMID:

159054

[PubMed - indexed for MEDLINE]

[Related citations](#)



765.

[The influence of **cannabidiol** and delta 9-tetrahydrocannabinol on cobalt epilepsy in rats.](#)

Chiu P, Olsen DM, Borys HK, Karler R, Turkanis SA.

Epilepsia. 1979 Aug;20(4):365-75.

PMID:

113206

[PubMed - indexed for MEDLINE]

[Related citations](#)



766.

[Cannabidiol and delta 9-tetrahydrocannabinol metabolism. In vitro comparison of mouse and rat liver crude microsome preparations.](#)

Borys HK, Karler R.

Biochem Pharmacol. 1979 May 1;28(9):1553-9. No abstract available.

PMID:

475867

[PubMed - indexed for MEDLINE]

[Related citations](#)



767.

[Acute and subacute inhalation toxicity of Turkish marihuana, cannabichromene, and **cannabidiol** in rats.](#)

Rosenkrantz H, Hayden DW.

Toxicol Appl Pharmacol. 1979 May;48(3):375-86. No abstract available.

PMID:

473186

[PubMed - indexed for MEDLINE]

[Related citations](#)

768.

[The effects of delta 9-tetrahydrocannabinol, **cannabidiol**, and shock on plasma corticosterone concentrations in rats.](#)

Jacobs JA, Dellarco AJ, Manfredi RA, Harclerode J.

J Pharm Pharmacol. 1979 May;31(5):341-2. No abstract available.

PMID:

37310

[PubMed - indexed for MEDLINE]

[Related citations](#)

769.

[Interactions among the cannabinoids in the antagonism of the abdominal constriction response in the mouse.](#)

Sanders J, Jackson DM, Starmer GA.

Psychopharmacology (Berl). 1979 Mar 28;61(3):281-5.

PMID:

156380

[PubMed - indexed for MEDLINE]

[Related citations](#)

770.

[The pharmacokinetic fate of **cannabidiol** and its relationship to barbiturate sleep time.](#)

Karler R, Sangdee P, Turkanis SA, Borys HK.

Biochem Pharmacol. 1979 Mar 15;28(6):777-84. No abstract available.

PMID:

454477

[PubMed - indexed for MEDLINE]

[Related citations](#)

771.

[Effects of cannabinoids on sperm morphology.](#)

Zimmerman AM, Bruce WR, Zimmerman S.

Pharmacology. 1979;18(3):143-8.

PMID:

450964

[PubMed - indexed for MEDLINE]

[Related citations](#)



772.

[Interaction of cannabidiol and alcohol in humans.](#)

Consroe P, Carlini EA, Zwicker AP, Lacerda LA.

Psychopharmacology (Berl). 1979;66(1):45-50.

PMID:

120541

[PubMed - indexed for MEDLINE]

[Related citations](#)



773.

[Effects of delta 1-tetrahydrocannabinol on cyclic AMP in cultured human diploid fibroblasts.](#)

Kelly LA, Butcher RW.

J Cyclic Nucleotide Res. 1979;5(4):303-13.

PMID:

91629

[PubMed - indexed for MEDLINE]

[Related citations](#)



774.

[\[Behavioral effects of cannabis extract in rat: role of catecholamines\].](#)

Arrigo Reina R, Scoto GM, Spadaro C, Mazzone G.

Boll Soc Ital Biol Sper. 1978 Dec 15;54(23):2348-54. Italian. No abstract available.

PMID:

574388

[PubMed - indexed for MEDLINE]

[Related citations](#)



775.

[A contribution to the content of the psychotomimetically active delta9-tetrahydrocannabinol in female \(Marijuana\) and male flowering tops of Cannabis sativa L. cultivated in climatic conditions of Czechoslovakia.](#)

Hanus L.

Act Nerv Super (Praha). 1978 Dec;20(4):282-4. No abstract available.

PMID:

735737

[PubMed - indexed for MEDLINE]

[Related citations](#)



776.

[\[Toxic effects of essential oil of Cannabis sativa L. and main constituents on planarian \(Dugesia tigrina\) \(author's transl\)\].](#)

Fournier G, Lenicque PM, Paris MR.

Toxicol Eur Res. 1978 Nov;1(6):385-9. French.

PMID:

754350

[PubMed - indexed for MEDLINE]

[Related citations](#)



777.

[Stability of Cannabis sativa L. samples and their extracts, on prolonged storage in Delhi.](#)

Narayanaswami K, Golani HC, Bami HL, Dau RD.

Bull Narc. 1978 Oct-Dec;30(4):57-69.

PMID:

258607

[PubMed - indexed for MEDLINE]

[Related citations](#)



778.

[Effect of cannabinoids on the turnover rate of acetylcholine in rat hippocampus, striatum and cortex.](#)

Revuelta AV, Moroni F, Cheney DL, Costa E.

Naunyn Schmiedebergs Arch Pharmacol. 1978 Sep;304(2):107-10.

PMID:

703853

[PubMed - indexed for MEDLINE]

[Related citations](#)



779.

[Microbiological oxidation of the pentyl side chain of cannabinoids.](#)

Robertson LW, Koh SW, Huff SR, Malhotra RK, Ghosh A.

Experientia. 1978 Aug 15;34(8):1020-2.

PMID:

700011

[PubMed - indexed for MEDLINE]

[Related citations](#)



780.

[An investigation of procedures reported to increase potency of marijuana: a chemical analysis and psychological interpretation.](#)

Stewart J, Nielsen PJ, Neidig PH.

Int J Addict. 1978 Jul;13(5):831-7.

PMID:

721338

[PubMed - indexed for MEDLINE]

[Related citations](#)

781.

[The effects of cannabinoids on body temperature and brain catecholamine synthesis.](#)

Bloom AS, Johnson KM, Dewey WL.

Res Commun Chem Pathol Pharmacol. 1978 Apr;20(1):51-7.

PMID:

663408

[PubMed - indexed for MEDLINE]

[Related citations](#)



782.

[Toward drugs derived from cannabis.](#)

Mechoulam R, Carlini EA.

Naturwissenschaften. 1978 Apr;65(4):174-9. Review.

PMID:

351429

[PubMed - indexed for MEDLINE]

[Related citations](#)



783.

[Evidence for highly specific interactions between delta8- and delta9- tetrahydrocannabinol and hydrocortisone in the rodent tyrosine aminotransferase system.](#)

Wrenn JM, Freidman MA.

Toxicol Appl Pharmacol. 1978 Mar;43(3):569-76. No abstract available.

PMID:

26127

[PubMed - indexed for MEDLINE]

[Related citations](#)



784.

[Inhibition of prostaglandin biosynthesis by derivatives of olivetol formed under pyrolysis of **cannabidiol**.](#)

Spronck HJ, Luteijn JM, Salemink CA, Nugteren DH.

Biochem Pharmacol. 1978 Feb 15;27(4):607-8. No abstract available.

PMID:

629821

[PubMed - indexed for MEDLINE]

[Related citations](#)



785.

[\[Organic lesions after application of hashish in rats and rabbits \(author's transl\)\].](#)

Janzen H, Ludwig B, Lycko E, Gerlach D.

Z Rechtsmed. 1978 Jan 31;80(4):305-9. German.

PMID:

204129

[PubMed - indexed for MEDLINE]

[Related citations](#)



786.

[The effects of SP-111, a water-soluble THC derivative, on neuronal activity in the rat brain.](#)

Segal M.

Brain Res. 1978 Jan 13;139(2):263-75. No abstract available.

PMID:

624059

[PubMed - indexed for MEDLINE]

[Related citations](#)



787.

[Effects of marijuana extract distillate and **cannabidiol** on variable interval performance as a function of food deprivation.](#)

Musty RE, Sands R.

Pharmacology. 1978;16(4):199-205.

PMID:

565058

[PubMed - indexed for MEDLINE]

[Related citations](#)



788.

[Nonmutagenic action of cannabinoids in vitro.](#)

Zimmerman AM, Stich H, San R.

Pharmacology. 1978;16(6):333-43.

PMID:

353830

[PubMed - indexed for MEDLINE]

[Related citations](#)



789.

[Stability of tetrahydrocannabinols II.](#)

Garrett ER, Gouyette AJ, Roseboom H.

J Pharm Sci. 1978 Jan;67(1):27-32.

PMID:

22740

[PubMed - indexed for MEDLINE]

[Related citations](#)



790.

[Hypnoticlike effects of cannabidiol in the rat.](#)

Monti JM.

Psychopharmacology (Berl). 1977 Dec 28;55(3):263-5.

PMID:

414288

[PubMed - indexed for MEDLINE]

[Related citations](#)



791.

[\[Chemical composition of Brazilian marihuana samples and the importance of several constituents to the pharmacological activity of the plant\].](#)

Takahashi RN, Zuardi AW, Karniol IG.

Rev Bras Pesqui Med Biol. 1977 Dec;10(6):379-85. Portuguese.

PMID:

609775

[PubMed - indexed for MEDLINE]

[Related citations](#)



792.

[In vivo metabolism of cannabiol by the mouse and rat and a comparison with a metabolism of delta 1-tetrahydrocannabinol and **cannabidiol**.](#)

Harvey DJ, Martin BR, Paton WD.

Biomed Mass Spectrom. 1977 Dec;4(6):364-70.

PMID:

597586

[PubMed - indexed for MEDLINE]

[Related citations](#)



793.

[Inhibition of corticosteroidogenesis by delta-9-tetrahydrocannabinol.](#)

Warner W, Harris LS, Carchman RA.

Endocrinology. 1977 Dec;101(6):1815-20.

PMID:

201449

[PubMed - indexed for MEDLINE]

[Related citations](#)



794.

[The effect of delta 9-tetrahydrocannabinol, **cannabidiol**, and cannabiol on the anaesthesia induced by various anaesthetic agents in mice.](#)

Frizza J, Chesher GB, Jackson DM, Malor R, Starmer GA.

Psychopharmacology (Berl). 1977 Nov 24;55(1):103-7.

PMID:

414255

[PubMed - indexed for MEDLINE]

[Related citations](#)



795.

[Mass spectrometry of cannabinoids.](#)

Vree TB.

J Pharm Sci. 1977 Oct;66(10):1444-50.

PMID:

925901

[PubMed - indexed for MEDLINE]

[Related citations](#)



796.

[A cannabinoid with cardiovascular activity but no overt behavioral effects.](#)

Adams MD, Earnhardt JT, Martin BR, Harris LS, Dewey WL, Razdan RK.

Experientia. 1977 Sep 15;33(9):1204-5.

PMID:

891878

[PubMed - indexed for MEDLINE]

[Related citations](#)



797.

[Effects of cannabinoids on L1210 murine leukemia. 1. Inhibition of DNA synthesis.](#)

Tucker AN, Friedman MA.

Res Commun Chem Pathol Pharmacol. 1977 Aug;17(4):703-14.

PMID:

897352

[PubMed - indexed for MEDLINE]

[Related citations](#)



798.

[Anticonvulsant interaction of **cannabidiol** and ethosuximide in rats.](#)

Consroe PF, Wolkin AL.

J Pharm Pharmacol. 1977 Aug;29(8):500-1. No abstract available.

PMID:

19602

[PubMed - indexed for MEDLINE]

[Related citations](#)



799.

[Cannabinoid patterns in seedlings of *Cannabis sativa* L. and their use in the determination of chemical race.](#)

Rowan MG, Fairbairn JW.

J Pharm Pharmacol. 1977 Aug;29(8):491-4.

PMID:

19599

[PubMed - indexed for MEDLINE]

[Related citations](#)



800.

[Hashish.1 Synthesis of \(+/-\)-delta1-and delta 6-3,4-cis-cannabidiols and their isomerization by acid catalysis.](#)

Handrick GR, Razdan RK, Uliss DB, Dalzell HC, Boger E.

J Org Chem. 1977 Jul 22;42(15):2563-8. No abstract available.

PMID:

17656

[PubMed - indexed for MEDLINE]

[Related citations](#)

801.

[Delta9-THC as a discriminative cue in pigeons: effects of delta8-THC, CBD, and CBN.](#)

Järbe TU, Henriksson BG, Ohlin GC.

Arch Int Pharmacodyn Ther. 1977 Jul;228(1):68-72.

PMID:

921403

[PubMed - indexed for MEDLINE]

[Related citations](#)



802.

[Marihuana metabolites in urine of man. VII. Excretion patterns of acidic metabolites detected by sequential thin layer chromatography.](#)

Kanter SL, Hollister LE.

Res Commun Chem Pathol Pharmacol. 1977 Jul;17(3):421-31.

PMID:

897336

[PubMed - indexed for MEDLINE]

[Related citations](#)



803.

[Preclinical chronic effects: unlearned and learned behavior.](#)

Ferraro DP.

NIDA Res Monogr. 1977 Jul;(14):118-27. Review. No abstract available.

PMID:

411039

[PubMed - indexed for MEDLINE]

[Related citations](#)



804.

[Pyrolysis of **cannabidiol**. Structure elucidation of a major pyrolytic conversion product.](#)

Spronck HJ, Lousberg RJ.

Experientia. 1977 Jun 15;33(6):705-6.

PMID:

891718

[PubMed - indexed for MEDLINE]

[Related citations](#)



805.

[Synthesis and characterization of glucuronides of Cannabinol. **cannabidiol**, delta9-tetrahydrocannabinol and delta8-tetrahydrocannabinol.](#)

Lyle MA, Pallante S, Head K, Fenselau C.

Biomed Mass Spectrom. 1977 Jun;4(3):190-6.

PMID:

890081

[PubMed - indexed for MEDLINE]

[Related citations](#)



806.

[The effects of delta9-tetrahydrocannabinol and **cannabidiol** on the metabolism of gonadal steroids in the rat.](#)

List A, Nazar B, Nyquist S, Harclerode J.

Drug Metab Dispos. 1977 May-Jun;5(3):268-72.

PMID:

17525

[PubMed - indexed for MEDLINE]

[Related citations](#)



807.

[Biotransformation of **cannabidiol** in mice. Identification of new acid metabolites.](#)

Martin BR, Harvey DJ, Paton WD.

Drug Metab Dispos. 1977 May-Jun;5(3):259-67.

PMID:

17524

[PubMed - indexed for MEDLINE]

[Related citations](#)

808.

[Influence of delta9-tetrahydrocannabinol and **cannabidiol** on photically evoked after-discharge potentials.](#)

Turkanis SA, Chiu P, Borys HK, Karler R.

Psychopharmacology (Berl). 1977 Apr 29;52(2):207-12.

PMID:

407606

[PubMed - indexed for MEDLINE]

[Related citations](#)

809.

[Storage of cannabinoids by *Arctia caja* and *Zonocerus elegans* fed on chemically distinct strains of *Cannabis sativa*.](#)

Rothschild M, Rowan MG, Fairbairn JW.

Nature. 1977 Apr 14;266(5603):650-1. No abstract available.

PMID:

859633

[PubMed - indexed for MEDLINE]

[Related citations](#)

810.

[**Cannabidiol**--antiepileptic drug comparisons and interactions in experimentally induced seizures in rats.](#)

Consroe P, Wolkin A.

J Pharmacol Exp Ther. 1977 Apr;201(1):26-32.

PMID:

850145

[PubMed - indexed for MEDLINE]

[Related citations](#)

811.

[Effects of cannabinoids on macromolecular synthesis and replication of cultured lymphocytes.](#)

Nahas GG, Morishima A, Desoize B.

Fed Proc. 1977 Apr;36(5):1748-52.

PMID:

844617

[PubMed - indexed for MEDLINE]

[Related citations](#)



812.

[Effects of delta9-tetrahydrocannabinol and **cannabidiol** on a Mg²⁺-ATPase of synaptic vesicles prepared from rat cerebral cortex.](#)

Gilbert JC, Pertwee RG, Wyllie MG.

Br J Pharmacol. 1977 Apr;59(4):599-601.

PMID:

139957

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



813.

[Effects of chronic administration of delta-9-tetrahydrocannabinol and **cannabidiol** on rat testicular esterase isozymes.](#)

Goldstein H, Harclerode J, Nyquist SE.

Life Sci. 1977 Mar 15;20(6):951-4. No abstract available.

PMID:

850463

[PubMed - indexed for MEDLINE]

[Related citations](#)



814.

[Identification of glucuronides as in vivo liver conjugates of seven cannabinoids and some of their hydroxy and acid metabolites.](#)

Harvey DJ, Martin BR, Paton WD.

Res Commun Chem Pathol Pharmacol. 1977 Feb;16(2):265-79.

PMID:

847285

[PubMed - indexed for MEDLINE]

[Related citations](#)



815.

[Comparative diuretic activity of delta9-tetrahydrocannabinol, **cannabidiol**, cannabinol and hydrochlorothiazide in the rat.](#)

Sofia RD, Knobloch LC, Harakal JJ, Erikson DJ.

Arch Int Pharmacodyn Ther. 1977 Jan;225(1):77-87.

PMID:

849066

[PubMed - indexed for MEDLINE]

[Related citations](#)



816.

[Anticonvulsant drug antagonism of delta9tetrahydrocannabinol-induced seizures in rabbits.](#)

Consroe P, Martin P, Eisenstein D.

Res Commun Chem Pathol Pharmacol. 1977 Jan;16(1):1-13.

PMID:

841172

[PubMed - indexed for MEDLINE]

[Related citations](#)



817.

[In vivo effects of cannabinoids on macromolecular biosynthesis in Lewis lung carcinomas.](#)

Friedman MA.

Cancer Biochem Biophys. 1977;2(2):51-4.

PMID:

616322

[PubMed - indexed for MEDLINE]

[Related citations](#)



818.

[delta1-tetrahydrocannabinol, **cannabidiol** and cannabinol effects on the immune response of mice.](#)

Zimmerman S, Zimmerman AM, Cameron IL, Laurence HL.

Pharmacology. 1977;15(1):10-23.

PMID:

320608

[PubMed - indexed for MEDLINE]

[Related citations](#)



819.

[Impairment of ADP-induced platelet aggregation by hashish components.](#)

Levy R, Schurr A, Nathan I, Dvilanski A, Livne A.

Thromb Haemost. 1976 Dec 31;36(3):634-40.

PMID:

1037158

[PubMed - indexed for MEDLINE]

[Related citations](#)



820.

[Influence of **cannabidiol** on secobarbital effects and plasma kinetics.](#)

Dalton WS, Martz R, Rodda BE, Lemberger L, Forney RB.

Clin Pharmacol Ther. 1976 Dec;20(6):695-700.

PMID:

791563

[PubMed - indexed for MEDLINE]

[Related citations](#)

821.

[The separation, identification, and quantitation of cannabinoids and their tau=butyldimethylsilyl, trimethylsilylacetate, and diethylphosphate derivatives using high-pressure liquid chromatography, gas-liquid chromatography, and mass spectrometry.](#)

Knaus EE, Coutts RT, Kazakoff CW.

J Chromatogr Sci. 1976 Nov;14(11):525-30.

PMID:

977713

[PubMed - indexed for MEDLINE]

[Related citations](#)



822.

[Separation of cannabinoids.](#)

Repetto M, Lopez-Artiguez M, Martinez D.

Bull Narc. 1976 Oct-Dec;28(4):69-74.

PMID:

1051626

[PubMed - indexed for MEDLINE]

[Related citations](#)



823.

[Identification of the glucuronides of **cannabidiol** and hydroxycannabidiols in mouse liver.](#)

Harvey DJ, Martin BR, Paton WD.

Biochem Pharmacol. 1976 Oct 1;25(19):2217-9. No abstract available.

PMID:

971336

[PubMed - indexed for MEDLINE]

[Related citations](#)



824.

[Effect of some cannabinoids on naloxone-precipitated abstinence in morphine-dependent mice.](#)

Bhargava HN.

Psychopharmacology (Berl). 1976 Sep 29;49(3):267-70.

PMID:

826944

[PubMed - indexed for MEDLINE]

[Related citations](#)



825.

[Cannabinols and the rosette forming properties of lymphocytes in vitro.](#)

Cushman P Jr.

Life Sci. 1976 Sep 15;19(6):875-85. No abstract available.

PMID:

1085853

[PubMed - indexed for MEDLINE]

[Related citations](#)



826.

[Effects of marihuana-dextroamphetamine combination.](#)

Evans MA, Martz R, Rodda BE, Lemberger L, Forney RB.

Clin Pharmacol Ther. 1976 Sep;20(3):350-8.

PMID:

782773

[PubMed - indexed for MEDLINE]

[Related citations](#)



827.

[Effects of cannabinoids on the perfused rat heart.](#)

Smiley KA, Karler R, Turkanis SA.

Res Commun Chem Pathol Pharmacol. 1976 Aug;14(4):659-75.

PMID:

959665

[PubMed - indexed for MEDLINE]

[Related citations](#)



828.

[Marihuana-induced antibody response.](#)

Shapiro CM, Orlina AR, Unger PJ, Telfer M, Billings AA.

J Lab Clin Med. 1976 Aug;88(2):194-201.

PMID:

956682

[PubMed - indexed for MEDLINE]

[Related citations](#)



829.

[Dioxygenated metabolites of **cannabidiol** formed by rat liver.](#)

Martin B, Agurell S, Nordqvist M, Lindgren JE.

J Pharm Pharmacol. 1976 Aug;28(8):603-8.

PMID:

11306

[PubMed - indexed for MEDLINE]

[Related citations](#)



830.

[The effect of hashish compounds on pphospholipid phase transition.](#)

Bach D, Raz A, Goldman R.

Biochim Biophys Acta. 1976 Jul 15;436(4):889-94.

PMID:

952922

[PubMed - indexed for MEDLINE]

[Related citations](#)

831.

[Delta9-tetrahydrocannabinol: depression of ventilatory regulation; other respiratory and cardiovascular effects.](#)

Moss IR, Friedman E.

Life Sci. 1976 Jul 1;19(1):99-104. No abstract available.

PMID:

940439

[PubMed - indexed for MEDLINE]

[Related citations](#)

832.

[The interaction of hashish compounds with planar lipid bilayer membranes \(BLM\).](#)

Bach D, Raz A, Goldman R.

Biochem Pharmacol. 1976 Jun 1;25(11):1241-4. No abstract available.

PMID:

938548

[PubMed - indexed for MEDLINE]

[Related citations](#)

833.

[Chromatographic separation of cannabinoids and their monooxygenated derivatives.](#)

Fonseka K, Widman M.

J Chromatogr. 1976 May 26;120(2):334-8.

PMID:

1270554

[PubMed - indexed for MEDLINE]

[Related citations](#)

834.

[Differential inhibition of mitochondrial monoamine oxidase from brain by hashish components.](#)

Schurr A, Livne A.

Biochem Pharmacol. 1976 May 15;25(10):1201-3. No abstract available.

PMID:

938542

[PubMed - indexed for MEDLINE]

[Related citations](#)



835.

[Detection and quantification of tetrahydrocannabinol in blood plasma.](#)

Ohlsson A, Lindgren JE, Leander K, Agurell S.

NIDA Res Monogr. 1976 May;(7):48-63. No abstract available.

PMID:

967240

[PubMed - indexed for MEDLINE]

[Related citations](#)



836.

[Comparative effects of various naturally occurring cannabinoids on food, sucrose and water consumption by rats.](#)

Sofia RD, Knobloch LC.

Pharmacol Biochem Behav. 1976 May;4(5):591-9.

PMID:

951436

[PubMed - indexed for MEDLINE]

[Related citations](#)



837.

[Delta 9-Tetrahydrocannabinol, ethanol, and amphetamine as discriminative stimuli-generalization tests with other drugs.](#)

Bueno OF, Carlini EA, Finkelfarb E, Suzuki JS.

Psychopharmacologia. 1976 Apr 15;46(3):235-43.

PMID:

951459

[PubMed - indexed for MEDLINE]

[Related citations](#)



838.

[The forensic significance of the age and origin of cannabis.](#)

De Faubert Maunder MJ.

Med Sci Law. 1976 Apr;16(2):78-90. No abstract available.

PMID:

933762

[PubMed - indexed for MEDLINE]

[Related citations](#)



839.

[Characterization of the butyl homologues of delta1-tetrahydrocannabinol, cannabiniol and **cannabidiol** in samples of cannabis by combined gas chromatography and mass spectrometry.](#)

Harvey DJ.

J Pharm Pharmacol. 1976 Apr;28(4):280-5.

PMID:

6715

[PubMed - indexed for MEDLINE]

[Related citations](#)



840.

[Identification of monohydroxylated metabolites of **cannabidiol** formed by rat liver.](#)

Martin B, Nordqvist M, Agurell S, Lindgren JE, Leander K, Binder M.

J Pharm Pharmacol. 1976 Apr;28(4):275-9.

PMID:

6714

[PubMed - indexed for MEDLINE]

[Related citations](#)

841.

[\[Determination of cannabinoids in Cannabis sativa from Belgian origin \(author's transl\)\].](#)

Van Boven M, Bruneel N, Daenens P.

J Pharm Belg. 1976 Mar-Apr;31(2):215-9. French. No abstract available.

PMID:

950586

[PubMed - indexed for MEDLINE]

[Related citations](#)



842.

[Influence of cannabidiol on delta-9-tetrahydrocannabinol effects.](#)

Dalton WS, Martz R, Lemberger L, Rodda BE, Forney RB.

Clin Pharmacol Ther. 1976 Mar;19(3):300-9.

PMID:

770048

[PubMed - indexed for MEDLINE]

[Related citations](#)



843.

[Mode of action of hashish compounds in reducing blood platelet count.](#)

Levy R, Livne A.

Biochem Pharmacol. 1976 Feb 1;25(3):359-60. No abstract available.

PMID:

1267833

[PubMed - indexed for MEDLINE]

[Related citations](#)



844.

[Effect of tetrahydrocannabinols on 3H-acetylcholine biosynthesis in various rat brain slices.](#)

Friedman E, Hanin I, Gershon S.

J Pharmacol Exp Ther. 1976 Feb;196(2):339-45.

PMID:

1255481

[PubMed - indexed for MEDLINE]

[Related citations](#)



845.

[Antitussive activity of some naturally occurring cannabinoids in anesthetized cats.](#)

Gordon R, Gordon RJ, Sofia D.

Eur J Pharmacol. 1976 Feb;35(2):309-13.

PMID:

1248507

[PubMed - indexed for MEDLINE]

[Related citations](#)



846.

[Effect of cannabinoids on the abdominal constriction response in mice: within cannabinoid interactions.](#)

Welburn PJ, Starmer GA, Chesher GB, Jackson DM.

Psychopharmacologia. 1976;46(1):83-5.

PMID:

1257370

[PubMed - indexed for MEDLINE]

[Related citations](#)



847.

[Combined effect of methaqualone and two cannabinoids.](#)

Stone CJ, McCoy DJ, Forney RB.

J Forensic Sci. 1976 Jan;21(1):108-11. No abstract available.

PMID:

1249542

[PubMed - indexed for MEDLINE]

[Related citations](#)



848.

[The inhibition of DNA synthesis by cannabinoids.](#)

Carchman RA, Harris LS, Munson AE.

Cancer Res. 1976 Jan;36(1):95-100.

PMID:

1248011

[PubMed - indexed for MEDLINE]

[Free Article](#)

[Related citations](#)



849.

[Effect of hashish compounds on mouse peritoneal macrophages.](#)

Raz A, Goldman R.

Lab Invest. 1976 Jan;34(1):69-76.

PMID:

1246125

[PubMed - indexed for MEDLINE]

[Related citations](#)



850.

[Antibacterial activity of delta9-tetrahydrocannabinol and cannabidiol.](#)

Van Klinger B, Ten Ham M.

Antonie Van Leeuwenhoek. 1976;42(1-2):9-12.

PMID:

1085130

[PubMed - indexed for MEDLINE]

[Related citations](#)



851.

[Total synthesis of **cannabidiol** and delta1-tetrahydrocannabinol metabolites.](#)

Lander N, Ben-Zvi Z, Mechoulam R, Martin B, Nordqvist M, Agurell S.

J Chem Soc Perkin 1. 1976;(1):8-16. No abstract available.

PMID:

942726

[PubMed - indexed for MEDLINE]

[Related citations](#)



852.

[Clinical studies on the interaction of psychopharmacologic agents with marihuana.](#)

Lemberger L, Dalton B, Martz R, Rodda B, Forney R.

Ann N Y Acad Sci. 1976;281:219-28. Review. No abstract available.

PMID:

798524

[PubMed - indexed for MEDLINE]

[Related citations](#)



853.

[The stability of cannabis and its preparations on storage.](#)

Fairbairn JW, Liebmann JA, Rowan MG.

J Pharm Pharmacol. 1976 Jan;28(1):1-7.

PMID:

6643

[PubMed - indexed for MEDLINE]

[Related citations](#)



854.

[High pressure liquid chromatography on cannabis. Identification of separated constituents.](#)

Smith RN.

J Chromatogr. 1975 Dec 10;115(1):101-6.

PMID:

418

[PubMed - indexed for MEDLINE]

[Related citations](#)



855.

[Proceedings: Cannabinoid pattern in Cannabis sativa L. seedlings as an indication of chemical race.](#)

Fairbairn JW, Rowan MG.

J Pharm Pharmacol. 1975 Dec;27 Suppl?-2:90P. No abstract available.

PMID:

2769

[PubMed - indexed for MEDLINE]

[Related citations](#)



856.

[Cannabidiol and its pharmacokinetic interaction with delta1-tetrahydrocannabinol.](#)

Levy S, McCallum NK.

Experientia. 1975 Nov 15;31(11):1268-9.

PMID:

1204768

[PubMed - indexed for MEDLINE]

[Related citations](#)



857.

[Proceedings: Differential inhibition of mitochondrial monoamine oxidase from brain by hashish components.](#)

Schurr A, Livne A.

Isr J Med Sci. 1975 Nov;11(11):1188. No abstract available.

PMID:

1205768

[PubMed - indexed for MEDLINE]

[Related citations](#)



858.

[Proceedings: Effect of hashish compounds on mouse peritoneal macrophages.](#)

Raz A, Goldman R.

Isr J Med Sci. 1975 Nov;11(11):1177. No abstract available.

PMID:

1205747

[PubMed - indexed for MEDLINE]

[Related citations](#)



859.

[The influence of delta9-tetrahydrocannabinol, cannabinoil and **cannabidiol** on tissue oxygen consumption.](#)

Chiu P, Karler R, Craven C, Olsen DM, Turkanis SA.

Res Commun Chem Pathol Pharmacol. 1975 Oct;12(2):267-86.

PMID:

1197914

[PubMed - indexed for MEDLINE]

[Related citations](#)



860.

[Distinction of synthetic **cannabidiol**, cannabichromene, and cannabivarin by GLC using on-column methylation.](#)

Bailey K, Gagné D.

J Pharm Sci. 1975 Oct;64(10):1719-20.

PMID:

1185546

[PubMed - indexed for MEDLINE]

[Related citations](#)

861.

[Interactions between **cannabidiol** and delta9-THC during abstinence in morphine-dependent rats.](#)

Hine B, Torrelío M, Gershon S.

Life Sci. 1975 Sep 15;17(6):851-7. No abstract available.

PMID:

1238886

[PubMed - indexed for MEDLINE]

[Related citations](#)



862.

[Differential effect of cannabinoil and **cannabidiol** on THC-induced responses during abstinence in morphine-dependent rats.](#)

Hine B, Torrelío M, Gershon S.

Res Commun Chem Pathol Pharmacol. 1975 Sep;12(1):185-8.

PMID:

1237925

[PubMed - indexed for MEDLINE]

[Related citations](#)



863.

[Delta 9-tetrahydrocannabinol produced discrimination in pigeons.](#)

Henriksson BG, Johansson JO, Järbe TU.

Pharmacol Biochem Behav. 1975 Sep-Oct;3(5):771-4.

PMID:

1208619

[PubMed - indexed for MEDLINE]

[Related citations](#)



864.

[Anticonvulsant activity of four oxygenated **cannabidiol** derivatives.](#)

Carlini EA, Mechoulam R, Lander N.

Res Commun Chem Pathol Pharmacol. 1975 Sep;12(1):1-15.

PMID:

1188178

[PubMed - indexed for MEDLINE]

[Related citations](#)



865.

[Antineoplastic activity of cannabinoids.](#)

Munson AE, Harris LS, Friedman MA, Dewey WL, Carchman RA.

J Natl Cancer Inst. 1975 Sep;55(3):597-602.

PMID:

1159836

[PubMed - indexed for MEDLINE]

[Related citations](#)



866.

[Influence of anticonvulsant cannabinoids on posttetanic potentiation at isolated bullfrog ganglia.](#)

Turkanis SA, Karler R.

Life Sci. 1975 Aug 15;17(4):569-78. No abstract available.

PMID:

1081172

[PubMed - indexed for MEDLINE]

[Related citations](#)



867.

[The effect of delta9-tetrahydrocannabinol, **cannabidiol** and cannabinol on ether anaesthesia in mice.](#)

Malor R, Jackson DM, Chesher GB.

J Pharm Pharmacol. 1975 Aug;27(8):610-2. No abstract available.

PMID:

239179

[PubMed - indexed for MEDLINE]

[Related citations](#)



868.

[Interaction of delta9-tetrahydrocannabinol and **cannabidiol** with phenobarbitone in protecting mice from electrically induced convulsions.](#)

Chesher GB, Jackson DM, Malor RM.

J Pharm Pharmacol. 1975 Aug;27(8):608-9. No abstract available.

PMID:

239178

[PubMed - indexed for MEDLINE]

[Related citations](#)



869.

[Interactions in man of delta-9-tetrahydrocannabinol. II. Cannabinol and **cannabidiol**.](#)

Hollister LE, Gillespie H.

Clin Pharmacol Ther. 1975 Jul;18(1):80-3.

PMID:

1097148

[PubMed - indexed for MEDLINE]

[Related citations](#)



870.

[Cannabinoids: influence on neurotransmitter uptake in rat brain synaptosomes.](#)

Banerjee SP, Snyder SH, Mechoulam R.

J Pharmacol Exp Ther. 1975 Jul;194(1):74-81.

PMID:

168349

[PubMed - indexed for MEDLINE]

[Related citations](#)

871.

[Plasma cannabinoids measured by radioimmunoassay in rabbits after intravenous injection of tetrahydrocannabinol, 11-hydroxy-tetrahydrocannabinol, cannabinol and **cannabidiol**.](#)

Teale JD, Clough JM, Piall EM, King LJ, Marks V.

Res Commun Chem Pathol Pharmacol. 1975 Jun;11(2):339-42.

PMID:

1153879

[PubMed - indexed for MEDLINE]

[Related citations](#)

872.

[Cannabis. XIV. Pyrolysis of **cannabidiol**--analysis of the volatile constituents.](#)

KUPPERS FJ, Bercht CA, Salemink CA, Lousberg RJ.

J Chromatogr. 1975 May 21;108(2):375-9. No abstract available.

PMID:

1127061

[PubMed - indexed for MEDLINE]

[Related citations](#)

873.

[Constituents of Cannabis sativa L. VIII: Possible biological application of a new method to separate **cannabidiol** and cannabichromene.](#)

Turner CE, Hadley KW, Holley JH, Billets S, Mole ML Jr.

J Pharm Sci. 1975 May;64(5):810-4.

PMID:

1151651

[PubMed - indexed for MEDLINE]

[Related citations](#)

874.

[Effects of 7-hydroxy-delta-6-tetrahydrocannabinol and some related cannabinoids on the guinea pig isolated ileum.](#)

Rosell S, Agurell S.

Acta Physiol Scand. 1975 May;94(1):142-4. No abstract available.

PMID:

1155164

[PubMed - indexed for MEDLINE]

[Related citations](#)



875.

[Constituents of Cannabis sativa L. XI: **Cannabidiol** and cannabichromene in samples of known geographical origin.](#)

Holley JH, Hadley KW, Turner CE.

J Pharm Sci. 1975 May;64(5):892-4. No abstract available.

PMID:

1151671

[PubMed - indexed for MEDLINE]

[Related citations](#)



876.

[Cardiopulmonary effects of **cannabidiol** in anesthetized mongrel dogs.](#)

Bright TP, Farber MO, Brown DJ, Lewis SC, Forney RB.

Toxicol Appl Pharmacol. 1975 Mar;31(3):520-6. No abstract available.

PMID:

238308

[PubMed - indexed for MEDLINE]

[Related citations](#)



877.

[Morphine-dependent rats: blockade of precipitated abstinence by tetrahydrocannabinol.](#)

Hine B, Friedman E, Torrelio M, Gershon S.

Science. 1975 Feb 7;187(4175):443-5.

PMID:

1167428

[PubMed - indexed for MEDLINE]

[Related citations](#)



878.

[Hashish. Importance of the phenolic hydroxyl group in tetrahydrocannabinols.](#)

Uliss DB, Dalzell HC, Handrick GR, Howes JF, Razdan RK.

J Med Chem. 1975 Feb;18(2):213-5.

PMID:

1120991

[PubMed - indexed for MEDLINE]

[Related citations](#)



879.

[The anticonvulsant activity of cannabinoids in seizure sensitive gerbils.](#)

Cox B, ten Ham M, Loskota WJ, Lomax P.

Proc West Pharmacol Soc. 1975;18:154-7. No abstract available.

PMID:

1178662

[PubMed - indexed for MEDLINE]

[Related citations](#)



880.

[Absence of interaction between delta9-tetrahydrocannabinol \(delta-THC\) and cannabidiol \(CBD\) in aggression, muscle control and body temperature experiments in mice.](#)

Ham MT, De Jong Y.

Psychopharmacologia. 1975;41(2):169-74.

PMID:

1171491

[PubMed - indexed for MEDLINE]

[Related citations](#)

[Comparative analgesic activity of various naturally occurring cannabinoids in mice and rats.](#)

Sofia RD, Vassar HB, Knobloch LC.

Psychopharmacologia. 1975;40(4):285-95.

PMID:

1170585

[PubMed - indexed for MEDLINE]

[Related citations](#)



882.

[\[Effect of tetrahydrocannabinol and of cannabidiol on wound healing and regeneration of the planaria Dugesia tigrinal\].](#)

Paris M, Lenicque PM.

Therapie. 1975 Jan-Feb;30(1):97-102. French. No abstract available.

PMID:

1135788

[PubMed - indexed for MEDLINE]

[Related citations](#)



883.

[New approaches to assay of cannabinoids in biological extracts.](#)

Loeffler KO, Green DE, Chao FC, Forrest IS.

Proc West Pharmacol Soc. 1975;18:363-8. No abstract available.

PMID:

809782

[PubMed - indexed for MEDLINE]

[Related citations](#)



884.

[Letter: Cannabidiol and electroencephalographic epileptic activity.](#)

Perez-Reyes M, Wingfield M.

JAMA. 1974 Dec 23-30;230(12):1635. No abstract available.

PMID:

4612180

[PubMed - indexed for MEDLINE]

[Related citations](#)



885.

[Effects of **cannabidiol** and delta-9-tetrahydrocannabinol on operant behavior.](#)

Davis WM, Borgen LA.

Res Commun Chem Pathol Pharmacol. 1974 Nov;9(3):453-62. No abstract available.

PMID:

4445565

[PubMed - indexed for MEDLINE]

[Related citations](#)



886.

[Minor components of cannabis resin. V. Mass spectrometric data and gas chromatographic retention times of cannabinoid components with retention times shorter than that of **cannabidiol**.](#)

Strömberg L.

J Chromatogr. 1974 Sep 11;96(2):179-87. No abstract available.

PMID:

4414687

[PubMed - indexed for MEDLINE]

[Related citations](#)



887.

[Cannabidiol interferes with the effects of delta 9 - tetrahydrocannabinol in man.](#)

Karniol IG, Shirakawa I, Kasinski N, Pfeferman A, Carlini EA.

Eur J Pharmacol. 1974 Sep;28(1):172-7. No abstract available.

PMID:

4609777

[PubMed - indexed for MEDLINE]

[Related citations](#)

888.

[A study of the development of tolerance to an anticonvulsant effect of delta9-tetrahydrocannabinol and **cannabidiol**.](#)

Karler R, Cely W, Turkanis SA.

Res Commun Chem Pathol Pharmacol. 1974 Sep;9(1):23-39. No abstract available.

PMID:

4438826

[PubMed - indexed for MEDLINE]

[Related citations](#)

889.

[Minor components of cannabis resin. IV. Mass spectrometric data and gas chromatographic retention times of terpenic components with retention times shorter than that of **cannabidiol**.](#)

Strömberg L.

J Chromatogr. 1974 Aug 28;96(1):99-114. No abstract available.

PMID:

4414686

[PubMed - indexed for MEDLINE]

[Related citations](#)

890.

[Decomposition of **cannabidiol** in chloroform solution.](#)

Parker JM, Borke ML, Block LH, Cochran TG.

J Pharm Sci. 1974 Jun;63(6):970-1. No abstract available.

PMID:

4851274

[PubMed - indexed for MEDLINE]

[Related citations](#)



891.

[Anticonvulsant properties of cannabidiol.](#)

Turkanis SA, Cely W, Olsen DM, Karler R.

Res Commun Chem Pathol Pharmacol. 1974 Jun;8(2):231-46. No abstract available.

PMID:

4850602

[PubMed - indexed for MEDLINE]

[Related citations](#)



892.

[Cannabidiol interaction with delta9-tetrahydrocannabinol.](#)

Borgen LA, Davis WM.

Res Commun Chem Pathol Pharmacol. 1974 Apr;7(4):663-70. No abstract available.

PMID:

4828762

[PubMed - indexed for MEDLINE]

[Related citations](#)



893.

[Interaction of cannabis and general anaesthetic agents in mice.](#)

Chesher GB, Jackson DM, Starmer GA.

Br J Pharmacol. 1974 Apr;50(4):593-9.

PMID:

4280927

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



894.

[Effects of marihuana in laboratory animals and in man.](#)

Carlini EA, Karniol IG, Renault PF, Schuster CR.

Br J Pharmacol. 1974 Feb;50(2):299-309.

PMID:

4609532

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



895.

[Interaction of delta9-tetrahydrocannabinol and **cannabidiol** on intestinal motility in mice.](#)

Anderson PF, Jackson DM, Chesher GB.

J Pharm Pharmacol. 1974 Feb;26(2):136-7. No abstract available.

PMID:

4150831

[PubMed - indexed for MEDLINE]

[Related citations](#)



896.

[Potentiating effect of **cannabidiol** on delta9-tetrahydrocannabinol-induced changes in hepatic enzymes.](#)

Poddar MK, Bhattacharyya KC, Ghosh JJ.

Biochem Pharmacol. 1974 Feb 1;23(3):758-9. No abstract available.

PMID:

4150815

[PubMed - indexed for MEDLINE]

[Related citations](#)



897.

[Modification of delta9-THC-actions by cannabinoil and **cannabidiol** in the rat.](#)

Fernandes M, Schabarek A, Coper H, Hill R.

Psychopharmacologia. 1974;38(4):329-38. No abstract available.

PMID:

4473791

[PubMed - indexed for MEDLINE]

[Related citations](#)



898.

[\[Identification of potential cannalis containing substance metabolites: nuclear resonance and mass spectroscopic studies on side chain hydroxylation of cannabinoids\].](#)

Binder M, Agurell S, Leander K, Lindgren JE.

Helv Chim Acta. 1974;57(6):1626-41. German. No abstract available.

PMID:

4465340

[PubMed - indexed for MEDLINE]

[Related citations](#)



899.

[The effect of cannabinoids on intestinal motility and their antinociceptive effect in mice.](#)

Chesher GB, Dahl CJ, Everingham M, Jackson DM, Marchant-Williams H, Starmer GA.

Br J Pharmacol. 1973 Dec;49(4):588-94.

PMID:

4788032

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



900.

[The anticonvulsant activity of **cannabidiol** and cannabinoil.](#)

Karler R, Cely W, Turkanis SA.

Life Sci. 1973 Dec 1;13(11):1527-31. No abstract available.

PMID:

4768980

[PubMed - indexed for MEDLINE]

[Related citations](#)



901.

[A comparison of the pharmacological activity in man of intravenously administered delta9-tetrahydrocannabinol, cannabiol, and **cannabidiol**.](#)

Perez-Reyes M, Timmons MC, Davis KH, Wall EM.

Experientia. 1973 Nov 15;29(11):1368-9. No abstract available.

PMID:

4761242

[PubMed - indexed for MEDLINE]

[Related citations](#)



902.

[Letter: The effect of **cannabidiol** on maximal electroshock seizures in rats.](#)

Izquierdo I, Tannhauser M.

J Pharm Pharmacol. 1973 Nov;25(11):916-7. No abstract available.

PMID:

4149660

[PubMed - indexed for MEDLINE]

[Related citations](#)



903.

[Pharmacological interaction between **cannabidiol** and delta 9-tetrahydrocannabinol.](#)

Karniol IG, Carlini EA.

Psychopharmacologia. 1973 Oct 23;33(1):53-70. No abstract available.

PMID:

4358666

[PubMed - indexed for MEDLINE]

[Related citations](#)



904.

[Cardiovascular and respiratory effects of cannabis in cat and rat.](#)

Graham JD, Li DM.

Br J Pharmacol. 1973 Sep;49(1):1-10.

PMID:

4787563

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



905.

[Letter: **Cannabidiol** and Cannabis sativa extract protect mice and rats against convulsive agents.](#)

Carlini EA, Leite JR, Tannhauser M, Berardi AC.

J Pharm Pharmacol. 1973 Aug;25(8):664-5. No abstract available.

PMID:

4148442

[PubMed - indexed for MEDLINE]

[Related citations](#)



906.

[Effects of **cannabidiol** and of diphenylhydantoin on the hippocampus and on learning.](#)

Izquierdo I, Nasello AG.

Psychopharmacologia. 1973 Jul 17;31(2):167-75. No abstract available.

PMID:

4578907

[PubMed - indexed for MEDLINE]

[Related citations](#)



907.

[Constituents of Cannabis sativa L. 3. Clear and discrete separation of **cannabidiol** and cannabichromene.](#)

Turner CE, Hadley KW.

J Pharm Sci. 1973 Jul;62(7):1083-6. No abstract available.

PMID:

4351642

[PubMed - indexed for MEDLINE]

[Related citations](#)



908.

[Two **cannabidiol** metabolites formed by rat liver.](#)

Nilsson I, Agurell S, Nilsson JL, Widman M, Leander K.

J Pharm Pharmacol. 1973 Jun;25(6):486-7. No abstract available.

PMID:

4146589

[PubMed - indexed for MEDLINE]

[Related citations](#)



909.

[\[Chronic administration of **cannabidiol** in man. Pilot study\].](#)

Mincis M, Pfeferman A, Guimarães RX, Ramos OL, Zukerman E, Karniol IG, Carlini EA.

AMB Rev Assoc Med Bras. 1973 May;19(5):185-90. Portuguese. No abstract available.

PMID:

4543076

[PubMed - indexed for MEDLINE]

[Related citations](#)



910.

[Studies on hashish. 5- Identification of **cannabidiol** and cannabidiolic acid by ultraviolet spectrophotometry.](#)

el-Darawy ZI, Abu-Eitah R, Mobarak ZM.

Pharmazie. 1973 Feb;28(2):129-33. No abstract available.

PMID:

4687562

[PubMed - indexed for MEDLINE]

[Related citations](#)



911.

[Constituents of Cannabis sativa L. II. Absence of **cannabidiol** in an African variant.](#)

Turner CE, Hadley K.

J Pharm Sci. 1973 Feb;62(2):251-5. No abstract available.

PMID:

4686398

[PubMed - indexed for MEDLINE]

[Related citations](#)



912.

[Synthesis of tritium-labelled tetrahydrocannabinol and **cannabidiol**.](#)

Agurell S, Gustafsson B, Gosztonyi T, Hedman K, Leander K.

Acta Chem Scand. 1973;27(3):1090-1. No abstract available.

PMID:

4741101

[PubMed - indexed for MEDLINE]

[Related citations](#)



913.

[Cannabidiol and cannabinol in man.](#)

Hollister LE.

Experientia. 1973;29(7):825-6. No abstract available.

PMID:

4724713

[PubMed - indexed for MEDLINE]

[Related citations](#)



914.

[Toxicology of marijuana: conditions for conversion of **cannabidiol** to THC upon smoking.](#)

Quarles W, Ellman G, Jones R.

Clin Toxicol. 1973;6(2):211-6. No abstract available.

PMID:

4715204

[PubMed - indexed for MEDLINE]

[Related citations](#)



915.

[Effect of **cannabidiol** and of other cannabis sativa compounds on hippocampal seizure discharges.](#)

Izquierdo I, Orsingher OA, Berardi AC.

Psychopharmacologia. 1973;28(1):95-102. No abstract available.

PMID:

4714680

[PubMed - indexed for MEDLINE]

[Related citations](#)



916.

[The ring test: a quantitative method for assessing the 'cataleptic' effect of cannabis in mice.](#)

Pertwee RG.

Br J Pharmacol. 1972 Dec;46(4):753-63.

PMID:

4655271

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



917.

[A metabolic interaction in vivo between **cannabidiol** and 1 -tetrahydrocannabinol.](#)

Jones G, Pertwee RG.

Br J Pharmacol. 1972 Jun;45(2):375-7.

PMID:

5048656

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text](#) [Related citations](#)



918.

[Minor components of cannabis resin. II. Separation by gas chromatography, mass spectra and molecular weights of some components with shorter retention times than **cannabidiol**.](#)

Strömberg L.

J Chromatogr. 1972 May 31;68(1):248-52. No abstract available.

PMID:

5035228

[PubMed - indexed for MEDLINE]

[Related citations](#)



919.

[Cannabinoids with a propyl side chain in cannabis: occurrence and chromatographic behavior.](#)

de Zeeuw RA, Wijsbeek J, Breimer DD, Vree TB, van Ginneken CA, van Rossum JM.

Science. 1972 Feb 18;175(23):778-9.

PMID:

5057817

[PubMed - indexed for MEDLINE]

[Related citations](#)



920.

[Effect of cannabis and certain of its constituents on pentobarbitone sleeping time and phenazone metabolism.](#)

Paton WD, Pertwee RG.

Br J Pharmacol. 1972 Feb;44(2):250-61.

PMID:

4668592

[PubMed - indexed for MEDLINE]

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[Identification in hashish of tetrahydrocannabinol, **cannabidiol** and cannabinol analogues with a methyl side-chain.](#)

Vree TB, Breimer DD, van Ginneken CA, van Rossum JM.

J Pharm Pharmacol. 1972 Jan;24(1):7-12. No abstract available.

PMID:

4401327

[PubMed - indexed for MEDLINE]

[Related citations](#)



922.

[Marihuana components: effects of smoking on delta-9-tetrahydrocannabinol and **cannabidiol**.](#)

Mikes F, Waser PG.

Science. 1971 Jun 11;172(988):1158-9.

PMID:

5574523

[PubMed - indexed for MEDLINE]

[Related citations](#)



923.

[Some actions of delta-1 tetrahydrocannabinol and **cannabidiol** at cholinergic junctions.](#)

Layman JM, Milton AS.

Br J Pharmacol. 1971 Feb;41(2):379P-380P. No abstract available.

PMID:

5572283

[PubMed - indexed for MEDLINE]

[Free PMC Article](#)

[Free full text Related citations](#)



924.

[Chemical basis of hashish activity.](#)

Mechoulam R, Shani A, Edery H, Grunfeld Y.

Science. 1970 Aug 7;169(945):611-2.

PMID:

4987683

[PubMed - indexed for MEDLINE]

[Related citations](#)



925.

[Hashish. I. The structure of **cannabidiol**.](#)

Michoulam R, Shvo Y.

Tetrahedron. 1963 Dec;19(12):2073-8. No abstract available.

PMID:

5879214

[PubMed - indexed for MEDLINE]

[Related citations](#)



926.

[Marihuana: Tetrahydrocannabinol and Related Compounds.](#)

Lerner M.

Science. 1963 Apr 12;140(3563):175-6.

PMID:

17819834

[PubMed]

[Related citations](#)