CURRICULUM VITAE

- Name : K. PREMALATHA
- Date of Birth : 27-08-1979
- Educational Qualification : M.Sc. (Organic **Chemistry**), Ph.D.
  PDF, OSU- Columbus (USA)
- Present Designation : Head of the Department
  Assistant Professor
  Department of Chemistry
  University College for Women, Koti
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Academic & Research Experience:

a) Teaching : 6 years

b) Research experience : 17 years

Post doctoral fellow, Division of Medicinal Chemistry & Pharmacognosy, Ohio State University, Columbus, USA
:Associate Scientist, GVK BIO, Hyd. (4 years)

c) No. of Publications : 16 articles + 1 Patent (Pct)

d) No. of Projects : UGC (start up) (6 lakhs) + UGC (Minor Research project) (3.5 lakhs)

Awards, Recognitions and International Experience:

- **Gold medals** : **"Prof N. V. Subba Rao memorial Gold medal"** for securing highest marks in M.Sc Chemistry with organic chemistry in 2001.
  : **"Dr. K. Anji Reddy's Gold medal"** for securing highest marks in M. Sc Chemistry with organic chemistry in 2001.
- Recipient of **'National Eligibility Test for Lectureship'** from CSIR, New Delhi, 2001.
- **CSIR Fellowship** **:** Junior Research Fellowship (CSIR)
  : Senior Research Fellowship (CSIR)

PUBLICATIONS:

Research Papers published in peer reviewed journals: Total (16)

1) Bismuth (III)-catalyzed hydrolysis of epoxides and aziridines: an efficient synthesis of *vic*-diols and β-amino alcohols.
A. Venkat Narsaiah, B. V. Subba Reddy, **K. Premalatha,** S.S.Reddy, J. S. Yadav.
Catalysis Letters, 2009, 131, 480-484

2) The first stereoselective and the total synthesis of Leiocarpin C and total synthesis of (+)-Goniodiol.
J.S. Yadav, **K. Premalatha,** S.J. Harshavardhan, B.V. Subba Reddy.
Tetrahedron Letters, 2008, 49 (48), 6765-6767.

3) Bismuth (III) - catalyzed rapid synthesis of 2,3 disubstituted quinoxalines in water.
J. S. Yadav, B. V. S. Reddy, **K. Premalatha** , K. Shiva Shankar.
Synthesis, 2008, 23, 3787-3792.

4) Indium (III) chloride catalyzed addition of indoles to activated aza-aromatic systems.
J. S. Yadav, B. V. S. Reddy, P. Vishnumurthy, **K. Premalatha.**
Synthesis, 2008, 5, 719-724.

5) Bismuth (III)- catalyzed rapid and highly efficient synthesis of 2-aryl-1-aryl-methyl-1H-benzimidazoles in water.
J. S. Yadav, B. V. Subba Reddy, **K. Premalatha**, K. Shiva Shankar.
Canadian journal of chemistry, 2008, 86(2), 124-128.

6) Microwave-accelerated solvent and catalyst free synthesis of 3-Indolylhydroquinones.
J. S. Yadav, B. V. S. Reddy, K. Shiva Shankar, T. Swamy, **K. Premalatha.**
Bull. Korean Chem. Soc., 2008, 29 (7), 1418-1420.

7) Iodine/EtOH: A Novel and Versatile Catalyst for the Synthesis of β-Amino Ketones via Three Component Reaction.
J. S. Yadav, B. V.S. Reddy, K. Siva Shankar, **K. Premalatha** and T. Swamy.
Letters in organic chemistry, 2008, 5, 353-359.

8) $Cu(BF_4)_2$ as mild and versatile catalyst for the rapid synthesis of β-acetamido ketones and esters via a three component reaction.
J. S. Yadav, B. V. S. Reddy, K. Shiva Shankar, **K. Premalatha.**
Organic communications, 2008, 4, 76-83.

9) $Bi(OTf)_3$-catalyzed condensation of 2,2-DMP with aromatic amines: a rapid Synthesis of 2,2,4-trimethyl-1,2-dihydroquinolines.
J. S. Yadav, B. V. S. Reddy, **K. Premalatha,** M. S. R. Murty.
Journal of Molecular Catalysis A: Chemical, 2007, 271**,** 161.

10) Zirconium (IV) chloride catalyzed cyclisation of ortho-Allyl-phenols: Synthesis of 2-methyl-2,3-dihydrobenzofurans.
H. M. Meshram, **K. Premalatha**, K. Rameshbabu, B. Eeshwaraiah, and J. S. Yadav.
***Synthetic communications,* 2004,** 34, 17, 3091-3098.

11) 1-Butyl-3-methylimidazolium Tetrafluroborate ([Bmim]BF_4) ionic liquid: A Novel and recyclable reaction medium for the synthesis of *vic*-diamines.
J. S. Yadav, B. V. Subba Reddy, **K. Premalatha.**
Advanced synthesis and catalysis, 2003, 345**,** 948-952.

12) First example of the activation of polymethylhydrosiloxane with with molecular iodine: a facile synthesis of 3,6-dihydropyran derivatives.
J. S. Yadav, B. V. S. Reddy, **K. Premalatha** and T. Swamy.
Tetrahedron Letters, 2005, 47, 2687-2690.

13) $Bi(OTf)_3$ Catalyzed Friedlander Hetero-Annulation : A Rapid Synthesis of 2,3,4-Trisubstituted Quinolines.
J. S. Yadav, B. V. Subba Reddy, **K. Premalatha.**
Synlett, 2004, 6, 0963-0966.

14) Synthesis and evaluation of oryzalin analogs against *Toxoplasma gondii*.
M. Endeshaw, C. Li, J. Leon, N. Yao, K. Latibeaudiere, **K. Premalatha,** N. Morrissette, and **K. Werbovetz**.
Bioorganic and Medicinal Chemistry Letters, 20: 5179-5183, 2010.

15) Simultaneous determination of a novel antitrypanosomal compound (OSU-36) and its ester derivative (OSU-40) in plasma by HPLC: application to first pharmacokinetic study in rats. Gershkovich P, Wasan KM, Sivak O, Lysakowski S, Reid C, **Premalatha K,** Werbovetz KA. ***J Pharm Pharm Sci.*** *2011;14(1):36-45.*

16) Synthesis and antitrypanosomal evaluation of derivatives of N-benzyl-1,2-dihydroquinolin-6-ols: Effect of core substitutions and salt formation.
Reid CS, Patrick DA, He S, Fotie J, **Premalatha K**, Tidwell RR, Wang MZ, Liu Q, Gershkovich P, Wasan KM, Wenzler T, Brun R, Werbovetz KA.
Bioorg Med Chem. 2011 *Jan 1;19(1):513-23.*

Patents:

Jhillu Singh Yadav Harshadas Mitaram Meshram **Premalatha Kokku** Venkata Madhavi Ayyagiri Eshwaraiah Begari **(2004) Process for synthesis of bis-(substituted-4- quinolyl) disulphides**

- **United states patent 6777553**
- Pct WO2004087670 A1
- Japan 570090
- Germany 10394213.0
- South Africa 2005/07913
- European patent CO7D215/36
- Australian patent AU 2003226640
