

References

- Alsaab, H. O., Altowairqi, E., Alzahrani, N., Alzahrani, R., Alshehri, F. S., Almalki, A. H., ... & Althobaiti, Y. S. (2020). Sex differences in pregabalin-seeking like behavior in a conditioned place preference paradigm. *Saudi Pharmaceutical Journal*, 28(12), 1749-1755.
- Althobaiti, Y. S. (2024). Oral self-administration of pregabalin in a mouse model and the resulting drug addiction features. *Saudi Pharmaceutical Journal*, 32(2), 101935.
- Althobaiti, Y. S., Alghorabi, A., Alshehri, F. S., Baothman, B., Almalki, A. H., Alsaab, H. O., Alsanie, W., Gaber, A., Almalki, H., Alghamdi, A. S., Basfer, A., Althobaiti, S., Hardy, A. M. G., & Shah, Z. A. (2020). Gabapentin-induced drug-seeking-like behavior: a potential role for the dopaminergic system. *Scientific reports*, 10(1), 10445. <https://doi.org/10.1038/s41598-020-67318-6>
- Althobaiti, Y. S., Almalki, A., Alsaab, H., Alsanie, W., Gaber, A., Alhadidi, Q., Hardy, A. M. G., Nasr, A., Alzahrani, O., Stary, C. M., & Shah, Z. A. (2019). Pregabalin: Potential for Addiction and a Possible Glutamatergic Mechanism. *Scientific reports*, 9(1), 15136. <https://doi.org/10.1038/s41598-019-51556-4>
- Andrews, N., Loomis, S., Blake, R., Ferrigan, L., Singh, L., & McKnight, A. T. (2001). Effect of gabapentin-like compounds on development and maintenance of morphine-induced conditioned place preference. *Psychopharmacology*, 157(4), 381–387. <https://doi.org/10.1007/s002130100839>
- Backonja, M., & Glanzman, R. L. (2003). Gabapentin dosing for neuropathic pain: evidence from randomized, placebo-controlled clinical trials. *Clinical therapeutics*, 25(1), 81–104. [https://doi.org/10.1016/s0149-2918\(03\)90011-7](https://doi.org/10.1016/s0149-2918(03)90011-7)
- Bastiaens, L., Galus, J., & Mazur, C. (2016). Abuse of Gabapentin is Associated with Opioid Addiction. *The Psychiatric quarterly*, 87(4), 763–767. <https://doi.org/10.1007/s11126-016-9421-7>
- Besheer, J., Frisbee, S., Randall, P. A., Jaramillo, A. A., & Masciello, M. (2016). Gabapentin potentiates sensitivity to the interoceptive effects of alcohol and increases alcohol self-administration in rats. *Neuropharmacology*, 101, 216–224. <https://doi.org/10.1016/j.neuropharm.2015.09.027>
- Cheng, J. K., & Chiou, L. C. (2006). Mechanisms of the antinociceptive action of gabapentin. *Journal of pharmacological sciences*, 100(5), 471–486. <https://doi.org/10.1254/jphs.cr0050020>

Domon, Y., Arakawa, N., Inoue, T., Matsuda, F., Takahashi, M., Yamamura, N., ... & Kitano, Y. (2018). Binding characteristics and analgesic effects of mirogabalin, a novel ligand for the $\alpha 2\delta$ subunit of voltage-gated calcium channels. *The Journal of pharmacology and experimental therapeutics*, 365(3), 573-582.

Filip, M., Frankowska, M., Zaniewska, M., Gołda, A., Przegaliński, E., & Vetulani, J. (2007). Diverse effects of GABA-mimetic drugs on cocaine-evoked self-administration and discriminative stimulus effects in rats. *Psychopharmacology*, 192(1), 17–26. <https://doi.org/10.1007/s00213-006-0694-7>

Garnier, C., Schein, M., Lacroix, C., Jouve, E., Soeiro, T., Gentile, G., ... & Micallef, J. (2024). Patterns of pregabalin users from substance abuse treatment facilities: results from the French OPPIDUM program from 2008 to 2022. *CNS drugs*, 38(9), 743-751.

Gomes, T., Juurlink, D. N., Antoniou, T., Mamdani, M. M., Paterson, J. M., & van den Brink, W. (2017). Gabapentin, opioids, and the risk of opioid-related death: A population-based nested case-control study. *PLoS medicine*, 14(10), e1002396. <https://doi.org/10.1371/journal.pmed.1002396>

Haney, M., Hart, C., Collins, E. D., & Foltin, R. W. (2005). Smoked cocaine discrimination in humans: effects of gabapentin. *Drug and alcohol dependence*, 80(1), 53–61. <https://doi.org/10.1016/j.drugalcdep.2005.03.006>

Harding, E. K., Souza, I. A., Gandini, M. A., Gadotti, V. M., Ali, M. Y., Huang, S., Antunes, F. T. T., Trang, T., & Zamponi, G. W. (2023). Differential regulation of $Ca_v3.2$ and $Ca_v2.2$ calcium channels by CB_1 receptors and cannabidiol. *British journal of pharmacology*, 180(12), 1616–1633. <https://doi.org/10.1111/bph.16035>

Hart, C. L., Haney, M., Vosburg, S. K., Rubin, E., & Foltin, R. W. (2007). Gabapentin does not reduce smoked cocaine self-administration: employment of a novel self-administration procedure. *Behavioural pharmacology*, 18(1), 71–75. <https://doi.org/10.1097/FBP.0b013e328014139d>

Hiranita, T., Flynn, S. M., Grisham, A. K., Mijares, A. E., Murphy, E. N., & France, C. P. (2024). Gabapentinoids Increase the Potency of Fentanyl and Heroin and Decrease the Potency of Naloxone to Antagonize Fentanyl and Heroin in Rats Discriminating Fentanyl. *The Journal of pharmacology and experimental therapeutics*, 391(2), 317–334. <https://doi.org/10.1124/jpet.124.002323>

Ispir, G. Z., Danisman, M., & Katar, K. S. (2025). A Hidden Pandemic? Abuse of Gabapentinoids: A Brief Review of Recent Studies. *Current drug research reviews*, 17(1), 5–9. <https://doi.org/10.2174/0125899775268780231002064605>

Johansen, M. E., & Maust, D. T. (2024). Update to Gabapentinoid Use in the United States, 2002-2021. *Annals of family medicine*, 22(1), 45–49.
<https://doi.org/10.1370/afm.3052>

Kranzler, H. R., Feinn, R., Morris, P., & Hartwell, E. E. (2019). A meta-analysis of the efficacy of gabapentin for treating alcohol use disorder. *Addiction (Abingdon, England)*, 114(9), 1547–1555. <https://doi.org/10.1111/add.14655>

Kricek, F., Ruf, C., Meghani, P., Souza, I. A., Gandini, M. A., Zamponi, G. W., & Skouteris, G. (2024). A next generation peripherally restricted Cav α 2 δ -1 ligand with inhibitory action on Cav2.2 channels and utility in neuropathic pain. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 174, 116472.
<https://doi.org/10.1016/j.biopha.2024.116472>

Levine, A. R., Carrasquillo, L., Mueller, J., Nounou, M. I., Naut, E. R., & Ibrahim, D. (2019). High-Dose Gabapentin for the Treatment of Severe Alcohol Withdrawal Syndrome: A Retrospective Cohort Analysis. *Pharmacotherapy*, 39(9), 881–888.
<https://doi.org/10.1002/phar.2309>

Li, Z., Taylor, C. P., Weber, M., Piechan, J., Prior, F., Bian, F., ... & Donevan, S. (2011). Pregabalin is a potent and selective ligand for α 2 δ -1 and α 2 δ -2 calcium channel subunits. *European journal of pharmacology*, 667(1-3), 80-90.

Lile, J. A., Wesley, M. J., Kelly, T. H., & Hays, L. R. (2016). Separate and combined effects of gabapentin and [INCREMENT]9-tetrahydrocannabinol in humans discriminating [INCREMENT]9-tetrahydrocannabinol. *Behavioural pharmacology*, 27(2-3 Spec Issue), 215–224. <https://doi.org/10.1097/FBP.0000000000000187>

Marais, E., Klugbauer, N., & Hofmann, F. (2001). Calcium channel α (2) δ subunits-structure and Gabapentin binding. *Molecular pharmacology*, 59(5), 1243–1248. <https://doi.org/10.1124/mol.59.5.1243>

Mattson, C. L. (2022). Notes from the field: trends in gabapentin detection and involvement in drug overdose deaths—23 states and the District of Columbia, 2019–2020. *MMWR. Morbidity and mortality weekly report*, 71.

Olopoenia, A., Camelo-Castillo, W., Qato, D. M., Adekoya, A., Palumbo, F., Sera, L., & Simoni-Wastila, L. (2022). Adverse outcomes associated with concurrent gabapentin, opioid, and benzodiazepine utilization: A nested case-control study. *Lancet regional health. Americas*, 13, 100302. <https://doi.org/10.1016/j.lana.2022.100302>

Park, H. J., Sandor, K., McQueen, J., Woller, S. A., Svensson, C. I., Corr, M., & Yaksh, T. L. (2016). The effect of gabapentin and ketorolac on allodynia and conditioned place

preference in antibody-induced inflammation. *European journal of pain (London, England)*, 20(6), 917–925. <https://doi.org/10.1002/ejp.816>

Peng, X. Q., Li, X., Li, J., Ramachandran, P. V., Gagare, P. D., Pratihara, D., Ashby, C. R., Jr, Gardner, E. L., & Xi, Z. X. (2008). Effects of gabapentin on cocaine self-administration, cocaine-triggered relapse and cocaine-enhanced nucleus accumbens dopamine in rats. *Drug and alcohol dependence*, 97(3), 207–215. <https://doi.org/10.1016/j.drugalcdep.2007.09.019>

Pirec, V., Laurito, C. E., Lu, Y., & Yeomans, D. C. (2001). The combined effects of N-type calcium channel blockers and morphine on A delta versus C fiber mediated nociception. *Anesthesia and analgesia*, 92(1), 239–243. <https://doi.org/10.1097/00000539-200101000-00046>

Pollack, M. H., Matthews, J., & Scott, E. L. (1998). Gabapentin as a potential treatment for anxiety disorders. *The American journal of psychiatry*, 155(7), 992–993. <https://doi.org/10.1176/ajp.155.7.992>

Prus, A. J., Van Fossen, M. T., Iannucci, A. N., Dalton, A. G., & Prete, J. N. (2024). Discriminative stimulus properties of two training doses of gabapentin in rats: Substitution by pregabalin, diazepam, and pentobarbital. *Experimental and clinical psychopharmacology*, 32(4), 485–495. <https://doi.org/10.1037/pha0000704>

Roberto, M., Gilpin, N. W., O'Dell, L. E., Cruz, M. T., Morse, A. C., Siggins, G. R., & Koob, G. F. (2008). Cellular and behavioral interactions of gabapentin with alcohol dependence. *Journal of Neuroscience*, 28(22), 5762–5771.

Souza, I. A., Gandini, M. A., Ali, M. Y., Kricek, F., Skouteris, G., & Zamponi, G. W. (2024). Determinants of interactions of a novel next-generation gabapentinoid NVA1309 and mirogabalin with the Cav α 2 δ -1 subunit. *Molecular Brain*, 17(1), 54.