

# Publications

[Total-22, Research-20, Review-2, International Journal-21] **First author/  
equal contribution**]

1. Lamba D\*, **Dwivedi DK\***, Yadav M, and Kumar YRS, (\* corresponding author), Boldine: a narrative review of the bioactive compound with versatile biological and pharmacological potential, Journal of Complementary and Integrative Medicine <https://doi.org/10.1515/jcim-2023-0224>, PMID: 38234264, ISSN: 1553-3840
2. **DK Dwivedi**, C. Sahu and G. B. Jena, Simultaneous Intervention against Oxidative Stress and Inflammation by Targeting Nrf2/ARE and NLRP3 Inflammasome Pathways Mitigates Thioacetamide-induced Liver Fibrosis in Rat, Canadian Journal of Physiology and Pharmacology (2023) Oct 1; 101(10):509-520, <https://doi.org/10.1139/cjpp-2023-0018> (two-year impact factor 2.1) ISSN:0008-4212 (print); 1205-7541 (web) (Citations: 1)
3. **DK Dwivedi** and G. B. Jena, Dimethyl fumarate-mediated Nrf2/ARE pathway activation and glibenclamide-mediated NLRP3 inflammasome cascade inhibition alleviate type II diabetes-associated fatty liver in rats by mitigating oxidative stress and inflammation, Journal of Biochemical and Molecular Toxicology, 2023 Jul;37(7):e23357. doi: <https://doi.org/10.1002/jbt.23357>. ISSN: 1099-0461 (Impact factor 3.66) (Citations: 6)
4. HV Charan\*, **DK Dwivedi\***, S Khan and G. B. Jena, Mechanisms of NLRP3 inflammasome-mediated hepatic stellate cell activation: therapeutic potential for liver fibrosis, (**\*Equal contribution**), Genes & Diseases, 2022 Jan 6;10(2):480-494. doi: <https://doi.org/10.1016/j.gendis.2021.12.006> ISSN: 2352-3042 (web) & 2352-4820 (print)(Impact factor 6.8) (Citations: 7)
5. **DK Dwivedi** and G. B. Jena, Simultaneous Modulation of NLRP3 Inflammasome and Nrf2/ARE Pathway Rescues Thioacetamide-induced Hepatic Damage in Mice: Role of Oxidative Stress and Inflammation, Inflammation (2022), Apr;45(2):610-626 doi: <https://doi.org/10.1007/s10753-021-01571-3> ISSN: 1573-2576. (print) & 0360-3997 (web) (Impact factor 5.1) (Citations: 15)
6. SN Pandey\*, M Kwatra\*, **DK Dwivedi\***, P Choubey, M Lahkar, and A Jangra, (**\*Equal contribution**), 7, 8-Dihydroxyflavone alleviated the high-fat diet and alcohol-induced memory impairment: behavioral, biochemical and molecular evidence. Psychopharmacology (2020) Jun;237(6):1827-1840. doi:

7. **DK Dwivedi**, G. B. Jena, and V. Kumar, Dimethyl fumarate protects thioacetamide-induced liver damage in rats: Studies on Nrf2, NLRP3, and NF- $\kappa$ B. *Journal of Biochemical and Molecular Toxicology* (2020) Jun;34(6):e22476. doi: <https://doi.org/10.1002/jbt.22476> ISSN: 1099-0461 (Impact factor 3.66) (Five-year impact factor not available) (Citations: 39)
8. **DK Dwivedi** and G. B. Jena, Diethylnitrosamine and thioacetamide-induced hepatic damage and early carcinogenesis in rats: Role of Nrf2 activator dimethyl fumarate and NLRP3 inhibitor glibenclamide. *Biochemical and Biophysical Research Communications* (2020) Feb 5;522(2):381-387. doi:<https://doi.org/10.1016/j.bbrc.2019.11.100> ISSN: 0006-291X (print); 1090-2104 (web) (Impact factor 3.1) (Citations: 22)
9. **DK Dwivedi** and G. B. Jena, NLRP3 inhibitor glibenclamide attenuates high-fat diet and streptozotocin-induced non-alcoholic fatty liver disease in rat: studies on oxidative stress, inflammation, DNA damage, and insulin signalling pathway. *Naunyn-Schmiedeberg's archives of pharmacology* (2019) Apr;393(4):705-716. doi:<https://doi.org/10.1007/s00210-019-01773-5> ISSN: 1432-1912 (web) & 0028-1298 (print) (Impact factor 3.6) (Five-year impact factor 3.2) (Citations: 39)
10. A Jangra\*, P Rajput\*, **D K Dwivedi\*** and M Lahkar, (**\*Equal contribution**), Amelioration of repeated restraint stress-induced behavioral deficits and hippocampal anomalies with taurine treatment in mice. *Neurochemical Research* (2019) Apr;45(4):731-740. doi:<https://doi.org/10.1007/s11064-019-02945-8> ISSN: 1573-6903 (web) & 0364-3190 (print) (Impact factor 4.4) (Citations: 31)
11. D Kumar\*, **DK Dwivedi\***, M Lahkar, and A Jangra, (**\*Equal contribution**), Hepatoprotective potential of 7,8-dihydroxyflavone against alcohol and high-fat diet-induced liver toxicity via attenuation of oxido-nitrosative stress and NF- $\kappa$ B activation. *Pharmacological Reports* (2019) Dec;71(6):1235-1243. doi: <https://doi.org/10.1016/j.pharep.2019.07.002> ISSN: 2299-5684 (web) & 1734-1140 (print) (Impact factor 4.4) (Five-year impact factor 3.5) (Citations: 28)
12. **DK Dwivedi** and G. B. Jena, Glibenclamide protects against thioacetamide-induced hepatic damage in Wistar rat: investigation on NLRP3, MMP-2, and stellate cell activation. *Naunyn-Schmiedeberg's archives of pharmacology* (2018) Nov;391(11):1257-1274. doi: <https://doi.org/10.1007/s00210-018-1540-2> ISSN: 1432-1912 (web) & 0028-1298 (print) (Impact factor 3.6) (Five-year impact factor 3.2) (Citations: 42).
13. **DK Dwivedi**, D Kumar, M Kwatra, SN Pandey, P Choubey, M Lahkar, and A Jangra, Voluntary alcohol consumption exacerbated high fat diet-induced

- cognitive deficits by NF- $\kappa$ B-calpain dependent apoptotic cell death in rat hippocampus: Ameliorative effect of melatonin. *Biomedicine & Pharmacotherapy* (2018) Dec;108:1393-1403. doi:<https://doi.org/10.1016/j.biopha.2018.09.173> ISSN: 1950-6007 (web) & 0753-3322 (print)(Impact factor 7.5), (Citations: 27)
14. D.K. Dwivedi#, P. Goyal, V. Arora, M. Goswami, Liver injury: Light and Dark Side of Herbal Formulations, *Annals of Tropical Medicine & Public Health*, 23, doi: 10.36295/ASRO.2020.232019, ISSN: 0974-6005 (web) & 1755-6783 (print) (# corresponding author) (Citations: 0) **Co-author**
15. K Girdhar; S Thakur; P Gaur; A Choubey, S Dogra, B Dehury, S Kumar, B Biswas, **DK Dwivedi**, S Ghosh, P Mondal, Design, synthesis, and biological evaluation of a small molecule oral agonist of the glucagon-like-peptide-1 receptor (2022), *Journal of Biological Chemistry (JBC)*, 2022 May;298(5):101889, <https://doi.org/10.1016/j.jbc.2022.101889>ISSN: 0021-9258 (print) & 1083-351X (web) (impact factor 4.8) (Citations: 3)
16. A K Meena, Panda P, Murali Krishna C, Kusuma Ganji, **DK Dwivedi**, Srikanth N, Comparative chemical profiling of purified and unpurified *Strychnos nuxvomica* Linn seeds: An attempt to reduce toxic Brucine content, *International Journal of Ayurvedic Medicine*, (ISSN No: 0976-5921) Vol 12 (4), 807-819 doi: <https://doi.org/10.47552/ijam.v12i4.2203> (No impact factor) (Citations:0)
17. Z Rahman, **DK Dwivedi**, and G. B. Jena, The Intervention of tert-Butylhydroquinone Protects Ethanol-Induced Gastric Ulcer in Type-II Diabetic Rats: Role of Nrf2 pathway, *Canadian Journal of Physiology and Pharmacology* (2021) May;99(5):522-535 <https://doi.org/10.1139/cjpp-2020-0173> ISSN:0008-4212 (print); 1205-7541 (web) (two-year impact factor 2.1) (Citations: 4)
18. C. Sahu, Charaya A, Singla S, **D K Dwivedi** and GB Jena, Zinc Deficient Diet Increases the Toxicity of Bisphenol A in Rat Testis. *Journal of Biochemical and Molecular Toxicology* (2020) Jul 1 34(10);e22549. ISSN: 1099-0461 doi: <https://doi.org/10.1002/jbt.22549> (Impact factor 3.66) (Citations:20)
19. C. Sahu, **D K Dwivedi**, and GB Jena, Zinc and selenium combination treatment protected diabetes-induced testicular and epididymal damage in rat. *Human and Experimental Toxicology* (2020) Sep;39(9):1235-1256. doi: <https://doi.org/10.1177/0960327120914963> ISSN: 0960-3271 (print) & 1477-0903 (web) (Impact factor 2.90) (Five-year impact factor 2.712) (Citations: 28)
20. P Choubey, M Kwatra, SN Pandey, D Kumar, **DK Dwivedi**, P Rajput, A Mishra, M Lahkar, and A Jangra, Ameliorative effect of fisetin against lipopolysaccharide and restraint stress-induced behavioral deficits via modulation of NF- $\kappa$ B andIDO-1. *Psychopharmacology* (2019) Feb;236(2):741-752. doi: <https://doi.org/10.1007/s00213-018-5105-3> ISSN:

21. Z Rahman, **DK Dwivedi**, and G. B. Jena, Ethanol-induced gastric ulcer in rats and intervention of tert-butylhydroquinone: involvement of Nrf2/HO-1 signalling pathway *Human & Experimental Toxicology* 2020 Apr;39(4):547-562. doi:<https://doi.org/10.1177/0960327119895559> ISSN: 0960-3271 (print) & 1477-0903 (web), (Impact factor 2.8) (Citations: 75)
22. A Jangra, M Kwatra, T Singh, R Pant, P Kushwah, S Ahmed, **DK Dwivedi**, B Saroha and M Lahkar, Edaravone alleviates cisplatin-induced neurobehavioral deficits via modulation of oxidative stress and inflammatory mediators in the rat hippocampus. *European journal of pharmacology* (2016) 791, 51-61. doi: <https://doi.org/10.1016/j.ejphar.2016.08.003> ISSN: 0014-2999 (print) and 1879-0712 (web) (Impact factor 5.0) (Citations: 79)

### **Awards/Honours/Recognition:**

1. Recipient of 'Best oral presentation (third position)' in a conference on 'Innovative approach in Laboratory Animal Research' organized by ICMR-National Animal Resource Facility for Biomedical Research, Hyderabad on 24 April 2023.
2. Recipient of the Best oral presentation award under the molecular pharmacology category at the 6th Nirma Institute of Pharmacy International Conference jointly organized with the Indian Pharmacological Society (NIPiCON-IPS 2022) during February 17-19, 2022.
3. Recipient of the Best oral presentation award under the Pharmaceutical science category in the virtual National Biomedical Research Competition (NBRCom 2021), organized by the Society of Young Biomedical Scientists, India, from 6-10 December 2021.
4. Recipient of the Best poster presentation award in a symposium 'Young Pharmacologist Symposium' through virtual mode jointly organized by the Indian Pharmacology Society and the National Institute of Pharmaceutical Education and Research (NIPER), Raebareli on 27-28 May 2021.
5. Recipient of third-place/prize in student poster competition (US\$150) (Emil Pfitzer Drug Discovery Toxicology Endowment Fund award) by Drug Discovery Toxicology specialty section of the Society of Toxicology (SOT), USA (The receiving of the award done virtually (web) from 12 to 26 March 2021).
6. Recipient of the Ronald G. Thurman Student Travel Award (US\$1500) by Mechanism Specialty Section of the Society of Toxicology (SOT), USA (The receiving of the award was done virtually (web) from 12 to 26 March 2021).
7. Recipient of the first prize in the poster presentation in a conference Society of Toxicology (SOT), USA sponsored 'International Workshop on Human Health Risk Assessment' through virtual mode organized by Chitkara University, Himachal Pradesh, on 17-18 September 2020.
8. Recipient of the Perry J. Gehring Endowment Best Abstract Award for students (US\$1500) by Risk Assessment Specialty Section (RASS) of the Society of Toxicology (SOT), USA (The receiving of the award done at RASS

virtual (web) award ceremony on April 22, 2020, due to cancellation of 2020 SOT meeting, received the prize money in the bank account).

9. Recipient of Dr. Laxman Desai Graduate Student Best Abstract Award (US\$750) by the Association of Scientists of Indian Origin (ASIO) special interest group of Society of Toxicology (SOT), USA. (The receiving of the award was planned at the reception desk on 15-19 March 2020 in California, USA but canceled due to the COVID19 outbreak, received the prize money in the bank account).
10. Recipient of Graduate Student Travel Support Award (US\$800) by Society of Toxicology (SOT), USA, to attend SOT 59th Annual Meeting and ToxExpo in California, USA (received the prize money in the bank account).
11. Recipient of International Travel support in April 2019 granted by the Indian Council of Medical Research, Government of India (utilized during Austria visit).
12. Recipient of the Ph.D. complete tenure (5 years) fellowship (35000+16% HRA) granted by National Institute of Pharmaceutical Education and Research (NIPER) S. A. S. Nagar (Mohali), Department of Pharmaceuticals, Ministry of Chemical and Fertilizer, Govt. of India for pursuing Ph.D. (July 2015-June 2020).
13. Recipient of the Postgraduation complete tenure (2 years) (Master of Science; Pharm) fellowship (12400 rupees per month) granted by National Institute of Pharmaceutical Education and Research (NIPER) Guwahati, Department of Pharmaceuticals, Ministry of Chemical and Fertilizer, Govt. of India during Master Program (July 2013-June 2015).
14. Recipient of Eight awards in "Hindi Pakhwara," a Hindi language competition, organized several times in our institute. (Participant).