

Curriculum Vitae

of

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



सीएसआईआर-भारतीय विषविज्ञान अनुसंधान संस्थान
CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH
विषविज्ञान भवन, 31, महात्मा गाँधी मार्ग, पोस्ट बाक्स न० 80, लखनऊ-226001, उ.प्र., भारत
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CURRICULUM VITAE

Dr Rajnish Kumar Chaturvedi

Senior Principal Scientist

Systems Toxicology & Health Risk Assessment Group

Professor, Biological Sciences

Academy of Scientific and Innovative Research (AcSIR)

(An Institution of National Importance by an Act of Parliament)

CSIR-Indian Institute of Toxicology Research

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1.	Name	Dr. Rajnish Kumar Chaturvedi			
2.	Date of Birth	August 1, 1978			
3.	Present designation:	Senior Principal Scientist and Professor			
4.	Addresses with Tel/Fax/E-Mail:	Developmental Toxicology Laboratory Systems Toxicology and Health Risk Assessment Group CSIR-Indian Institute of Toxicology Research, Academy of Scientific and Innovative Research (AcSIR) Vishvigyan Bhawan, 31 MG Marg, P.O. Box 80, Lucknow-226001 (UP) India Voice: 0522- 2627586 Ext: 255; Cell No. 09450418445 FAX: 0522-2628227 Email: rajnish@iitr.res.in , itrcrajnish@gmail.com			
5.	Academic Qualifications:				
S. No.	Degree	Subject	Class /CGPA	Year	University
1.	10 th	Biology Group	1 st	1993	MP Board, Bhopal
2.	12 th	Biology Group	1 st	1995	MP Board, Bhopal
3.	B.Sc	Botany Chemistry Environmental Science	I st	1998	Jiwaji University, Gwalior, M.P
4.	M.Sc	Microbiology	I st	2000	Cancer Hospital and Research Institute, Jiwaji University, Gwalior, M.P
5.	Ph.D*	Microbiology	Awarded	2006	Jiwaji University, Gwalior, M.P and CSIR-IITR, Lucknow
6.	D.Sc. (Pursuing)	Science	Enrolled	2015	Barkatullah University, Bhopal,MP

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

Research Positions held (in chronological order):

S. No.	Period	Place of Employment	Designation	Scale of pay (Rs.)
1.	Oct 2019 - Till Date	CSIR-Indian Institute of Toxicology Research, Lucknow-India	Senior Principal Scientist Professor-AcSIR	Pay Matrix-13A (131100-216600) Grade Pay: 8900
2.	Oct 2014 - Oct 2019	CSIR-Indian Institute of Toxicology Research, Lucknow-India	Principal Scientist (Got Merit Promotion) Associate Professor-AcSIR	Pay Matrix-13 (123100-215900) Pay Scale (37400-67000) Grade Pay: 8700
3.	3 rd Oct 2011-till date	CSIR-Indian Institute of Toxicology Research, Lucknow (UP)	Sr. Scientist (Got merit promotion) Assistant Professor-AcSIR	Pay band-III (15600-39100) Grade Pay: 7600
4.	3 rd Oct 2008-2 nd Oct 2011	CSIR-Indian Institute of Toxicology Research, Lucknow	Scientist C	Pay band-III (15600-39100) Grade Pay: 6600
5.	Sept 2006-Sept 2008	Weill Cornell Medical College, Cornell University, New York City, USA	Postdoctoral Fellow	USD 37000
6.	August 2004 - July 2006	CSIR-Indian Institute of Toxicology Research, Lucknow	CSIR-Senior Research Fellow	Rs 8000/+HRA
7.	July 2001-July 2004	CSIR-Indian Institute of Toxicology Research, Lucknow	Project Fellow	Rs 5000/-

Academic Positions held:

1.	Oct. 2011	Oct 2015	Academy of Scientific and Innovative Research (AcSIR)-An Institution of National Importance by an Act of Parliament, CSIR-Indian Institute of Toxicology Research, Lucknow (UP)	Assistant Professor
2.	Oct. 2015	Oct 2019	Academy of Scientific and Innovative Research (AcSIR)-An Institution of National Importance by an Act of Parliament, CSIR-Indian Institute of Toxicology Research, Lucknow (UP)	Associate Professor

Field of specialization: Molecular Biotechnology, Molecular Neurotoxicology, Stem Cell Neurobiology and regenerative medicine and Nanomedicine

R&D Activities

- 1) 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".

Title of the DSc Thesis

"Cellular and Molecular Mechanism of Omi/HtrA2 role in Pathogenesis of environmental toxins induced Parkinson's Disease"

Awards/honors received

No.	Award	Year	Agency	Remarks
1.	Vigyan Ratna Award	2016	U.P. Council of Science and Technology	The award carries a scroll of honor, Memento, and cash prize of Rs. 250,000.
2.	DBT National Bioscience Award	2016	Department of Biotechnology, India	The award carries Rs15 lakhs research grant and Rs 2 lakhs cash.
3.	OPPI Young Scientist Award	2016	Organizers of Pharmaceutical Producers of India (OPPI)	The award carries a scroll of honor, Memento, and cash prize of Rs. 1,00,000.
4.	Shri Om Prakash Sharma Young Scientist Award in Biomedical Research	2016	Indian Academy of Biomedical Sciences	The award carries a medal, citation and cash prize of Rs. 5,000.
5.	NASI-Scopus Young Scientist Award in the area of Medicine.	2015	National Academy of Sciences-India and Elsevier-India	The award carries a scroll of honor, Memento, and cash prize of Rs. 75,000.
6.	Lady Tata Memorial Young Scientist Award in the area of Medical Sciences.	2014	Lady Tata Memorial Trust-United Kingdom	The award carries Rs 25 lakhs research grant and Rs 25,000/month cash award for three years.
7.	National Academy of Sciences (NASI) Young Scientist Award in the area of Biochemistry, Biotechnology and Bio-Medical Sciences.	2013	National Academy of Sciences, Allahabad-India	The award carries a scroll of honor, Memento, and cash prize of Rs. 25,000.
8.	Indian National Science Academy (INSA) Young Scientist Award in the area of Health Sciences.	2012	Indian National Science Academy-New Delhi	The award carries cash prize of Rs. 25,000 and honorarium Rs 7,500/month till 45 years by CSIR.
9.	Gauri Ganguly Memorial Young Scientist Award of Biomedical Sciences.	2012	Indian Science Congress Association (ISCA), Kolkata	The award carries cash prize of Rs. 5,000 and Memento.
10	Lucknow Youth Icons Award in the field of Science.	2009	Social Environmental & Educational Development Society	-
11.	U.P. Council of Science and Technology Young Scientist Award	2006	U.P. Council of Science and Technology	The award carries a scroll of honor, Memento, and cash prize of Rs. 25,000.
12.	First place in "Parkinson's Disease Quiz Contest	2005	Novartis Pharma	During 16 th International Congress on Parkinson's disease, 5 -9 June 2005, at Berlin-Germany.
13.	Best paper award	2004	Federation of Asian-Oceanic Neuroscience Societies (FAONS)	During 2nd FAONS Symposium, 17-19 May, 2004, at Tehran, Iran.
14.	Best paper award	2003	National Brain Research Centre (NBRC)	International conference on Theoretical Neurobiology, 24-27 Feb 2003 at NBRC, New Delhi.
15.	Best paper award	2002	National Brain Research Centre	During INDO-US colloquium on Brain Research, 10-12 Jan 2002 at New Delhi

Fellowships received/Overseas Visits

S. No	Duration		Institute and the country of visit	Purpose of visit
	From DD/MM/YY	To DD/MM/YY		
1	22 nd April 2019	24 th April 2019	Boston, USA	To deliver an invited talk in Nanoworld Conference Boston-2019.
2	23 th April 2018	25 th April 2018	San Francisco, USA	To deliver an invited talk in Nanoworld conference-2018.
3	20 th August 2017	24 th August 2017	Paris, France	To deliver an invited talk in International Society of Neurochemistry (ISN) meeting. Received travel fellowship from ISN.
4	04 th Feb 2013	08 th Feb 2013	Columbus, USA	Received Travel Award Fellowship to attend Workshop 3: Disease
5	20 th May 2013	24 th May 2013	Cancun, Mexico	Young Investigator Travel Award Fellowship to attend ISN-ASN meeting
6	29 th May 2011	03 rd June 2011	Prague, Czech Republic	To present research work at 10th World Congress of Biological Psychiatry
7	31 st August 2006	30 th Sept 2008	New York, USA	For Post Doctoral Research Fellowship
8	8 th July 2006	12 th July 2006	Vienna, Austria	Recipient of “Young Investigator Travel Award Fellowship” of Federation of European Neuroscience Society (FENS) to attend the “5 th FENS Forum”
9	2 nd July 2006	5 th July 2006	Singapore University, Singapore	Received “Travel Award Fellowship” of Asia Pacific Society of Neurochemistry (APSN) to attend the “7 th Biennial APSN meeting”
10	21 st August 2005	26 th August 2005	Innsbruck, Austria	Received “Travel Award Fellowship” of ISN to attend the “20 th Biennial ISN-ESN meeting”
11	5 th June 2005	9 th June 2005	Berlin, Germany	Received “Asian Travel Award Fellowship” to attend the 16 th International Congress on Parkinson’s disease and Related Disorders
12	3 rd Feb 2004	7 th Feb 2004	Avignon, France	Recipient of “Young Investigator Travel Award Fellowship” of ISN to attend the First ISN Special Neurochemistry Conference
13	17 th May 2004	19 th May 2004	Tehran, Iran	Recipient of “Travel Award Fellowship” of FAONS to attend the “2 nd Federation of Asian-Oceanic Neuroscience Societies (FAONS) Symposium”
14	3 rd Feb 2004	7 th Feb 2004	Hongkong	Received “Travel Award Fellowship” of ISN to attend ISN-APSN 6 th Biennial Joint Meeting
15	27 th Nov 2002	30 th Nov 2002	Bangkok, Thailand	Received “Young Investigator Travel Award Fellowship” of ISN

Selected Publications: 10 most significant publications as Corresponding Author

S No	Authors	Title	Journal/Year/Vol/Pages	Impact factor/citation
1.	Tandon A, Singh SJ, Gupta M, Singh N, Shankar J, Arjaria N, Goyal S, Chaturvedi RK	Notch pathway up-regulation via curcumin mitigates bisphenol-A (BPA) induced alterations in hippocampal oligodendrogenesis	J Hazard Mater. 2020 Jun 15;392:122052. (Corresponding Author)	I.F=14.224
2.	Seth B, Yadav A, Agarwal S, Tiwari SK, Chaturvedi RK	Inhibition of the transforming growth factor- β /SMAD cascade mitigates the anti-neurogenic effects of the carbamate pesticide carbofuran	J Biol Chem. 2017 Nov 24;292(47):19423-19440 (Corresponding Author)	I.F=5.157
3.	Agarwal S, Yadav A, Tiwari SK, Seth B, Chauhan LK, Khare P, Ray RS, Chaturvedi RK.	Dynamin-related protein 1 inhibition mitigates Bisphenol-A mediated alterations in mitochondrial dynamics and neural stem cells proliferation and differentiation.	J Biol Chem. 2016 Jul 29;291(31):15923-39. (Corresponding Author) This article has been selected by F1000 member and is most downloaded and read article in JBC Neurobiology Affinity Group.	I.F=5.157 Citation=1
4.	Tiwari SK, Seth B, Agarwal S, Yadav A, Karmakar M, Gupta SK, Choubey V, Sharma A, Chaturvedi RK	Ethosuximide induces hippocampal neurogenesis and reverses cognitive deficits in amyloid- β toxin induced Alzheimer's rat model <i>via</i> PI3K/Akt/Wnt/ β -catenin pathway.	J Biol Chem. 2015 Nov 20;290(47):28540-58 (Corresponding Author)	I.F=5.157 Citation=12
5.	Tiwari SK, Agarwal S, Tripathi A, Chaturvedi RK	Bisphenol-A Mediated Inhibition of Hippocampal Neurogenesis Attenuated by Curcumin <i>via</i> Canonical Wnt Pathway.	Mol. Neurobiol. 2015 May 12 (Corresponding Author)	I.F =5.590 Citation=10
6.	Pahuja R, Seth K, Shukla A, Shukla RK, Bhatnagar P, Chauhan LK, Saxena PN, Arun J, Patel DK, Singh SP, Shukla R, Khanna VK, Kumar P, Chaturvedi RK, Gupta KC.	Trans-Blood Brain Barrier Delivery of Dopamine Loaded Nanoparticles Reverses Functional Deficits in Parkinsonian Rats.	ACS NANO. 2015, 26;9 (5):4850-71 (Corresponding Author) This article is selected for ACS Editor's choice and is most downloaded and read article.	I.F =18.03 Citation=20

This article has been featured and covered at-

- 1) http://www.indiamedicaltimes.com/2015/04/23/indian-scientists-develop-new-drug-for-parkinsons/?fb_action_ids=874400742580480&fb_action_types=og.comments
- 2) <http://www.thehindu.com/todays-paper/tp-in-school/indian-scientists-develop-new-drug-for-parkinson-s/article7135370.ece>
- 3) <http://gadgets.ndtv.com/science/news/new-nanoparticle-treatment-aims-to-reverse-parkinsons-disease-symptoms-684686>
- 4) http://zeenews.india.com/news/health/diseases-conditions/indian-scientists-develop-new-drug-for-parkinsons_1583501.html
- 5) <http://www.medicalnewstoday.com/articles/292848.php>
- 6) <http://health.economictimes.indiatimes.com/news/industry/indian-scientists-develop-new-drug-for-parkinsons/47024331>
- 7) <http://www.acs.org/content/acs/en/pressroom/presspacs/2015/acs-presspac-april-22-2015/nanoparticle-drug-reverses-parkinsons-like-symptoms-in-rats.html>
- 8) <http://phys.org/news/2015-04-nanoparticle-drug-reverses-parkinson-like-symptoms.html>
- 9) <http://www.sciencedaily.com/releases/2015/04/150422121900.htm>
- 10) <http://www.nanowerk.com/nanotechnology-news/newsid=39845.php>
- 11) <http://www.chemeurope.com/en/news/152595/nanoparticle-drug-reverses-parkinson-s-like-symptoms-in-rats.html>
- 12) <http://www.medindia.net/news/new-drug-for-parkinsons-condition-discovered-by-indian-researchers-148537-1.htm>
- 13) <https://genesisnanotech.wordpress.com/tag/nano-drug-therapies/>
- 14) <http://www.azonano.com/news.aspx?newsID=32618>
- 15) http://www.nanotech-now.com/news.cgi?story_id=51354
- 16) <http://www.asianscientist.com/2015/04/in-the-lab/nanoparticle-drug-reverses-parkinsons-like-symptoms-rats/>
- 17) <http://www.prdassociation.org/news/34747/nanoparticles-that-ferry-dopamine-to-the-brain-offer-potential-parkinsons-treatment.html>
- 18) <http://news.list-online.com/new-nanoparticle-treatment-aims-to-reverse-parkinsons-disease-symptoms-ndtv/>
- 19) <http://news.list-online.com/new-nanoparticle-treatment-aims-to-reverse-parkinsons-disease-symptoms-ndtv/>
- 20) <http://canaranews.com/news/health/Indian-scientists-develop-new-drug-for-Parkinsons/>
- 21) http://ianslive.in/index.php?param=news/Indian_scientists_develop_new_drug_for_Parkinsons-473946/Health%20&%20Travel/35
- 22) <https://connect.innovateuk.org/web/healthcare/article-view/-/blogs/nanoparticle-drug-reverses-parkinson-s-like-symptoms-in-rats>
- 23) <http://dailypulse.in/article.php?aid=238>
- 24) http://app.newsgetter.com/go/?ng_uid=2375498A0105201506B88743698&referrer=app&destination=webapp

7.	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 =18.03 Citation=82
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This article has been featured and covered by-Nature India:

<http://www.nature.com/nindia/2013/131212/full/nindia.2013.167.html>

Chemical and Engineering News, USA (C&EN):

<http://cen.acs.org/articles/91/web/2013/12/Nanoparticles-Loaded-Curcumin-Boost-Memory.html>

Chemistry views, USA, Wiley Publisher

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-in-alzheimer%E2%80%99s-animal-model>

8.	Tiwari SK, Agarwal S, Seth B, Yadav A, Ray RS, Mishra VN, Chaturvedi RK	Inhibitory Effects of Bisphenol-A on Neural Stem Cells Proliferation and Differentiation in the Rat Brain Are Dependent on Wnt/ β -Catenin Pathway	Mol. Neurobiol. 2015 Dec;52(3):1735-57 (Corresponding Author)	I.F =5.590 Citation=14
9.	Tiwari SK, Agarwal S, Chauhan LKS, Mishra VN, and Chaturvedi RK	Bisphenol-A impairs myelination potential during development in the hippocampus of the rat brain.	Mol. Neurobiol. 2015 Jun;51(3):1395-416. (Corresponding Author)	I.F =5.590 Citation=14
10.	Chaturvedi RK , Hennessey T, Johri A, Tiwari S, Mishra D, Agarwal S, Kim YS, Beal MF	Transducer of regulated CREB-binding proteins (TORCs) transcription and function is impaired in Huntington's disease	Human Molecular Genetics. 21(15):3474-88, 2012 (Corresponding Author)	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 =87 Citation=15

List of all peer reviewed international publications

Peer reviewed publications	(2003-2023):
Total papers published	: 65
Total Citations	: 5110
H Index	: 36
I-10 index	: 55
Cumulative impact factor	: 310
Average impact factor/paper	: 5.2
Corresponding author paper/reviews	: 26

S. No	Authors	Title	Journal/Year/Vol/ Page	Impact factor/ citation
1.	Singh SJ, Tandon A, Phoolmala, Srivastava T, Singh N, Goyal S, Priya S, Chaturvedi RK.	Bisphenol-A (BPA) Impairs Hippocampal Neurogenesis via Inhibiting Regulation of the Ubiquitin Proteasomal System	Mol Neurobiol. 2023 Feb 25. doi: 10.1007/s12035-023-03249-3.	I.F 5.59
2.	Goyal S , Tiwari S, Seth B, Phoolmala, Tandon A, Kumar Chaturvedi R.	Bisphenol-A Mediated Impaired DRP1-GFER Axis and Cognition Restored by PGC-1 α Upregulation Through Nicotinamide in the Rat Brain Hippocampus	Mol Neurobiol. 2022 Aug;59(8):4761-4775.	I.F 5.59
3.	Goyal S, Seth B, Chaturvedi RK.	Polyphenols and Stem Cells for Neuroregeneration in Parkinson's Disease and Amyotrophic Lateral Sclerosis	Curr Pharm Des. 2022;28(10):806-828.	I.F 2.20
4.	Goyal S, Chaturvedi RK.	Mitochondrial Protein Import Dysfunction in Pathogenesis of Neurodegenerative Diseases.	Mol Neurobiol. 2021 Apr;58(4):1418-1437. (Corresponding Author)	I.F 5.59
5.	Srivastava T, Raj R, Dubey A, Kumar D, Chaturvedi RK , Sharma SK, Priya S	Fast kinetics of environmentally induced α -synuclein aggregation mediated by structural alteration in NAC region and result in structure dependent cytotoxicity.	Sci Rep. 2020 Oct 27;10(1):18412.	I.F 4.996
6	Tandon A, Singh SJ, Chaturvedi RK.	Nanomedicine against Alzheimer's and Parkinson's disease.	Curr Pharm Des. 2020 Oct 21. doi: 10.2174/1381612826666201021140904. (Corresponding Author)	I.F 2.208
7	Mishra VN, Kumari N, Pathak A, Chaturvedi RK , Gupta AK, Chaurasia RN.	Possible Role for Bacteriophages in the Treatment of SARS-CoV-2 Infection.	Int J Microbiol. 2020 Sep 19;2020:8844963.	I.F 3.113 Citation=2
8.	Yadav A, Tandon A, Seth B, Goyal S, Singh SJ, Tiwari SK, Agarwal S, Nair S, Chaturvedi RK.	Cypermethrin Impairs Hippocampal Neurogenesis and Cognitive Functions by Altering Neural Fate Decisions in the Rat Brain.	Mol Neurobiol. 2021 Jan;58(1):263-280. (Corresponding Author)	I.F 5.59 Citation=4

9.	Yadav A, Seth B, Chaturvedi RK.	Brain Organoids: Tiny Mirrors of Human Neurodevelopment and Neurological Disorders.	Neuroscientist. 2020 Jul 29;107385842094319 2. (Corresponding Author)	I.F 7.519 Citation=2
10.	Seth B, Yadav A, Tandon A, Shankar J, Chaturvedi RK.	Carbofuran hampers oligodendrocytes development leading to impaired myelination in the hippocampus of rat brain.	Neurotoxicology. 2019 Jan;70:161-179. (Corresponding Author)	I.F =4.037 Citation=12
11.	Tandon A, Singh SJ, Gupta M, Singh N, Shankar J, Arjaria N, Goyal S, Chaturvedi RK	Notch pathway up-regulation via curcumin mitigates bisphenol-A (BPA) induced alterations in hippocampal oligodendrogenesis	J Hazard Mater. 2020 Jun 15;392:122052. (Corresponding Author)	I.F=14.226 Citation=7
12.	Singh S, Mishra A, Mohanbhai SJ, Tiwari V, Chaturvedi RK , Khurana S, Shukla S.	Axin-2 knockdown promote mitochondrial biogenesis and dopaminergic neurogenesis by regulating Wnt/ β -catenin signaling in rat model of Parkinson's disease.	Free Radic Biol Med. 2018 Dec;129:73-87.	I.F =8.101 Citation= 21
13.	Tandon A, Singh SJ, Chaturvedi RK.	Stem Cells as Potential Targets of Polyphenols in Multiple Sclerosis and Alzheimer's Disease.	Biomed Res Int. 2018 Jul 12;2018:1483791. (Corresponding Author)	I.F =3.411 Citation=9
14.	Bansal R, Seth B, Tiwari S, Jahan S, Kumari M, Pant AB, Chaturvedi RK , Kumar P, Gupta KC.	Hexadecylated linear PEI self-assembled nanostructures as efficient vectors for neuronal gene delivery.	Drug Deliv Transl Res. 2018 Apr 18. doi: 10.1007/s13346-018-0517-5.	I.F =5.80 Citation=4
15.	Mandal P, Tewari P, Kumar S, Yadav S, Ayanur A, Chaturvedi RK , Das M, Tripathi A.	Argemone oil, an edible oil adulterant, induces systemic immunosuppression in Balb/c mice in an oral 28 days repeated dose toxicity study.	Chem Biol Interact. 2018 May 1;287:57-69.	I.F =3.407 Citation=awaited
16.	Seth B, Yadav A, Agarwal S, Tiwari SK, Chaturvedi RK.	Inhibition of the transforming growth factor- β /SMAD cascade mitigates the anti-neurogenic effects of the carbamate pesticide carbofuran.	J Biol Chem. 2017 Nov 4;292(47):19423-19440. (Corresponding Author)	I.F=5.486 Citation=16
17	Agarwal S, Yadav A, Chaturvedi RK.	Peroxisome proliferator-activated receptors (PPARs) as therapeutic target in neurodegenerative disorders.	Biochem Biophys Res Commun. 2017 Feb 19;483(4):1166-1177. (Corresponding Author)	I.F=3.5 Citation=105
18	Agarwal S, Yadav A, Tiwari SK, Seth B, Chauhan LK, Khare P, Ray RS, Chaturvedi RK.	Dynammin-related protein 1 inhibition mitigates Bisphenol-A mediated alterations in mitochondrial dynamics and neural stem cells proliferation and differentiation.	J Biol Chem. 2016 Jul 29;291(31):15923-39. (Corresponding Author)	I.F=5.486 Citation=50
19.	Chopra D, Ray L, Dwivedi A, Tiwari SK, Singh J, Singh KP, Kushwaha HN, Jahan S, Pandey A, Gupta SK, Chaturvedi RK , Pant AB, Ray RS, Gupta KC	Photoprotective efficiency of PLGA-curcumin nanoparticles versus curcumin through the involvement of ERK/AKT pathway under ambient UV-R exposure in HaCaT cell line.	Biomaterials. 2016, 11;84:25-41.	I.F.=15.3 Citation=49

20.	Goyal S, Amar SK, Dwivedi A, Mujtaba SF, Kushwaha HN, Chopra D, Pal MK, Singh D, Chaturvedi RK , Ray RS	Photosensitized 2-amino-3-hydroxypyridine-induced mitochondrial apoptosis via Smac/DIABLO in human skin cells.	Toxicol Appl Pharmacol. 2016, 2;297:12-21.	I.F.=4.219 Citation=7
21.	Srivastav AK, Mujtaba SF, Dwivedi A, Amar SK, Goyal S, Verma A, Kushwaha HN, Chaturvedi RK , Ray RS	Photosensitized rose Bengal-induced phototoxicity on human melanoma cell line under natural sunlight exposure.	J Photochem Photobiol B. 2016 Mar; 156:87-99	I.F.=4.291 Citation=14
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- 32) Ahmad M, Salim S, Ahmad AS, Yousuf S, Khan BZ, Ishrat T, **Chaturvedi RK**, Agrawal AK, and Islam F. *Nardostachys jatamansi* protects against Parkinson's disease: A study using 6-hydroxydopamine rat model. **Annals of Neuroscience**, 2003, Vol 10, 32.

Invited lecture(s) delivered in India / abroad and chaired scientific International Conference Symposium

1. Invited Jury Member in "Young Scientist Conclave" during India International Science Festival (IISF-2019) during 5th-8th October, 2019 at Biswa Bangla Convention Center, Kolkata.
2. Invited guest speaker in International Conference on "Frontiers in Neuroscience and Neurochemistry: Dynamic Challenges and Approaches" along with 33rd Annual Meeting of Society for Neurochemistry India (SNCI) during 10th-12th October, 2019 at Jamia Hamdard University, New Delhi.
3. Invited featured speaker in "**Nanoworld Conference Boston-2019**, during 22nd 24th April, 2019, held at **Boston, USA**.
4. Invited Speaker in International Conference on "Neurochemistry and Neuropharmacology: From Bench to Bedside" along with 32nd Annual Meeting of SNCI on theme "Neurochemistry and Cognitive Research in Promoting Healthy Brain" during 14th-16th March, 2019 at JSS College of Pharmacy, JSS Academy of Higher Education & Research, Mysuru.
5. Invited Speaker in National Seminar RAABB-on theme "Recent Advances in Applied Biochemistry and Biotechnology" on 9th March, 2019 at Department of Biochemistry, Lucknow University, Lucknow.
6. Invited Speaker in Central Zone ACBICON-2018 on theme "Recent Advancements in Molecular Diagnostics" during 21st-22nd July, 2018 at Department of Biochemistry, KGMU, Lucknow.

7. Invited Speaker in Health Conclave-2018 on theme “Transforming Indian Health” during 5-20th Oct, 2018 at India International Science Festival, KGMU, Lucknow.
8. Invited Quiz Jury Member in Health Conclave-2018 on theme “Transforming Indian Health” during 5-20th Oct, 2018 at India International Science Festival, KGMU, Lucknow.
9. Invited featured speaker in Nanoworld Conference during 23rd-25th April, 2018, held at **San Francisco, USA**.
10. Invited guest speaker in 10th NIPER Raebareli Conference during 27th-28th March, 2018, at 10th NIPER Raebareli.
11. Invited guest speaker in 16th Annual meeting of Society for Free Radical Research in India (SFRRRI-2018) and International Conference on “Translational Research in Free Radicals, Micronutrient Antioxidants and Functional Foods” during 28th Feb-1st March, 2018, at Aryakul College of Pharmacy & Research, Lucknow.
12. Invited guest speaker in National Conference on “National Conference on Renewable energy: Present and future perspective in Research and Industries” during 28th Feb-1st March, 2018, at Aryakul College of Pharmacy & Research, Lucknow.
13. Invited guest speaker in 31st Annual National Conference of Society for Neurochemistry, India and National Conference on “Advances in Research on Aging and Neurological Disorders” during 20th-22nd Sept, 2017, at Banaras Hindu University, Varanasi.
14. Invited guest speaker in ISN-ESN Biennial meeting of International Society of Neurochemistry (ISN) 20-24th August, 2017 at **Paris, France**.
15. Invited guest speaker in 44th National Conference of Association of Clinical Biochemists of India on “Emerging Trends in Clinical Biochemistry: From Evidence Based Medicine to Molecular Medicine” during 3rd Dec-6th Dec, 2017, at King George Medical University, Lucknow.
16. Invited guest speaker in “10th International Undergraduate Medical Students Research Conference of INFORMER” on “Bench to Bedside: Translational Medicine” during 13-16 July, 2016 at Era’s Lucknow Medical College and Hospital, Lucknow.
17. Invited guest speaker in “Organization of Pharmaceutical Producers of India Annual Meeting-21st October, 2016” at Taj Stand Hotel, Mumbai.
18. 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.
19. 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.
20. 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.
21. Invited lecture in National Conference on Ethnopharmacology and Biotechnology in Drug Development: Prospects and challenges 14-15 Nov 2014 at Bundelkhand University, Jhansi.
22. Invited lecture in 6th NIPER (RBL)-CSIR-CDRI Symposium on Current Scenario in Drug Discovery & Development during 20-22 Feb 2014 at CSIR-Central Drug Research Institute, Lucknow.
23. 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 Feb 2013 at CSIR-IITR, Lucknow.
24. Invited guest speaker in “SNCI-CON, 2014” & 28th Annual Meeting of the Society for Neurochemistry, India, at Sri Ramachandra University, Chennai.
25. Young Investigator Travel Award Lecture in Young Investigator Colloquia of International Society of Neurochemistry ISN-ASN Biennial Meeting, **Cancun, Mexico-2013**.

26. 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.
27. Invited Lecture in Indian Science Congress, Gauri Ganguly Memorial Young Scientist Session during 5-8 January 2013 at Kolkata.
28. 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.
29. Invited Speaker in CSIR-Foundation day celebrations, Young Scientist Session during 26th Sept 2010 at CSIR-CIMAP, Lucknow.
30. Young Investigator Travel Award lecture in 10th World Congress of Biological Psychiatry, during 29 May-03 Jun 2011 at **Prague, Czech Republic**.
31. Invited speaker in Second National Conference on Emerging Areas in Biomedical Sciences, 27 March 2010 at Institute of Biomedical Sciences, Bundelkhand University, Jhansi.
32. Session Chair in Second National Conference on Emerging Areas in Biomedical Sciences, 27 March 2010 at Institute of Biomedical Sciences, Bundelkhand University, Jhansi.
33. 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
11. Molecular Neurobiology

Member of International/National Societies and Academies:

- ❖ **Member of Review Committee on Genetic Manipulation Task Force of Department of Biotechnology, New Delhi.**
- ❖ **Member of Uttar Pradesh State Forest and Wild Life Board, Government of U.P.**
- ❖ Member of Editorial Board of Indian National Young Academy of Sciences-INYAS, Newsletter.

- ❖ **Elected fellow of Academy of Environmental Biology 2018- (FAEB)**
- ❖ **Elected member of Indian National Young Academy of Sciences of INSA-New Delhi, (INYAS)- MINYAS-2018**
- ❖ **Elected Member of National Academy of Sciences (NASI)- Allahabad.**
- ❖ Society for Neuroscience (SFN)-USA
- ❖ Society of Toxicology-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)
- ❖ Molecular and Cellular Cognition Society (MCCS)
- ❖ Asian Pacific Society of Neurochemistry (APSN)

Other information:

Research paper Published	: 55
Papers presented conferences/symposia	: 32
Invited Lectures in Workshops and Symposia	: 33

Students supervised:

M Sc	: 30
M Tech.	: 2
M.Pharma	: 4
PhD	: 4 (Awarded) 1 (Submitted)
	: Six are currently working for PhD

Research Fellows presently working:

SRF (CSIR)	: Two
SRF (DBT)	: One
SRF (ICMR)	: One
JRF (UGC)	: One
Project Fellow	: Three

Extramural Grants/CSIR Network Projects completed/ongoing:

S No	Title of Project	Project Category	Participating/ Funding Agency	Status	Your Role as defined
1.	Role of ubiquitin dependent proteasome pathway in the regulation of brain plasticity and cognitive functions in Alzheimer's Disease	Grant-in-Aid project	DST SERB, New Delhi	Completed (2017-2020)	Principal Investigator
2.	Transcriptional factor SIRT/REST/PGC-1alpha axis in regulation of neural stem cells differentiation for induction of Brain Self Repair in Alzheimer's Disease	Grant-in-Aid project	DBT, New Delhi	Completed (2017-2020)	Principal Investigator
3.	Neural Stem Cells Biology with special emphasis to decipher the role of transcription factors in regulation and enhancement of brain self repair mechanism in Alzheimer's Disease	Young Scientist Grant	Lady Tata Memorial Trust-UK	Completed (2014-2019)	Principal Investigator
4.	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 (2011-2014)	Principal Investigator
5.	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 (2011-2014)	Principal Investigator
6.	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 (2010-2012)	Principal Investigator
7.	ICMR Project Grant:- "Effects of xenoestrogen Bisphenol-A on the neural stem cell proliferation, migration and differentiation	ICMR-Grant Aided Project	CSIR-IITR	Completed (2011-2014)	Principal Investigator

	(neurogenesis): Cellular and molecular mechanism”				
8.	DBT Project Grant:- “Studies on Alterations in Molecular events involved in developmental neurotoxicity of cypermethrin”	DBT-Grant-in-Aid Project	CSIR-IITR	Completed (2012-2015)	Co-PI
9.	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 (2010-2013)	Co-PI
10.	CSIR-Network Project:- “Assessment of neuroprotective potential of novel drug candidates in models of neurodegenerative disorders”	CSIR-Network project	CSIR-IITR and other CSIR labs	Completed (2012-2017)	Principal Investigator
11.	CSIR-Network Project:- “Role of Omi/HtrA2 protease family proteins in pathogenesis of environmental toxins induced Parkinson’s disease”	CSIR-Network project – MiND	CSIR-IITR and other CSIR labs	Completed (2012-2017)	Principal Investigator
12.	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 (2012-2017)	Principal Investigator
13.	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 (2012-2017)	Principal Investigator and IITR Co-ordinator

Certified that above information is correct.

Date:

Place:



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



वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH

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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Toxicity Testing: **GLP** Test Facility