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I N D I A

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After obtaining Ph. D in Organic chemistry from IIT-Delhi, Dr. Kantevari started his research in 1997 at speciality chemicals division, CSIR-IICT. As NIH research fellow at Drexel university, Philadelphia (2001-03 and 2007-08), he has developed imaging agents for probing Alzheimer disease and synthesized new molecules for controlling signalling cascade and cellular chemistry. At IICT for last 26 years, he has carried out 32 industry and basic research projects and developed international collaborations with Institute of molecular biosciences, University of Queensland, Australia and Influenza Research Institute, St-Petersburg, Russia. Dr. Kantevari has over 142 research publications and 5 patents to his credit. He is currently mentoring 6 students for Ph.D. and 12 students got their Ph.D awarded and has trained 42 students for MSc / MPharm thesis. He delivered >50 invited lectures in various conferences, research and educational institutes in India and abroad. He is among the world top 2% scientists named by Stanford University, USA.

EXPERTISE

Core expertise is in synthetic organic chemistry oriented towards process development of crop protection chemicals, drug molecules and their intermediates; Impurity profiling of agrochemicals and their synthesis; development of various analogues of natural products such as noscapine and usnic acid; synthesis of biologically active fused heterocycles and active pharmaceutical ingredients.

EDUCATION:

1991 M.Sc. (Applied Chemistry), NIT, Warangal.

1996 Ph.D. Department of Chemistry, IIT Delhi.

Thesis title: Synthesis of new calix(n)arenes for ionic and molecular recognition. *Supervisor*: Prof. H.M. Chawla.

PROFESSIONAL EXPERIENCE

2018-: Sr. Principal Scientist, CSIR-IICT, Hyderabad.

2013-2018: Principal Scientist, CSIR-IICT, Hyderabad.

2008-2013: Senior Scientist, CSIR-IICT, Hyderabad.

2001-2008: Scientist-C, CSIR-IICT, Hyderabad.

2007-2008: NIH Research fellow, Drexel University college of Medicine, Philadelphia, USA.

2001-2003: Post-doctoral fellow, Drexel University college of Medicine, Philadelphia, USA.

1997-2001: Scientist B, CSIR-IICT, Hyderabad.

1996-1997: Research Associate, National Institute of Immunology, New Delhi.

SELECTED PROJECTS COMPLETED/ONGOING:

Industry Sponsored:

- ❖ A process for the preparation of fungicide, Cyazofamid
- ❖ Impurity profile of an agrochemical- Bifenthrin technical.
- ❖ New chemical entities to screen their Insecticidal, Fungicidal and Herbicidal activity.
- ❖ Improved process for Fluconazole and Sugammadex.
- ❖ Process for the preparation of LOSARTAN-K, an Angiotensin receptor antagonist.
- ❖ Value added products from n-butyl benzene.
- ❖ Cost-effective process for the conversion of 3-cyano pyridine to 2-chloronicotinic acid.
- ❖ Preparation of Inkjet dyes & other specialty chemicals.
- ❖ Synthesis of isoquinoline alkaloid, R-S NOSCAPHINE.

Academic:

- ❖ Development of novel heterocyclic compounds as inhibitors of influenza virus neuraminidase. (Indo-Russia-DST-RFBR project).
- ❖ Novel heterocyclic scaffolds for type II diabetes through targeting sodium-glucose co-transporter 2 (SGLT2) inhibition cascade: Synthesis and evaluation. (SERB, New Delhi)
- ❖ Novel immunomodulatory agents for type II diabetes through targeting the NLRP3 inflammasome signalling cascade (Indo-Australia- DBT-AISF project).
- ❖ Targeting specifically breast tumor cells by developing potent derivatives of tubulin binding anticancer agents, noscapine and conjugated with folic acid. (ICMR-New Delhi).
- ❖ Development of processes for Crop protection chemicals.

AWARDS & HONOURS

Member, American Chemical Society (ACS), USA;
Editorial Board Member-Merck Index Online-Royal Society of Chemistry, London; NIH Sr. Research Fellowship 2006-08;
Advisory editorial board member & reviewer for ACS, RSC, Wiley and Elsevier journals.

SELECTED PUBLICATIONS:

- ❖ Usnic Acid Enaminone-coupled 1,2,3-triazoles as Antibacterial and Antitubercular Agents, *J. Nat. Prod.*, **2020**, 83, 26-35.
- ❖ Copper-Catalyzed Glaser-Hey-Type Cross Coupling of 9-Ethynyl- α -Noscapine Leading to Unsymmetrical 1, 3-Diynyl Noscapinoids; *Asian J. Org. Chem.*, **2019**, 8 (8), 1495-1500.

- ❖ Synthesis of L-Rhamnose derived chiral bicyclic triazoles as novel sodium-glucose transporter (SGLT) inhibitor. *Org. Biomol. Chem.* **2014**, 12, 8415-8421.
- ❖ Design, synthesis and structure-activity correlations of novel dibenzo[b,d] furan, dibenzo[b,d]thiophene and N-methylcarbazole clubbed 1,2,3-triazoles as Potent Inhibitors of *Mycobacterium tuberculosis*. *J. Med. Chem.*, **2012**, 55 (8), pp 3911–3922.
- ❖ A practical guide to the synthesis and use of membrane permeant acetoxymethyl esters of caged inositolpoly phosphates *Nature Protocols*, **2011**, 6(3), 327.
- ❖ Two-color, two-photon uncaging of glutamate and GABA. *Nature Methods*, **2010**, 7(2), 123-126.