

FACULTY PROFILE



Name	Dr. Rajesh Singh Yadav					Date of Birth: September 04, 1983				
Designation	Assistant Professor				Date of holding Present Post			May 30, 2013		
Name of the Department and School	Department of Criminology and Forensic Science					School of Applied Sciences				
Contact Details	Email : razitrc@gmail.com					Mobile: 9179444557				
Additional Responsibility in the university, if any	Member, Admission Cell									
Educational Qualifications (UG onwards)	B.Sc. (Zoology, Botany, Chemistry), CSJM University, Kanpur (UP) M.Sc. (Forensic Science), Bundelkhand University, Jhansi (UP) Ph.D. (Toxicology) Jamia Hamdard, New Delhi									
Research Area/Specialization	Forensic Neuroscience, Neurotoxicology / Toxicology									
Awards/ Honors / Fellowship Conferred (With details thereof)	1. Awarded UGC - NET - Junior Research Fellowship in December 2005 Organized by University Grants Commission, New Delhi, India. 2. Melvin Yahr Travel Award to present paper entitled Monocrotophos induced dopaminergic deficits and protective efficacy of Bacopa monnieri in rats at the at XX World Congress on Parkinson's Disease and Related Disorders being held from December 08 – 11, 2013 at Geneva, Switzerland. 3. Best student poster presentation award for presentation of paper entitled Arsenic induced cholinergic deficits and protective efficacy of curcumin in rat brain at the 11th Biennial Meeting of the Asian Pacific Society for Neurochemistry and the 55th Annual Meeting of the Japanese Society for Neurochemistry held on September 30 – October 02, 2012 at Kobe, Japan. 4. ISN-APSN-IBRO Travel Fellowship to attend ISN-APSN- IBRO School being held from September 25 - 28, 2012 at Osaka University School of Medicine and Nara Institute of Science and Technology, Osaka, Japan. 5. Congress Travel Award to present paper entitled Arsenic induced dopaminergic deficits and protection by curcumin in rats at the at XIX World Congress on Parkinson's Disease and Related Disorders being held from December 11 – 14, 2011 at Shanghai, China. 6. International Brain Research Organization (IBRO) Travel Fellowship to attend IBRO-APRC Associate School held from November 07 - 11, 2011 at Taiyuan, China. 7. Professor R. Nath Memorial Travel Award (Indian Academy of Neurosciences) for presentation of paper entitled Ameliorating effect of Bacopa monniera against monocrotophos induced oxidative stress and cholinergic deficits in rats at the XXIX Annual Meeting of Indian Academy of Neurosciences from October 30 - November 01, 2011 at New Delhi, India. 8. Travel Award for Excellent presentation of the paper entitled Modulating effect of Bacopa monniera against monocrotophos induced cholinergic and dopaminergic dysfunctions in rats at the 34th Annual Meeting of the Japan Neuroscience Society (JNS) being held on September 14 - 17, 2011 at Yokohama, Japan. 9. Molecular Chemoprevention and Therapeutics (MCT) – University of Minnesota Research Excellence Award for the paper entitled Arsenic induced dopaminergic dysfunction in rats and protective efficacy of curcumin at the annual meeting of STOX from December 09 -11, 2010 at Jamia Hamdard, New Delhi, India. 10. Jyotsnamoyee - Raghunath Bhattacharya Young Scientist Prize for the best paper published entitled Attenuation of arsenic neurotoxicity by curcumin in rats, Toxicology and Applied Pharmacology 2009, 240 (3):367-376 by the Indian Academy of Neurosciences at its annual meeting held on December 18 – 20, 2009 at NIMS University, Jaipur, India. 11. Awarded First Prize for the Best Business Plan Presentation at 5th Programme on Technology Led Entrepreneurship held at Indian Institute of Chemical Technology (IICT), Hyderabad from June 2 - 28, 2008, organized by Council of Scientific and Industrial Research (CSIR), New Delhi, India									
Summary of Publications (Number only)	Research Papers	29	Books	02	Chapter in Books	04	Seminars/ Conferences Proceedings	54	Projects	02

Research Projects (Completed and Ongoing):

S.No.	Title	Funding Agency	Duration	Sanction order No.	Amount in Rs.	Completed/on going
1.	Effect on biomarkers of oxidative stress, haematological and neurochemical parameters in individuals exposed to	UGC, New Delhi	2 Years (January 2014	UGC Startup Grant	6.00 Lakh	Completed

S.No.	Title	Funding Agency	Duration	Sanction order No.	Amount in Rs.	Completed/on going
	pesticides		– January 2016)			
2.	Identify molecular and neurochemical signatures in pesticide exposed agriculture workers	DST, New Delhi	3 Years	No. SB/YS/LS-193/2014 and Date 12-10-2015	23.84 Lakh	Completed

PUBLICATIONS :

International Publications (Details of Research Papers- 2013 onwards):

2014	1. Pranay Srivastava, Rajesh Singh Yadav, Lalit P Chadravanshi, Rajendra K Shukla, Yogesh Dhuriya, LKS Chauhan, HN Dwivedi, Aditya B Pant, Vinay K Khanna. Unravelling the mechanism of neuroprotection of curcumin in arsenic induced cholinergic dysfunctions in rats. <i>Toxicology and Applied Pharmacology</i>. 15;279(3):428-440. 2014 (Impact factor: 3.705) 2. Rajesh Singh Yadav and Neeraj Kumar Tiwari. Lipid integration in neurodegeneration: An Overview of Alzheimer's Disease. <i>Molecular Neurobiology</i> 50: (1) 168-176. 2014(Impact factor: 4.586). 3. Lalit P Chadravanshi, Rajesh Singh Yadav, Rajendra K Shukla, Anshuman Singh, Sarvat Sultana, Aditya B Pant, Devendra Parmar and Vinay K Khanna. Reversibility of changes in brain cholinergic receptors and acetylcholinesterase activity in rats following early life arsenic exposure. <i>International Journal of Developmental Neuroscience</i> 34; 60–75.2014(Impact factor: 2.025) 4. Atul Puri, Pranay Srivastava, Preeti Pandey, Rajesh Singh Yadav, Prakash Chandra Bhatt. Scopolamine induced behavioral and biochemical modifications and protective effect of <i>Celastrus paniculatus</i> and <i>Angelica glauca</i> in rats. <i>International Journal of Nutrition, Pharmacology, Neurological Diseases</i>, 4(3);158-169. 2014(Impact factor: 0.313). 5. Manish K Singh, Suraj S Yadav, Rajesh Singh Yadav, Uma S Singh, Yogeshwar Shukla, Kamlesh K Pant and Sanjay Khattri. Efficacy of crude extract of <i>Emblica officinalis</i> (amla) in arsenic-induced oxidative damage and apoptosis in splenocytes of mice. <i>Toxicology International</i>. 21(1): 8–17. 2014(Impact factor: 0.72)
2015	6. Manish K Singh, Suraj S Yadav, Rajesh Singh Yadav, Abhishek Chauhan, Devendra Katiyar and Sanjay Khattri. Protective effect of <i>Emblica-officinalis</i> in arsenic induced biochemical alteration and inflammation in mice. <i>SpringerPlus</i> 4:438. 2015(Impact factor: 1.85).
2016	7. Pranay Srivastava, Yogesh Dhuriya, Richa Gupta, Rajendra K Shukla, Rajesh Singh Yadav, HN Dwivedi, Aditya B Pant, Vinay K Khanna. Protective Effect of Curcumin by Modulating BDNF/DARPP32/CREB in Arsenic-Induced Alterations in Dopaminergic Signaling in Rat Corpus Striatum. <i>Molecular Neurobiology</i>. 55(1):445-461. 2016(Impact factor: 4.586). 8. Neha Pahade, Rajesh Kumar Kori, Sarvendra Yadav, Rajesh Singh Yadav. Adverse consequences of alcohol consumption: A preliminary study. 1(1): 24-31. 2016(ISSN 2474-8978). 9. Sunishtha Singh Yadav, Manish Kumar Singh, Rajesh Singh Yadav. Organophosphates Induced Alzheimer's Disease: An Epigenetic Aspect. <i>Journal of Clinical Epigenetics</i> 2,1:10,1-8. 2016 (ISSN 2472-1158). 10. Rajesh Kumar Kori, Abhishek Kumar Jain, Rajesh Singh Yadav. Biomarkers: An essential gizmo in pesticide toxicity. <i>Biomarkers Journals</i> 2,1:9, 1-5. 2016(ISSN 2472-1646). 11. Madhu L Sankhwar, Rajesh Singh Yadav, Rajendra K Shukla, Dharendra Singh, Aditya B Pant, Devendra Parmar and Vinay K Khanna. Monocrotophos induced oxidative stress and alterations in brain dopamine and serotonin receptors in young rats. <i>Toxicology and Industrial Health</i>. 32(3):422-36.2016(Impact factor: 1.635).
2017	12. Pramod Kumar Singh, Manish Kumar Singh, Rajesh Singh Yadav, Rakesh Kumar Dixit, Anju Mehrotra, Rajendra Nath. Attenuation of Lead-Induced Neurotoxicity by Omega-3 Fatty Acid in Rats. <i>Annals of Neurosciences</i>.24(4):221-232. 2017(ISSN: 0972-7531)(Impact factor: 0.97). 13. Pramod Kumar Singh, Manish Kumar Singh, Rajesh Singh Yadav, Rajendra Nath, Anju Mehrotra, Akash Rawat, Rakesh Kumar Dixit. Omega-3 fatty acid attenuates oxidative stress in cerebral cortex, cerebellum, and hippocampus tissue and improves neurobehavioral activity in chronic lead-induced neurotoxicity. <i>Nutritional Neuroscience</i>. 22(2):83-97. 2017(Impact factor: 3.765).
2018	14. Rajesh Kumar Kori, Manish Kumar Singh, Abhishek Kumar Jain, Rajesh Singh Yadav. Neurochemical and behavioral dysfunctions in pesticide exposed farm workers: A clinical outcome. <i>Indian Journal of Clinical Biochemistry</i>, 33(4):372-381. 2018(Impact factor: 0.661). 15. Rajesh Kumar Kori, Ravindra Singh Thakur, Ravi Lodhi, Rajesh Singh Yadav. Assessment of adverse health effects among chronic pesticide exposed farm workers in Sagar district of Madhya Pradesh, India. <i>Int J NutrPharmacol Neurol Dis.</i>, 8(4):153-61. 2018 (Impact factor: 0.313) 16. Manish Kumar Singh, Shailendra Dwivedi, Suraj Singh Yadav, Rajesh Singh Yadav, and Sanjay Khattri. Anti-diabetic Effect of <i>Emblica-officinalis</i> (Amla) Against Arsenic Induced Metabolic Disorder in Mice. <i>Indian Journal of Clinical Biochemistry</i>: 1-9. 2018. (Impact factor: 0.661). 17. Srivastava P, Dhuriya YK, Kumar V, Srivastava A, Gupta R, Shukla RK, Rajesh Singh Yadav, Dwivedi HN, Pant AB,

	Khanna VK. PI3K/Akt/GSK3 β induced CREB activation ameliorates arsenic mediated alterations in NMDA receptors and associated signaling in rat hippocampus: Neuroprotective role of curcumin. <i>Neurotoxicology</i> . 67:190-205. 2018. (Impact factor: 3.263).
	18. Manish Kumar Singh, Pramod Kumar Singh, Suraj Singh Yadav, Uma S Singh, Pradeep Dwivedi, Rajesh Singh Yadav . Attenuation of Arsenic-Induced Dyslipidemia by Fruit Extract of <i>Emblca Officinalis</i> in Mice. <i>International Journal of Nutrition, Pharmacology, Neurological Diseases</i> . 8:3-9. 2018. (Impact factor: 0.313).
2019	19. Rajesh Kumar Kori, Whidulhasan, Abhishek Kumar Jain and Rajesh Singh Yadav . Cholinesterase inhibition and its association with hematological, biochemical and oxidative stress markers in chronic pesticide exposed agriculture workers. <i>Journal of Biochemical and molecular Toxicology</i> . e22367:1-10. 2019.(Impact factor: 2.965). https://doi.org/10.1002/jbt.22367 . 20. Hasan W, Kori RK, Thakre K, Yadav RS, Jat D. Synthesis, characterization and efficacy of mitochondrial targeted delivery of TPP-curcumin in rotenone-induced toxicity. <i>DARU Journal of Pharmaceutical Sciences</i> . 27(2):557-570. 2019 (Impact factor: 2.698).
2020	21. Rajesh Kumar Kori, Mandrah K, Whidulhasan, Patel DK, Roy SK, and Rajesh Singh Yadav Identification of markers of depression and neurotoxicity in pesticide exposed agriculture workers. <i>J Biochem Mol Toxicol</i> . (Impact factor: 2.965) Mar 1:e22477. 2020.doi: 10.1002/jbt.22477 22. Hasan W, Kori RK, Jain J, Yadav RS, Jat D. Neuroprotective effects of mitochondria-targeted curcumin against rotenone-induced oxidative damage in cerebellum of mice. <i>J Biochem Mol Toxicol</i> . 34(1):e22416. 2020. doi: 10.1002/jbt.22416.(Impact factor: 2.965)
Chapters in Books - 2013 onwards	
	1. Mahendra Simha Karna, S. M. and Rajesh Singh Yadav . Computer Fraud: Issues and Challenges in the book entitled "Emerging Paradigms in Finance. ASR Publications, Ghaziabad. 2014. ISBN: 978-93-83247-08-0 (pp.16-36). 2. Pranay Srivastava and Rajesh Singh Yadav . Efficacy of Natural Compounds in Neurodegenerative Disorders in the book entitled "The Benefits of Natural Products for Neurodegenerative Diseases. Springer Publications. 201. ISBN:978-33-19283-83-8. 3. Nawab John Dar and Rajesh Singh Yadav. Nutraceuticals: A novel neuroprotective in the book Food for Huntington's Disease edited by M. Mohammad Essa, T. Manivasagam, A. Justin Thenmozhi, Qazi A. Hamid. Nova Publications. 2017. ISBN: 978-1-53613-855-9 (e-book) 4. Rajesh Singh Yadav and Kumar Vaibhav. Occupational Hazards as Neurological Disorders in the book Frontiers in Occupational Health and Safety, 2019, Vol. 2, 41-61 edited by Dr. Farhana Zahir. Bentham Science Publishers. 2019. (ISBN: 978-981-14-0691-1)
National Seminar/Conference/Workshops (Attended- 2013 onwards)	
	1. Rajesh Singh Yadav . Presented a paper on Forensic Neuroscience: A pro forensic approach. 2nd National Conference on Forensic Science and Criminalistics- FORENSIS AGORA 2017 held at Division of Forensic Science, Galgotias University, Greater Noida, India from April 21-22, 2017. 2. Rajesh Singh Yadav and Rajesh K Kori. Presented a paper on Role of DNA Methylation in Neurobehavioral Dysfunctions. International Conference on Advances in Forensic DNA Technology held at Dr. A.P.J. Abdul Kalam Institute of Forensic Science & Criminology, Bundelkhand University, Jhansi from February 22-24, 2018.
International Seminar/Conference/Workshops (Attended- 2013 onwards)	
	1. Rajesh Singh Yadav , Madhu L Sankhwar, Pramod Kumar, Aditya B Pant and Vinay K Khanna, Attenuation of neurobehavioral toxicity of rotenone by curcumin in rats. <i>Annals of Neurosciences</i> 14, 80 (P08), 2007. <i>Paper presented at International Symposium on Advances in Neurosciences and Silver Jubilee conference of Indian Academy of Neurosciences held on November 22- 25, 2007 at Banaras Hindu University, Varanasi, India.</i> 2. Rajesh Singh Yadav , Madhu L Shankhwar, Rajendra K Shukla, Aditya B Pant, Ramesh Chandra, and Vinay K Khanna, Protective role of curcumin against arsenic induced neurobehavioral toxicity in rats. <i>Annals of Neuroscience</i> 15, 47 (OP6), 2008. <i>Paper presented at the International Conference on Advances in Neurosciences and XXVI Annual Meeting of Indian Academy of Neurosciences held on December 12 – 14, 2008 at Cochin University of Science & Technology, Cochin, Kerala, India.</i> 3. Rajesh Singh Yadav , Madhu L Shankhwar, Rajendra K Shukla, Aditya B Pant and Vinay K Khanna. Neuroprotective efficacy of curcumin in arsenic induced cholinergic dysfunctions in rats. <i>Annals of Neuroscience</i> 16, 118 (PS II 99)) 2009. <i>Paper presented at the XXVII Annual Conference of Indian Academy of Neurosciences being held from December 18 - 20, 2009 at NIMS, University, Jaipur, Rajasthan, India.</i> 4. Rajesh Singh Yadav , Rajendra K Shukla, Madhu L Shankhwar, Aditya B Pant and Vinay K Khanna. Protective role of <i>Bacopa monniera</i> against monocrotophos induced neurobehavioral toxicity in rats. <i>Annals of Neuroscience</i> 17, 094 (P – 99) 2010. <i>Paper presented at the 5th Conference of Federation of Asian-Oceanian Neuroscience societies and XXVIII Annual Meeting of Indian Academy of Neurosciences being held from November 25 -28, 2010 at Lucknow, India.</i> 5. Rajesh Singh Yadav , Madhu L Shankhwar, Rajendra K Shukla, Aditya B Pant and Vinay K Khanna. Arsenic induced dopaminergic dysfunction in rats and protective efficacy of curcumin. <i>Paper presented at the 30th Annual Conference of Society of Toxicology and Symposium on Strategies for safety Study Requirements for Herbal Formulations being held from December 09 -11, 2010 at Jamia Hamdard, New Delhi, India.</i> 6. Rajesh Singh Yadav , Rajendra K Shukla, Aditya B Pant and Vinay K Khanna. Alleviating effect of <i>Bacopa monniera</i> against monocrotophos induced non-cholinergic dysfunctions in rats. <i>Paper presented at the International Symposium on Neuron:</i>

<i>Degeneration, Regeneration and Proliferation being held from January 29 -31, 2011 at Kolkatta, India.</i> 7. Rajesh Singh Yadav, Rajendra K Shukla, Aditya B Pant and Vinay K Khanna. Modulating effect of <i>Bacopa monniera</i> against monocrotophos induced cholinergic and dopaminergic dysfunctions in rats Neuroscience Research, vol. 71, Supplement, September 2011, Page e320. <i>Paper presented at the 34th Annual Meeting of the Japan Neuroscience Society (JNS) being held on September 14 - 17, 2011 at Yokohama, Japan.</i> 8. Rajesh Singh Yadav, Madhu L Sankhwar, Rajendra K Shukla, Aditya B Pant and Vinay K Khanna. Ameliorating effect of <i>Bacopa monniera</i> against monocrotophos induced oxidative stress and cholinergic deficits in rats. <i>Paper presented at the at XXIX Annual Meeting of Indian Academy of Neurosciences being held at New Delhi from October 30 - November 01, 2011.</i> 9. Rajesh Singh Yadav, Lalit P Chandravanshi, Aditya B Pant and Vinay K Khanna. Arsenic induced dopaminergic deficits and protection by curcumin in rats. Parkinsonism and Related Disorders, vol. 18, Supplement 2 (2012) S213–S214. <i>Paper presented at the at XIX World Congress on Parkinson's Disease and Related Disorders held at Shanghai, China from December 11 – 14, 2011.</i> 11. Rajesh Singh Yadav, Lalit P Chandravanshi, Aditya B Pant and Vinay K Khanna. Arsenic induced cholinergic deficits and protective efficacy of curcumin in rat brain. Journal of Neurochemistry, vol 123, Supplement 1 (2012) 85. <i>Paper presented at the 11th Biennial Meeting of the Asian Pacific Society for Neurochemistry and the 55th Annual Meeting of the Japanese Society for Neurochemistry held at Kobe, Japan from September 30 – October 02, 2012.</i> 12. Rajesh Singh Yadav, Rajendra K Shukla, Aditya B Pant and Vinay K Khanna. Monocrotophos induced brain dopaminergic and cholinergic impairments and protective efficacy of <i>Bacopa monnieri</i> in rats. Annals of Neurosciences, vol 19, Supplement, October (2012) 69. <i>Paper presented at the XXX Annual conference of Indian Academy of Neurosciences and International Symposium on Translational neuroscience: Unraveling the Mysteries of Brain in Health and Disease held at Amritsar, India from October 27 - 30, 2012.</i> 13. Rajesh Singh Yadav, Madhu L Sankhwar, Pranay Srivastava and Vinay K Khanna. Monocrotophos induced dopaminergic deficits and protective efficacy of <i>Bacopa monnieri</i> in rats. <i>Paper presented at XX World Congress on Parkinson's Disease and Related Disorders-Geneva, Switzerland from December 8 – 11, 2013.</i> 14. Rajesh Singh Yadav. Presented a paper on Pesticide Induced Neurobehavioral Abnormalities in Agriculture Workers. 35th Annual Meeting of Indian Academy of Neurosciences held at Department of Zoology, Ravenshaw University, Odisha, India from October 29-31, 2017. 15. Rajesh Singh Yadav and Rajesh Kumar Kori. Presented a paper on Assessment of biochemical and neurochemical markers in pesticide exposed farm workers. International conference on Neuroscience & XXXVI Annual Meeting of Indian Academy of Neuroscience on Translational Research on Improving Mental Health held at Department of Zoology, Banaras Hindu University Varanasi, (UP) from October 29-31, 2018.	
Invited Lectures delivered (<i>Outside University</i>) with title, date and place- 2013 onwards:	
2020	1. Delivered Invited talk on Green Toxicology: An innovative way to protect human & Environment health at the National Seminar on Green technology: A roadmap of Sustainable development organized by Department of Chemistry, H.N.B. government PG College, Naini, Allahabad from February 23-24, 2020.
No. of Ph.D. Awarded:	01
No. of Foreign Visits :	01
	1. Presented a paper entitled "Monocrotophos induced dopaminergic deficits and protective efficacy of <i>Bacopa monnieri</i> in rats" at XX World Congress on Parkinson's Disease and Related Disorders, Geneva, Switzerland from December 8 – 11, 2013.
Memberships in Academic Bodies:	
• Life Member - Indian Science Congress Association, India	• Associate Member - European Society for Medical Oncology, Europe.
• Life Member - Indian Academy of Neurosciences, India	• Executive Member - Forensic Science Development Society (FSDS), Lucknow, India
• Life Member - Society of Toxicology, India	• Member – International Society for Neurochemistry
• Life Member - Uttar Pradesh Association of Science and Technology Advancement, Lucknow, India	• Member - Asian Pacific Society for Neurochemistry
• Member - International Brain Research Organization (IBRO), France	• Member - Japan Neuroscience Society (JNS), Japan
Other Academic Achievements :	
(i) Membership of Editorial Boards: National/ International (With details of the journal(s) and duration)	
• Toxicology and Forensic Medicine	
• Biomarkers Journals	
• Journal of Clinical Epigenetics	
(ii) Reviewer of the Journal(s) (With details of the journal(s) and duration)	
• PLOS One	
• Toxicology International	
• Indian Journal of Clinical Biochemistry	

•	Human and Experimental Toxicology
•	Food and Chemical Toxicology
•	International Journal of Nutrition, Pharmacology and Neurological diseases
•	Toxicology and Industrial Health
•	NeuroToxicology
•	Pharmacology Biochemistry and Behavior
•	Annals of Ayurvedic Medicine
(iii) Membership of the Board of Studies/School Board / Academic Council/ Executive Council (Within/ outside the university)	
•	Member of BoS, Department of Criminology and Forensic Science
•	Member of BoS, Institute of Forensic Science, Mumbai University, Mumbai