CURRICULUM VITAE

Dr. Santosh Singh

Assistant Professor (Ad-hoc)

Department of Zoology

Guru Ghasidas Vishwavidyalaya

Bilaspur (C.G.), 495009

Email: santoshbhu@gmail.com

Mob: +91-9406296914

Research Profile (as of May, 2013)

Total no of SCI listed publications	**04**
Total citations	**38**
Average citations per article	**9.5**
Cumulative impact factor	**8.27**
Average impact factor	**2.07**
***i*-10 index**	**2**
H-index	**3**

Research Interests

Neurochemistry of hepatic encephalopathy (HE): study of alterations in glutamatergic, oxidative, nitrosative and apoptotic factors in cerebral cortex and cerebellum of experimental rat model. Role of NMDAR-NO-cGMP pathway in modulation of LTP & LTD, associated to learning-memory and motor functions, respectively.

Educational Details

Course of study	University / Board	Year of passing	% Marks	Subjects
10th	U.P. Board Allahabad	1993	69.2%	English, **G. Hindi, Maths-2,** Science-2, **Biology,** S.Science
10+2	U.P. Board Allahabad	1995	69.4%	English, G.Hindi, **Chemistry,** Physics, Biology
10+2+3	V.B.S. Purvanchal University, Jaunpur	1998	60.66%	Botany, Zoology, Chemistry
M.Sc.	Udai Pratap college, Purvanchal University	2001	56.25%	Zoology
Ph.D.	Banaras Hindu University	2012	Zoology	

Positions and Honors

Positions and Employment

2003- 2005	Teaching Assistant, Shri Baldeo P.G. College, Bara Gaon,Varanasi Department of Zoology, Varanasi.
2005	PhD student, Mentor Prof. S.K.Trigun, Department of Zoology, BHU, Varanasi.
2007- 2010	DAE-BRNS Junior Research Fellow, Department of Zoology, BHU, Varanasi.
2010- 2012	ICMR Senior Research Fellow, Department of Zoology, BHU, Varanasi.
2012- Present	Assistant Professor (Ad-hoc), Department of Zoology, Guru Ghasidas Vishwavidyalaya.

Honors

1993-1998	National Merit Scholarship, Government of India.
2004	Qualified Graduate Aptitude Test in Engineering (GATE).
2004/5	Qualified CSIR-UGC National Eligibility Test (NET-LS).
2009	International Travel Award of DST & DBT, India.
2010	Best Posture Award in Satellite of 5th FAONS & 28th IAN Congress, BHU, Varanasi, India.

Other Experience and Professional Memberships

2005	Workshop on Techniques in Neurobiology, Department of Zoology, BHU, Varanasi.
2007	Life member of Indian academy of Neurosceinces.
2008	Participated in a DST Sponsored "1st SERC SCHOOL IN NEUROSCIENCES" supported by IBRO held at Department of Pharmaceutical Sciences, Rastrasant Tukadoji Maharaj Nagpur University, Nagpur.
2009	Neurobiology Workshop on Application of Bioinformatics and Proteomic Tecniques in Neurobiology (2009), Department of Zoology, BHU, Varanasi.

Publications

(1). **Singh, S.,** Trigun, S.K. (2010). Activation of Neuronal Nitric Oxide Synthase in Cerebellum of Chronic Hepatic Encephalopathy Rats is Associated with Upregulation of NADPH- Producing Pathway. ***The Cerebellum,*** 9:384–397. Citation-3 **(IF= 3.21)**

(2). **S. Singh**, R.K. Koiri & S.K. Trigun (2008) Acute and chronic hyperammonemia modulate antioxidant enzymes differently in cerebral cortex and cerebellum. ***Neurochemical Research,*** 33:103–113. Citation-16 **(IF= 2.24)**

(3). R.K. Koiri, S.K. Trigun, S.K. Dubey, **S. Singh** & L. Mishra (2008) Metal Cu(II) and Zn(II) bipyridyls as inhibitors of Lactate Dehydrogenase. ***BioMetals,*** 21:117–126. Citation-12 **(IF= 2.823)**

(4). S.K. Trigun, R.K. Koiri, **S. Singh**, L. Mishra, S.K. Dubey & P. Pandey (2007) Ruthenium complex as enzyme modulator: Modulation of Lactate Dehydrogenase by a novel Ruthenium(II) complex containing 4-carboxy N-ethylbenzamide as a ligand. ***Current Enzyme Inhibition***, 3: 243-253. Citation-7 **(IF= Still computing)**

Abstracts

(1). **S. Singh**, S.K. Trigun (2011) ***Modulation of nitric oxide synthases and antioxidant enzymes in cerebral cortex and cerebellum of rats with acute hepatic encephalopathy*****,** International symposium on recent trends in neurosciences & XXIX Annual conference of IAN, DIPAS, New Delhi, India, nomine of DM Kar Award for Oral Presentation- 120.

(2). Trigun S.K., **Singh S.** and Mehrotra A (2011) ***Neurochemistry of Oxidative and Nitrosative Mechanisms during Hyperammonemia and Hepatic Encephalopathy***, International symposium on recent trends in neurosciences & XXIX Annual conference of IAN, DIPAS, New Delhi, India, 70-71.

(3). **S. Singh**, S.K. Trigun (2010) ***Modulation of apoptotic factors in cerebral cortex and cerebellum of rats with Minimal Hepatic Encephalopathy***, 5th Congress of FAONS & XXVIII Annual Meeting of IAN, Lucknow, India, P-58.

(4). Trigun S.K., **Singh S.** and Mehrotra A (2010) ***Nitric oxide synthases in brain as potential target for therapeutic intervention against chronic Hepatic Encephalopathy in rat***, 5th Congress of FAONS & XXVIII Annual Meeting of IAN, Lucknow, India, OS-6.

(5). **S. Singh**, S.K. Trigun, (2010) ***Activation of antioxidant enzymes and nitric oxide synthases in cerebral cortex and cerebellum of rats with Minimal Hepatic Encephalopathy***, International Symposium on Brain Ageing and Dementia Basic and Translational Aspects (Satellite of 5th FAONS & 28th IAN Congress), Banaras Hindu University, Varanasi, P-6.

(6). **S. Singh**, S.K. Trigun, D.Kumar & M. Singeravel (2009) ***Implication of Oxidative and nitrosative factors in Minimal Hepatic Encephalopathy***, International Symposium on Hepatic encephalopathy, Valencia, Spain, N*11.

(7) Trigun S.K., **Singh S.** and Mehrotra A (2009) ***Implication of Oxidative and nitrosative factors inneuronal derangements associated with Hepatic Encephalopathy***, National Symposium on Functional Biology: Comparative Aspects, University of Lucknow, Lucknow, 05.

(8). **S. Singh**, S.K. Trigun (2008) ***Differential expression of nitric oxide synthases (NOS) in different regions of Brain during acute and chronic liver dysfunction***, International conference on Free radicals & natural products in health & seventh annual meeting of the society for free radical research-India, University of Rajasthan, Jaipur, 47.

(9) S.K. Trigun, **Santosh Singh** (2008), ***Regulation of redox status and expression of nitric oxide syntheses of rats with chronic hepatic encephalopathy,*** International Conference on Advances in Neurosciences & XXVI Annual Meeting of Indian Academy of Neurosciences, Kochi, India, 58.

(10) S.K. Trigun and **Santosh Singh** (2008) ***Alternation in cerebral chemistry during Chronic hepatic failure: Expressions of antioxidant and nitrosative factors in cerebral cortex and cerebellum,*** International symposium on Molecular aspects of brain aging and neurological disorders, and annual meeting of society for neurochemistry (India), Gurunanak Dev university, Amritsar, S17,13.

(11). **S. Singh**, S.K. Trigun (2007) ***Differential expression of antioxidant and nitrosative Stress enzymes in cerebral cortex and cerebellum of rat with chronic liver cirrhosis***, International Symposium on Advances in Neurosciences & Silver Jubilee Conference of Indian Academy of Neurosciences, Banaras Hindu University, Varanasi, 106.

(12). S.K. Trigun, L. Mishra, R.K. Koiri, S.K. Dubey, **S. Singh**, V.K. Yadav, P. Pandey (2007) ***Modulation of cellular machinery to counteract oxidative stress in neuropathology and cancer*****,** International conference on Emerging Trends in Free Radical and antioxidant Research, Lonavala, IL-79, p.70.

(13). **S. Singh**, R.K. Koiri, S.K. Trigun (2006) ***Hyperammonemic Neurotoxicity: Brain region specific changes in antioxidant system***, Natl. Symp. Recent Adv. In Neurobiol., University of Allahabad; p. 67

(14). S.K. Trigun, P. Pandey, S. Singh and R.K. Koiri (2006) *Brain metabolism adapts positively against most of the unphysiological challenges*, Presented in Intl. Update on Basic and Clin. Neurosci. Adv at ITRC, Ann. Neurosci. 13: 47

(15). R.K. Koiri, S.K. Dubey, **S.Singh**, S.K. Trigun, Lallan Mishra, and P. Pandey (2006) ***Biochemical evaluation of cytotoxic Ru (II) complex containing oxime ligand***. Natl. Symp. on Designing the molecular world through chemistry, L-16, Banaras Hindu University, Varanasi.

(16). R.K. Koiri, S.K. Trigun, L. Mishra, V.K. Yadav and **S. Singh** (2006) ***Effect of anticancer Ru (II) Complex containing Triazole as ligand on antioxidant enzymes in liver of Dalton Lymphoma bearing mice*****,** International Conference on Toxicology, Toxicogenomics and Occupational Health, Jiwaji University, Gwalior. P. 80