

Referencias

- Abi-Dargham, A., Rodenhiser, J., Printz, D., et al. (2000). "Increased baseline occupancy of 2D receptors by dopamine in schizophrenia." *Proc Natl Acad Sci USA*, 97, pp. 8104-8109.
- Adolphs, R. (2003). "Cognitive neuroscience of human social behaviour." *Nat Rev Neurosci*, 4, pp. 165-178.
- Álvarez, J.R. (1978). *Enciclopedia de México, México. vol. XI*. Barcelona, Editorial Planeta.
- Atkins, M.S., McArthur, A.G., Teske, A.P. (2000). "Ancyromonadida: A New Phylogenetic Lineage Among the Protozoa Closely Related to the Common Ancestor of Metazoans, Fungi, and Choanoflagelates (Opisthokonta)". *Journal of Molecular Evolution*, 51, pp. 278-285. Doi: 10.1007/s002390010089.
- Beaulieu, J-M., Ganetdinov, R.R. (2011). "The Physiology, Signaling, and Pharmacology of Dopamine Receptors". *Pharmacological Reviews*, 63(1), pp. 182-217. Doi: 10.1124/pr.110.0022642.

- Bogenschultz, M.P., Forcehimes, A.A., Pommy, J.A., Wilcox, C.E., Barbosa, P.C.R., Strassman, R.J. (2015). "Psilocybin-assisted treatment for alcohol dependence: A proof-of-concept study". *Journal of Psychopharmacology*, 29(3), pp. 289-299. Doi: 10.1177/0269881114565144.
- Borowiak, K., Machoy-Mokrzynska, A., Majdanik, S., Waloszczyk, P., Piasecka, M., Janus, T., Jasionowicz-Piatek, E., Parafiniuk, M. (2006). "Psilocin multiple intake resulted and in cardiotoxic effects". *Acta Toxicologica*, 14(1-2), pp. 23-30.
- Borowiak, K.S., Ciechanowski, K., Waloszczyk, P. (1998). "Cardiac disorders of young men in the process of intoxication by a psilocibine from a mushroom species-*Psilocybe semilanceata*-A case report." *J Toxicol Clin Toxic*, 36, pp. 47-49.
- Brody, S., Krause, C., Veit, R., Rau, H. (1998). "Cardiovascular autonomic dysregulation in users of MDMA (ecstasy)." *Psychopharmacology*, 136, pp. 390-393.
- Canal, C.E., Morgan, D. (2012). "Head-twitch response in rodents induced by the hallucinogen 2,5-dimethoxy-4-iodoamphetamine: a comprehensive history, a re-evaluation of mechanisms, and its utility as a model." *Drug Test Anal.*, 4, pp. 556-576.
- Carlson, A. (2001). "A paradigm shift in brain research." *Science*, 294, pp.1021-1024.2-receptors and serotonin release: their role in human platelet aggregation." *Life Science*, 53, pp. 209-215.
- Cavalier-Smith, T. (1987). "The origin of Fungi and pseudofungi." In Rayner A.D.M., Brasier, C.M., Moore, D. (eds.). *Evolutionary biology of the fungi*. Cambridge, Cambridge University Press.

- Cavalier-Smith, T. Chao, E.E. (1995). "The opalozoan Apusomonas is related to the common ancestor of animals, fungi and choanoflagellates." *Proc Roy Soc Lond B Biol Sci*, 261, pp. 1-6.
- Cerrito, F., Lazzaro, M., Gaudio, E., Arminio, P., Aloisi, G. (1993). "5-HT
- Civelli, O., Bunzow, J.R., Grandy, D.K. (1993). "Molecular diversity of the dopamine receptors." *Annu Rev Pharmacol Toxicol*, 33, pp. 281-307.
- Dahlstrom, A., Fuxe, K. (1964). "Evidence for the existence of monoamine-containing neurons in the central nervous system." *Acta Physiologica Scandinavia*, 62, pp. 1-55.
- Deacon, J. (1980). *Fungal Biology*. EUA, RU, Blackwell Publishing.
- Ehringer H., Hornykiewicz, O. (1960). "Distribution of noradrenaline and dopamine (3-hydroxytyramine) in the human brain and their behavior in diseases of the extrapyramidal system." *Klin Wochenschr*, 38, pp. 1236-1239. In rhesus monkeys." *Behav Pharmacol*, 15, pp. 149-157.
- Fantegrossi, W.E., Woods, J.H., Winger, G. (2004). "Transient reinforcing effects of phenylisopropylamine and indolealkylamine hallucinogens
- Furst, P.T. (1974). "Hallucinogens in pre-Columbian art." In King, M.E., I.R. Taylor (eds.) *Art and environment in native America*. Lubbock, EUA, Texas Tech. University Press, pp. 55-102.
- Ghuran, A., Nolan, J. (2000). "Recreational drug misuse: issues for the cardiologist." *Heart*, 83, pp. 627-633.

- Girgis, R.R., Van Snellenberg, J.X., Glass, A., Kegeles, L.S., Thompson, J.L., Wall, M., Cho, R.Y., Carter, C.S., Slifstein, M., Abi-Dargham, A., Lieberman, J.A. (2016). "A proof-of-concept, randomized controlled trial of DAR-0100A, a dopamine-1 receptor agonist, for cognitive enhancement in schizophrenia". *Journal of Psychopharmacology*, 30(5), pp. 428-435. Doi: 10.1177/0269881116636120.
- Goldstein, R.Z., Volkow, N.D. (2011). "Oral methylphenidate normalizes cingulate activity and decreases impulsivity in cocaine addiction during an emotionally salient cognitive task." *Neuropsychopharmacology*, 36, pp. 366-367.
- Griffiths, R.R., Richards, W.A., Johnson, M.W. (2008). "Mystical-type experiences occasioned by psilocybin mediate attribution of personal meaning and spiritual significance 14 month later." *J Psychopharmacol*, 22, pp. 621-632.
- Griffiths, R.R., Bigelow, G.E., Henningfield J.E. (1980). "Similarities in animal and human drug-taking behavior." *Adv Subst Abuse*, 1, pp. 1-90.
- Grob, C.S. (2011). "Pilot study of psilocybin treatment for anxiety in patients with advanced-stage cancer." *Arch Gen Psychiatry*, 68, pp. 71-78.
- Guzmán, G. (2012). "New taxonomical and ethnomycological observations on psilocybe S.S. (Fungi, Basidiomycota, Agaricomycetidae, Agaricales, Strophariaceae) from Mexico, Africa and Spain". *Acta Botanica Mexicana*, 100, pp. 79-106.
- (2008). "Hallucinogenic Mushrooms in Mexico: An Overview". *Economic Botany*, 62(3), pp. 404-412.

------(1997). *Los nombres de los hongos y lo relacionado con ellos en América Latina*. Xalapa, México, Instituto de Ecología, A.C., Comisión Nacional para el Conocimiento y Uso de la Biodiversidad.

------(1983). "The genus *Psilocybe*." *Beih. Nova Hedwigia*, 74, pp. 1-439.

------(1960). Nueva localidad de importancia etnomicológica de los hongos neurotrópicos mexicanos (Necaxa, Puebla, México). *Ciencia (Méx.)* 20, pp. 85-87.

Haber, S.N. (2011). "Neuroanatomy of Reward: A View from the Ventral Striatum." In Gottfried, J.A. (ed.) *Neurobiology of Sensation and Reward*. Boca Ratón, Florida, CRC Press.

Halberstadt, A.L., Geyer, M.A. (2011). "Multiple receptors contribute to the behavioral effects of indoleamine hallucinogens." *Neuropharmacology*, 61, pp. 364-381.

Hassler, F., Bourquin, D., Brennaisen, R., Bär, T., Vollenweider, F.X. (1997). "Determination of psilocin and 4-hydroxyindole-3-acetic acid in plasma by HPLC-ECD and pharmacokinetic profiles of oral and intravenous psilocybin in man." *Pharm. Acta Helv.*, 72, pp. 175-184. Doi: 10.1016/S0031-6865(97)00014-9.

Heim, R. (1957a). "Les agarics hallucinogènes du genre *Psilocybe* recueillis au cours de notre récente misión dans le Mexique meridional et central en compagnie de M.R. Gordon Wasson." *Compt. Rend. Séances Acad. Sci., Paris*, 244, pp. 695-700.

------(1957b). "Notes préliminaires sur les Agariccs hallucinogènes du Mexique, IV: Breves latinae diagnoses hallucinogoranum Mexicanarum psicocybarium ad fera specimina pertinentium." *Rev. Mycol.*, 22, pp. 58-79.

------(1956a). “Les champignons divinatoires recueillis par Mme, Valentina Pavlovna Wasson et M.R. Gordon Wasson au cours des leurs missions de 1954 et 1955 dans les pays mijs, mazatèque, zapotèque et nahua du Mexique meridional el central. *Compt. Rend. Séances Acad. Sci., Paris* 242, pp. 1389-1395.

------(1956b). “Les Champignons Divinatoires Utilizes dans les Rites del Indies Mazatèques, Recuellis du Cours de Leur Premier Voyage in Mexique in 1953, par Mme. Valentina Pavlovna Wasson et M.R. Gordon Wasson.” *Comptes Rendus des Séances de l’Academie de Sciences*, 242, pp. 965-969.

Heim, R., Cailleux, R., R. G. Wasson, Théverand, P. (1966). “Nouveilles investigations sur les champignons hallucinogens.” *Arch. Mus. Nat. Hist. Nat.*, 7(9), pp. 115-218.

Heim, R., R.G. Wasson (1958). “Les champignons hallucinogens du Mexique.” *Arch. Mus. Nat. Hist. Nat.*, 7(6), pp. 1-322.

Herrera, T., Ulloa, M. (1990). *El reino de los hongos. Micología básica y aplicada*. México, Fondo de Cultura Económica.

Hibbert D.S. (2006). “A phylogenetic overview of the *Agaricomycotina*”. *Mycologia*, 98(6), pp. 917-925.

Hilton, B., Cumings, N. (1971). “Asassessment of platelet aggregation induced by 5-hydroxytryptamine.” *Journal of Clinical Pathology*, 24, pp. 250-258.

Hintz, W.E.A., Anderson, J.B., Horgen, P.A. (1988). “Nuclear migration and mitochondrial inheritance in the mushroom *Agaricus bitorquis*.” *Genetics*, 119, pp. 35-41.

- Ishai, A. (2007). "Sex, beauty and the orbitofrontal cortex." *Int J Psychophysiol*, 63, pp. 181-185.
- Johnson, M.W., Garcia-Romeu, Al, Casimano, M.P., Griffiths. R.R. (2014). "Pilot study of the 5-HT_{2A}R agonist psilocybin in the treatment of tobacco addiction". *Journal of Psychopharmacology*, 28(11), pp. 983-992. Doi: 10.1177/0269881114548296.
- Kirk, P.M., Cannon, P.F., David, J.C., Stalpers, J.A. (2001). *Ainsworth and Bisby's Dictionary of the Fungi. 9th ed.* Cambridge, Reino Unido, CAB International University Press.
- Kometer, M., Schmidt, A., Bachmann, R., Struderus, E., Seifritz, E., Vollenweider, F.X. (2012). "Psilocybin biases facial recognition, goal-directed behavior, and mood state toward positive relative to negative emotions through different serotonergic subreceptors." *J Comp Neurol*, 493, pp. 479-509.
- Laruelle, M., Abi-Dargham, A., van Dyck, C.H., et al. (1996). "Single photon emission computerized tomography imaging of amphetamine-induced dopamine release in drug-free schizophrenic subjects." *Proc Natl Acad Sci*, 166, pp. 111-113.
- Lebedev, A.V., Lövdén, M., Rosenthal, G., Feilding, A., Nutt, D.J., Carhart-Harris, R. (2015). "Finding the Self by Losing the Self: Neutral Correlates of ego-Dissolution Under Psilocybin". *Human Brain Mapping*, 36, pp. 3137-3153. Doi: 10.1002/hbm.22833.
- Leeder, A.C., Palma-Guerrero, J., Glass, N.L. (2011). "Nature Reviews". *Microbiology*, 9, pp. 440-451. Doi: 10.1038/nrmicro2580.

- León-Portilla, M. (1999). "Pionero de la antropología. Fray Bernardino de Sahagún." *Arqueología Mexicana*, 6(36), pp. 8-13.
- Lester, S.J. (2000). "Cardiovascular effects of 3,4-methylenedioxymeth-amphetamine." *Ann Intern Med*, 133, pp. 969-973.
- Limanovski, J., Blandenburg, F. (2013). "Minimal self-models and the free energy principle." *Front Hum Neurosci*, 7, p. 547.
- Liu, Y., Steenkamp, E.T., Brinkmann, H., Forget, L., Philippe, H., Lang, B.F. (2009). "Phylogenomic analyses predict sistergroup relationship of nucleariids and Fungi and paraphyly of zygomycetes with significant support". *MBC Evolutionary Biology*, 9(272). Doi: 10.1186/1471-2148-9-272.
- Machoy-Mokrzynska, A., Safranov, K., Borowiak, K.S., Majdanik, S., Dzieziejko, V., Bialecka, M., et al. (2003). "The influence of psilocin and phenylethylamine on the energy metabolism in the rat heart." *Acta Toxicologica*, 11(1), pp. 13-19.
- Maciejczyk, E., Kafarski, P., (2013). "Mannitol in *Amanita muscaria*-An osmotic blood-brain barrier disruptor enhancing its hallucinogenic action." *Medical Hypothesis*, 81, pp. 766-767.
- Magdalan, J. (2000). "Acute intoxication with hallucinogenic mushrooms." *Adv Clin Exp Med*, 9(1), pp. 91-96.
- Mas, M., Farre, M. DelaTorre, L., Roset, P.N., Ortuno, J., Segura, J. et al. (1999). "Cardiovascular and neuroendocrine effects and pharmacokinetics of 3,4-methylenedioxymetamphetamine in humans." *J Pharmacol Exp Therap*, 290(1), pp. 136-145.

- May, G., Taylor, J.W. (1988). "Patterns of mating and mitochondrial DNA inheritance in the agaric basidiomycete *Coprinus cinereus*." *Genetics*, 118, pp. 213-220.
- McIntosh, J. (2016). "¿Qué es la serotonina? ¿Cuál es su función?". *Medical News Today*.
Disponible en <http://www.medicalnewstoday.com/articles/291259.php>.
- Missale, C., Nash, S.R., Robinson, S.W., Jaber, M., Caron, M.G. (1998). "Dopamine receptors: from structure to function." *Physiol Rev*, 78, pp. 189-225.
- Mitchell, J., Sharp, A. (1964). "Platelet clumping *in vitro*." *British Journal of Haematology*, 10, pp. 78-93.
- Mohammad-Zadeh, L.F., Moses, L., Gwaltney-Brant, S.M. (2008). "Serotonin: a review". *Journal of veterinary Pharmacological Therapy*, 31, pp. 187-199. Doi: 10.1111/j.1365-2885.2008.00944x.
- Monroe, R.R., Heath, R.G. (1961). "Effects of lysergic acid and various derivatives on depth and cortical electrograms." *J Neuropsychiatr*, 3, pp. 75-82.
- Ni, W., Watts, S. (2006). "5-Hydroxytryptamine in the cardiovascular system: focus on the serotonin transporter (SERT)." *Clinical and Experimental Pharmacology and Physiology*, 33, pp. 575-583.
- Nieuwenhuis, B.P.S., Debets, A. J. M., Aanen, D.K. (2010). "Sexual selection in mushroom-forming basidiomycetes". *Proceedings. The Royal Society of Biological Sciences*.
Doi:10.1098/rspb.2010.1110.

- Niznik, H.B., Van Tol, H.H. (1992). "Dopamine receptor genes: new tools for molecular psychiatry." *J Psychiatry Neurosci*, 17, pp. 158-180. And a comparison of their inhibitors." *Journal of Clinical Pathology*, 17, pp. 275-281.
- O'Brien, J. (1964). "A comparison of platelet aggregation produced by seven compounds and a comparison of their inhibitors." *Journal of Clinical Pathology*, 17, pp. 275-281.
- Passie, T., Seifert, J., Schneider, U., Emrich, H.M. (2002). "The pharmacology of psilocybin." *Addict. Biol.* 7, 357-364. Doi: 10.1371/journal.pone.0009019.
- Patterson, D.J. (1999). "The diversity of eukaryotes. *Am Nat*, 154 (suppl), pp. S96-S124.
- Pavlovna Wasson, V., Wasson, G. (1957). *Mushrooms. Russia and History, vol II*. Nueva York, Pantheon Books.
- Poling, A., Bryceland, J. (1979). "Voluntary drug self-administration by nonhumans: A review." *J Psychoactive Drugs*, 11, pp.185-190.
- Quasim, A., Towned, J., Davies, M.K. (2001). Ecstasy induced acute myocardial infarction-case report." *Heart*, 85(6), pp. E10.
- Rambousek, L., Palenicek, T., Vales, K., Stuchlik, A. (2014). "The effect of psilocin on memory acquisition, retrieval, and consolidation in the rat". *Frontiers in Behavioral Neuroscience*, 8. Doi: 10.3389/fnbeh.2014.00180.
- Reko, B.P. (1945). *Mitobotánica Zapoteca*. Tacubaya, DF., Private ed.
- Safford, W.E.(1916). "Edible plants and textiles of Ancient America." *Journal of Heredity*, 3.

- Sahagún, Bernardino de (1979). *Historia general de las cosas de Nueva España: Codice Florentino*. México, Secretaria de Gobernación.
- Sakashita, Y., Abe, K., Katagiri, N., Kambe, T., Saitoh, T., Utsunomiya, I., Horiguchi, Y., Taguchi, K. (2015). "Effect of Psilocin on Extracellular Dopamine and Serotonin Levels in the Mesoaccumbens and Mesocortical Pathway in Awake Rats". *Biological Pharmacology Bulletin*, 38(1), pp. 134-138.
- Saxena, P., Bolt, G., Dhasmana, K. (1987). "Serotonin agonist and antagonist in experimental hypertension." *Journal of Cardiovascular Pharmacology*, 10 (suppl. 3), pp. S12-S18.
- Schmidt, A., Kometer, M., Bachman, R., Seifritz, E., Vollenweider, F. (2013). "The NMDA antagonist ketamine and the 5-HT agonist psilocybin produce dissociable effects on structural encoding of emotional face expressions". *Psychopharmacology*, 225, pp. 227-239. Doi: 10.1007/s00213-012-2811-0.
- Schultes, R.E. (1972). "Hallucinogens in the Western Hemisphere." In Furst, P. (ed.). *Flesh of the gods: The ritual use of hallucinogens*. Nueva York, Praeger Publs., pp. 3-54.
- Schultes, R.E., Bright, A. (1979). "Ancient gold pectoral from Colombia: mushroom effigiers?" *Bot. Mus. Leaflet. Harvard Univ.*, 27, pp. 113-141.
- Schultes, R.E., Hofman, A. (2015). *Plantas de los dioses. Orígenes del uso de los alucígenos*. México, Fondo de Cultura Económica.
- Schultes, R.E. (1982). *Plantas alucinógenas*. México, La Prensa Médica Mexicana, S.A.
- Seeman, P. (2006). "Targeting the dopamine D2 receptor in schizophrenia." *Expert Opin Ther Targets*, 10, pp. 515-531.

- Shepard G.H. Jr., Arora, D., Lampman, A. (2008). "The Grace of the Flood: Classification and Use of Wild Mushrooms among the Highland Maya of Chiapas". *Economic Botany*, 62(3), pp. 437-470.
- Sibley, D.R. (1999). "New insights into dopaminergic receptor function using antisense and genetically altered animals." *Annu Rev Pharmacol Toxicol*, 39, pp. 313-341.
- Sibley, D.R., Monsma, F.J., Jr. (1992). "Molecular biology of dopamine receptors." *Trends Pharmacol Sci*, 13, pp. 61-69.
- Singer, R., Smith, A.H. (1958). "Mycological investigations on Teonacátl, the Mexican hallucinogenic mushroom II. A taxonomic monograph of *Psilocybe*, section *Caerulescentes*." *Mycología*, 50, pp. 262-303.
- Singer, T., Kiebel, S.J., Winston, J.S., Dolan, R.J., Frith, C.D. (2004). "Brain responses to the acquired moral status of faces." *Neuron*, 41, pp. 653-662.
- Snyder, S.H., Taylor, K.M., Coyle, J.T., Meyerhoff, J.L. (1970). "The role of brain dopamine in behavioral regulation and the actions of psychotropic drugs." *Am J Psychiatry*, 127, pp. 199-207.
- Sokoloff, P., Andrieux, M., Besancon, R., Pilon, C., Martres, M.P., Giros, B., Schwartz, J.C. (1992). "Pharmacology of human dopamine D3 receptor expressed in a mammalian cell line: comparison with D2 receptor." *Eur J Pharmacol*, 225, pp. 331-337.
- Stamets, P. (1996). *Psilocybin mushrooms of the world*. Berkeley, Ten Speed Press.
- Stephenson, S.L. (2010). *The Kingdom Fungi. The Biology of Mushrooms, Molds, and Lichens*. Portland, Londres, Timber Press.

- Tian, T., Qin, W., Liu, B., Jiang, T., Yu, C. (2013). "Functional connectivity in healthy subjects is nonlinearly modulated by the COMT and DRD2 polymorphisms in a functional system-dependent manner." *J Neurosci*, 33, pp.17519-17526.
- Toby Evans, S. (2008). *Ancient Mexico and Central America. Archaeology and Culture History*. Londres, Thames and Hudson.
- Torres, G., Gainetdinov, R., Caron, M. (2003). "Plasma membrane monoamine transporters: structure, regulation and function." *Neuroscience*, 4, pp. 12-26.
- Tyls, F., Palenicek, T., Horacek, J. (2013). "Psolicybin-summary of knowledge and new perspectives." *Eur. Neuropsychopharmacol.*, 24, pp. 342-356. Doi: 10.1016/j.euroneuro.2013.12.006.
- Underwood, M.D., Mann, J.J., Huang, Y.Y. et al. (2008). "Family history of alcoholism is associated with lower 5-HT_{2A} receptor binding in the prefrontal cortex." *Alcohol Clin Exp Res*, 32, pp. 593-599.
- Vanhoutte, P. (1987). "cardiovascular effects of serotonin." *Journal of Cardiovascular Pharmacology*, 10 (suppl. 3), S8-S11.
- Wasson, R.G. (1980). *El hongo maravilloso: Teonanácatl. Micolatría en Mesoamérica*. México, Fondo de Cultura Económica.
- Williams, A.R. (2012). "Los señores Dorados de Panamá (El Dorado de Panamá). Las tumbas de los antiguos jefes de Centro América." *Natural Geographic Magazine*, enero, pp. 66-81.

Yamaguchi, M., Saito, T., Horiguchi, Y., Ogawa, K., Tsugiya, Y., Hishinuma, K., Chikuma, T., Makino, Y., Hojo, H. (2004). "Preparation of Monoclonal Antibodies Reactive to a Hallucinogenic Drug, Psilocin". *Journal of Health Service*, 50(6), pp. 600-604.

Zhuk, O., Jasicka-Misiak, I., Poliwoda, A., Kazakova, A., Godovan, V.V., Halama, M., Wieczorek, P.P. (2015). "Research on Acute Toxicity and the Behavioral Effects of Methanolic Extract from Psilocybin Mushrooms and Psilocin". *Toxins*, 7, pp. 1018-1029.
Doi: 10.3390/toxins7041018.