

NARWANE MANMATH NAGESHAPPA / Ph.D.



Nationality: Indian

Language: English, Marathi, Hindi

Autobiography:

Neil Armstrong said nicely "Research is a creating new knowledge" we should find an opportunity and place to create a new knowledge.

During my PhD studies in Kaohsiung Medical University, I learned the most important lessons of life to deal with the problems. In either way, I learned to understand research and with daily life situations. I think higher education not only teach you the tackle the research question but also make your thinking mature and reasonable.

My research in Prof. Sodio lab was focuses on the small molecule activation such as nitric oxide. In this study, we used copper(I) metal source and with second coordination sphere effect we performed the NO release studies and we collaborated with your team for biological NO release studies. Another project I worked with ruthenium nitrite complexes and we performed the anticancer studies, which shows the synergistic effect of NO, and ruthenium on cisplatin resistant melanoma cancer cell lines with enhanced cytotoxicity. Indeed, I also worked on the iron, copper and zinc complexes and studied their solid state and solution state behaviors, hydrogen-bonding interaction with second coordination sphere.

Apart from research, there are plenty of things learned in this university an international exposure, multicultural gatherings and great facilities to perform the different activities.

Doctoral:

Institute: Kaohsiung Medical University, Kaohsiung

Research field: Bioinorganic Chemistry

Thesis supervisor / Co-advisor: Prof. Sodio C.N. Hsu

Master:

Institute: College of Pharmacy, University of Pune, India

Research field: Medicinal Chemistry

Thesis supervisor / Co-advisor: Dr. D.P. Belsare

Publication:

- 1. Title:** Nitric oxide release studies of a bio-inspired copper (I) nitrito complex under chemical and biological conditions.
W.-J. Chuang, **M. Narwane**, H.-Y. Chen, C.-L. Kao, B. Huang, K.-M. Hsu, Y.-M. Wang and S. C. N. Hsu, *Dalton Transactions*, 2018, **47**, 13151-13157. **IF-4.099** (equal contribution)
<https://pubs.rsc.org/en/content/articlelanding/2018/dt/c8dt02281j>
- 2. Title:** Structure and nitrite reduction reactivity studies of bio-inspired copper(I) nitro complexes in steric and electronic consideration of tridentate nitrogen ligands
Y.-L. Chang, Y.-F. Lin, W.-J. Chuang, C.-L. Kao, **M. Narwane**, H.-Y. Chen, M. Y. Chiang and S. C. N. Hsu, *Dalton Transactions*, 2018, **47**, 5335-5341. **IF-4.099**
<https://pubs.rsc.org/en/content/articlelanding/2018/dt/c7dt03843g>
- 3. Title:** Investigation on the Coordination Behaviors of Tris(2-pyridyl)pyrazolyl Borates Iron(II) Complexes
Manmath Narwane, Yu-Lun Chang, Wei-Min Ching, Ming-Li Tsai, Sodio C.N. Hsu,
Inorganica Chimica Acta, 2019, **495**,118966. **IF- 2.433**
<https://www.sciencedirect.com/science/article/pii/S0020169319304815>