

## Excellence of Research work

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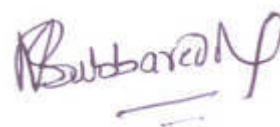
Dr. B. V. Subba Reddy has been working as a Chief Scientist in Fluoro & Agrochemicals Department @ IICT, Hyderabad. He is working mainly in the area of asymmetric synthesis, natural products synthesis and process development of APIs reflecting a high order of conceptual originality and experimental excellence.

- ❖ Published over **785** papers including **15** review articles and **6** book chapters so far in international journals. He has guided over **45** PhDs and presently more than **15** students are working for PhD and about 60 M.Sc/M.Pharmacy students have completed their dissertations.
- ❖ Number of Citations **23,098** by 23rd Aug 2023.
- ❖ Ranked as 16<sup>th</sup> Most Productive Scientist in India as reflected in the publication output of Scopus International database for the years 1996-2006. Achieved 5<sup>th</sup> rank in average citations per paper and 8<sup>th</sup> rank in H-index till 2006.
- ❖ Present H-index is **68** (ISI Web of Science).
- ❖ Ranked in Top 2% most influential scientists (Single Year) in **2023** Stanford University List: Analysis of Indian Researchers
- ❖ Ranked among top 2% scientists in world by Stanford University (**2020**).
- ❖ Ranked as 2nd most prolific authors in India in terms of number of papers and citations during 2004–2013 (Scientometric profile of organic chemistry research in India. *Current Science* **2015**, 109, 869-877).
- ❖ Recipient of Chemical Research Society of India (CRSI) Bronze Medal-**2016**
- ❖ Fellow of Telangana and Andhra Pradesh Academy of Sciences.
- ❖ Recipient of NASI-Reliance Industries Platinum Jubilee Award-**2014**
- ❖ Fellow of the National Science Academy **2013** (FNASc).
- ❖ Recipient of Alexander von Humboldt Fellowship **2010**, Germany (AvH).
- ❖ Recipient of CRSI Young Scientist **2010**
- ❖ Recipient of A V Rama Rao Young Scientist Award for **2009**.
- ❖ Recipient of Scopus Young Scientist Award for Chemistry **2008** Elsevier Sciences
- ❖ Recipient of Y S Raja Reddy Gold Medal in obtaining 1st rank in MSc for the year **1995**.
- ❖ Most Cited Paper Award 2003-2006 to the work published in *Tetrahedron Letts* **2003**, 44, 1047, from Elsevier Science, UK.
- ❖ Top 10 Cited Author **2011-2012** to the work published in *Tetrahedron Asymmetry* **2011**, 22, 530, from Elsevier Science, UK.
- ❖ He is the first to develop novel methodology for the construction of fused- and bridged tetrahydropyran scaffolds through a domino Prins cyclization.
- ❖ Expert in the design and synthesis of novel chiral ligands, *gluco*-BOX and sugar based thiourea catalysts for asymmetric synthesis.
- ❖ In collaboration with Colgate-Palmolive Company, he has successfully developed novel process technologies for the commercially valuable products magnolol and honokiol, which are being used in tooth paste and hand wash and also developed ester quats for dish wash application.
- ❖ Developed a technology for large scale synthesis of poly(allyl)guanidine, which possesses unique adhesive properties and is specific to bind with soft and hard oral tissues therefore, it is used for Gum Tissue Graft Surgery.
- ❖ Received **60 Citations** in **Jerry March**, 7th Edition, Text Book
- ❖ Technologies developed:
  - (i) Synthesis of magnolol and its analogue compounds (US patent 8,519,197B2)
  - (ii) Processes for making magnolol derivatives (US 9,676,690B2)
  - (iii) An antioxidant compound having anti-atherosclerotic effect and preparation (US 9,580,452B2)

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(iv) Antioxidant compound having anti-atherosclerotic effect and preparation thereof (US9963476B2)



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