

Dr. Pichili Vijaya Bhaskar Reddy

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Specialization: Cell & Molecular Biology; Neurochemistry;
Mitochondrial Dysfunctions; Oxidative Stress

Education

Ph.D Department of Animal Sciences; University of Hyderabad
M. Sc. Department of Animal Sciences; University of Hyderabad
B. Sc. Regional College of Education; University of Mysore

Research Experience

Assistant Professor	(2009-2012)	Institute of Neuro-Immune Pharmacology, Herbert Wertheim College of Medicine, Florida International University, Miami, USA
Postdoctoral Fellow	(2009-2009)	Department of Carcinogenesis, University of Texas MD Anderson Cancer Center, Texas, USA
Postdoctoral Fellow	(2005-2008)	Department of Pathology, University of Miami, Miller School of Medicine, Miami, FL, USA.

Honors and Awards

- ❖ National Institute of Drug abuse/Asian American Pacific Islander young Investigator Conference Award (2012)
- ❖ Young Investigator travel award, from American society for Neurochemistry (ASN) (2006)
- ❖ Asian-Pacific society for neurochemistry (APSN) young Investigator travel award (2003)
- ❖ Senior Research Fellow, Council of Scientific and Industrial Research, New Delhi, Govt. Of India (2002-2005)
- ❖ Peer Reviewer of International Journals
- ❖ Member of Neuroscience Scientific journal consortium
- ❖ Junior & Senior Research Fellow, Council of Scientific and Industrial Research, New Delhi, Govt. of India (2001-2002)
- ❖ Qualified Graduate Aptitude Test for Engineering (2002)
- ❖ Lady Tata Memorial Research Fellowship by the Tata Memorial Research Education Fund, India (1999-2000)
- ❖ Merit Scholarship, University of Hyderabad, India (1997-1999)
- ❖ Undergraduate Studentship. National Council for Education and Research Training (NCERT), Govt. of India (1993-1997)

Research Publications (In Chronological Order)

1. Atluri V, Pilakka S, **Pichili Vijaya Bhaskar Reddy**, Yndart Y, Nair MP (2013) Human Synaptic gene expression profile and spine density changes in HIV-Infected human CNS cells: Role in HIV associated neurocognitive disorders (HAND). *PLoS One*; **8 (4) e61399**.
2. **Pichili Vijaya Bhaskar Reddy**, Agudelo S, Atluri VS, Nair MP (2012) Inhibition of nuclear factor erythroid 2-related factor 2 exacerbates HIV-1 gp120-induced oxidative and inflammatory response: Role in HIV associated neurocognitive disorder (In Press; Ahead of Print) 10.1007/s11064-012-0779-0; PMID:22528837
3. **Pichili Vijaya Bhaskar Reddy**, Pilakkakanthikeel S, Saxsena SK, Saiyed ZM, Nair MP (2012) Interactive effects of morphine on HIV infection: Role in HIV-associated neurocognitive disorder. *AIDS Res Treat*. 2012:953678. Epub Ahead of Print, PMID:22666564
4. Chadipiralla K, Reddanna P, Chinta M, **Pichili Vijaya Bhaskar Reddy*** (2012) Thioacetamide-induced fulminant hepatic failure induces cerebral mitochondrial dysfunction by altering the electron transport chain complexes. *Neurochemical Research*. 37 (1):59-68. (*Corresponding Author)
5. **Pichili Vijaya Bhaskar Reddy**, Gandhi N, Samikkannu T, Agudelo M, Saiyed ZM, Yndart-Arias A, Khatavkar P, Nair MP (2011). HIV-1 gp120 induces antioxidant response element-mediated expression in primary astrocytes: Role in HIV associated neurocognitive disorder. *Neurochemistry International* (In Press)
6. Rao KV, **Pichili Vijaya Bhaskar Reddy**, Curtis KM, Norenberg MD. (2011) Aquaporin-4 expression in cultured astrocytes after fluid percussion injury. *J Neurotrauma*. 28(3):371-81. PMID: 21204635
7. Samikkannu T, Agudelo M, Gandhi N, **Pichili Vijaya Bhaskar Reddy**, Saiyed ZM, Nwankwo D, Nair MP. (2011) Human immunodeficiency virus type 1 clade B and C gp120 differentially induce neurotoxin arachidonic acid in human astrocytes: implications for neuroAIDS. *J Neurovirol*. 17 (3): 230-8. PMID: 21491143.
8. Agudelo M, Gandhi N, Saiyed Z, **Pichili Vijaya Bhaskar Reddy**, Thangavel S, Khatavkar P, Yndart-Arias A, Nair M. (2011) Effects of alcohol on histone deacetylase 2 (HDAC2) and the neuroprotective role of trichostatin A (TSA). *Alcohol Clin Exp Res*. 35 (8): 1-7. PMID: 21447001.
9. Saiyed ZM, Gandhi N, Agudelo M, Napuri J, Samikkannu T, **Pichili Vijaya Bhaskar Reddy**, Khatavkar P, Yndart A, Saxena SK, Nair MP. (2011) HIV-1 Tat upregulates expression of histone deacetylase-2 (HDAC2) in human neurons: Implication for HIV-associated neurocognitive disorder (HAND). *Neurochem Int*. 58 (6): 656-64. PMID: 21315782.

10. **Pichili Vijaya Bhaskar Reddy**, Lungu G, Kuang X, Stoica G, Wong PK. (2010) Neuroprotective effects of the drug GVT (monosodium luminol) are mediated by the stabilization of Nrf2 in astrocytes. *Neurochemistry International*. 56: 780-788. PMID: 20211212
11. Rama Rao KV, Jayakumar AR, **Pichili Vijaya Bhaskar Reddy**, Tong X, Kurtis KM, Norenberg MD. (2010) Aquaporin-4 in manganese-treated cultured astrocytes. *Glia* 58: 1490-1499. PMID:20648640
12. Gandhi N, Saiyed ZM, Napuri J, Samikkannu T, **Pichili Vijaya Bhaskar Reddy**, Agudelo M, Khatavakar, P, Saxena SK, Nair MP. (2010) Interactive role of human immunodeficiency virus type 1 (HIV-1) clade-specific Tat protein and cocaine in blood-brain barrier dysfunction: Implications for HIV-1-associated neurocognitive disorder. *Journal of Neurovirology*. 16 (4): 294-305. PMID: 20624003.
13. Rama Rao KV, **Pichili Vijaya Bhaskar Reddy**, Tong XY, Norenberg MD. (2010) Brain Edema in acute liver failure. Inhibition by Histidine. *The American Journal of Pathology*. 176: 1400-1408. PMID:20075201
14. **Pichili Vijaya Bhaskar Reddy**, Rama Rao KV, Norenberg MD. (2009) Inhibitors of the mitochondrial permeability transition reduce Ammonia-Induced cell swelling in cultured astrocytes. *Journal of Neuroscience Research*. 87: 2677-2685. PMID:19382208
15. Jayakumar AR. Liu M, Moriyama M, Ramagounder R, **Pichili Vijaya Bhaskar Reddy**, Norenberg MD. (2008) Na-K-Cl-Cotransporter-1 in the mechanism of ammonia-induced astrocyte swelling. *Journal of Biological Chemistry* 283: 33874-33882. PMID:18849345
16. Sinke A, Jayakumar AR, Panickar KS, Moriyama M, **Pichili Vijaya Bhaskar Reddy**, Norenberg MD. (2008) NF-kappa B in the mechanism of ammonia-induced astrocyte swelling in culture. *Journal of Neurochemistry* 106: 2302-2311. PMID:18662246
17. **Pichili Vijaya Bhaskar Reddy**, Rama Rao KV, Norenberg MD. (2008) The mitochondrial permeability transition, and oxidative and nitrosative stress in the mechanism of copper toxicity in the cultured neurons and astrocytes. *Laboratory Investigation* 88: 816-830. PMID:18591939
18. Jayakumar AR, Rama Rao KV, Panickar KS, Moriyama M, **Pichili Vijaya Bhaskar Reddy**, Norenberg MD. (2008) Trauma-induced cell swelling in cultured astrocytes. *Journal of Neuropathology and Experimental Neurology* 67: 417-427. PMID: 18431255
19. **Pichili Vijaya Bhaskar Reddy** (Published as V.B. Pichili), Rama Rao KV, Norenberg MD. Inhibition of glutamine transport into mitochondria protects astrocytes from ammonia toxicity. *Glia*. 55: 801-809; 2007. PMID:17357151
20. Rama Rao KV, **Pichili Vijaya Bhaskar Reddy**, Norenberg MD. (2007) Manganese induces cell swelling in cultured astrocytes. *Neurotoxicology* 28: 807-812. PMID:1748748

21. Sathyasaikumar KV, Swapna I, **Pichili Vijaya Bhaskar Reddy**, Murthy R.K, Dutta Gupta A, Senthilkumaran B, and Reddanna P. (2007) Fulminant hepatic failure in rats induces oxidative stress differentially in cerebral cortex, cerebellum and pons medulla. *Neurochemical Research*. 32: 517-524. PMID: 17268843
22. Sathyasaikumar KV, Swapna I, **Pichili Vijaya Bhaskar Reddy**, Murthy CHR, Roy KR, Dutta Gupta A, Senthilkumaran B, Reddanna P. (2007) co-administration of C-phycocyanin ameliorates thioacetamide-induced hepatic encephalopathy in Wister rats. *Journal of Neurological Sciences*. 252: 67-75. PMID: 17169376
23. Swapna I, Sathyasaikumar KV, **Pichili Vijaya Bhaskar Reddy**, Murthy Ch.R.K. (2006) Phospholipid and cholesterol alterations accompany structural disarray in myelin membrane of rats with hepatic encephalopathy induced by thioacetamide. *Neurochemistry International*. 49: 238-244. PMID: 16519962
24. **Pichili Vijaya Bhaskar Reddy**, Murthy CHRK, Reddanna P. (2004) Fulminant hepatic failure induced oxidative stress in nonsynaptic mitochondria of cerebral cortex in rats, *Neuroscience Letters*. 368: 15-20. PMID: 15342125