Abstract& Bio-Sketch of Speakers – 'RTCS-OBC-2021'

58th Annual Convention of Chemists (ACC) of the Indian Chemical Society(ICS)

Title: Enantioselective C-N, C-C, C-F and C-S functionalizatio of 3oxoindoline-2-carboxylate frameworks

Dr. B.V.Subba Reddy

Chief Scientist and Head Department of Flouro and Agro Chemicals CSIR-Indian Institute of Chemical Technology

Abstract: Enantioselective C-N, C-C, C-F and C-S functionalization of 2-substituted-indolin-3-ones has been developed for the synthesis of chiral 3-oxoindoline-2-carboxylate scaffolds using chiral ligands and organo-catalysts. The chiral molecules are obtained in excellent enantiomeric excess and high yields leading to a quaternary stereocenter with a broad range of substrate scope.

Figure/Scheme (if any):

References and Notes:

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- 2. Akiyama, Angew. Chem. Int. Ed. 2009, 48, 4226.
- 3. S. Yarlagadda, C. R. Reddy, B. Ramesh, B. Srinivas, B. Sridhar, B. V. Subba Reddy, *Org. Lett.* **2017**, *19*, 170-173.
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- 7. G. Ravikumar, B. Ramesh, S. Yarlagadda, B. Sridhar, B. V. Subba Reddy, *ACS omega* **2019**, *4*, 2168-2177.
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Bio-Sketch of Speaker

Name: Dr. B. V. Subba Reddy

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Education

B.Sc: Sri Venkatewsara University, Tirupati (1991)M.Sc: Sri Krishnadevaraya University, Anantapur (1994)

Ph.D: Indian Institute of Chemical Technology/(Supervisor Dr J S Yadav); Osmania University, Hyderabad

(2003)

Post-Doctoral Fellow @ **Harvard University** (2004-2006), USA (Prof E J Corey, Nobel Laureate)

Alexander von Humboldt Fellowship @ Max-Planck Institute (2010), Germany (Prof Herbert Waldmann)

Research Interests

- Pheromone Application Technology/Semiochemicals
- Process Development of Crop Protection Chemicals
- Asymmetric Synthesis (Organocatalysis/Transition Metal Catalysis)
- Process Development of Active Pharmaceutical Ingredients
- Synthesis of Natural Products/Biologically Active Molecules

Honors and Awards (Best 5 to be given if more than 5 awards)

- Chemical Research Society of India (CRSI) Bronze Medal 2016
- ❖ NASI-Reliance Industries Platinum Jubilee Award 2014
- ❖ Alexander von Humboldt Fellowship **2010** by AvH Research Foundation
- * CRSI Young Scientist for the year **2010** by Chemical Research Society of India
- ❖ AVRA Young Scientist Award **2009** by AVRA Research Foundation
- ❖ IICT Roll of Honor Award **2009** by IICT
- Scopus Young Scientist Award 2008 by Elsevier Science
- ❖ Best Performance Award for the Year **2007** for publishing highest number of research papers 52 with a total impact factor 124.5.
- ♦ Best Performance Award for the Year **2001** for publishing highest number of research papers 35 with a total impact factor 78.2; Average I F= 2.25
- ❖ Director's Special Award for the Year **2001** for outstanding effort in publishing highest number of research papers 24 with a total impact factor 50.4.
- ❖ Y.S. Raja Reddy GOLD MEDAL for the year **1995** by SKD University, Anantapur.

Membership/fellowships in academies/societies:

- ❖ Life fellow of Indian Chemical Society, 2021.
- Fellow of the Telangana Academy of Sciences, 2014
- ❖ Fellow of the Andhra Pradesh Academy of Sciences, 2014
- Fellow of the National Academy of Sciences 2013 (FNASc) by NASI, Allahabad, India

Research Publications/Citations

- ❖ No of publications: **785**
- ❖ No of citations: 20,650
- ❖ Sum of times cited without self-citations: **18,610**
- ❖ Average Citations without self-citations: **25.63**
- **❖** H-index: **64**
- Received 16th most productive scientist (Chemical Sciences) in India for the years 1996-2006 (Current Science).
- Received 5th rank in average citations per paper and 8th rank in H-index.
- Received **60** Citations in Jerry March, 7th Edition, Text Book.
- Ranked among top 2% scientists in world by Stanford University (2020).

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