

**J.Naveena Lavanya Latha**

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**Academic and Professional qualifications:**

Assistant Professor (Oct-2009 to till date) Department of Biotechnology, Krishna University, Machilipatnam.

Scientist (2006 July-2009 Oct) Dr.Reddys laboratories, Hyderabad.

DBT Postdoctoral fellow (2005 July-2006 June) CCMB, Hyderabad.

Research associate (2004 May-June-2005) Dept of Biochemistry, Osmania University, Hyderabad.

Ph.D (2005) Biochemistry, O.U

Title of the thesis: "Toxic metal ion interactions with cell wall bound calcium in *Neurospora crassa*: implications on metal transport and calcium homeostasis".

M.Sc (1999) Biochemistry, ANU.

First division

**Awards & Honours:**

1. Gold medal for aquitring highest marks in Botany during Undergraduation
2. Junior Research Fellowship award by CSIR (1999-2001)
3. Senior Research Fellowship award by CSIR (2001-2004)
4. Postdoctoral fellowship award by DBT (2005-2006)
5. Best poster award and Rs. 5000 cash prize by Madras diabetes research institute in Indo-swedish symposium on proteomics and genomics of diabetes, Chennai (2006).

**Research Publications**

1. Metal transport in *Neurospora crassa*—surface-bound metal ions are not transported into cells. **Naveena Lavanya Latha, J.** and P. Maruthi Mohan –Canadian J. Microbiol. 51, 1-6pp., 2005.

2. Biosorption of inorganic and methyl mercury by a biosorbent from *Aspergillus niger*. D.Karunasagar, J.Arunachalam, K.Rashmi, **J.Naveena Lavanya Latha**, and P. M. Mohan. In *World Journal of Microbiology and Biotechnolog,y* , 19, 291-295 (2003).

3. Cobalt-resistance in wall-less mutant (fz; sg; os-1) of *Neurospora crassa*. R.Sri Rajyalaxmi, **J.Naveena Lavanya Latha**, K.Rashmi and P.Maruthi Mohan. *Biometals*,16, 529-537 (2003) (IMPACT FACTOR-3.45)

4. *Neurospora* in full bloom. **J.Naveena Lavanya Latha**, K.Rashmi, T.N.Sowjanya, P.Kiranmayi and P.Maruthi mohan, *Current Science*, 85, 1670-1672 (2003) (IMPACT FACTOR-0.967)

5. Bioremediation of toxic metal ions with alkali extracted biosorbent prepared from spent waste biomass of *Aspergillus fumigatus*. Karna Rama Rao, **J.Naveena Lavanya Latha**, K.Rashmi and P.Maruthi Mohan. Indian Journal of Biotechnology, 2005. (IMPACT FACTOR-0.5)

6. P.Maruthi Mohan, **J.Naveena Lavanya Latha** and K.Rashmi. Metal resistance in *Neurospora crassa*. In *Proceedings of National Symposium on Developments in Microbial Biochemistry and its impact on Biotechnology (book) 2002*. Osmania University, Hyderabad, India (2002). pp. 103- 121.

7. **J. Naveena Lavanya Latha** and P. Maruthi Mohan. Calcium mobilization in *Neurospora crassa*. Frontiers in plant sciences (book) (pg 381-394) Eds. KK Mukerji, KVBR Tilak, SM Reddy, LV Gangwane, P Prakash, IK Kunwar (2005) IK Intl Pvt Ltd, New Delhi, India.

8. Role of cell wall bound calcium in *Neurospora crassa*. **Naveena Lavanya Latha, J.** and P.Maruthi Mohan—Microbiological Research, Published online in Jan 2011. (IMPACT FACTOR-2.1)

9. Penumaka Nagababu, **J. Naveena Lavanya Latha**, Pallavi, P., Satyanarayananana, S. Studies on antimicrobial activity of Co (III) complexes, *Canadian Journal of microbiology* 52 (12) 1247-1254 (2006). (IMPACT FACTOR-1.262)

10. Penumaka Nagababu, **J. Naveena Lavanya Latha**,. Satyanarayananana, S. DNA-binding studies of mixed-ligand Ruthenium (II) ethylenediamine complexes *Chemistry & Biodiversity* Vol. 3 1219-1229 (2006). (IMPACT FACTOR-1.926)

11. P.Pallavi, PenumakaNagababu, **J.Naveena Lavanya Latha**, Satyanarayana.S. *Helve. Chem. Act.* Vol. 90 (2007) 627-639. (IMPACT FACTOR-1.435)

12. Penumaka Nagababu, Mynam Shilpa, Sirasani Satyanarayana, **Jeevignunta Naveena Lavanya Latha**, K.S. Karthikeyan, Mediseti Rajesh . Interaction of cobalt(III) polypyridyl complexes containing asymmetric ligands with DNA *Transition Met Chem* (2008) 33:1027–1033. (IMPACT FACTOR-1.223)

13. Penumaka Nagababu, **J. Naveena Lavanya Latha**, M. Rajesh and Satyanarayana, S. DNA-Binding and Cytotoxicity of the Cobalt(III) Ethylenediamine Pyrazole Complex  $[\text{Co}(\text{en})_2(\text{pyz})_2]^{3+}$  *Journal of Iranian chemical society* Vol. 6, No. 1, March 2009, pp. 145-152. (IMPACT FACTOR-1.36)

14. Penumaka Nagababu, **J. Naveena Lavanya Latha**, Y. prashanthi. Satyanarayana, S. DNA-binding and photocleavage studies of cobalt (III) ethylenediamine complexes:  $[\text{Co}(\text{en})_2\text{phen}]^{3+}$  and  $[\text{Co}(\text{en})_2\text{bpy}]^{3+}$  *Journal of Chemical and Pharmaceutical Research*, 2009, 1(1): 238-249. (IMPACT FACTOR-1.175)

15. Penumaka Nagababu, Mynam Shilpa, **J.Naveena Lavanya Latha**, Ira Bhatnagar, P.N.B.S.Srinivas Y. Praveen Kumar, K. Laxma reddy, and Satyanarayana,S. Synthesis,

Characterization, DNA Binding Properties, Fluorescence Studies and Toxic activity of cobalt(III) and ruthenium(II) polypyridyl complexes (Article in press *Journal of Fluorescence*, JOFL1266R1) (IMPACT FACTOR-2.017)

16. Mynam Shilpa, Penumaka Nagababu, Y. Praveen Kumar, **J. Naveena Lavanya Latha**, M. Rajender reddy, K.S. Karthikeyan<sup>3</sup>, and S. Satyanarayana Luminescence studies with CT-DNA and toxic activity of Ethylenediamine ruthenium(II) complexes with Dipyrindophenazine ligands (Article in press *Journal of Fluorescence*, JOFL1412) (IMPACT FACTOR-2.017)

17. Mynam.Shilpa, **J. Naveena Lavanya Latha**, A.GayatriDevi, A.Nagarjuna, Yata Praveen Kumar, Penumaka Nagababu, and S.Satyanaraayana DNA - interactions of ruthenium(II) & cobalt(III) phenanthroline and bipyridine complexes with a planar aromatic ligand 2-(2-fluoronyl) 1H-imidazo [4, 5-f] [1,10Phenanthroline] (Article in press *Journal of Inclusion Phenomena and Macrocyclic Chemistry*) (IMPACT FACTOR-1.165)

18. Mynam Shilpa, Penumaka Nagababu, **J. Naveena Lavanya Latha**, Ramjee Pallela, Janapala Venkateswara Rao, K. Aravind and S. Satyanarayana, DNA - interactions and cytotoxic studies of ruthenium(II) ethylenediamine complexes with modified dipyrindophenazine ligands (*Journal of Fluorescence*)

19. Cloning and expression of human islet amyloid polypeptide in cultured cells. **J. Naveena Lavanya Latha**, Susinjan Bhattacharya, R.Kumaresan and S.Shashi Singh, Biochemical and Biophysical Research Communications 356 (2007) 622–628. (IMPACT FACTOR-2.75)

#### **Conferences attended:**

1. 70<sup>th</sup> Annual Meeting of the SBC (I), Osmania University, Hyderabad, India, Dec-2001.
2. 22<sup>th</sup> Fungal Genetics Conference, Asilomar, California, USA, Mar-2003.
3. 55<sup>th</sup> Ann. Meeting of the Indian Phytopathological Society (IARI), O.U., India, Jan-2003.
4. Paper presented in “M. J. Narasimhan merit academic award contest” (zonal level) in National symposium on “Plant pathogens diversity in relation to plant health” organized by Dept of Botany, O. U., Hyderabad, India, Jan-2003.
5. Paper presented for Young Scientist Award contest in ‘National Seminar On Modern Biology, Nagarjuna University, Guntur, India, Aug-2003.
6. Paper presented in ‘National Conference on Biodiversity and Applied Biology of Plants’ Dept of Botany, University of Lucknow, India, Jan-2003.
7. 10<sup>th</sup> FAOBMB Congress, Bangalore, India, Dec-2003.
8. 18<sup>th</sup> international conference on Cell biology, Lucknow, Aug-2004.
9. 19<sup>th</sup> international conference on Cell biology, Lucknow, Jan-2006.
10. Indo-swedish symposium on proteomics and genomics of diabetes, Chennai, 2006.
11. Poster presented on “**Mercury toxicity in Machilipatnam coastal region**” in International conference on Biodiversity and aquatic toxicology held on 12-14<sup>th</sup> February, 2011 by ANU.

12. Paper presented in “Lake Kolleru-the wet land ecosystem: conflict between development and environment” has been organized on 2-3 february, 2011

Other Information:

- Organizing Treasurer for National level seminar on “Lake Kolleru-the wet land ecosystem: conflict between development and environment” has been organized on 2-3 february, 2011
- Adhoc reviewer for Pharmaceutical Biology journal
- Ongoing Research Projects: Project entitled “Characterization of calcium binding proteins from cell wall of Neurospora crass” has been sanctioned under DST Fast track young scientist (Major-22 lacs)

**PERSONAL DETAILS:**

**Date of Birth** : 11<sup>th</sup> August, 1977.

**Nationality** : Indian

**Marital Status** : Married