

## CURRICULAM VITAE - Dr. P. VISWANATHAMURTHI



### Qualification

- M.Sc., Bharathiar University, Coimbatore, India (1994)
- M.Phil., Bharathiar University, Coimbatore, India (1995)
- Ph.D., Bharathiar University, Coimbatore, India (1999)

### Areas of research

- Coordination chemistry of transition metal complexes
- Catalysis by coordination/organometallic complexes
- DNA binding, photocleavage and biological studies of metal complexes

### Membership in professional bodies

- Indian Chemical Society
- Indian Council of Chemists
- Indian Science Congress

### Awards

- Qualified CSIR-NET
- Young Scientist Fast Track Project from DST
- BOYSCAST Fellowship from DST

### Visits abroad

- Long-term visiting Fellowship (2002-03) – Chonbuk National University, South Korea
- Long-term visiting Fellowship (BOYSCAST Fellowship, 2008-09) – Shinshu University, Japan
- Visiting Professorship (May 2011-July 2011) – Sophia University, Japan

- Visiting Professor (June 2013) – Vienna University of Technology, Vienna, Austria
- Visiting Professor (April 2014-May 2014) – University of Santiago de Compostela, Spain

### Selected recent publications (h Index: 16)

1. Ruthenium(II) hydrazone Schiff base complexes: Synthesis, spectral study and catalytic applications  
R. Manikandan, **P. Viswanathamurthi** and M. Muthukumar  
*Spectrochim. Acta Part A*, **83**, 297-303 (2011)
2. Evaluation of DNA-binding, radical scavenging and cytotoxic activity of five coordinated Cd(II) complexes containing 2-acetylpyridine-N<sup>4</sup>-substituted thiosemicarbazone.  
R. Manikandan, N. Chitrapriya, Y.J. Jang and **P. Viswanathamurthi**  
*RSC Advances* **3**, 11647-11657 (2013)
3. Physicochemical studies of glucose, gellan gum and hydroxypropyl cellulose – Inhibition of cast iron corrosion  
V. Rajeswari, D. Kesavan, M. Gopiraman and **P. Viswanathamurthi**  
*Carbohydrate polymers* **95**, 288-294 (2013)
4. Ruthenium(II) carbonyl complexes containing s-methyl isothiosemicarbazone based tetradentate ligand: Synthesis, characterization and biological applications.  
S. Selvamurugan, R. Ramachandran and **P. Viswanathamurthi**  
*Biometals* **26**, 741-753 (2013)
5. Synthesis, characterization, DNA interaction, antioxidant and anticancer activity of new ruthenium(II) complexes of thiosemicarbazone/semicarbazone bearing 9,10-phenanthrenequinone  
P. Anitha, N. Chitrapriya, Y.J. Jang and **P. Viswanathamurthi**  
*J. PhotoChem. PhotoBiol., B* **129**, 17-26 (2013)
6. Synthesis, characterization and crystal structure of cobalt(III) complexes containing 2-acetylpyridine thiosemicarbazones: DNA/protein interaction, radical scavenging and cytotoxic activities  
R. Manikandan, **P. Viswanathamurthi**, K. Velmurugan, R. Nandhakumar, A. Endo and T. Hashimoto  
*J. PhotoChem. PhotoBiol., B* **130**, 205–216 (2014)

7. Efficient and Versatile Catalysis of N-alkylation of Heterocyclic Amines with Alcohols and One-pot Synthesis of 2-aryl Substituted Benzazoles with Newly Designed Ruthenium(II) Complexes of PNS Thiosemicarbazones  
R. Ramachandran, G. Prakash, **P. Viswanathamurthi**, J.G. Malecki and T. Ramkumar  
*Dalton Trans.*, **43** (21), 7889 – 7902 (2014)
8. Synthesis, structure and in vitro biological activity of pyridoxal N(4)-substituted thiosemicarbazone cobalt(III) complexes  
R. Manikandan, P. Vijayan, P. Anitha, G. Prakash, **P. Viswanathamurthi**, R.J. Butcher, K. Velmurugan and R. Nandhakumar  
*Inorg. Chim. Acta*, **421**, 80–90 (2014)
9. Dissymmetric thiosemicarbazone ligands containing substituted aldehyde arm and their ruthenium(II) carbonyl complexes with PPh<sub>3</sub>/AsPh<sub>3</sub> as ancillary ligands: Synthesis, Structural characterization, DNA/BSA interaction and *in vitro* anticancer activity  
P. Vijayan, **P. Viswanathamurthi**, V. Silambarasan, D. Velmurugan, K. Velmurugan, R. Nandhakumar, R.J. Butcher, T. Silambarasan and R. Dhandapani  
*J. Organomet. Chem.*, **768**, 163-177 (2014)

### Contact

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