Curculum Vitae

of

Dr. Rajnish Kumar Chaturvedi Senior Scientist Systems Toxicology and Health Risk Assessment Group





सीएसआईआर-भारतीय विषविज्ञान अनुसंधान संस्थान CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH





CURICULUM VITAE

1.	Name				Dr. Rajnish Kumar Chaturvedi	
2.	Date of E	Birth		August 1, 1978		
3.	Present d	esignation:			Senior Scientist	
4.	Addresse	s with Tel/Fax/E-			Developmental Toxicology Laboratory	
	Mail:		Syste	ms Toxi	cology and Health Risk Assessment Group	
				CS	IR-Indian Institute of Toxicology Research	
			Vishvigyan Bhawan, 31 MG Marg, P.O. Box 80,			
			Lucknow-226001 (UP) India			
			Voic	e: 0522-	2627586 Ext: 255; Cell No. 09450418445	
			FAX: 0522-2628227			
			Email: rajnish@iitr.res.in, itrcrajnish@gmail.com			
5.	Acaden	nic Qualifications:				
S.	Degree	Subject	Class	Year	University	
No.			/CGPA			
1	B.Sc	Botany	I st	1998	Jiwaji University, Gwalior, M.P	
		Chemistry				
		Environmental				
		Science				
2	M.Sc	Microbiology	I st 2000 Cancer Hospital and Research Institute,			
			Jiwaji University, Gwalior, M.P			
3	Ph.D*	Microbiology	-	2006	Jiwaji University, Gwalior, M.P and CSIR-	
					IITR, Lucknow	

* Work done at CSIR-Indian Institute of Toxicology Research, Lucknow

Positions held (in chronological order):

S.	Period	Place of Employment	Designation	Scale of pay
No.				(Rs.)
1.	3 rd Oct 2011-	CSIR-Indian Institute of Toxicology	Sr. Scientist	Pay band-III
	till date	Research, Lucknow (UP)		(15600-39100)
				Grade Pay: 7600
2.	3 rd Oct 2008-	CSIR-Indian Institute of Toxicology	Scientist C	Pay band-III
	2 nd Oct 2011	Research, Lucknow	(Got merit	(15600-39100)
			promotion)	Grade Pay: 6600
3.	Sept 2006-	Weill Cornell Medical College, Cornell	Postdoctoral	USD 37000
	Sept 2008	University, New York City, USA	Fellow	
4.	August 2004 -	CSIR-Indian Institute of Toxicology	CSIR-Senior	Rs 8000/+HRA
	July 2006	Research, Lucknow	Research Fellow	
5.	July 2001-	CSIR-Indian Institute of Toxicology	Project Fellow	Rs 5000/-
	July 2004	Research, Lucknow		

Field of specialization:

Molecular Neurotoxicology, Stem Cell Neurobiology and regenerative medicine and Nanomedicine

R&D Activities

- Normal brain development also referred as neurogenesis, involves a balance between Neural Stem Cell (NSC) proliferation, their migration to different parts of the brain followed by differentiation to neurons, astrocytes and oligodendrocytes. For optimum brain development newly generated neurons move along precise pathways from their points of origin to their assigned locations, establish synapses with each other, and communicate via these synapses. Several environmental toxicants are reported to cause developmental neurotoxicity in both children and adults. We are trying to understand how environmental toxicants (pesticides and xenoestrogen) affect key events of neurogenesis including regulatory cell signaling pathways. Further, we are involved to assess the molecular and/or cellular events that are target(s) for inhibition of neurogenesis.
- 2) Use of human and rodent Neural Stem Cells as an alternate *in vitro* model to assess the neurotoxic potential of environmental contaminants.
- 3) To assess the cellular and molecular mechanism of neurodegenerative disorders specially Parkinson's disease, and how environmental toxicants modulate the disease pathogenesis.
- 4) Identification of novel molecular therapeutic targets in neurodegenerative disorders.
- 5) Identification of molecules which can induce "BRAIN SELF REPAIR" by activating resident Neural Stem Cell Population.

Impact of contributions

The pioneer studies carried by our group have identified the role of neural stem cells in pathogenesis of Alzheimer's disease, where we found the process of generation of new neurons (neurogenesis) is inhibited in Alzheimer's disease. We found that environmental toxicants not only induce neurodegeneration but also inhibit process of neurogenesis and autophagy in the brain. We have developed a novel method to enhance the "brain self repair mechanism" using curcumin. We have established a novel role of Wnt/ β -catenin signalling in curcumin mediated enhancement of neurogenesis in the Alzheimer's disease. Further, we identified three novel molecular target of curcumin *viz* Wif-1, Dkk and GSK-3 β . We have provided conclusive evidence that ethosuximide an epileptic drug increased neuronal regeneration in rodent model of Alzheimer's disease and could be used for drug repurposing in patients of Alzheimer's disease. Similarly, nanoparticle mediated delivery of otherwise blood brain barrier impermeable drug dopamine could be a promising therapeutic approach in Parkinson's disease. Studies carried by us possess clinical relevance and could be useful to develop novel therapeutic strategies, which could enhance brain self repair mechanism by inducing endogenous neural stem cells, and ultimately relief behavioral symptoms in neurodegenerative disorders particularly Alzheimer's disease.

Title of the PhD thesis

"Functional restoration in 6-hydroxydopamine lesioned rat model of Parkinson's disease using fetal neural transplant and co-graft with neuroprotective agents: Assessment by neurobehavioral, neurochemical and molecular indices".

Awards/honors received

No.	Award	Agency	Remarks
1	OPPI Young Scientist Award-2016	Organizers of	The award carries a scroll of
		Pharmaceutical Producers of India (OPPI)	honor, Memento, and cash prize of Rs. 1,00,000.
2	Shri Om Prakash Sharma Young	Indian Academy of	The award carries a medal,
	Scientist Award in Biomedical Research	Biomedical Sciences	citation and cash prize of Rs. 5,000.
3	NASI-Scopus Young Scientist	National Academy of	The award carries a scroll of
	Award-2015 in the area of Medicine.	Elsevier-India	honor, Memento, and cash prize of Rs. 75,000.
4	Lady Tata Memorial Young	Lady Tata Memorial	The award carries Rs 25
	Scientist Award-2014 in the area of Medical Sciences.	Trust-United Kingdom	lakhs research grant and Rs 25,000/month cash award for three years.
5	National Academy of Sciences	National Academy of	The award carries a scroll of
	(NASI) Young Scientist Award-	Sciences, Allahabad-India	honor, Memento, and cash
	2013 in the area of Biochemistry, and Bio-Medical Sciences.		prize of Rs. 25,000.
6	Indian National Science Academy	Indian National Science	The award carries cash prize
	(INSA) Young Scientist Award-	Academy-New Delhi	of Rs. 25,000 and
_	2012 in the area of Health Sciences.		honorarium Rs 7,500/month till 45 years by CSIR.
7	Gauri Ganguly Memorial Young	Indian Science Congress	The award carries cash prize
	Scientist Award-2012 of Biomedical Sciences.	Association (ISCA), Kolkata	of Rs. 5,000 and Memento.
8	Lucknow Youth Icons Award-2009	Social Environmental &	_
0	in the field of Science.	Educational Development	-
	in the field of Science.	Society	
9	U.P. Council of Science and	U.P. Council of Science	The award carries a scroll of
	Technology Young Scientist Award-2006	and Technology	honor, Memento, and cash prize of Rs. 25,000.
10	First place in "Parkinson's Disease	Novartis Pharma	During 16 th International
	Quiz Contest		Congress on Parkinson's
			disease, 5 -9 June 2005, at Berlin-Germany.
11	Best paper award	Federation of Asian-	During 2nd FAONS
		Oceanic Neuroscience	Symposium, 17-19 May,
	-	Societies (FAONS)	2004, at Tehran, Iran.
12	Best paper award	National Brain Research	International conference on
		Centre (NBRC)	Theoretical Neurobiology,
			24-27 Feb 2003 at NBRC, New Delhi.
13	Best paper award	National Brain Research	INDO-US colloquium on
15	Dest paper awaru	Centre	Brain Research, 10-12 Jan
			2002 at New Delhi-India.
14	Dr. S.S. Parmar foundation award	Indian Academy of	
-	for the best poster	Neurosciences (IAN)	of IAN, 21-23, February
	•		2003 at Udaipur.

Fellowships received/Overseas Visits

S.	Dura	ation	Institute and	Purpose of visit
No	From	То	the country	
	DD/MM/YY	DD/MM/YY	of visit	
1	04 th Feb	08 th Feb 2013	Columbus,	Received Travel Award Fellowship to
	2013		USA	attend Workshop 3: Disease
2	20 th May	24 th May	Cancun,	Young Investigator Travel Award
	2013	20113	Mexico	Fellowship to attend ISN-ASN meeting
3	29 th May	03 rd June	Prague,	To present research work at 10th World
	2011	2011	Czech	Congress of Biological Psychiatry
			Republic	
4	31 st August	30 th Sept	New York,	For Post Doctoral Research Fellowship
	2006	2008	USA	
5	8 th July 2006	12 th July	Vienna,	Recipient of "Young Investigator Travel
		2006	Austria	Award Fellowship" of Federation of
				European Neuroscience Society (FENS) to
				attend the "5 th FENS Forum"
6	2 nd July	5 th July 2006	Singapore	Received "Travel Award Fellowship" of
	2006		University,	Asia Pacific Society of Neurochemistry
			Singapore	(APSN) to attend the "7th Biennial APSN
				meeting"
7	21 st August	26 th August	Innsbruck,	Received "Travel Award Fellowship" of
	2005	2005	Austria	International Society of Neurochemistry
				(ISN) to attend the " 20 th Biennial ISN-
				ESN meeting"
8	5 th June 2005	9 th June 2005	Berlin,	Received "Asian Travel Award
			Germany	Fellowship" to attend the 16 th International
				Congress on Parkinson's disease and
				Related Disorders
9	3 rd Feb	7 th Feb	Avignon,	Recipient of "Young Investigator Travel
	2004	2004	France	Award Fellowship" of ISN to attend the
				First ISN Special Neurochemistry
	th	th		Conference
10	17 th May	19 th May	Tehran, Iran	Recipient of "Travel Award Fellowship"
	2004	2004		of FAONS to attend the "2nd Federation of
				Asian-Oceanic Neuroscience Societies
<u> </u>	- rd			(FAONS) Symposium"
11	3 rd Feb	7 th Feb	Hongkong	Received "Travel Award Fellowship" of
	2004	2004		ISN to attend ISN-APSN 6 th Biennial Joint
	a —th a —	e o thur -		Meeting
12	27 th Nov	30 th Nov	Bangkok,	Received "Young Investigator Travel
	2002	2002	Thailand	Award Fellowship" of ISN to attend the
				ISN-APSN joint Neurochemistry
				workshop

Selected Publications:

List of 10 most significant research publications in peer reviewed journals

	Authors	Title	Journal/Year/Vol/Pages	Impact
No	Autions		Journal/ 1 car/ v 01/1 ages	factor/citation
1.	Agarwal S, Yadav A,	Dynamin-related	J Biol Chem. 2016 Jul	I.F=4.57
1.	Tiwari SK, Seth B,	protein 1 inhibition	29;291(31):15923-39.	Citation=1
	Chauhan LK, Khare P, Ray	mitigates Bisphenol-	(Corresponding	Citation=1
	RS, Chaturvedi RK.	A mediated	Author)	
	KS, Chatal Veal KK.	alterations in		
		mitochondrial	This article has been	
		dynamics and neural		
		stem cells	member and is most	
		proliferation and		
		differentiation.	article in JBC	
			Neurobiology Affinity	
			Group.	
2.	Tiwari SK, Seth B,	Ethosuximide	J Biol Chem. 2015 Nov	I.F=4.57
	Agarwal S, Yadav A,	induces hippocampal		Citation=12
	Karmakar M, Gupta SK,	neurogenesis and	(Corresponding	
	Choubey V, Sharma A,	reverses cognitive	Author)	
	Chaturvedi RK	deficits in amyloid-β		
		toxin induced		
		Alzheimer's rat		
		model via		
		PI3K/Akt/Wnt/β-		
		catenin pathway.		
3.	Agarwal S, Tiwari SK,	Activation of	J Biol Chem.2015 Aug	I.F=4.57
	Seth B, Yadav A, Singh A,	autophagic flux	21;290(34):21163-84	Citation=10
	Mudawal A, Chauhan LK,	against xenoestrogen	(Corresponding	
	Gupta SK, Choubey V,	Bisphenol-A induced	Author)	
	Tripathi A, Kumar A, Ray	hippocampal		
	RS, Shukla S, Parmar D,	neurodegeneration		
	Chaturvedi RK	via AMPK/mTOR		
		pathways.		
4.	Tiwari SK, Agarwal S,	Bisphenol-A	Mol. Neurobiol. 2015	I.F =5.4
	Tripathi A, Chaturvedi	Mediated Inhibition	May 12	Citation=10
	RK	of Hippocampal	(Corresponding	
		Neurogenesis	Author)	
		Attenuated by		
		Curcumin via Canonical Wnt		
5.	Dahuja D. Sath V. Shulda	Pathway. Trans-Blood Brain	ACS NANO. 2015,	I.F =13.3
5.	Pahuja R, Seth K, Shukla A, Shukla RK, Bhatnagar	Barrier Delivery of	-	Citation=20
	P, Chauhan LK, Saxena	Dopamine Loaded		
	P, Chaunan LK, Saxena PN, Arun J, Patel DK,	Nanoparticles	(Corresponding Author)	
	Singh SP, Shukla R,	Reverses Functional	Aution)	6
	Khanna VK, Kumar P,	Deficits in	This article is selected	
	Chaturvedi RK, Gupta		for ACS Editor's	
	Chatur veur MA, Gupta	i arkinsuinan Kats.	IVI ACS LUILOFS	

KC.		choice and is most downloaded and read article.	
This article has been featured an	d covered at-		
 <u>http://www.indiamedicaltimes.com/20</u> parkinsons/?fb_action_ids=874400742 	2580480&fb_action_ty	pes=og.comments	
 <u>http://www.thehindu.com/todays-pape</u> s/article7135370.ece 	er/tp-in-school/indian-scient	ists-develop-new-drug-for-parkin	<u>son-</u>
3) http://gadgets.ndtv.com/science/news/	new-nanoparticle-treatment	aims-to-reverse-parkinsons-disea	ase-symptoms-
<u>684686</u> 4) http://zeenews.india.com/news/health/	/diseases-conditions/indian-	scientists-develop-new-drug-for-	
parkinsons_1583501.html		berentists develop new drug for	
5) <u>http://www.medicalnewstoday.com/ar</u>			
6) <u>http://health.economictimes.indiatimes</u>	s.com/news/industry/indian	-scientists-develop-new-drug-for-	
parkinsons/47024331 http://www.acs.org/content/acs/en/pres	ssroom/presspacs/2015/acs-	presspac-april-22-2015/nanoparti	cle-drug-reverses-
parkinsons-like-symptoms-in-rats.htm	1 1	<u> </u>	<u></u>
8) http://phys.org/news/2015-04-nanopar			
9) <u>http://www.sciencedaily.com/releases/</u> 10) http://www.sciencedaily.com/releases/			
10) <u>http://www.nanowerk.com/nanotechno</u> 11)http://www.chemeurope.com/en/news/			ms-in-rats html
12) <u>http://www.medindia.net/news/new-dr</u>			
13) https://genesisnanotech.wordpress.com		-	
14) <u>http://www.azonano.com/news.aspx?n</u>			
15) <u>http://www.nanotech-now.com/news.c</u> 16) <u>http://www.asianscientist.com/2015/0</u> 4		ug-reverses-parkinsons-like-symr	toms-rats/
17) <u>http://www.prdassociation.org/news/3</u>			
parkinsons-treatment.html			
18) <u>http://news.list-online.com/new-nanop</u>			
19) <u>http://news.list-online.com/new-nanop</u> 20)http://canaranews.com/news/health/Ind			ms-natv/
21) <u>http://ianslive.in/index.php?param=ne</u>			
473946/Health%20&%20Travel/35			
22) <u>https://connect.innovateuk.org/web/he</u>	ealthcare/article-view/-/blog	s/nanoparticle-drug-reverses-park	<u>inson-s-like-</u>
<u>symptoms-in-rats</u> 23) <u>http://dailypulse.in/article.php?aid=23</u>	8		
24)http://app.newsgetter.com/go/?ng_uid=		8743698&referrer=app&destination	on=webapp
, , ,	Curcumin Loaded	ACS NANO. 2014 Jan	I.F =13.3
	Nanoparticles	28;8(1):76-103	Citation=82
U	Potently Induce	(Corresponding	
	Adult Neurogenesis	Author)	
, , ,	and Reverse		
1 · · · ·	Cognitive Deficits in Alzheimer's Disease		
· 1	Model <i>via</i> Canonical		
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	Wnt/β-catenin Pathway		
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and at there has been reatured an	u covercu by-		
Nature India.			
Nature India:			
http://www.nature.com/nindia/2013/1312		hl	
	<u>C&EN):</u>		

http://www.chemistryviews.org/details/news/5690481/Curcumin_A_Spice_Against_Alzheimers.html Down to Earth:

http://www.downtoearth.org.in/content/nano-carriers

http://chemicalpost.com/archive/nanoparticles-loaded-curcumin-boost-memory-alzheimer%E2%80%99s-animal-model http://dbrilzen.jigsy.com/entries/general/nanoparticles-loaded-with-curcumin-boost-memory-inalzheimer%E2%80%99s-animal-model

7.	Tiwari SK, Agarwal S, Seth B, Yadav A, Ray RS, Mishra VN, Chaturvedi RK Tiwari SK, Agarwal S,	Inhibitory Effects of Bisphenol-AonNeuralStemCellsProliferationandDifferentiation in the RatBrainAreDependentonWnt/ β -CateninPathwayBisphenol-A impairs	Mol. Neurobiol. 2015 Dec;52(3):1735-57 (Corresponding Author) 4000000000000000000000000000000000000	I.F =5.4 Citation=14 I.F =5.4
	Chauhan LKS, Mishra VN, and Chaturvedi RK	myelination potential during development in the hippocampus of the rat brain.	Jun;51(3):1395-416. (Corresponding Author)	Citation=14
9.	Tiwari MN, Agarwal S, Bhatnagar P, Singhal NK, Tiwari SK, Kumar P, Chauhan LKS, Chaturvedi RK, Singh MP, Gupta KC.	Nicotine- encapsulated PLGA nanoparticles improve neuroprotective efficacy over bulk against MPTP- induced cellular and animal models of Parkinsonism.	Free Radic Biol. Med. 2013 Aug 7;65C:704- 718. (Corresponding Author)	I.F =5.4 Citation=24
10	ChaturvediRK,HennesseyT,JohriA,TiwariS,MishraD,AgarwalS,KimYS,BealMF	TransducerofregulatedCREB-bindingproteins(TORCs)transcriptiontranscriptionandfunction is impairedinHuntington'sdisease	HumanMolecularGenetics.21(15):3474-88, 2012(CorrespondingAuthor)(Corresponding)	I.F =8.1 Citation=31
11	Mishra D, Tiwari SK, Agarwal S, Sharma VP and Chaturvedi RK	Prenatal carbofuran exposure inhibits hippocampal neurogenesis and causes learning and memory deficits in offspring.	Toxicological Sciences. 127(1):84-100, 2012. (Corresponding Author)	I.F =5.1 Citation=24
12	Johri A, Chaturvedi RK , Beal MF	Hugging tight in Huntington's disease.	NATURE MEDICINE 17(3):245-6, 2011	I.F =25.7 Citation=15

List of all peer reviewed international publications

Total papers published	: 55
Total Citations	: 2267
H Index	: 25
I-10 index	: 36
Cumulative impact factor	: 230
Average impact factor/paper	: 4.89
Corresponding author paper/reviews	: 24

S.	Authors	Title	Journal/Year/Vol/Pag	Impact
No			e	factor/
				citation
1.	Agarwal S, Yadav A,	Dynamin-related protein 1	J Biol Chem. 2016 Jul	I.F=4.57
	Tiwari SK, Seth B,	inhibition mitigates	29;291(31):15923-39.	Citation=1
	Chauhan LK, Khare P,	Bisphenol-A mediated	(Corresponding	
	Ray RS, Chaturvedi	alterations in mitochondrial	Author)	
	RK.	dynamics and neural stem		
		cells proliferation and		
		differentiation.		
2.	Chopra D, Ray L,	Photoprotective efficiency	Biomaterials. 2016,	I.F.=8.387
	Dwivedi A, Tiwari	of PLGA-curcumin	11;84:25-41.	Citation=5
	SK, Singh J, Singh	nanoparticles versus		
	KP, Kushwaha HN, Jahan S, Pandey A,	curcumin through the involvement of ERK/AKT		
	Gupta SK,	pathway under ambient UV-		
	Chaturvedi RK, Pant	R exposure in HaCaT cell		
	AB, Ray RS, Gupta	line.		
	KC	inic.		
3.	Goyal S, Amar SK,	Photosensitized 2-amino-3-	Toxicol Appl	I.F.=3.71
	Dwivedi A, Mujtaba	hydroxypyridine-induced	Pharmacol. 2016,	Citation=3
	SF, Kushwaha HN,	mitochondrial apoptosis via	2;297:12-21.	
	Chopra D, Pal MK,	Smac/DIABLO in human		
	Singh D, Chaturvedi	skin cells.		
	RK, Ray RS			
4.	Srivastav AK,	Photosensitized rose	J Photochem	I.F.=3.035
	Mujtaba SF, Dwivedi	Bengal-induced	Photobiol B. 2016 Mar;	
	A, Amar SK, Goyal S, Verma A, Kushwaha	phototoxicity on human melanoma cell line under	156:87-99	
	HN, Chaturvedi RK,	natural sunlight exposure.		
	Ray RS	natural sumight exposure.		
5.	Tiwari SK, Seth B,	Ethosuximide induces	J Biol Chem. 2015	I.F=4.57
	Agarwal S, Yadav A,		Nov 20;290(47):	Citation=10
	Karmakar M, Gupta	and reverses cognitive	28540-58	
	SK, Choubey V,	deficits in amyloid- β toxin	(Corresponding	
	Sharma A,	induced Alzheimer's rat	Author)	

	Chaturvedi RK	model <i>via</i> PI3K/Akt/Wnt/β- catenin pathway.		
6.	Agarwal S, Tiwari SK, Seth B, Yadav A, Singh A, Mudawal A, Chauhan LK, Choubey V, Tripathi A, Kumar A, Ray RS, Shukla S, Parmar D, Chaturvedi RK	Activation of autophagic flux against xenoestrogen Bisphenol-A induced hippocampal neurodegeneration via AMPK/mTOR pathways.	(Corresponding	I.F=4.57 Citation=7
7.	Singhal NK, Agarwal S, Bhatnagar P, TiwariMN,Tiwari SK, Srivastava G, Kumar P, Seth B, Patel DK, Chaturvedi RK, Singh MP and Gupta KC.	Mechanism of Nanotization- Mediated Improvement in the Efficacy of Caffeine Against 1-Methyl-4-Phenyl- 1,2,3,6-Tetrahydropyridine- Induced Parkinsonism.	J Biomed Nanotechnol. 2015 Dec;11(12): 2211-22. (Corresponding Author)	I.F=3.929 Citation=4
8.	Tiwari SK, Agarwal S, Tripathi A, Chaturvedi RK .	Bisphenol-A Mediated Inhibition of Hippocampal Neurogenesis Attenuated by Curcumin via Canonical Wnt Pathway.	Mol Neurobiol. 2016 Jul;53(5):3010-29 (Corresponding Author)	I.F=5.4 Citation=10
9.	Amar SK, Goyal S, Dubey D, Srivastav AK, Chopra D, Singh J, Shankar J, Chaturvedi RK , Ray RS.	Benzophenone1inducedphotogenotoxicityandapoptosisviareleaseofcytochromecandSmac/DIABLOatenvironmentalUVradiation.	Toxicol Lett. 2015 Dec 15;239(3):182-93.	I.F=3.522 Citation=6
10	Shukla A, Shukla RK,	Loaded Nanoparticles	26;9 (5):4850-71	I.F =13.3 Citation=18
	Tiwari SK, Agarwal S, Seth B, Nair S, Yadav A, Bhatnagar P, Karmakar M, Chauhan LKS, Patel DK, Srivastava V, Singh D, Tripathi A, Gupta SK, Chaturvedi RK , Gupta KC	Curcumin Loaded Nanoparticles Potently Induce Adult Neurogenesis and Reverse Cognitive Deficits in Alzheimer's Disease Model <i>via</i> Canonical Wnt/β-catenin Pathway	ACS NANO. 2014 Jan 28;8(1):76-103 (Corresponding Author)	I.F =13.3 Citation=82
12	Singh A, Mudawal A, Maurya P, Jain R, Nair S, Shukla RK, Yadav	PrenatalExposureofCypermethrinInducesSimilarAlterationsin	Mol Neurobiol. 2016 Aug;53(6):3670-89.	I.F =5.4 Citation=4

		r	T	
	S, Singh D, Khanna	Xenobiotic-Metabolizing		
	VK, Chaturvedi RK,	Cytochrome P450s and		
	Mudiam MK,	Rate-Limiting Enzymes of		
	Sethumadhavan R,	Neurotransmitter Synthesis		
	Siddiqi MI, Parmar D.	in Brain Regions of Rat		
	Sidulqi Mi, Palillai D.	-		
		Offsprings During Postnatal		
		Development.		
13	Amar SK, Goyal S,	Role of type I & type II	Toxicol Lett. 2015 Mar	I.F = 3.522
	Mujtaba SF, Dwivedi	reactions in DNA damage	20;235(2):84-95.	Citation=10
	A, Kushwaha HN,	and activation of Caspase 3		
	Verma A, Chopra D,	via mitochondrial pathway		
	Chaturvedi RK, Ray	induced by photosensitized		
	RS.	benzophenone.		
1.4			L	LE 0 701
14	Tewari P, Roy R,	Benzanthrone induced	Immunobiology. 2015	I.F =2.781
•	Mishra S, Mandal P,	immunotoxicity via	Mar;220(3):369-81.	Citation=6
	Yadav A, Chaudhari	oxidative stress and		
	BP, Chaturvedi RK,	inflammatory mediators in		
	Dwivedi PD, Tripathi	Balb/c mice.		
	A, Das M.			
15	Tiwari SK, Agarwal S,	Inhibitory Effects of	Mol. Neurobiol. 2015	I.F =5.4
	Seth B, Yadav A, Ray	Bisphenol-A on Neural	Dec;52(3): 1735-57	Citation=9
•	RS, Mishra VN,	Stem Cells Proliferation and	(Corresponding	Chullon-9
	Chaturvedi RK.	Differentiation in the Rat	Author)	
	Chatul veul KK.		Aumor	
		Brain Are Dependent on		
		Wnt/β-Catenin Pathway		
16	Sinha A, Tamboli RS,	Neuroprotective Role of	Mol. Neurobiol. 2015	I.F =5.4
	Seth B, Kanhed AM,	Novel Triazine Derivatives	Aug;52(1):638-52.	Citation=9
	Tiwari SK, Agarwal S,	by Activating Wnt/β	(Corresponding	
	Nair S, Giridhar R,	Catenin Signaling Pathway	Author)	
	Chaturvedi	in Rodent Models of		
	RK, Yadav MR.	Alzheimer's Disease.		
17	Tiwari SK, Agarwal S,		Mol. Neurobiol. 2015	IF = 54
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27	Dwivedi SK, Singh N,	Bile acid receptor agonist	Mol. Endocrinol.	I.F =5.7
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- Mishra D., Tiwari SK., Agarwal S., Tripathi D. and Chaturvedi RK. Effect of pesticide carbofuran on regulatory dynamics of neurogenesis. Journal of Neurochemistry, 2011, 118 (S1), 117.
- 2) Tiwari SK, Mishra D, **Chaturvedi RK**. Bis-phenol A decreases the neuronal differentiation through inhibition of Wnt pathway. Journal of Neurochemistry. 2010, 115 (S1) 43.
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<u>Invited lecture(s) delivered in India / abroad and chaired scientific</u> <u>International Conference Symposium</u>

- Invited guest speaker in "8th NIPER (RBL)-CSIR-CDRI Symposium" on "Current Trends in Medicinal Chemistry and Pharmaceutical Sciences in Drug Discovery" during 18-19 March, 2016 at National Institute of Pharmaceutical Education and Research (NIPER), Raebareli.
- Keynote speaker at the one day symposium "Emerging Trends in Biomedical Sciences" on 27th January, 2016, organized by Symbiosis School of Biomedical Sciences (SSBS), at Symbiosis International University (SIU), Pune.
- 3. Invited key note speaker in "Current Trends in Life Sciences" Lecture Series sponsored by DBT-BU-IPLS Programme during 6th April 2015 at Department of Microbiology, Barkattulah University, Bhopal.
- 4. Invited lecture in National Conference on Ethnopharmacology and Biotechnology in Drug Development: Prospects and challenges 14-15 Nov 2014 at Bundelkhand University, Jhansi.
- 5. Invited lecture in 6th NIPER (RBL)-CSIR-CDRI Symposium on Current Scenario in Drug Discovery & Development during 20-22 Fab 2014 at CSIR-Central Drug Research Institute, Lucknow.
- 6. Invited Lecture in International Conference on Advances in Free Radicals, Redox Signaling and Translational Antioxidants Research & XII Annual Meeting of the Society for Free Radical Research-India during 30th Jan-1st Fab 2013 at CSIR-IITR, Lucknow.
- 7. Invited guest speaker in "SNCI-CON, 2014" & 28th Annual Meeting of the Society for Neurochemistry, India, at Sri Ramachandra University, Chennai.
- 8. Young Investigator Travel Award Lecture in Young Investigator Colloquia of International Society of Neurochemistry ISN-ASN Biennial Meeting, Cancun, Mexico-2013.
- 9. Invited Lecture in 83rd Annual Session of the National Academy of Sciences, India and Symposium on Space for Human Welfare during 5-7 Dec at Goa University, Goa.
- 10. Invited Lecture in Indian Science Congress, Gauri Ganguly Memorial Young Scientist Session during 5-8 January 2013 at Kolkata.
- 11. Invited Lecture in XXXII Annual Conference of Society of Toxicology (STOX),India & International Symposium on New Frontiers in Toxicology during 5-7 December 2012 at CSIR-IITR, Lucknow.
- 12. Invited Speaker in CSIR-Foundation day celebrations, Young Scientist Session during 26th Sept 2010 at CSIR-CIMAP, Lucknow.
- 13. Young Investigator Travel Award lecture in 10th World Congress of Biological Psychiatry, during 29 May-03 Jun 2011 at Prague, Czech Republic.
- 14. Invited speaker in Second National Conference on Emerging Areas in Biomedical Sciences, 27 March 2010 at Institute of Biomedical Sciences, Bundelkhand University, Jhansi.
- 15. Session Chair in Second National Conference on Emerging Areas in Biomedical Sciences, 27 March 2010 at Institute of Biomedical Sciences, Bundelkhand University, Jhansi.
- 16. Invited speaker in National Seminar on Biotechnology & Health during 19-20 March 2010 at ITM University, Gwalior.

Editorial Board Member:

- 1) Research and Reviews: Journal of Toxicology
- 2) International Journal of Neuropathology
- 3) Advances in Parkinson's Disease
- 4) BioMed Research International (I.F 2.8)
- 5) Evidence Based Complementary and Alternative Medicine (I.F 4.78)

- 6) Neural Plasticity (I.F 2.864)
- 7) Journal of Chemical Neuroanatomy (I.F 2.9)

Member of review committee of International journals:

- 1. Nutritional Neuroscience- An International Journal on Nutrition, Diet and Nervous system.
- 2. Progress in Neuro-Psychopharmacology and Biological Psychiatry
- 3. Neurodegeneration
- 4. Neuroscience Letters
- 5. Stem Cells
- 6. Neurobiology of Disease
- 7. Neurobiology of Aging
- 8. Human Experimental Toxicology
- 9. Toxicology Letters
- 10. Molecular and Cellular Medicine

Member of International/National Societies & Academies:

- * Elected member of National Academy of Sciences, Allahabad, India (NASI)-MNASc
- ✤ Society for Neuroscience (SFN)-USA
- New York Academy of Sciences (NYAS)-USA
- ✤ International Society of Neurochemistry (ISN)
- International Society of Developmental Neuroscience (ISDN)
- International Neurotoxicology association (INA)
- International Society of Autonomic Nervous System (ISAN)
- International Brain Research Organization (IBRO)
- Indian Academy of Neurosciences (IAN)
- Life member of Society of Immunology and Immunopathology –INDIA
- Molecular and Cellular Cognition Society (MCCS)
- ✤ Asian Pacific Society of Neurochemistry (APSN)

Other information:

Research paper Published	: 52
Papers presented conferences/symposia	: 24
Invited Lectures in Workshops and Symposia	: 10
Students supervised:	

M Sc : 24 **M Tech.** : 2 **M.Pharma** : 2

PhD : Two

: Two (Awarded)

: Six are currently working for PhD

Research Fellows presently working:

SRF (CSIR): TwoSRF (DBT): OneSRF (ICMR): OneJRF (UGC: OneProject Fellow: Three

Extramural Grants/CSIR Network Projects completed/ongoing:

S No	Title of Project	Project Category	Participating Agencies	Status	Your Role as defined
1	PGC-1α/SIRTmediatedregulationofneuralstemcellsdifferentiation(Neurogenesis)inAlzheimer'sdisease:Prospectsfor"BrainSelfRepair"Kerner"	Young Scientist Grant	Lady Tata Memorial Trust-UK	Ongoing	Principal Investigator
2	Investigative toxicology-New paradigms" (SIP-08) activity:- "Cypermethrin mediated effects on the regulatory dynamics of neurogenesis in the brain: Cellular and molecular mechanism"	Supra- Institutional, SIP-08	CSIR-IITR and other CSIR labs	Completed	Principal Investigator
3	DST FAST Track Project Grant:- "Cellular and molecular mechanism (s) of pesticide mediated alterations in the regulatory dynamics of neurogenesis (neural stem cell proliferation, migration and differentiation) in the rat brain."	DST- Grant- in- Aid Project, Young Scientist Grant	CSIR-IITR	Completed	Principal Investigator
4	CSIR-Network Project:- "Establishment of neural stem cells as an <i>in vitro</i> tool to study neurotoxic potential"	CSIR- Network project NWP- 17	CSIR-IITR and other CSIR labs	Completed	Principal Investigator
5	ICMR Project Grant:- "Effects of xenoestrogen Bisphenol-A on the neural stem cell proliferation, migration and differentiation (neurogenesis): Cellular and molecular mechanism"	ICMR-Grant Aided Project	CSIR-IITR	Completed	Principal Investigator
6	DBT Project Grant:- "Studies on Alterations in Molecular events involved in developmental neurotoxicity of cypermethrin"	DBT-Grant- in- Aid Project	CSIR-IITR	Completed	Co-PI
7	Department of Environment and Forests (DoEF) Grant:- "Assessment of stabilizer Bisphenol A in plastic baby feeding bottles leachates"	DoEF- Grant- in- Aid Project	CSIR-IITR	Completed	Co-PI
8	CSIR-Network Project:-	CSIR-	CSIR-IITR	Completed	Principal

	"Assessment of neuroprotective potential of novel drug candidates in models of neurodegenerative disorders"	Network project	and other CSIR labs		Investigator
9	CSIR-NetworkProject:-"Role of Omi/HtrA2 proteasefamilyproteinsfamilyproteinsofpathogenesisofenvironmental toxinsinducedParkinson's disease	CSIR- Network project – MiND	CSIR-IITR and other CSIR labs	Ongoing (Till March 2017)	Principal Investigator
10	CSIR-Network Project:- "Cellular and molecular mechanisms of Xenoestrogen Bisphenol-A mediated effects on autophagy and mitochondrial dynamics in the rat brain"	CSIR- Network project – InDEPTH	CSIR-IITR and other CSIR labs	Completed	Principal Investigator
11	CSIR-Network Project:- "Role of Small Molecules / natural products in the restoration of endogenous neurogenesis"	CSIR- Network project – MedCHEM	CSIR-IITR and other CSIR labs	Completed	Principal Investigator and IITR Co- ordinator

Certified that above information is correct.

Date: Place:





वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद् COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH mail: director@iitr.res.in

CSIR-IITR, Lucknow is the only multidisciplinary research institute in the field of toxicology in South East Asia with the motto:

"Safety to environment & health and service to industry".

R&D Areas

- Food, Drug & Chemical Toxicology
- Environmental Toxicology
- Regulatory Toxicology
- Nanotherapeutics & Nanomaterial Toxicology
- Systems Toxicology & Health Risk Assessment

Services Available

- GLP certified pre-clinical toxicity studies
- Safety / toxicity evaluation of New Chemical Entities
- Air, Soil & water quality monitoring and assessment
- Analytical services
- Information on chemicals / products
- Consultancy
- Collaborative & Contract Research

Recognitions

- Scientific & Industrial Research Organizations (SIROs)
- •UP Pollution Control Board (Water & Air)
- Indian Factories Act (Drinking Water)
- Bureau of Indian Standards (Synthetic Detergents)
- Food Safety & Standards Authority of India (FSSAI)

Technologies Developed / Available

- Water Analysis Kit
- Mobile Laboratory Van for on spot water quality analysis
- Argemone Detection Kit for rapid screening of Argemone in mustard oil
- CD-Strip for detection of butter yellow, an adulterant in edible oils
- Arsenic Detection Kit



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Accredited by NABL for chemical and biological testing Toxicity Testing: GLP Test Facility

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