

Curriculum Vitae

Full Name:	Dr. Jayant Kumar	
Designation	Assistant Professor	
Department:	Department of Pharmaceutical Sciences	
Campus:	Srinagar/Chauras	
Communication Address	Department of Pharmaceutical Sciences HNB Garhwal University (A Central University), Chauras Campus, P.O. Kilkileshwar, Via Kritinagar Distt.- Tehri Garhwal, Uttarakhand (249161)	
Mobile:	+91-8085857834	
Email	jayantpatwa93@gmail.com	
Educational Qualification:	B. Pharmacy: RGPV University Bhopal Madhyapradesh M.S.(Pharm.), Pharmacology & Toxicology: NIPER Mohali Chandigarh Ph.D. Pharmacology & Toxicology: NIPER Raebareli U.P.	
Research Experience	More than 6 Years	
Research Interest and Fields of Specialization		
<ul style="list-style-type: none"> ❖ Copper ❖ Metal toxicity ❖ Neurotoxicity ❖ Chelation 		
Membership of Scientific Organizations		
I. Indian Pharmacological Society (LJ197) II. Indian Academy of Neuroscience (LP-103) III. Registered Pharmacist Madhya-Pradesh Pharmacy Council (47785)		
Conference/Symposium/Workshop		
1. Young Pharmacologist Symposium jointly organized by <i>National Institute of Pharmaceutical Education & Research RAEBARELI & Indian Pharmacological Society</i> 2021 (Oral Presentation)		
2. 11th NIPER (R) Symposium on Natural Product-Based Therapeutics in Drug Development, organized by <i>National Institute of Pharmaceutical Education & Research RAEBARELI-2019</i> (Oral Presentation)		
3. IBRO-APRC Neuroscience School on Molecular Basis of Neuroinflammation Mediated Neurodegeneration, organized by International Brain Research Organization (<i>Banaras Hindu University-2019</i>) (Oral Presentation)		
4. International Symposium in Molecular Medicine organized by <i>Sanjay Gandhi Postgraduate Institute of Medical Sciences-2018</i>		
5. 10th NIPER (R) Symposium on Nano Based Therapy for Neurodegenerative Disease, organized by <i>National Institute of Pharmaceutical Education & Research RAEBARELI - 2017</i> (Poster Presentation)		
6. Indian Pharmacological Society (IPSCON) 2016 (<i>PGI Chandigarh</i>).		

Selected publications during recent years

1. Thakur, Ashima, **Jayant Patwa**, Suyash Pant, Swaran Jeet Singh Flora, and Abha Sharma. "Synthesis and evaluation of small organic molecule as reactivator of organophosphorus inhibited acetylcholinesterase." *Drug and Chemical Toxicology* (2022): 1-16.
2. **Patwa, Jayant**, Ashima Thakur, and Swaran Jeet Singh Flora. "Alpha Lipoic Acid and Monoisoamyl-DMSA Combined Treatment Ameliorates Copper-Induced Neurobehavioral Deficits, Oxidative Stress, and Inflammation." *Toxics* 10, no. 12 (2022): 718.
3. Ali, Syed Afroz, Sumadhura Bommaraju, **Jayant Patwa**, Puja Khare, Mahesh Rachamalla, Som Niyogi, and Ashok Kumar Datusalia. "Melatonin Attenuates Extracellular Matrix Accumulation and Cardiac Injury Manifested by Copper." *Biological Trace Element Research* (2022): 1-16.
4. Flora, Swaran JS, Keerti Jain, Archana Panghal, and **Jayant Patwa**. "Chemistry, Pharmacology, and Toxicology of Monoisoamyl Dimercaptosuccinic Acid: A Chelating Agent for Chronic Metal Poisoning." *Chemical research in toxicology* 35, no. 10 (2022): 1701-1719.
5. Gaun, Sachin, Syed Afroz Ali, Pooja Singh, **Jayant Patwa**, Swaran Jeet Singh Flora, and Ashok Kumar Datusalia. "Melatonin ameliorates chronic copper-induced lung injury." *Environmental Science and Pollution Research* (2022): 1-14.
6. Thakur, Ashima, **Jayant Patwa**, Abha Sharma, and Swaran JS Flora. "Synthesis, Molecular Docking, BSA, and in Vitro Reactivation Study of Imidazopyridine Oximes against Paraoxon Inhibited Acetylcholinesterase." *Medicinal Chemistry* 18, no. 2 (2022): 273-287.
7. Thakur, Ashima, **Jayant Patwa**, Suyash Pant, Abha Sharma, and SJS R. Flora. "Interaction study of monoisoamyl dimercaptosuccinic acid with bovine serum albumin using biophysical and molecular docking approaches." *Scientific Reports* 11, no. 1 (2021): 1-14.
8. **Patwa, Jayant**, and S. J. S. Flora. "MiADMSA abrogates chronic copper-induced hepatic and immunological changes in Sprague Dawley rats." *Food and Chemical Toxicology* 145 (2020): 111692.
9. **Patwa, Jayant**, Sabbir Khan, and Gopabandhu Jena. "Nicotinamide attenuates cyclophosphamide-induced hepatotoxicity in SD rats by reducing oxidative stress and apoptosis." *Journal of Biochemical and Molecular Toxicology* 34, no. 10 (2020): e22558.
10. **Patwa, Jayant**, Ashima Thakur, Abha Sharma, and S. J. S. Flora. "Monoisoamyl DMSA reduced copper-induced neurotoxicity by lowering 8-OHdG level, amyloid beta and Tau protein expressions in Sprague-Dawley rats." *Metallomics* 12, no. 9 (2020): 1428-1448.
11. **Patwa, Jayant**. and Flora, S.J.S., 2020. Heavy metal-induced cerebral small vessel disease: Insights into molecular mechanisms and possible reversal strategies. *International Journal of Molecular Sciences*, 21(11), p.3862.
12. Quamar, Shaheen, **Jayant Kumar**, Awanish Mishra, and S. J. S. Flora. "Oxidative stress and neurobehavioural changes in rats following copper exposure and their response to

MiADMSA and d-penicillamine." *Toxicology research and application* 3 (2019): 2397847319844782.

13. Sathua, Kshirod Bihari, **Jayant Kumar Patwa**, and Swaran Jeet Singh Flora. "Oxidative/Nitrosative Stress, 8-OHdG and MMP-9: The Possible Co-Links and Early Sign of Arsenic Induced Urinary Bladder Carcinogenesis in Experimental Rats." *Free radicals and antioxidants* 9, no. 1 (2019): 22-28.
14. **Kumar, Jayant**, Kshirod Bihari Sathua, and S. J. S. Flora. "Chronic copper exposure elicit neurotoxic responses in rat brain: Assessment of 8-hydroxy-2-deoxyguanosine activity, oxidative stress and neurobehavioral parameters." *Cellular and Molecular Biology* 65, no. 1 (2019): 27-35.

Books/ Book Chapter

1. **Patwa, Jayant.**; Sharma, A.; Flora, S. J. S. Chapter 29 - Arsenic, cadmium, and lead. In *Reproductive and Developmental Toxicology* (Third Edition), Gupta, R. C. Ed.; Academic Press, 2022; pp 547-571.
2. **Patwa, Jayant.** and Flora, S.J.S., 2020. Medical management of diseases associated with biological warfare. In **Handbook on Biological Warfare Preparedness** (pp. 151-172). Academic Press.