**Nanishankar V. Harohally**

Senior Scientist

Spice and Flavor Science Department

Central Food Technological Research Institute

Mysore-570020

Email: nani.shankar@gmail.com, nani@cftri.res.in

***Academics:***

B.Sc. (PCM), Bangalore University

M.Sc in Chemistry from Bangalore University

Ph.D. in Chemistry from Indian Institute of Science, Bangalore

Postdoctoral fellow, Chemistry and Biochemistry Department, University of Maryland, College Park, USA

***Teaching experience:***

One year chemistry teaching at R.V College of Engineering, Bangalore

***Industrial experience:***

Scientist, Cookson India Research Centre, Yeshawanthpur, Bangalore,

Feb **2007**- June **2008**

Visiting Scientist, Cookson Electronics Assembly Materials R&D center,

Hiratsuka, Kanagawa, Japan, June **2007**

**Research Interest**

1) Chemistry of interesting Spice and Flavor molecules

2) Carbohydrate Chemistry

3) Application of NMR Spectroscopy to solve interesting chemistry and food science problems

4) NIR and IR based method development for food analytics

5) Homogeneous catalysis

6) Nano materials

7) Heterocyclic chemistry

***Patents:***

1) Isolation & characterization of 4,9,14,19-tetramethyl-1,6,11,16-tetraoxacycloicosa-3,8,13,18-tetraene a novel antiangiogenic, antioxidant & proapoptotic compound from the leaves of Memecylon malabaricum RNG Dharmappa, J. Krishnamurthy, SM Aradhya, Nanishankar V Harohally IN Patent App. No.3437/CHE/2012 A (**2014**)

***Publications:***

1) Synthesis and antimicrobial activity of Schiff bases derived from 2-chloro quinoline-3-carbaldehyde and its derivatives incorporating 7-methyl-2-propyl-3*H*-benzoimidazole-5-carboxylic acid hydrazide. Bhargava K Mallandur, Gururaja Rangaiah, Nanishankar V Harohally,* Synthetic communications, **2017**(accepted)

2) Synthesis, Characterization and antimicrobial activity Of Schiff bases derived from 2- hydroxyquinoline-3-Carbaldehydes Bhargava K Mallandur, Gururaja Rangaiah, Nanishankar V Harohally,* Indian Journal of Heterocyclic chemistry, **2016**, 26 (1&2), 75-80

3) O-hydroxy Schiff bases derived from 2-hydroxy-4-methoxy Benzaldehyde: Synthesis,X-ray studies and hydrogen bonding attributesA. L. Amruthakala, Nanishankar V.Harohally,* S. Naveen, M.Ramegowda, N.K.Lokanath Molecular crystals and Liquid crystals, **2016**, 629 (1), 146-157

4) $ZnCl_2$-mediated practical protocol for the synthesis of Amadori ketoses Nanishankar V Harohally,* SM Srinivas, S Umesh. Food chemistry, **2014**, 158, 340-344

5) Antioxidant and anticoagulant activity of polyphenol and polysaccharides from fermented Sargassum sp. P Shobharani, VH Nanishankar, PM Halami, NM Sachindra.International journal of biological macromolecules, **2014**, 65, 542-548

6) Improved synthesis of lysine-and arginine-derived Amadori and Heyns products and in vitro measurement of their angiotensin I-converting enzyme inhibitory activity SM Srinivas, Nanishnakar V Harohally,* Journal of agricultural and food chemistry, **2012**, 60 (6), 1522-1527

8) Dynamics of a *cis*-Hydride/dihydrogen complex of Iridium. Nanishankar, H.V.; Dutta, S.; Nethaji, M.; Jagirdar. B. R. *Inorg. Chem.* **2005,** *44*, 6203-6210

9) Synthesis and Characterization of the first example of dicationic dihydrogen complex of Iron and Ruthenium with the $PF_3$ ligand. Nanishankar, H.V.; Nethaji, M.; Jagirdar. B. R. *Euro. J. Inorg. Chem.* **2004**, *15*, 3048-3056

10) Dicationic dihydrogen complexes of Iron with almost no Fe-$\eta^2$-$H_2$ bonding. Nanishankar, H.V.; Nethaji, M.; Jagirdar.B. R. *Indian J. Chem.* **2003**, *42A*. 2332-2338

11) Some new dicationic diydrogen complexes of Ruthenium. Majumdar K. K: Nanishankar, H.V.; Jagirdar. B. R. *Euro. J. Inorg. Chem.* **2001**, 1847-1853