

Curriculum Vitae

Name : **Dr. Lokanatha Valluru**
Designation : Asst. Professor
Citizenship : India
Address : Department of Biotechnology
Dravidian University
Kuppam – 517 426, A.P., INDIA
e-mail: lokanathav@yahoo.co.in



1 Personal Details

Nationality : Indian
Marital Status : Married
Date of Birth : August 1, 1967

2. Education

Ph.D : Neurochemical changes during Newcastle disease virus infection in different brain regions of chick
University : Sri Venkateswara University, Tirupati, A.P
Year of completion : 1995

Post Graduation : **M.Sc** (Zoology)
University : Sri Venkateswara University
Division : First Class
Year of Completion : 1990

Graduation : **B.Sc** (Botany, Zoology and Chemistry)
University : Sri Venkateswara University, Tirupati
Division : First class
Year of completion : 1988

3. Honors

- Qualified in Graduate Aptitude Test in Engineering (**GATE-'92**), **1992**
- Qualified in State Level Eligibility Test for Lectureship (**SLET**), **1997**
- **NIH Postdoctoral Fellowship, University of Texas Medical Branch, Galveston, Texas, USA**
- DST Fast Track Young Scientist Project, India
- CSIR Research Associate, India
- UGC Junior Research Fellowship, India

4. Awards

- Associate Fellow, Andhra Pradesh Akademi of Sciences, **Hyderabad**, 2010
- Scientist of the year award, National Environmental Science Academy, **NEW DELHI**, 2009
- National Institute of Health Post-doctoral fellowship, UTMB, Galveston, **USA**, 2002
- Intl. Soc. of Neurochem. (ISN) travel grant award, Bueonos Aires, **ARGENTINA**, 2001
- Asian Molecular Biologists Organisation (AMBO) fellowship, Osaka, **JAPAN**, 1999
- Young scientist travel grant award by FAOPS Congress, Brisbane, **AUSTRALIA**, 1998
- Young scientist travel grant award by MPPS, Kuala Lumpur, **MALAYSIA**, 1996
- Awarded 4th rank in M. Sc., S.V. University, Tirupati, 1990

5. Research Projects Handled

- DST (SERB) **Major Research project titled:** Characterization of polysaccharides and phenolics from marine macroalgae as defense metabolites oxidative stress and inflammation. (collaborative project with Central Marine Research Institute, Cochin. PI: Dr.Kajal Chakaraborty, CoPI: **Dr,Valluru Lokanatha** Lr.No.SR/S1/OC-96B/2012 dt.20.11.2013. Cost: Rs. 36,30,000/- Dravidian University share Rs. 4,65,000/- (**on-going**))
- DST (SERB) **Major Research project titled:** Synthesis and characterization of novel, phosphorylated anti-viral molecules against Newcastle Disease Virus (NDV) infection in chicken. Lr.No. SB/SO/AS-021/2013 dt.14.10.2012. Cost: **Rs.44,59,000/- (on-going).**
- **DSIR Major Research project titled:** Stem cell marker protein CD44 in cancer diagnosis: Development of immunodiagnostic kit. Lr No. DSIR/TEPP/103/2007/142, 30 Jan, 2008, costs-Rs. **11.0 lakhs** with duration of 2008-'10 (Completed)
- **UGC- Major Research Project titled:** Oxidant and antioxidant systems: role and significance during Newcastle disease virus (NDV) infection. Dt. 01.05.2009, cost:Rs. **9.12 lakh** F. No 36-85/2008(SR),dt 26.03.2009 (Completed)

6. Professional Experience

- a. Teaching 6 years; Research 18 years

7. Professional Exposure

Training – Foreign

- Attended training course on “**Introduction to Molecular Biology Techniques**” held on August 2-30, 2002, University of Texas medical Branch, Galveston, **USA.**
- Attended workshop on “**Animal Care and Use**” held on June 11-13, 2002, at Institutional Animal Care & Use Program, University of Texas Medical Branch, Galveston, **USA.**
- Attended International Society of Neurochemistry (ISN) school on “**Genomics and bioinformatics in neuroscience: Genes to ethics in 21st century**” held on Aug.22-30, Buenos Aires, **ARGENTINA**
- Attended a training course on “**Advanced Techniques in Structural Biology**” (Mass Spec. Dr.Toshifumi Tako lab) held on March 9-18, 1999, Institute of Protein Research, Osaka University, **JAPAN**
- Attended “**Computer Assisted Learning in Physiology**” course held on Sept.22-28, 1998, University of Queensland, Brisbane, **AUSTRALIA**
- Attended “**Immunoassay Techniques**” course held on Nov.4-9, 1996, University of Malaya, Kuala Lumpur, **MALAYSIA**

Training - National

- Attended training programme on Entrepreneurship Development & Management for Scientists & Technologists with Government Sector during at Entrepreneurship Development India, Ahmedabad, Dec. 10-14, **2012**
- Attended training course on **Techniques in developmental biology** at All India Institute of Medical Sciences (AIIMS), New Delhi, from Feb.7-10, 1995
- Attended workshop on **Isolation and characterization of different cell types of brain**, at University of Hyderabad, Hyderabad. (Dec. 7-19, 1992).
- Attended training course on **Electron Microscopy**, at All India Institute of Medical Sciences (AIIMS), New Delhi, from Nov.18 to Dec.9, 1993
- Participated in **Bioinformatics course** at CCMB, Hyderabad from May 8-10, 2000.
- Attended workshop on **Applications in Molecular Biology** at Pondicherry University from Mar.29 to Apr.1, 1993.
- Attended course on **Molecular immunobiology of self & non-self reactivity** at Madurai Kamaraj university from Nov.16-22, 1992.
- Attended training course on **ELISA & other immunodiagnostic techniques**, at Mahatma Gandhi Institute of Medical Sciences (MGIMS), Sevagram, from Sept. 13-30, 1993

Memberships in Scientific Bodies

1. Life Member in Indian Science Congress Association, Calcutta, India
2. Life Member in Environmental Science Academy, New Delhi, India
3. Member, International Brain Research Organization, France
4. Member, Society for Neuroscience, USA
5. Member, Indian Society for Comparative Animal Physiology, Tirupati
6. Member, Society for Toxicology, Luknow

Administrative Positions

1. **Co-ordinator (2013)**. SDCE, Biochemistry course programe, D.U. Kuppam
2. **Co-ordinator, (2012)**. UGC & other funding agencies programmes Co-ordinator, Dravidian University, Kuppam.
3. **Co-ordinator (NSS) (2011)**. University NSS Cell Programme Co-ordinator cum Programme Officer (Unit-1), Dravidian University, Kuppam
4. **Assistant Director (2009)**, School of Distance and Continuing Education, Dravidian University, Kuppam

Orientation / Refresher Courses

1. **Lokanatha Valluru (2008)**. Participated in UGC-Sponsored Orientation Programme held from 17.11.08 to 13.12.2008 at Academic Staff College, S.V.University, Tirupati.
2. **Lokanatha Valluru (2011)**. Participated in UGC-Sponsored Refresher Course on Environmental Studies held from 23.05.2011 to 11.06.2011 at Academic Staff College, S.V.University, Tirupati.

3. **Lokanatha Valluru (2011)**. Participated in NSS 105th Orientation course held from 16.08.2011 to 21.08.2011, at NSS empanelled Training Institution, Andhra University, Visakhapatnam, A.P.
4. **Lokanatha Valluru (2013)**. Participated in UGC-Sponsored Refresher Course on Environmental Studies held from 17.12.2012 to 05.01.2013 at Academic Staff College, S.V.University, Tirupati.

Special / Invited Lectures

1. **Lokanatha Valluru. (2012)**. Special Lecture on “Biosynthesis, characterization antimicrobial and antioxidant activity of silver nanoparticles produced by Lichen *Punctelia subrudecta*” at International Conference on ‘Anthropogenic Impact on the Environment and Bioremediation’- from Nov. 26-28, 2012 (ICAIEB2012), Sri Venkateswara University, Tirupati.
2. **Lokanatha Vallur (2012)**. Visiting fellow, special lectures for M.Sc. (Anthropology) students on human genetics from 25-30 June, 2012, Dept. of Anthropology, S.V.University, Tirupati
3. **Lokanatha Valluru (2010)**. National Workshop on “Recent Trends in Bioinformatics” Special Lecture on “From Protein Structure to Function with Bioinformatics” held from June 25-26, 2010, at Dept. of Zoology, S.V.University, Tirupati
4. **Lokanatha Valluru (2011)**. NSS, National Integration Camp Special Lecture on “Indian Bio-diversity and National Unity” held on 02.12.2011 at Govt. First Grade College, Chickbalapur, Karnataka

Conference / Seminar Organized

1. **Lokanatha Valluru (2014)** , Organized National Science Day on Feb.28, 2014, at D.U., Kuppam
2. **Lokanatha Valluru (2012)**. Organized National Seminar on “Emerging Trends in Biotechnology: Challenges and Opportunities” held from 13th – 15th March, 2012, at Dept. of Biotechnology, Dravidian University, Kuppam.
3. **Lokanatha Valluru (2011)**. Organized Seminar on “NSS-Orientation & Anti-Ragging Programmes” held from 14-15 September, 2011, at Dravidian University, Kuppam.
4. **Lokanatha Valluru (2011)**. Organized “NSS-Foundation Day Programme” held on 24 September, 2011, at Dravidian University, Kuppam.
5. **Lokanatha Valluru (2011)**. Organized “NSS- 1000 Tree Plantation Programme” held from 19-20 October, 2011, at Dravidian University, Kuppam.

List of Accepted/ Published Research Papers

2014

1. Chandra Sekhar, K., Venkata Ramana, K., Venkata Subbaiah K.C., **Lokanatha, V.**, Rajendra, W. and Naga Raju C. (2014). Synthesis and antioxidant activity of novel phosphorylated tryptamine derivatives: QSAR descriptors. **Indo American J. of Pharm. Res.** 3 (12): (in press) **(IF 0.85) ISSN : 2231-6876**
2. Subramanyam, D., Raju Naidu, DS., Rajendra, W. and **Lokanatha, V.** (2014) “Effect of Concurrent Radiochemotherapy and Chemotherapy on Serum Proteins For Prospective Predictors of Patients with HPV Induced Cervical Cancer”. **Biomedicine & Pharamachotherapy (Accepted)**. **(IF 2.06) ISSN: 0753-3322**
3. Subramanyam, D., VenkataSubbaiah, K.C., Rajendra, W. and **Lokanatha, V.** (2014) “Biosurfactant mediated Biodegradation of Poly Aromatic Hydrocarbons (PAHs) – Naphthalene” Communicated to **Bioremediation Journal (Accepted) (IF 0.4) ISSN: 1088-9868**

4. **Lokanatha, V.** Subramanyam, D. and Rajendra, W. (2014). Role of free radicals and antioxidants in gynecological cancers: Current status and future prospectus. **Oxi. Antioxid. Med. Sci. (Invited Review Article) (In press) ISSN: 2146-8389**
5. Subramanyam D, Raju Naidu D.S., , Rajendra W, **Lokanatha Valluru** (2014). Antimicrobial activity of Lactobacillus against microbial flora of cervicovaginal infections. **Asian Pac. J. Trop. Dis.** 4: 18-24 (IF 0.4) ISSN: 2222-1808

2013

6. Vekata Subbaiah K.C, Rajendra W, **Lokanatha Valluru** (2013). Newcastle disease virus (NDV) modulates pro/antioxidant status in different brain regions of chicken. **Free Radicals and Antioxidants** 3: 81-86. ISSN: 2231-2536
7. Subramanyam D, Rajendra W, **Lokanatha Valluru** (2013). Efficacy of treatment on antioxidant status in cervical cancer patients: A case control study. **Free Radicals and Antioxidants** 3: 87-92. ISSN: 2231-2536
8. Subramanyam D, Venkata Subbaiah KC., Rajendra W, **Lokanatha Valluru** (2013): Serum selenium concentration and antioxidant activity in cervical cancer patients before and after treatment. **Exp. Oncol.** 35(2): 97-100. ISSN: 1812-9269. Citations : 1
9. Liu D, Shan Y, **Lokanatha Valluru**, Bao F. (2013). Mn (III) tetrakis (4-Benzoic Acid) porphyrin scavenges reactive species, reduces oxidative stress, and improves functional recovery after experimental spinal cord injury in rats: comparison with methylprednisolone. **BMC Neurosci.** 14(1):23 (IF 3.04) ISSN: 1471-2202. Citations : 3
10. Subramanaym D., Suresh, K.A., Mani Rajesh, Sambasiva Reddy C, Hemalatha C.S, Rajendra W, **Lokanatha Valluru** (2013). Biosynthesis, characterization, antibacterial and antioxidant activity of silver nanoparticles produced by Lichens. **J of Bionanoscience** 7:1-8 . ISSN: 1533-4880

2012

11. Subramanyam D, Raju Naidu D.S., , Rajendra W, **Lokanatha Valluru** (2012). Effect of radiotherapy and Chemotherapy on Serum Glycoproteins of Gynecological Cancers. **Asian Journal of Biological and Life Sciences.** 3 (1): 197-203. ISSN: 2278-5957
12. Subramanyam D, **Lokanatha Valluru**, Rajendra W, Vijayalaxami B. (2012). Biomanagement of Pesticides for Sustainable Environment: An Indian Scenario. **International Journal of Biological & Pharmaceutical Research.** 3(4): 524-530. (Review). ISSN: 2229-7480
13. Kilaru Ravendra Babu, Valasani Koteswara Rao, Yellapu Nanda Kumar, Kishore Polireddy, Kadiam Venkata Subbaiah, Matcha Bhaskar, **Lokanatha Valluru**, Chamarthi Naga Raju (2012). Identification of substituted [3, 2-a] pyrimidines as selective antiviral agents: 3 Molecular modeling study. **Antiviral Research** 95: 118–127 (I.F:4.439) ISSN: 0166-3542
14. **Lokanatha Valluru**, Yao Diao, Jorge E. Hachmeister and Danxia Liu (2012). Mn (III) Tetrakis (4-Benzoic Acid) Porphyrin Protects Against Neuronal and Glial Oxidative Stress and Death after Spinal Cord Injury. **CNS & Neurological Disorders - Drug Targets** □2012;11(6):774-790. (I.F.3.57) ISSN: 1871-5273
15. Hema Kumar, K., Deshmukh, G.R., Suresh Reddy, P.V. and Srinivasa Rao, B. **Lokanatha, V.**, (2012). Preliminary investigation of angiogenic property of ethanolic leaf extract of *Acyrathus aspera* using chorioallantoic membrane model. **Intl. Journal of Drug Development & Research** 4(1): 94-96. ISSN: 0975-9344

16. Suresh Reddy, P.V., Hema Kumar, K., Srinivasa Rao, B., Satish Kumar, Ch.V., Deshmukh, G.R. **Lokanatha, V.** (2012). Inefficiency of Ames tester strains to detect sodium (meta) arsenite as a mutagen. **Intl. Journal of Pharma and Bio Sciences** 3 (1): 567-575. **ISSN 0975-6299**

2011

17. Venkata Subbaiah, K.C., Raniprameela, D., Visweswari, G., Rajendra, W. and **Lokanatha, V.** (2011). Perturbations in the antioxidant metabolism during Newcastle disease virus (NDV) infection in chicken. **Naturwissenschaften** 98 (12): 1019-1026. **(I.F.2.3) ISSN: 0028-1042. Citations: 2**
18. Venkata Ramana, K., Venkata Subbaiah, K.C., **Lokanatha, V.** and Naga Raju, C. (2011). Synthesis and antimicrobial activity evaluation of new dialkyl heteroaryl phosphonates. **Der Pharma Chemica** 3(1): 181-188. **(I.F. 0.5) ISSN 0975-413X**

2010

19. Visweswari, G., Siva Prasad, K., **Lokanatha, V.** and Rajendra W. (2010). The antiepileptic effect of *Centella asiatica* on the activities of Na^+ / K^+ , Mg^{2+} and Ca^{2+} - ATPases in rat brain during pentylenetetrazol induced epilepsy. **Indian J Pharmacol.** 42: 81-85. **(I.F. 0.35) ISSN 0253-7613. Citations: 14.**
20. Visweswari, G., Siva Prasad, K., Chetan, P.S., **Lokanatha V.** and Rajendra W. (2010) Evaluation of anticonvulsant effect of *Centella asiatica* (Gotu kola) in Pentylenetetrazole-induced epilepsy with reference to cholinergic neurotransmission. **Epilepsy & Behaviour** 17: 332-335. **(I.F. 2.33) ISSN: 1525-5050. Citations: 11**

2009

21. Siva Prasad, K., **Lokanatha V.**, Visweswari G. and Rajendra W. (2009). Alterations in the zinc levels of N-hexane and chloroform extracts of *Centella asiatica* in rat. **Indian J. of Comparative Animal Physiology** 27(1): 77-80. **ISSN: 0255-7150**
22. Siva Prasad, K., Visweswari, G., Komali, E., **Lokanatha, V.**, Rajendra, W. (2009). "Alterations in the muscle carbohydrate metabolism during PTZ-induced epilepsy: Protective role of *Centella asiatica*". (Editors: K.R.S Samba Siva Rao & Dr. R.S. Prakasham). In: **Emerging Trends in Biomedical Research**. Pp.369-385. **ISBN 978-81-90886-1-5.**
23. Visweswari, G., Siva Prasad, K., **Lokanatha, V.**, Rajendra, W. (2009). "Epilepsy: Antiepileptic drugs versus Herbal therapy". (Editors: K.R.S Samba Siva Rao). In: **Emerging Trends in Modern Biology**. Pp. 245-260. **ISBN 978-81-90886-1-5.**

2008

24. **Lokanatha, V.** Siva Prasad, K and Rajendra, W. (2008). "Fractionation of scorpion (*Mesobuthus tamulus*) venom and the impact of specific fractions on the metabolism of catecholamines". **Proc. A.P. Akademi of Sciences** 12(4): 366-372. **ISSN 0972-3358**
25. K. Srikanth, P. Sahitya Chetan, **V. Lokanatha,** G. Visweswari and W. Rajendra (2008). Alterations in membrane bound alkaline phosphate and ATPase activities in selected tissues of wistar rats during phosphamidon toxicity. **Toxicol. Int.** 15(2): 79-84. **ISSN: 09716580**

2006

26. N. Suhasini, **V. Lokanatha,** P.S. Chetan and W. Rajendra. (2006). Alterations in the protein catabolism and transamination pattern in the rat liver on repeated hexachlorophene treatment. **Toxicol. Int.** 13 (1): 33-38. **ISSN: 09716580**

27. Jorge E. Hachmeister*, **Lokanatha Valluru***, Fengo Bao, Danxia Liu (2006). Mn (III) Tetrakis (4-Benzoic Acid) porphyrin administered into the intrathecal space reduces oxidative damage and neuron death after spinal cord injury: A comparison with Methylprednisolone. **J. of Neurotrauma** 23 (12): 1766-1778 (* equal contribution) (I.F. 4.64) ISSN: 0897-7151. Citations: 17

2005

28. **Lokanatha Valluru**, Jian Xu, Yongling Zhu, Sheng Yan, Anis Contractor and Geoffrey T. Swanson (2005). Ligand Binding Is a Critical Requirement for Plasma Membrane Expression of Heteromeric Kainate Receptors. **J. Biol. Chem.** 280(7): 6085–6093. (I.F. 7.2) ISSN 0021-9258. Citations: 49

2004

29. Sheng Yan, James M. Sanders, Jian Xu, Yongling Zhu, Anis Contractor and Geoffrey T. Swanson. (2004). A carboxy-terminal of GluR6 kainate receptor trafficking. **J. of Neuroscience** 25: 671-694. (**Lokanatha V.** acknowledged for techniques). (I.F. 8.2) ISSN 0270-6474. Citations:59

2002

30. **Lokanatha, V.**, Rajendra, W. (2002). Fractionation of scorpion (*Buthus tamulus*) venom and the impact of specific fractions in glutamate metabolism. **J. Biochem. Mol. Biol. and Biophysics.** 6(3): 167-170. (I.F. 1.4) ISSN: 1025-8140. Citations: 5

2000

31. **Lokanatha, V.**, Naidu, C.V., Prasad Reddy, B. and Rao, P.S. (2000). HPLC determination of Azadirachtin content in different agroclimatic zones of Andhra Pradesh. **J. of Non-timber forest products** 71(2): 73-76. ISSN 1927-0488

1999

32. **Lokanatha, V.**, Sailaja, P. and Rajendra, W. (1999). *In vitro* kinetics of the rat brain succinate dehydrogenase inhibition by hexachlorophene. **J. of Biochemical and Molecular Toxicol.** 13 (6): 303-306. (I.F. 1.96) ISSN: 1099-0461. Citations:2

1997

33. Prasad, G.V., **Lokanatha, V.**, Sreekanth, K. and Rajendra, W. (1997). Purification and kinetic properties of *Mus booduga* (Gray) hepatic arginase. **J. Enzyme Inhibition** 12(4): 255-272. (I.F. 1.2) ISSN 1475-6366: Citations: 1

1996

34. **Lokanatha, V.** and Rajendra, W. (1996). The fate of glutamate in different brain regions of chick during Newcastle Disease Virus (NDV) Infection. **Biochem. and Mol. Biol. Intl.** 38(2): 215-221. (I.F. 0.5) ISSN: 1039-9712. Citations:3
35. **Lokanatha, V.** and Rajendra, W. (1996). Alterations in Cholinergic transmission in different Brain Regions of Chick during Newcastle Disease Virus (NDV) Infection. **Ind. J. Exptl. Biol.** 34, 478-479. (I.F. 0.7) ISSN: 0019-5189
36. **Lokanatha, V.**, Sailaja, P. and Rajendra, W. (1996). Effect of hexachlorophene on the cytochrome oxidase and ATPase systems in the tissues of rat. **Indian J. of Toxicol.** 3(2): 19-24. ISSN: 09739122

1995

37. **Lokanatha, V.** and Rajendra, W. (1995). Catecholaminergic transmission in different brain regions of chick during Newcastle Disease Virus (NDV) infection. *Biochem. and Mol. Biol. Intl.* **36(1)**: 95-100. **(I.F. 0.5) ISSN: 1039-9712. Citations: 2**

1994

38. Sathyavelu Reddy, K., **Lokanatha, V.**, Rajendra, W. and Indira, K. (1994). Hydromineral balance in *L. marginalis* under methyl parathion (MP) stress. *Indian J.Comp.Anim.Physiol.* **12(2)**: 48-53. **ISSN: 0255-7150**

Conference / Seminar Participated / Attended : 32