Curriculum vitae

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**1. Name** Dr. Shrish Tiwari 

**2. Designation** Scientist [Group IV(4)]

**3. Dept/Instt.** Bioinformatics Centre

Centre for Cellular and Molecular Biology

# Uppal Road, Hyderabad – 500 007

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**4. Date of Birth** 9/11/65 **Sex (M/F)** M **SC/ST** N.A.

**5. Educational Qualifications**

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| **Degree** | **Institution** | **Subject** | **Year** |
| B.Sc. | Sri Aurobindo International Centre of Education, Pondicherry | Physics, Chemistry, Maths, English, French, Computer Programming | 1986 |
| M.Sc. | Indian Institute of Technology, Kanpur | Physics | 1990 |
| Ph.D | Jawaharlal Nehru University, New Delhi | Studies in complexity: Applications to dynamical systems and genomic sequences | 1997 |

**6. Research Experience**

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| Duration | **Institution** | **Particulars of work done** |
| 1/10/96-30/4/97 | National Chemical Laboratory, Pune | Wavelet analysis of chaotic dynamics |
| 1/5/97-15/4/99 | Centre for Cellular and Molecular Biology, Hyderabad | Protein sequence analysis to predict stabilising mutations and predict secondary structure |
| 20/4/99-19/4/2001 | National Institutes of Health, USA | Design of physical potential for *ab initio* folding of proteins |

**7. Position and Employment** (Starting with the most recent employment)

Scientist IV(2) from May, 2001 - Apr 2006 at the Centre for Cellular and Molecular Biology, Hyderabad

Scientist IV(3) from May, 2006 - Apr 2012 at the Centre for Cellular and Molecular Biology, Hyderabad

Scientist IV4) from May, 2012 - present at the Centre for Cellular and Molecular Biology, Hyderabad

**Publications:** 14

1. Reddy, B.V.B., Ramesh, P. and Tiwari, S. 1998 “MEICPS: A program to suggest substituted point mutations to engineer intracellular protein stability”, *Bioinformatics* **14**, 225-226.
2. Reddy, B.V.B., Datta S. and Tiwari, S. 1998 “Use of propensities of amino acids to the local structural environments to understand effect of substitution mutations on protein stability”, *Protein Engineering* **11**, 1137-1145.
3. Tiwari, S. and Reddy, B.V.B. 1999 “A statistical analytical approach to predict secondary structure of proteins from amino acid sequence information”, *Theoretical Chemistry Accounts* **101**, 46-50.
4. The Indian Genome Variation Consortium, 2005 (Authors from CCMB: Lalji Singh, G.R. Chandak, K. Thangaraj, M. Idris, K. Radha Mani, Seema Bhaskar and Shrish Tiwari) “The Indian Genome Variation databases (IGVdb): a project review”, *Human Genetics* **118**, 1-11.
5. Jehan, Z., Vallinayagam, S., Tiwari, S., Pradhan, S., Singh, L. Suresh, A., Reddy, H.M., Ahuja, Y.R. and Jesudasan, R.A. 2007 “Novel non-coding RNA from human Y distal heterochromatic block (Yq12) generates testis-specific chimeric Cdc2L2”, *Genome Research* **17**, 433-440.
6. The Indian Genome Variation Consortium, 2008 (Authors from CCMB: Lalji Singh, G.R. Chandak, K. Thangaraj, M. Idris, K. Radha Mani, Seema Bhaskar and Shrish Tiwari) “Genetic landscape of the people of India: a canvas for disease gene exploration”, *Journal of Genetics* **87**, 3-20.
7. Y.D. Paila, S. Tiwari and A. Chattopadhyay, 2009 “Are specific nonannular cholesterol binding sites present in G-protein coupled receptors?”, *Biochimica et Biophysica Acta (Biomembranes)* **1788**, 295-302.
8. A. Bhardwaj, M. Mukherji, S. Sharma, J. Paul, C.S. Gokhale, A.K. Srivastava and S. Tiwari (2009) “MtSNPscore: a combined evidence approach for assessing cumulative impact of mitochondrial variations in disease”, *BMC Bioinformatics* **10 (Suppl 8)**, S7.
9. S.K. Saxena, N. Mishra, R. Saxena, M.L. Arvinda Swamy, P.Sahgal, S. Saxena, S. Tiwari, A. Mathur and M.P. Nair (2010) “Structural and antigenic variance between novel influenza A/H1N1/2009 and influenza A/H1N1/2008 viruses”, *J. Infect. Dev. Ctries* **4**, 001-006.
10. Y.D. Paila, S. Tiwari, D. Sengupta and A. Chattopadhyay (2011) “Molecular modelling of the human serotonin1A receptor: role of membrane cholesterol in ligand binding of the receptor”, *Mol. Biosys.* **7**, 224-234.
11. Md. Jafurulla, S. Tiwari and A. Chattopadhyay (2011) “Identification of cholesterol recognition amino acid consensus (CRAC) motif in G-protein coupled receptors”, *Biochem. Biophys. Res. Comm.* **404**, 569-573.
12. A. Chaturvedi, S. Tiwari and R.A. Jesudasan (2011) “RiDs db: Repeats in diseases database”, *Bioinformation* **7**, 96-97.
13. A. Chattopadhyay, Y.D. Paila, S. Shrivastava, S. Tiwari, P. Singh and J. Fantini (2012) “Sphingolipid-binding domain in the serotonin1A receptor”, *Adv. Exp. Med. Biol.* **749**, 279-93.
14. **Rimpi Khurana, Vinod Kumar Verma, Abdul Rawoof, Shrish Tiwari, Rekha A Nair, Ganesh Mahidhara, Mohammed M Idris, Alan R Clarke**and**Lekha Dinesh Kumar (2014) “OncomiRdbB: a comprehensive database of microRNAs and their targets in breast cancer”, *BMC Bioinformatics* 15, 15.**