

**References**

- Able, J. A., Gudelsky, G. A., Vorhees, C. V., & Williams, M. T. (2006). 3,4-Methylenedioxymethamphetamine in adult rats produces deficits in path integration and spatial reference memory. *Biological Psychiatry*, *59*, 1219-1226. doi: 10.1016/j.biopsych.2005.09.006
- Allott, K., & Redman, J. (2006). Patterns of use and harm reduction practices of ecstasy users in Australia. *Drug & Alcohol Dependence* *82*, 168-176. doi:10.1016/j.drugalcdep.2005.09.009
- Allott, K., & Redman, J. (2007). Are there sex differences associated with the effects of ecstasy/3,4-methylenedioxymethamphetamine (MDMA)? *Neuroscience & Biobehavioral Reviews*, *31*, 327-347. doi:10.1016/j.neubiorev.2006.09.009
- Andrade, R., & Beck, S. G. (2010). Cellular effects of serotonin in the CNS. In C. Müller & B. Jacobs (Eds.), *Handbook of behavioral neurobiology of serotonin* (pp. 219-231). London: Academic Press.
- Adriani, W., & Lavioli, G. (2004). Windows of vulnerability to psychopathology and therapeutic strategy in the adolescent rodent model. *Behavioural Pharmacology*, *15*, 341-352. doi: 10.1097/00008877-200409000-00005
- Arias-Cavieres, A., Rozas, C., Reyes-Parada, M., Barrera, N., Pancetti, F., Loyola, S., & Morales, B. (2010). MDMA ("ecstasy") impairs learning in the Morris Water Maze and reduces hippocampal LTP in young rats. *Neuroscience Letters*, *469*, 375-379. doi: 10.1016/j.neulet.2009.12.031
- Biezonski, D. K., Piper, B. J., Shinday, N. M., Kim, P. J., Ali, S. F., & Meyer, J. S. (2013). Effects of a short-course MDMA binge on dopamine transporter binding and on levels of dopamine and its metabolites in adult male rats. *European Journal of Pharmacology*, *701*, 176-180. doi:10.1016/j.ejphar.2012.12.024
- Budisavljevic, M. N., Stewart, L., Sahn, S. A., & Ploth, D. W. (2003). Hyponatremia associated with 3,4-methylenedioxymethamphetamine ("ecstasy") abuse. *The American Journal of the Medical Sciences* *326*, 89-93. doi: 10.1097/00000441-200308000-00006
- Bull, E. J., Hutson, P. H., & Fone, K. C. F. (2003). Reduced social interaction following 3,4-methylenedioxymethamphetamine is not associated with enhanced 5-HT<sub>2C</sub> receptor responsiveness. *Neuropharmacology* *44*, 439-448. doi: 10.1016/s0028-3908(02)00407-0
- Bull, E. J., Hutson, P. H., & Fone, K. C. F. (2004). Decreased social behaviour following 3,4-methylenedioxymethamphetamine (MDMA) is accompanied by changes in 5-HT<sub>2A</sub> receptor responsiveness. *Neuropharmacology* *46*, 202-210. doi:10.1016/j.neuropharm.2003.08.004
- Cadet, J. D., Ladenheim, B., Baum, I., Carlson, E., & Epstein, C. (1994). CuZn-superoxide dismutase (CuZnSOD) transgenic mice show resistance to the lethal effects of methylenedioxyamphetamine (MDA) and of methylenedioxymethamphetamine (MDMA). *Brain Research*, *655*, 259-262. doi: 10.1016/0006-8993(94)91624-1
- Carlson, N. (2013). *Physiology of behavior* (11th ed.). Upper Saddle River, New Jersey: Pearson.
- Carod-Artal, F. J. (2015). Alucinógenos en las culturas precolombinas mesoamericanas. *Neurologia*, *30*, 42-49. doi:10.1016/j.nrl.2011.07.003
- Chapin, D. S., Lookingland, K. J., & Moore, K. (1986). Effects of LC mobile phase composition on retention times for biogenic amines, and their precursors and metabolites. *Current Separations*, *7*, 68-70.

## TRIPPING THE LIGHT FANTASTIC

- Compton, D. M., Dietrich, K. L., Selinger, M. C., & Testa, E. K. (2011). 5-Methoxy-N,N-di(iso)propyltryptamine hydrochloride (Foxy)-induced cognitive deficits in rat after exposure in adolescence. *Physiology & Behavior*, *103*, 203-209. doi:10.1016/j.physbeh.2011.01.021
- Compton, D. M., Selinger, M. C., Testa, E. K., & Larkins, K. D. (2006). An examination of the effects of 5-methoxy-N,N-diisopropyltryptamine hydrochloride (Foxy) on cognitive development in rats. *Psychological Reports*, *98*, 651-661. doi:10.2466/pr0.98.3.651-661
- Compton, D. M., Selinger, M. C., Westman, E., & Otero, P. (2011). Differentiation of MDMA or 5-MeO-DIPT induced cognitive deficits in rat following adolescent exposure. *Psychology & Neuroscience*, *4*, 157-169. doi:10.3922/j.psns.2011.1.018
- Cox, B. M., Shah, M. M., Cichona, T., Tancer, M. E., Galloway, M.P., Thomas, D. M., & Perrine, S. A. (2014). Behavioral and neurochemical effects of repeated MDMA administration during late adolescence in the rat. *Progress in NeuroPsychopharmacology & Biological Psychiatry*, *48*, 229-235. doi:10.1016/j.pnpbp.2013.09.021
- Dafters, R. I. (1994). Effect of ambient temperature on hyperthermia and hyperkinesia induced by 3,4-methylenedioxymethamphetamine (MDMA or "ecstasy") in rats. *Psychopharmacology*, *114*, 505-508. doi: 10.1007/bf02249342
- Dafters, R. I. (1995). Hyperthermia following MDMA administration in rats: Effects of ambient temperature, water consumption, and chronic dosing. *Physiology & Behavior*, *58*, 877-882. doi: 10.1016/0031-9384(95)00136-7
- Darvesh A. S., & Gudelsky G. A. (2005). Evidence for a role of energy dysregulation in the MDMA-induced depletion of brain 5-HT. *Brain Research*, *1056*, 168-175. doi: 10.1016/j.brainres.2005.07.009
- de Sola, S., Tarancón, T., Peña-Casanova, J., Espadaler, J. M., Langohr, K., Poudevida, S., Farré, M., Verdejo-García, A., & de la Torre, R. (2008). Auditory event-related potentials (P3) and cognitive performance in recreational ecstasy polydrug users: Evidence from a 12-month longitudinal study. *Psychopharmacology*, *200*, 425-437. doi: 10.1007/s00213-008-1217-5
- Drug Enforcement Administration (DEA), D. O. J. (2004). Schedules of controlled placement of alpha-methyltryptamine and 5-methoxy-N,N-diisopropyltryptamine into schedule I of the Controlled Substances Act. Final rule. *Federal Register*, *69*, 58950-58953.
- Fellows, B. J. (1967). Chance stimulus sequences for discrimination tasks. *Psychological Bulletin*, *67*, 87-92. doi: 10.1037/h0024098
- Fone, K. C., Beckett, S. R., Topham, I. A., Swettenham, J., Ball, M., & Maddocks, L. (2002). Long-term changes in social interaction and reward following repeated MDMA administration to adolescent rats without accompanying serotonergic neurotoxicity. *Psychopharmacology*, *159*, 437-444. doi: 10.1007/s00213-001-0931-z
- Fonsart, J., Menet, M.-C., Declèves, X., Galons, H., Crété, D., Debray, M., Scherrmann, J.-M., & Noble, F. (2008). Sprague-Dawley rats display metabolism-mediated sex differences in the acute toxicity of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy). *Toxicology and Applied Pharmacology*, *230*, 117-125. doi: 10.1016/j.taap.2008.02.004
- Fox, H. C., McLean, A., Turner, J. J.D., Parrott, A. C., Rogers, R., & Sahakian, B. J. (2002). Neuropsychological evidence of a relatively selective profile of temporal dysfunction in drug-free MDMA ("ecstasy") polydrug users. *Psychopharmacology*, *162*, 203-214. doi: 10.1007/s00213-002-1071-9

## TRIPPING THE LIGHT FANTASTIC

- Fox, H. C., Toplis, A. S., Turner, J. J.D., & Parrott, A. C. (2001). Auditory verbal learning in drug-free ecstasy polydrug users. *Human Pharmacology: Clinical Experimental*, *16*, 613-618. doi: 10.1002/hup.344
- García-Cabrerizo, R. & García-Fuster, M. J. (2015). Chronic MDMA induces neurochemical changes in the hippocampus of adolescent and young adult rats: Down-regulation of apoptotic markers. *Neurotoxicology*, in press. doi: 10.1016/j.neuro.2015.06.001
- Gilvarry, E., & McArdle, P. (2007). Determinants of substance misuse in young people. *Developmental Medicine & Child Neurology*, *49*, 636-640. doi: 10.1111/j.1469-8749.2007.00636.x
- Gimeno, P., Besacier, F., Bottex, M., Dujourdy, L., & Chaudron-Thozet, H. (2005). A study of impurities in intermediates and 3,4-methylenedioxymethamphetamine (MDMA) samples produced via reductive amination routes. *Forensic Science International*, *155*, 141-157. doi: 10.1016/j.forsciint.2004.11.013
- Gordon, C. J., Watkinson, W. P., O'Callaghan, J.P., & Miller, D. B. (1991). Effects of 3,4-methylenedioxymethamphetamine on autonomic thermoregulatory responses of the rat. *Pharmacology, Biochemistry, and Behavior*, *38*, 339-344. doi: 10.1016/0091-3057(91)90288-d
- Gough B., Ali S. F., Slikker, Jr., W., & Holson, R. (1991). Acute effects of 3,4-methylenedioxymethamphetamine (MDMA) on monoamines in rat caudate. *Pharmacology, Biochemistry, and Behavior*, *39*, 619-623. doi: 10.1016/0091-3057(91)90137-q
- Green, A. R., Meehan, A. O., Elliott, J. M., O'Shea, E., & Colado, M. I. (2003). The pharmacology and clinical pharmacology of 3,4-methylenedioxymethamphetamine (MDMA, "ecstasy"). *Pharmacological Reviews*, *55*, 463-508. doi: 10.1124/pr.55.3.3
- Gudelsky G. A., & Nash, J. F. (1996). Carrier-mediated release of serotonin by 3,4-methylenedioxymethamphetamine: implications for serotonin-dopamine interactions. *Journal of Neurochemistry*, *66*, 243-249. doi:10.1046/j.1471-4159.1996.66010243.x
- Gudelsky G. A., & Yamamoto, B.K. (2003). Neuropharmacology and neurotoxicity of 3,4-methylenedioxymethamphetamine. *Methods in Molecular Medicine*, *79*, 55-73. doi: 10.1385/1-59259-358-5:55
- Gudelsky, G. A., & Yamamoto, B. K., (2008). Actions of 3,4-methylenedioxymethamphetamine (MDMA) on cerebral dopaminergic, serotonergic and cholinergic neurons. *Pharmacology, Biochemistry and Behavior*, *90*, 198-207. doi: 10.1016/j.pbb.2007.10.003
- Harper, D. N., Wisnewski, R., Hunt, M., & Schenk, S. (2005). (+)-3,4-Methylenedioxymethamphetamine, d-amphetamine, and cocaine impair delayed matching-to-sample performance by an increase in susceptibility to proactive interference. *Behavioral Neuroscience*, *119*, 455-463. doi: 10.1037/0735-7044.119.2.455
- Hartman, R. E., Lee, J. M., Zipfel, G. J. & Wozniak, D. F. (2005). Characterizing learning deficits and hippocampal neuron loss following transient global cerebral ischemia in rats. *Brain Research*, *1043*, 48-56. doi: 10.1016/j.brainres.2005.02.030
- Hartung, T. K., Schofield, E., Short, A. I., Parr, M. J., & Henry, J. A. (2002). Hyponatraemic states following 3,4-methylenedioxymethamphetamine (MDMA, 'ecstasy') ingestion. *QJM*, *95*, 431-437. doi: 10.1093/qjmed/95.7.431
- Hayes, A. W., & Krguer, C. L. (2014). *Hayes' principles and methods of toxicology* (6<sup>th</sup> ed.). Boca Raton, FL: CRC Press.

## TRIPPING THE LIGHT FANTASTIC

- Heffernan, T. M., Jarvis, H., Rodgers, J., Scholey, A. B., & Ling, J. (2001). Prospective memory, everyday memory failure and central executive function in recreational users of ecstasy. *Human Psychopharmacology, 16*, 607-612. doi: 10.1002/hup.349
- Heffernan, T. M., Ling, J., & Scholey, A. B. (2001). Subjective ratings of prospective memory deficits in MDMA ('ecstasy') users. *Human Psychopharmacology, 16*, 339-344. doi: 10.1002/hup.290
- IBM SPSS Statistics for Windows (Version 22.0). [Computer software] Armonk, NY: IBM Corp.
- Ikeda, A., Sekiguchi, K., Fujita, K., Yamadera, H., & Kog, Y. (2005). 5-methoxy-N,N-diisopropyltryptamine-induced flashbacks. *American Journal of Psychiatry, 162*, 815. doi:10.1176/appi.ajp.162:4.815
- Jiang, X.-L., Shen, H.-W., & Yu, A.-M. (2015). Potentiation of 5-methoxy-N,N-dimethyltryptamine-induced hyperthermia by harmaline and the involvement of activation of 5-HT<sub>1A</sub> and 5-HT<sub>2A</sub> receptors. *Neuropharmacology, 89*, 342-351. doi:10.1016/j.neuropharm.2014.10.013
- Johnston, L. D., O'Malley, P. M., Miech, R. A., Bachman, J. G., & Schulenberg, J. E. (2015). Monitoring the Future national survey results on drug use: 1975-2014: Overview, key findings on adolescent drug use. Ann Arbor: Institute for Social Research, The University of Michigan. Retrieved from <http://www.monitoringthefuture.org/pubs/monographs/mtfoverview2014.pdf>
- Karuppagounder, S. S., Bhattacharya, D., Ahuja, M., Suppiramaniam, V., DeRuiter, J., Clark, R., & Dhanasekaran, M. (2014). Elucidate the Neurotoxic Effects of MDMA & its analogues. *Life Sciences, 101*, 37-42. doi: 10.1016/j.lfs.2014.02.010
- Kelly, P. A., Ritchie, I. M., Quate, L., McBean, D. E., & Olverman, H. J. (2002). Functional consequences of perinatal exposure to 3,4-methylenedioxymethamphetamine in rat brain. *British Journal of Pharmacology, 137*, 963-970. doi: 10.1038/sj.bjp.0704961
- Kish, S. J., Lerch, J., Furukawa, Y., Tong, J., McCluskey, T., Wilkins, D., Houle, S., Meyer, J., Mundo, E., & Wilson, A. A. (2010). Decreased cerebral cortical serotonin transporter binding in ecstasy users: A positron emission tomography/[<sup>11</sup>C]DASB and structural brain imaging study. *Brain, 133*, 1779-1797. doi: 10.1093/brain/awq103
- Kiyota K. (2004). Latest cases of acute poisoning in clinical practice-5MeO-DIPT and GHB precursor. *Chudoku Kenkyu, 17*, 259-266.
- Koenig, J., Lazarus, C., Jeltsch, H., Ben, H. S., Riegert, C., Kelche, C., Jones, B. C., Cassel, J. C. (2005). MDMA (ecstasy) effects in pubescent rats: males are more sensitive than females. *Pharmacology, Biochemistry, and Behavior, 81*, 635-644. doi: 10.1016/j.pbb.2005.04.014
- Kolbrich, E. A., Goodwin, R. S., Gorelick, D. A., Hayes, R. J., Stein, E. A., & Huestis, M. A. (2008). Plasma pharmacokinetics of 3,4-methylenedioxymethamphetamine after controlled oral administration to young adults. *Therapeutic Drug Monitoring, 30*, 320-322. doi: 10.1097/FTD.Ob013e3181684fa0
- Leonardi, E. T., & Azmitia, E. C. (1994). MDMA (ecstasy) inhibition of MAO type A and type B: Comparisons with fenfluramine and fluoxetine (Prozac). *Neuropsychopharmacology, 10*, 231-238. doi: 10.1038/npp.1994.26
- Liechti, M. E., Gamma, A., & Vollenweider, F. X. (2001). Gender differences in the subjective effects of MDMA. *Psychopharmacology, 154*, 161-168. doi: 10.1007/s002130000648
- Lin, J. H. (1998). Species similarities and differences in pharmacokinetics. *Drug Metabolism and*

## TRIPPING THE LIGHT FANTASTIC

*Disposition*, 26, 1202-1212.

- Marston, H. M., Reid, M. E., Lawrence, J. A., Olverman, H. J., & Butcher, S. P. (1999). Behavioural analysis of the acute and chronic effects of MDMA treatment in the rat. *Psychopharmacology*, 144, 67-76. doi: 10.1007/s002130050978
- McAlear, L. M., Schallert, T., & Duvauchelle, C. L. (2013). Weekend Ecstasy use disrupts memory in rats. *Neuroscience Letters*, 549, 173-176. doi:10.1016/j.neulet.2013.05.030
- McCann, U. D., & Ricaurte, G. A. (2014). Effects of MDMA on the human nervous system. In B. Madras & M. Kuhar (Eds.), *The effects of drug abuse on the human nervous system* (pp. 475-497). San Diego, CA: Academic Press. doi: 10.1016/B978-0-12-418679-8.01001-7
- McCann, U. D., Szabo, Z., Vranesic, M., Palermo, M., Mathews, W. B., Ravert, H. T., Dannals, R. F., & Ricaurte, G. A. (2008). Positron emission tomographic studies of brain dopamine and serotonin transporters in abstinent ( $\pm$ ) 3,4-methylenedioxymethamphetamine ("ecstasy") users: Relationship to cognitive performance. *Psychopharmacology*, 200, 439-450. doi: 10.1007/s00213-008-1218-4
- McCardle, K., Luebbbers, S., Carter, J. D., Croft, R. J., & Stough, C. (2004). Chronic MDMA (ecstasy) use, cognition and mood. *Psychopharmacology*, 173, 434-439. doi: 10.1007/s00213-004-1791-0
- McDaniel, W. F., Via, J. D., Smith, J. S., Wells, D. L., Fu, J. J., Bishop, J. F., Boyd, P. A., & Ledesma, H. M. (1995). Unilateral injury of posterior parietal cortex and spatial learning in hooded rats. *Behavioural Brain Research*, 70, 165-179. doi: 10.1016/0166-4328(95)80006-9
- Meatherall, R., & Sharma, P. (2003). Foxy, a designer tryptamine hallucinogen. *Journal of Analytic Toxicology*, 27, 313-317. doi: 10.1093/jat/27.5.313
- Meyer, J. S., & Quenzer, L. F. (2013). *Psychopharmacology* (2nd ed.). Sunderland, MA: Sinauer.
- Meyer, J. S., Grande, M., Johnson, K., & Ali, S. F. (2004). Neurotoxic effects of MDMA ("ecstasy") administration to neonatal rats. *International Journal of Developmental Neuroscience*, 22, 261-271. doi:10.1016/j.ijdevneu.2004.04.007
- Morilak, D. A., & Ciaranello, R. D. (1993). Ontogeny of 5-hydroxytryptamine<sub>2</sub> receptor immunoreactivity in the developing rat brain. *Neuroscience*, 55, 869-880. doi: 10.1016/0306-4522(93)90447-n
- Morley-Fletcher, S., Bianchi, M., Gerra, G., & Laviola, G. (2002). Acute and carryover effects in mice of MDMA (ecstasy) administration during periadolescence. *European Journal of Pharmacology*, 448, 31-38. doi:10.1016/s0014-2999(02)01904-0
- Moyano, S., Frechilla, D., & Del Rio, J. (2004). NMDA receptor subunit and CaMKII changes in rat hippocampus induced by acute MDMA treatment: a mechanism for learning impairment. *Psychopharmacology*, 173, 337-345. doi: 10.1007/s00213-004-1816-8
- Müller, C., & Jacobs, B. L. (Eds.). (2010). *Handbook of the behavioral neurobiology of serotonin*. London: Academic Press.
- Nagai, F., Nonaka, R., & Kamimura, K. S. H. (2007). The effects of non-medically used psychoactive drugs on monoamine neurotransmission in rat brain. *European Journal of Pharmacology*, 559, 132-137. doi:10.1016/j.ejphar.2006.11.075
- Nakagawa T., & Kaneko, S. (2008). Neuropsychotoxicity of abused drugs: Molecular and neural mechanisms of neurotoxicity induced by methamphetamine, 3,4-methylenedioxymethamphetamine (Ecstasy), and 5-methoxy-N,N-diisopropyltryptamine (Foxy). *Journal of Pharmacological Sciences*, 106, 2-8. doi:10.1254/jphs.fm0070141
- National Research Council. (2011). *Guide for the care and use of laboratory animals* (8<sup>th</sup> ed.). Washington, DC: National Academies Press.

## TRIPPING THE LIGHT FANTASTIC

- Palenicek, T., Votava, M., Bubenikova, V., & Horacek, J. (2005). Increased sensitivity to the acute effects of MDMA ("ecstasy") in female rats. *Physiology & Behavior*, *86*, 546-553. doi: 10.1016/j.physbeh.2005.08.043
- Pardo-Lozano, R., Farre', M., Yubero-Lahoz, S., O'Mathúna, B., Torrens, M., Mustata, C., Pérez-Mañá, C., Langohr, K., Cuyàs, E., Carbó, M-l., & de la Torre, R. (2012). Clinical pharmacology of 3,4-methylenedioxymethamphetamine (MDMA, "Ecstasy"): The influence of gender and genetics (CYP2D6, COMT, 5-HTT). *PLoS ONE* *7*(10), e47599. doi: 10.1371/journal.pone.0047599
- Parrott, A. C. (2002). Recreational Ecstasy/MDMA, the serotonin syndrome, and serotonergic neurotoxicity. *Pharmacology, Biochemistry, and Behavior*, *71*, 837-844. doi: 10.1016/s0091-3057(01)00711-0
- Parrott, A. C. (2013). MDMA, serotonergic neurotoxicity, and the diverse functional deficits of recreational 'Ecstasy' users. *Neuroscience and Biobehavioral Reviews*, *37*, 1466-1484. doi: 10.1016/j.neubiorev.2013.04.016
- Parrott, A.C., Gibbs, A., Scholey, A.B., King, R., Owens, K., Swann, P., Ogden, E., & Stough C. (2011). MDMA and methamphetamine: some paradoxical negative and positive mood changes in an acute dose laboratory study. *Psychopharmacology*, *215*, 527-536. doi: 10.1371/journal.pone.0047599
- Pettenuzzo, L. F., Wyse, A. T. S., Wannamacher, C. M.D., Dutra-Filho, C. S., Netto, C. A., & Wajner, M. (2003). Evaluation of chronic administration of drugs on rat behavior in the water maze. *Brain Research Protocols*, *12*, 109-115. doi: 10.1016/j.brainresprot.2003.09.002
- Piper, B. J. (2007). A developmental comparison of the neurobehavioral effects of ecstasy (MDMA). *Neurotoxicology and Teratology*, *29*, 288-300. doi:10.1016/j.ntt.2006.10.002
- Piper, B. J., Fraiman, J. B., & Meyer, J. S. (2005). Repeated MDMA (ecstasy) exposure in adolescent male rats alters temperature regulation, spontaneous motor activity, attention, and serotonin transporter binding. *Developmental Psychobiology*, *47*, 145-157. doi:10.1002/dev.20085
- Piper, B. J., & Meyer, J. S. (2004). Memory deficit and reduced anxiety in young adult rats given repeated intermittent MDMA treatment during the periadolescent period. *Pharmacology, Biochemistry, and Behavior*, *79*, 723-731. doi: 10.1016/j.pbb.2004.10.001
- Piper, B. J., Vu, H. L., Safain, M. G., Oliver, A. J., & Meyer, J. S. (2006). Repeated adolescent 3,4-methylenedioxymethamphetamine (MDMA) exposure in rats attenuates the effects of a subsequent challenge with MDMA or a 5-hydroxytryptamine<sub>1A</sub> receptor agonist. *Journal of Pharmacology and Experimental Therapeutics*, *317*, 838-849. doi: 10.1124/jpet.105.095760
- Procopio-Souza, R., Trombin, T. F., Mári-Kawamoto, E., Wuo-Silva, R., Costa, J. M., Kameda, S. R., Fukushima, D. F., & Frussa-Filho, R. (2014). (PR00041) Adolescent mice are more vulnerable than adults to the rewarding effects of ecstasy (MDMA). *Epilepsy and Behavior*, *38*, 207. doi:10.1016/j.yebeh.2014.08.092
- Quinton, M. S., & Yamamoto, B. K. (2006). Causes and consequences of methamphetamine and MDMA toxicity. *The AAPS Journal*, *8*(2), Article 38.
- Ricaurte, G. A., Yuan, J., & McCann, U. D. (2000). 3,4-Methylenedioxymethamphetamine ('Ecstasy')-induced serotonin neurotoxicity: Studies in animals. *Neuropsychobiology*, *42*, 5-10. doi: 10.1159/000026664

## TRIPPING THE LIGHT FANTASTIC

- Rodríguez-Arias, M., Vaccaro, S., Arenas, M. C., Aguilar, M. A., & Miñarro, J. (2015). The novelty-seeking phenotype modulates the long-lasting effects of adolescent MDMA exposure. *Physiology & Behavior, 141*, 190-198. doi: 10.1016/j.physbeh.2015.01.023
- Rosenson, J., Smollin, C., Sporer, K. A., Blanc, P., & Olson, K. R. (2007). Patterns of ecstasy associated hyponatremia in California. *Annals of Emergency Medicine, 49*, 164-171. doi: 10.1016/j.annemergmed.2006.09.018
- Sakai, Y., Nishikawa, M., Leyton, M., Benkelfat, C., Young, S. N., & Diksic, M. (2006). Cortical trapping of alpha-[(11)C]methyl-l-tryptophan, an index of serotonin synthesis, is lower in females than males. *NeuroImage, 33*, 815-824. doi: 10.1016/j.neuroimage.2006.08.004
- Sharp, P. E., & La Regina, M. C. (1998). *The laboratory rat*. Boca Raton, FL: CRC Press.
- Shulgrin A., & Carter, M. F. (1980). N,N-Diisopropyltryptamine (DIPT) and 5-methoxy-N,N-diisopropyltryptamine (5-MeODIPT). Two orally active tryptamine analogs with CNS activity. *Communications in Psychopharmacology, 4*, 363-369. doi: 10.1124/dmd.105.005835
- Sitaram, B. R., Lockett, L., Blackman, G. L., & McLeod, W. R. (1987). Urinary excretion of 5-methoxy-N, N dimethyltryptamine, N, N-dimethyltryptamine and their N-oxides in the rat. *Biochemical Pharmacology, 36*, 2235-2237. doi: 10.1016/0006-2952(87)90159-6
- Skelton, M. R., Williams, M. T., & Vorhees, C. V. (2006). Treatment with MDMA from P11-20 disrupts spatial learning and path integration learning in adolescent rats but only spatial learning in older rats. *Psychopharmacology, 189*, 307-318. doi: 10.1007/s00213-006-0563-56
- Skelton, M. R., Schaefer, T. L., Herring, N. R., Grace, C. E., Vorhees, C. V., & Williams, M. T. (2009). Comparison of the developmental effects of 5-methoxy-N,N-diisopropyltryptamine (Foxy) to ( $\pm$ )-3,4-methylenedisoxymethamphetamine (ecstasy) in rats. *Psychopharmacology, 204*, 287-297. doi: 10.1007/s00213-009-1459-x
- Smith, R. F. (2003). Animal models of periadolescent substance abuse. *Neurotoxicology and Teratology, 25*, 291-301. doi: 10.1016/s0892-0362(02)00349-5
- Smolinske, S. C., Rastogi, R., & Schenkel, S. (2005). Foxy methoxy: A new drug of abuse. *Journal of Medical Toxicology, 7*, 23-25. doi: 10.1007/bf03160901
- Spear, L. P. (2000). The adolescent brain and age-related behavioral manifestations. *Neuroscience and Biobehavioral Reviews, 24*, 417-463. doi:10.1016/s0149-7634(00)00014-2
- Sprague, J. E., Preston, A. S., Leifheit, M., & Woodside, B. (2003). Hippocampal serotonergic damage induced by MDMA (ecstasy): Effects on spatial learning. *Physiology & Behavior, 79*, 281-287. doi: 10.1016/s0031-9384(03)00092-1
- Sturman, D. A., & Moghaddam, B. (2011). The neurobiology of adolescence: Changes in brain architecture, functional dynamics, and behavioral tendencies. *Neuroscience and Biobehavioral Reviews, 35*, 1704-1712. doi: 10.1016/j.neubiorev.2011.04.003
- Tanaka, E., Kamata, T., Katagi, M., Tsuchihashi, H., & Honda, K. (2006). A fatal poisoning with 5-methoxy-N,N-diisopropyltryptamine, Foxy. *Forensic Science International, 163*, 152-154. doi: 10.1016/j.forsciint.2005.11.026
- Teicher, M. H. (1999). *Limbic serotonin turnover plunges during puberty*. Poster presented at the Meeting of the Society for Neuroscience, Miami Beach, FL.
- Teixeira-Gomes, A., Costa, V. M., Feio-Azevedo, R., Bastos, M. L., Carvalho, F., Capela, & J. P. (2015). The neurotoxicity of amphetamines during the adolescent period. *International*

## TRIPPING THE LIGHT FANTASTIC

- Journal of Developmental Neuroscience*, 41, 44-62. doi: 10.1016/j.ijdevneu.2014.12.001
- Thompson, V. B., Heiman, J., Chambers, J. B., Benoit, S. C., Buesing, W. R., Norman, M. K., Norman, A. B., & Lipton, J. W. (2009). Long-term behavioral consequences of prenatal MDMA exposure. *Physiology & Behavior*, 69, 593-601. doi: 10.1016/j.physbeh.2008.12.013
- Tirelli, E., Laviola, G., & Adriani, W. (2003). Ontogenesis of behavioral sensitization and conditioned place preference in laboratory rodents. *Neuroscience and Biobehavioral Reviews*, 27, 163-178. doi: 10.1016/s0149-7634(03)00018-6
- Vorhees, C. V., Reed, T. M., Skelton, M. R., & Williams, M. T. (2004). Exposure to 3,4-methylenedioxymethamphetamine (MDMA) on postnatal days 11-20 induces reference but not working memory deficits in the Morris water maze in rats: implications of prior learning. *International Journal of Developmental Neuroscience*, 22, 247-259. doi: 10.1016/j.ijdevneu.2004.06.003
- Vorhees, C. V., Schaefer, T. L., Skelton, M. R., Grace, C. E., Herring, N. R., & Williams, M. T. (2009). (+/-)3,4-Methylenedioxymethamphetamine (MDMA) dose-dependently impairs spatial learning in the Morris Water Maze after exposure of rats to different five-day intervals from birth to postnatal day twenty. *Developmental Neuroscience*, 31, 107-120. doi: 10.1159/000207499
- Vorhees, C. V., Schaefer, T. L., & Williams, M. T. (2007). Developmental effects of +/- methylenedioxymethamphetamine (MDMA) on spatial vs. path integration learning: Effects of dose distribution. *Synapse*, 61, 488-499. doi: 10.1002/syn.20379
- Walker, Q. D., Williams, C. N., Jotwani, R. P., Waller, S. T., Francis, R., & Kuhn, C. M. (2007). Sex differences in the neurochemical and functional effects of MDMA in Sprague-Dawley rats. *Psychopharmacology*, 189, 435-445. doi: 10.1007/s00213-006-0531-z
- Wallinga, A. E., Grahlmann, C., Granneman, R. A., Koolhaas, J. M., & Buwalda, B. (2011). Gender differences in hyperthermia and regional 5-HT and 5-HIAA depletion in the brain following MDMA administration in rats. *Brain Research*, 1398, 13-20. doi: 10.1016/j.brainres.2011.04.039
- Wareing M., Fisk J. E., & Murphy, P. N. (2000). Working memory deficits in current and previous users of MDMA ("ecstasy"). *British Journal of Psychology*, 91, 181-188. doi: 10.1348/000712600161772
- Whitaker-Azmitia, P. M. (2010). Serotonin and development. In C. Müller & B. Jacobs (Eds.), *Handbook of behavioral neurobiology of serotonin* (pp. 309-323). London: Academic Press.
- White, C. R., & Seymour, R. S. (2005). allometric scaling of mammalian metabolism. *Journal of Experimental Biology*, 208, 1611-1619. doi: 10.1242/jeb.01501
- Wilson, J. M., McGeorge, F., Smolinske, S., & Meatherall, R. (2005). A foxy intoxication. *Forensic Science International*, 148, 31-36. doi: 10.1016/j.forsciint.2004.04.017
- Wu, P., Liu, X., Pham, T. H., Jin, J., Fan, B., & Jin, Z. (2010). Ecstasy use among US adolescents from 1999 to 2008. *Drug and Alcohol Dependence*, 112, 33-38. doi:10.1016/j.drugalcdep.2010.05.006
- Wyeth, R. P., Mills, E. M., Ullman, A., Kenaston, M.A., Burwell, J., & Sprague, J. E. (2009). The hyperthermia mediated by 3,4-methylenedioxymethamphetamine (MDMA, Ecstasy) is sensitive to sex differences. *Toxicology and Applied Pharmacology*, 235, 33-38. doi: 10.1016/j.taap.2008.12.003



## TRIPPING THE LIGHT FANTASTIC

Zakzanis, K. K., & Campbell, Z. (2006). Memory impairment in now abstinent MDMA users and continued users: .A longitudinal follow-up. *Neurology*, *66*, 740-741.  
doi: 10.1212/01.wnl.0000200957.97779