



Dr. Krishnam Raju Atcha, M.Sc., Ph.D
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Dr. Krishnam Raju was born in Warangal District, T.S., India. He has obtained his Masters Degree, M.Sc. in *Medicinal Chemistry* from Osmania University, Hyderabad in 2000 and B.Sc.(B.Z.C.) Degree; from Kakatiya University, Warangal in 1997. Dr. Raju has carried out his doctoral research work at IICT, Hyderabad under the supervision of Dr. J. S. Yadav, Bhatnagar Awardee, former Director, IICT and obtained Ph.D Degree in 2007. During doctoral research work Dr. Raju has accomplished the stereoselective total synthesis of anti-tumor agents: both enantiomers of goniothales diol, altholactone, and isoaltholactone as well as the first total synthesis of 6-hydroxy-4*E*-sphingenines. In addition to development of various novel synthetic methods successfully executed three, multi-step, industrial-IICT collaborative projects. Dr. Raju worked as a '*Postdoctoral research fellow*' at Prof. J. R. Falck's Laboratory in Department of Biochemistry, University of Texas Southwestern Medical Center at Dallas, Texas, USA between 2007 and 2008. There he was involved in the development of unique synthetic methodologies and synthesized stable analogues of EETs (epoxyeicosatrienoic acids) with clinically relevant vasomodulatory and renal activities.

He acquired proficient knowledge in design, synthesis and execution of several polyethylene glycol derived products, pegylation reactions, heterocyclic & optically active compounds while working as '*Research Scientist*' in medicinal chemistry program for Sai Advantium Pharma Ltd., Hyderabad between 2008 and 2009. While working at R&D, for Expicor Pharma Pvt. Ltd., Hyderabad as '*Scientific Officer*' he has gained experience and exposed to design and synthesis of anti-cancer and anti-viral compounds during 2006-2007. He also has experience in design and synthesis of anti-inflammatory (COX-2 inhibitors) compounds during the tenure as a '*Chemist*' at Dr. Reddy's Research Foundation, Hyderabad during 2000-2001.

Prior to joining with OU as '*Assistant Professor*' in Sep 2013, Dr. Raju worked as '*Assistant Professor*' in Dept of MC, NIPER-Hyderabad from Aug 2009 to Sep 2013. At NIPER he has involved in Teaching and Research along with some administrative/additional responsibilities such as- Course Coordinator for Dept of Medicinal Chemistry & Dept of Pharmaceutical Management, Aug 2011-5th Sep 2013; Placement Officer, Oct 2009-Aug 2011; Member, Academic Monitoring Committee; Advisory & Curriculum Committees Member, NIPER-IIBT-USP: Pharma/Biotech Training course; Scrutiny Committee Member, Examinations; Coordinator for Invited Lectures, 2010-2013.

Having blend of experience both in academia and industry, 10 years of teaching and 17 years of research, Dr. Raju has skill in synthetic organic chemistry, involved in design, synthesis and development of SAR, hit to lead, lead identification & lead optimization in different therapeutic areas. Expertise in preparation of focused libraries, NCE's and reference compounds required for the biological testing. His research interest includes, Targeting inter-disciplinary research problems in medicinal chemistry ranging from the development of novel synthetic methodologies to the synthesis of complex natural products. Synthesis of bioactive natural products/analogues, NCEs by using organocatalysis/asymmetric synthesis/organo-metallics and their biological evaluation for anti-cancer, anti-inflammatory, sEH inhibition and anti-microbial activities.

Under his supervision 28 Masters Students have successfully completed their one year dissertation projects and received their Master Degrees. Currently 7 research scholars are working with him for their Ph.D. degree. His research activities are supported by various funding agencies like UGC, DST and CSIR. He is a member of several committees of Nizam College, Osmania University.

His research work has been published in over 17 articles in leading international chemistry journals and also presented at several international/national conferences. He has delivered over 12 Invited/Guest Lectures, about 15 Oral/Poster presentations and conducted/participated in more than 25 international/national/state conferences/seminars. He is a Life member of Indian Council of Chemists (ICC), and Indian Science Congress Association (ISCA).