

## Curriculum Vitae

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### Areas of Interest and Expertise:

- ✓ Isolation, Synthesis of Natural Products and NCE's.
- ✓ Radio labeled synthesis of NCE's, potential drug candidates and Radio labeling of NCE's, Polymers, Peptides.
- ✓ Developing Nanomedicine for Diagnostic, Therapeutic and Nutraceutical Applications.
- ✓ Designing, monitoring and coordinating of GLP and Non-GLP preclinical/in vitro/in vivo-ADMET studies for INDs.
- ✓ Developing innovative and non-infringing processes for APIs/Drugs

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### Research experience and education

**June-2009- Present:** Principal Scientist, Ogene Systems (I) Pvt. Ltd., Hyderabad, India.

**Jan-2006-May-2009:** Senior Research Associate, Lab manager, Harold C. Simmons Comprehensive Cancer Center, UT Southwestern, Dallas, Texas. In this period, I have designed and developed "**LCP-Encoded Multifunctional polymeric Micelles for Targeted Lung Cancer Therapy**". The part of this project, synthesized several amphiphilic diblock copolymers PEG-PLA, PEG-PCL, PEG-PAA, -PEG-PLA, Mal-PEG-PCL and **14C-labeled polymers** with different molecular weight from 3,000-15,000. For the efficacy studies.

**May 2002-2005:** Postdoctoral Research Fellow, laboratory of Prof. J. R. Falck, Department of Biochemistry, UT Southwestern, and Dallas, Texas. In this period I have synthesized hundreds of natural and synthetic molecules for structure activity relationship studies (SAR's)/medicinal chemistry. The

results are published in peer-reviewed high impact journals and some part of the work is under publication.

**Jan' 2001-May 2002:** Scientist, Sai Dru Syn Laboratories Pvt. Ltd (Now it is **Sai Advantium**), Hyderabad, India. I am responsible for the synthesis of anti-cancer lead molecules 1( )-hydroxyvitamin-D5, and several nucleoside and carbohydrate analogs.

**Aug' 1999-Dec' 2000:** Research Associate, Prof. A. Srikrishna, Department of Organic Chemistry, Indian Institute of Science, Bangalore, India. First asymmetric total synthesis of natural product (-) - microbotol, and  $\beta$ -microbiotene.

**May 1994-July 1999:** Ph.D-Organic chemistry: Worked with Prof. G. Srimannarayana, Department of Chemistry, Osmania University, Hyderabad. Thesis entitled SYNTHESIS OF OXYGEN HETEROCYCLICS AND CHEMICAL EXAMINATION OF SOME INDIGENOUS PLANTS OF PHYSIOLOGICAL INTEREST. Synthesis of chromone carboxylic acids and 1,4-dihydropyridyl compounds, isolation/structural characterization of natural products that contained anti-cancer, anti-fungal, anti-asthmatic and insect antifeedents.

**1991-1993:** M.Sc., Organic Chemistry: Department of Chemistry, Osmania University, Hyderabad, Qualified in first division with distinction

#### **Publications:**

1. 4,15-Dihydroxy-eicosa-5(Z)-enoic Acid Selectively Inhibits 14,15-Epoxyeicosatrienoic Acid-Induced Relaxations in Bovine Coronary Arteries. Bukhari IA, Gauthier KM, Jagadeesh S G, Sangras B, Falck J R, Campbell W B The Journal of pharmacology and experimental therapeutics. 2011 Jan; 336(1):47-55
2. Beta-lapachone micellar nanotherapeutics for non-small cell lung cancer therapy. Blanco E, Bey EA, Khemtong C, Yang SG, Setti-Guthi J, Chen H, Kessinger CW, Carnevale KA, Bornmann WG, Boothman DA, Gao J Cancer research. 2010 May 15; 70(10):3896-904
3. MRI-visible micellar nanomedicine for targeted drug delivery to lung cancer cells. Guthi JS, Yang SG, Huang G, Li S, Khemtong C, Kessinger CW, Peyton M, Minna JD, Brown KC, Gao J Molecular pharmaceutics. 2010 Feb 1; 7(1):32-40
4. In vivo off-resonance saturation magnetic resonance imaging of alphavbeta3-targeted superparamagnetic nanoparticles. Khemtong C,

Kessinger CW, Ren J, Bey EA, Yang SG, Guthi JS, Boothman DA, Sherry AD, Gao J *Cancer research*. 2009 Feb 15;69(4): 1651-8

5. Identification of novel endogenous cytochrome p450 arachidonate metabolites with high affinity for cannabinoid receptors. Chen JK, Chen J, Imig JD, Wei S, Hachey DL, Guthi JS, Falck JR, Capdevila JH, Harris RC *The Journal of biological chemistry*. 2008 Sep 5;283(36):24514-24
6. Mitogenic activity and signaling mechanism of 2-(14,15-epoxyeicosatrienoyl)glycerol, a novel cytochrome p450 arachidonate metabolite. Chen J, Chen JK, Falck JR, Guthi JS, Anjaiah S, Capdevila JH, Harris RC *Molecular and cellular biology*. 2007 Apr;27(8):3023-34
7. Induced patterning of organic and inorganic materials by spatially discrete surface energy Jagadeesh SG, al et J. *Vac. Sci. Tech*. 2007;26:1993-1997
8. Surface Energy Induced patterning of Polymer nanostructures for Cancer Diagnosis and Therapy, Wenchuang (Walter) Hu, Jinming Gao, Jagadeesh Setti Guthi *IEEE-Transactions on Nanotechnology*, 295-300 [Print ISBN: 978-1-4244-0607-4]. 2007;August:295-300
9. Multifunctional polymeric micelles as cancer-targeted, MRI-ultrasensitive drug delivery systems. Nasongkla N, Bey E, Ren J, Ai H, Khemtong C, Guthi JS, Chin SF, Sherry AD, Boothman DA, Gao J *Nano letters*. 2006 Nov;6(11):2427-30
10. Mechanism of rat mesenteric arterial KATP channel activation by 14,15-epoxyeicosatrienoic acid. Ye D, Zhou W, Lu T, Jagadeesh SG, Falck JR, Lee HC *American journal of physiology. Heart and circulatory physiology*. 2006 Apr;290(4):H1326-36
11. A biosynthetic pathway generating 12-hydroxy-5,8,14-eicosatrienoic acid from arachidonic acid is active in mouse skin microsomes. Du L, Yermalitsky V, Hachey DL, Jagadeesh SG, Falck JR, Keeney DS *The Journal of pharmacology and experimental therapeutics*. 2006 Jan;316(1):371-9
12. The first enantioselective synthesis of (-)-microbiotol and (+)-beta-microbiotene Srikrishna Adusumilli, Nagamani A Shankarnarayan, Jagadeesh Setti Guthi *Tetrahedron Asymmetry*. 2005;16:1569-1571
13. A concise synthesis of 12(S)-20-DiHETE, an endogenous vasoconstrictor Jagadeesh S G, Manmohan Reddy L, J R Falck, Alberto Nasjletti *Tetrahedron Letters*. 2004;45:7111-7113

14. A Practical, stereospecific route to 18-, 19-, and 20-hydroxyeicosa-5Z,8Z,11Z,14Z-tetraenoic acids (18-, 19-, 20-HETEs) Raj Gopal V, Jagadeesh S.G, J R Falck Tetrahedron Letters. 2004;45:2563-2565
15. 14,15-epoxyeicosa-5(Z)-enoic acid: a 14,15- and 5,6-EET antagonist in bovine coronary arteries. Gauthier KM, Jagadeesh SG, Falck JR, Campbell WB Hypertension. 2003 Oct;42(4):555-61
16. Synthesis of 2-methylchromone-8-acetic acids and 2-methylchromone-8-carboxylic acids. Jagadeesh S G, David Krupadanam L G, Srimannarayana G Synthetic Communications. 2001;31:1547-1557
17. A new synthesis of 2-methyl-2,3-dihydrofuranochromones Jagadeesh S G, David Krupadanam L G, Jayaprakesh Rao Y Indian J Chemistry. 2000;39B:958
18. A new triterpenoid from Zizyphus xylopyrus stem wood Jagadeesh S G, David Krupadanam L G, Srimannarayana G Indian J Chemistry. 2000;39B:396
19. Antifeedant activity of the constituents of Evodia lunu-ankenda Jagadeesh S G, David Krupadanam L G, Srimannarayana G Indian J Chemistry. 2000;39B:475
20. Selective C-3 Monochlorination of 2-Methylchromones and Chromone-2-Carboxaldehydes Jagadeesh S G, David Krupadanam L G, Srimannarayana G Synthetic Communications. 1998;28:3827-3833
21. Tobacco Caterpillar Antifeedant from the Gotti Stem Wood Triterpene Betulinic Acid Jagadeesh S G, David Krupadanam L G, Srimannarayana G J. Agric. Food Chem. 1998;46(7):2797-4299
22. A facile synthesis of 2-[4-(2,6-dimethyl-3,5-dicarbethoxy-1,4-dihydro-pyridyl)] chromones Jagadeesh S G, David Krupadanam L G, Srimannarayana G Indian J Chemistry. 1997;36B:965

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