



**Centre/School/Special Centre: Life Sciences
Department: Zoology**

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Dr. Santosh Singh

Assistant Professor

Qualifications: Ph.D. in Zoology, Banaras Hindu University

Area of Interest/Specialization: Biochemistry & Molecular Biology

Experience: 10 Years

Awards and Honors

S.N.	Name of Award and Honors	Awarding Agency	Year
1.	National Eligibility Test (NET-LS)	CSIR-UGC	2004 & 2005
2.	Graduate Aptitude Test in Engineering (GATE)	IIT-Kanpur	2004
3.	Junior Research Fellow (JRF)	DAE-BRNS	2007
4.	Senior Research Fellow (SRF)	ICMR	2010
5.	National Merit Scholarship	Government of India	1993-1998
6.	International Travel grant for Valencia, Spain	DST and DBT	2009
7.	Best Posture Award in Satellite of 5 th FAONS & 28 th IAN Congress	BHU, Varanasi	2010
8.	Best Poster Award International Symposium on Neurodegenerative Disorders, ISND	NIMHANS, Bengaluru	2017
9.	Participated 1 st SERC SCHOOL IN NEUROSCIENCES Rastrasant Tukadoji Maharaj University, Nagpur.	DST Sponsored and supported by IBRO	2007

Research Projects

S.N.	Name of the projects	Amount (in Lakhs)	year
1.	<i>UGC Start-Up Grant</i> entitled “Molecular evaluation of nitrosative stress in the brain during hyperammomemia”	6.00	2014-16

2.	DST-SERB Young Scientist startup grant "Molecular evaluation of glutamate-NO-cGMP cascades modulated by NMDA and AMPA receptors in brain of rats with acute liver failure"	25.20	2016-2019
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International Collaboration/Consultancy

List of Publications

S. N.	Author(s)	Title	Name of Journal	Volume & Page	Year
1.	Arghya Mukherjee & Santosh Singh	<i>Andrographis paniculata</i> ameliorates hyperammonemia induced oxidative stress in rat brain by activating antioxidant enzymes	Neurochemical Journal (IF-0.45)	In press	2022
2.	Debashree Mazumdar & Santosh Singh	Diabetic Encephalopathy: Role of Oxidative and Nitrosative Factors in Type 2 Diabetes	Indian Journal of Clinical Biochemistry (IF-2.22)	doi.org/10.1007/s12291-022-01107-y	2022
3.	Nikita Meher, Arifullah Mohammed, Mohammad Khairul Azhar Abdul Razab, LVKS Bhaskar, Norazlina Mat Nawi, & Santosh Singh	Neurological infection and complications of SARS-CoV-2: A review	Medicine (IF-1.82)	In press	2022
4.	Bikram Keshari Das, Sudeep Gautam, Nikita Meher, Parvathi Kumara Reddy Thavanati and Santosh Singh	Influenza associated acute necrotizing encephalopathy and COVID-19 encephalopathy: A comparative review	Immunopathologia Persa	In press	2022
5.	Debashree Mazumdar & Santosh Singh	Thiazolidinedione derivative antidiabetic drug does not prevent the Type 2 Diabetes induced oxidative stress in rat kidney	Journal of Nephro pharmacology	In press	2022
6.	Dusmanta Podh, Arghya Mukherjee & Santosh Singh	<i>Andrographis paniculata</i> Nees aqueous extract prevents the hyperammonemia induced oxidative stress in the rat kidney by activating the antioxidant enzymes	Journal of Renal Injury Prevention	In press	2022
7.	Dusmanta Podh, Arghya Mukherjee & Santosh Singh	<i>Andrographis paniculata</i> Nees aqueous extract prevents the oxidative stress in rats with acute liver failure by activating the antioxidant enzymes	International journal of zoological investigation	In press	2022

8.	Santosh Singh, Papia Mondal & SK Trigun	Acute liver failure in rats activates glutamine-glutamate cycle but declines antioxidant enzymes to induce oxidative stress in cerebral cortex and cerebellum.	<i>PLoS One</i> (IF-3.37)	22: 9(4):e95855	2014
9.	Santosh Singh & SK Trigun	Low grade cirrhosis induces cognitive impairment and motor dysfunction in rats: Could be a model for minimal hepatic encephalopathy.	<i>Neuroscience Letters</i> (IF-2.28)	559: 136-140.	2014
10.	Santosh Singh & SK Trigun	Activation of Neuronal Nitric Oxide Synthase in Cerebellum of Chronic Hepatic Encephalopathy Rats is Associated with Upregulation of NADPH- Producing Pathway.	<i>The Cerebellum</i> , (IF= 3.21)	9:384–397.	2010
11.	Santosh Singh, RK Koiri & SK Trigun	Acute and chronic hyperammonemia modulate antioxidant enzymes differently in cerebral cortex and cerebellum.	<i>Neurochemical Research</i> , (IF= 2.24)	33:103–113.	2008
12.	R.K. Koiri, S.K. Trigun, S.K. Dubey, Santosh Singh & L. Mishra	Metal Cu(II) and Zn(II) bipyridyls as inhibitors of Lactate Dehydrogenase.	<i>BioMetals</i> , (IF= 2.823)	21:117–126.	2008
13.	S.K. Trigun, R.K. Koiri, Santosh Singh , L. Mishra, S.K. Dubey & P. Pandey	Ruthenium complex as enzyme modulator: Modulation of Lactate Dehydrogenase by a novel Ruthenium(II) complex containing 4-carboxy N-ethylbenzamide as a ligand.	<i>Current Enzyme Inhibition</i> ,	3: 243-253	2007

Recent Books/Book Chapters/Monographs etc.

Research Supervision

Under supervision: 03

Administrative Responsibilities

1. Departmental Cultural Coordinator

Additional information

Current research area: *Neurochemistry of hepatic encephalopathy (HE) & Diabetic encephalopathy (DE): Study of alterations in glutamatergic, oxidative, nitrosative and apoptotic factors in brain of experimental rat model.*