

**Name:** Sanjay Yadav  
**Designation** Scientist  
**Date of Birth** June 10, 1977  
**Contact Detail** Developmental Toxicology Division, CSIR-Indian Institute of Toxicology Research, M G Marg, Lucknow-226001. India. PO Box. 80  
[sanjayitrc@gmail.com](mailto:sanjayitrc@gmail.com), [sanjay@iitr.res.in](mailto:sanjay@iitr.res.in)  
 9452740640 (M), 0522-2090920 (R), 0522-2620107\*223

**Current Position:** Presently working as Scientist in CSIR-Indian Institute of Toxicology Research, Lucknow.

**Current Research Project**

**Projects as Principal Investigator**

- I. Role of microRNAs in neuronal differentiation and regulation of their expression by known development neurotoxins (**Funded by DBT, New Delhi**).
- II. Role of microRNAs in neuronal disorders. (CSIR-Network: miND)
- III. Identification of miRNAs involved in developmental neurotoxicity and development of miRNA based new biomarkers (CSIR-Network: INDepth).
- IV. Studies on neurotoxicity of engineered metal nanoparticles (CSIR-Network: NanoSHE)

**Projects as Co-Investigator:**

- I. Studies on alterations in molecular events involved in developmental neurotoxicity of cypermethrin (**Funded by DBT, New Delhi**).
- II. Functional neuronal differentiation of human cord blood stem cells: tool to study the chemical induced developmental neurotoxicity (**Funded by DBT, New Delhi**).
- III. Functional characterization of brain cytochrome P450s in differentiating neuronal and glial cells-derived from human umbilical cord blood stem cells (**Funded by DST, New Delhi**).

**Education**

<b>Degree (Year)</b>	<b>Board / University</b>	<b>Subjects</b>
10 <sup>th</sup> (1992)	CBSE Board	Science, Mathematics, Biology, Hindi, English
12 <sup>th</sup> (1994)	CBSE Board	Physics, Chemistry, Biology, Mathematics.
B.Sc. (1997)	University of Lucknow, INDIA	Zoology, Botany, Chemistry
M.Sc. (2000)	University of Lucknow, INDIA	Biochemistry
Ph.D (2006)	Dr. R. M. L. Awadh University, Faizabad, INDIA	Biochemistry

## Publications

1. Regulatory triangle of neurodegeneration, adult neurogenesis and microRNAs. (In Press). Tanisha Singh<sup>#</sup>, Abhishek Jauhari<sup>#</sup>, Ankita Pandey, Parul Singh, Aditya B Pant, Devendra Parmar, **Sanjay Yadav**. CNS & Neurological Disorders-Drug Targets.
2. MicroRNAs as macro-molecules in regulatory circuit of neuronal differentiation. (2013). **Sanjay Yadav**, A Jauhari, T Singh, P Singh, A Pandey, AB Pant, D Parmar. JOURNAL OF NEUROCHEMISTRY 125, 175-175, 2013. (abstract)
3. Imprinting of cerebral and hepatic cytochrome P450s in rat offsprings exposed prenatally to low doses of cypermethrin. A Singh, **S Yadav**, V Srivastava, R Kumar, D Singh, R Sethumadhavan, D Parmar. Molecular neurobiology, 1-13 2013.
4. Expression profiling of selected genes of toxication and detoxication pathways in peripheral blood lymphocytes as a biomarker for predicting toxicity of environmental chemicals. A Sharma, K Saurabh, **S Yadav**, SK Jain, D Parmar. International journal of hygiene and environmental health 2012.
5. Neuronal differentiation: regulation and role of microRNAs. A Pandey, A Shukla, AB Pant, D Parmar, **S Yadav** (2012). International Journal of Developmental Neuroscience 30 (8), 644-644. (abstract)
6. **Yadav S** (Corresponding author), Pandey A, Shukla A, Talwelkar SS, Kumar A, Pant AB, Parmar D. (2011) MiR-497 and miR-302b regulate ethanol induced neuronal cell death through BCL2 and cyclin D2. **J. Biol. Chem.** 286: 37347-37357. PMID: 21878650.
7. Amit Sharma, Kumar Saurabh, **Sanjay Yadav**, Swatantra K. Jain, Devendra Parmar. Ethanol induced induction of cytochrome P450 2E1 and activation of mitogen activated protein kinases in peripheral blood lymphocytes (2011). *Xenobiotica*, 42 (4): 317-26.
8. Kashyap MP, Singh AK, Kumar V, Tripathi VK, Srivastava RK, Agrawal M, Khanna VK, **Yadav S**, Jain SK, Pant AB. Monocrotophos induced apoptosis in PC12 cells: role of xenobiotic metabolizing cytochrome P450s. *PLoS One*. 2011 6 (3):e17757. PMID: 21445290.
9. Kashyap MP, Singh AK, Siddiqui MA, Kumar V, Tripathi VK, Khanna VK, **Yadav S**, Jain SK, Pant AB. Caspase cascade regulated mitochondria mediated apoptosis in monocrotophos exposed PC12 cells. *Chem Res Toxicol.* (2010) 23: 1663-72. PMID: 20957986.

10. Siddiqui MA, Kashyap MP, Khanna VK, **Yadav S**, Pant AB. NGF induced differentiated PC12 cells as in vitro tool to study 4-hydroxynonenal induced cellular damage. *Toxicol In Vitro*. (2010) 6: 1681-8. PMID: 20570720.
11. Saurabh K, Sharma A, **Yadav S**, Parmar D. Polycyclic aromatic hydrocarbon metabolizing cytochrome P450s in freshly prepared uncultured rat blood lymphocytes. *Biochem Pharmacol*. (2010) 79: 1182-8. PMID: 19951702.
12. Johri A, **Yadav S**, Dhawan A, Parmar D. Responsiveness of cerebral and hepatic cytochrome P450s in rat offspring prenatally exposed to lindane. *Toxicol Appl Pharmacol*. (2008) 231: 10-6. PMID: 18486174.
13. Johri A, **Yadav S**, Dhawan A, Parmar D. Overexpression of cerebral and hepatic cytochrome P450s alters behavioral activity of rat offspring following prenatal exposure to lindane. *Toxicol Appl Pharmacol*. (2007), 225: 278-92. PMID: 17919674.
14. Sepuri NB, **Yadav S**, Anandatheerthavarada HK, Avadhani NG. Mitochondrial targeting of intact CYP2B1 and CYP2E1 and N-terminal truncated CYP1A1 proteins in *Saccharomyces cerevisiae*--role of protein kinase A in the mitochondrial targeting of CYP2E1. *FEBS J*. (2007) 274: 4615-30. PMID: 17697118.
15. **Yadav S**, Johri A, Dhawan A, Seth PK, Parmar D. Regional specificity in deltamethrin induced cytochrome P450 expression in rat brain. *Toxicol Appl Pharmacol*. (2006) 217: 15-24. PMID: 16952383.
16. Dey A, **Yadav S**, Dhawan A, Seth PK, Parmar D. Evidence for cytochrome P450 3A expression and catalytic activity in rat blood lymphocytes. *Life Sci*. (2006) 79: 1729-35. PMID: 16844145.
17. Johri A, **Yadav S**, Singh RL, Dhawan A, Ali M, Parmar D. Long lasting effects of prenatal exposure to deltamethrin on cerebral and hepatic cytochrome P450s and behavioral activity in rat offspring. *Eur J Pharmacol*. (2006) 544: 58-68. PMID: 16859670.
18. **Yadav S**, Dhawan A, Seth PK, Singh RL, Parmar D. Cytochrome P4503A: evidence for mRNA expression and catalytic activity in rat brain. *Mol Cell Biochem*. 2006 Jul;287(1-2):91-9. Epub 2006 May 4. PubMed PMID: 16673044.
19. **Yadav S**, Dhawan A, Singh RL, Seth PK, Parmar D. Expression of constitutive and inducible cytochrome P450 2E1 in rat brain. *Mol Cell Biochem*. 2006 Jun;286(1-2):171-80. Epub 2006 Apr 21. PubMed PMID: 16652227.

20. Pandey MK, **Yadav S**, Parmar D, Das M. Induction of hepatic cytochrome P450 isozymes, benzo(a)pyrene metabolism and DNA binding following exposure to polycyclic aromatic hydrocarbon residues generated during repeated fish fried oil in rats. *Toxicol Appl Pharmacol.* (2006) 213: 126-34. PMID: 16263147.
21. Parmar D, **Yadav S**, Dayal M, Johri A, Dhawan A, Seth PK. Effect of lindane on hepatic and brain cytochrome P450s and influence of P450 modulation in lindane induced neurotoxicity. *Food Chem Toxicol.* (2003) 41:1077-87. PMID: 12842176.
22. Parmar D, **Yadav S**, Johri A, Kapoor N, Pant A.B, Dhawan A, and Seth P.K. (2004). Toxicological consequences of modulation of brain cytochrome P450 expression by environmental chemicals. *Pharmacological perspectives of some toxic chemicals*, Ed. Col. S.J.S. Flora, James Romano, Steven I Baskin and K Sekhar. Narosa publishing house.
23. **S. Yadav**, A. Johri, A. Dhawan, R.L. Singh\*, P. K. Seth and D. Parmar. (2004). Region-specific induction of xenobiotic metabolizing cytochrome P450s by deltamethrin in brain. *Journal of Neurochemistry.* **88**, 68, supplement 1, (Abstract Published).