Sudershan Reddy Gondi, Ph.D,
Department of Chemistry, SMU, #138 Fondren,
3215, Daniel Street, Dallas, Texas, USA-75275.
Cello phone: (214) 205 5366. Fax: (214) 768-4089.
Email: sudaruna@yahoo.com

Status in USA: PERMANENT RESIDENT

Objective: Research Scientist or suitable position in Synthetic Organic/Medicinal/Polymer Chemistry

Skills

- Efficient in developing methodologies, optimizations of reaction conditions.
- Process improvement in pharmaceuticals from bench through plant.
- Broad synthetic skills in handling highly reactive, dry and light sensitive compounds.
- Good instrumental skills in operation and interpretation of HPLC, GC/MS, LC/MS, GPC, UV-Vis, NMR and FTIR, DSC, TGA, DMA, Dynamic Light Scattering, Dialysis.
- computer skills- ms office, chem drew, scifinder, beilstein

Research Experience

Jan-2006 to till date: as Post Doctoral Research Fellow with Dr Brent Sumerlin, Chemistry Department, Southern Methodist University, Dallas, TX, USA-75275. I am currently working on synthesis of novel trithiocarbonate, dithiobenzoates for chain transfer reagents and bromo derivatives as chain initiator, monomer and fluorescence monomers for RAFT and ATRP polymers which on combined with click chemistry to get the biodegradable polymer and its application in biotechnology.

August-2003 to December 2005: as Post Doctoral Research Fellow with Dr David.Y.Son, Chemistry Department, Southern Methodist University, Dallas, TX, USA-75275. Involved in synthesis of novel multidentate heterocyclic ligands and its formation of organ metallic complexes with transition metal ions for supramolecular studies as well as fluorescence probes.

August-2001 to July-2003: as Post-Doctoral Associate with Prof. Kwunmin Chen, Chemistry Department, National Taiwan Normal University, Taipei, Taiwan. Worked on Asymmetric Synthesis of heterocyclic derivatives using camphor pyrazolidinone and developed novel brominating method to synthesize derivatives of antipsychotic drugs, and reductive amination of azide for anti-cancer drugs.

February-2000 to July-2001: as Post-Doctoral Associate with Prof. I Jy Chang, Chemistry Department, National Taiwan Normal University, Taipei, Taiwan. Involved in synthesis of aromatic derivatives of florescence and peptide molecules for studies of electron charge transfer in Fluorescence Probes.

September-1998- January-2000: as Research Scientist in NATCO Pharma Limited, Hyderabad, India. Worked on the process development of Carvedilol, Esmolol (anti-vascular), Citalopram, (anti-fungal), and developed various heterocyclic drug intermediates, supervise the B.S and MS chemists.

January-1998 to June-1998: as Post-Doctoral Associate with Asst.Prof. Patrick Harran, Biochemistry Department, Southwestern Medical Center at Dallas. Worked on project of total synthesis of Rubrin, an antitumor molecule, successfully prepared the aliphatic side chain having asymmetric center.

September-1991 to December-1997: as research fellow at Indian Institute of Chemical Technology, Hyderabad, India. Involved in the process development of Citrizine, anti-histamic drug, successfully completed formal total synthesis of Trienomycin, an anti-tumor molecule and developed methodologies for functional group transformations using zinc, indium and eco-friendly clay supported reagent-Clayan. Thesis entitled *"Studies Directed Towards the Total Synthesis of Trienomycin and Development of New Protection Method"*.

Qualification:

- Ph.D, December 1997, Organic Chemistry, Osmania University, India.
- M.S, April 1990, Organic Chemistry, Osmania University, India.
- B.S, April 1988, Chemistry + Biology, Osmania University, India

Awards:

- Awarded the CSIR Senior Research Fellowship in September 1993 by CSIR, India.
- Awarded the CSIR Junior Research Fellowship in December 1990 by CSIR, India.

Conference Attended:

1. 62nd Southwest Regional Meeting of the ACS, Houston, TX, 2006 October 19-22.
2. American Chemical Society (ACS) Meeting in Dallas-1998 and Washington D.C-2005
3. Invited Lecturer on Towards the Total Synthesis of Trienomycin at Kochi University, Japan-2002, March 4-8.
4. Chinese Chemical Society Meeting in Taiwan-Taichung-2000, Tainan-2001, Taipei-2002.
5. Organo-Metallic Chemistry towards Organic Synthesis (OMCOS-11), Taipei-Taiwan-2001, July 22-26.
6. 10^{th} International Conference on Organic-Synthesis (IUPAC), Bangalore-India-1994, Dec-11-16

Publications:

1. Versatile Pathway to Functional Telechelics via RAFT Polymerization and Click Chemistry. **Sudershan R. Gondi,** Andrew P. Vogt, Brent S. Sumerlin, Macromolecules, 2007, 40(3), 474-481.
2. **Gondi, Sudershan R.;** Vogt, Andrew P.; Sumerlin, Brent S. Functional Telechelics via RAFT Polymerization and Copper-Catalyzed Azide-Alkyne Coupling. Abstracts, 62nd Southwest Regional Meeting of the American Chemical Society, Houston, TX, United States, 2006, October 19-22.
3. Sumerlin, Brent S.; **Gondi, Sudershan R.;** Vogt, Andrew P. Orthogonal End Group Reactivity of Macromolecules Prepared by RAFT Polymerization. Abstracts, 62nd Southwest Regional Meeting of the American Chemical Society, Houston, TX, United States, 2006, October 19-22.
4. Polymeric[μ_3-1,3-dithiolane-2-methanol-*κ3S1*;*S3*;*S3*) silver(1) nitrate]. Hongming Zhang, **Sudershan R Gondi** and David.Y.Son, Acta Crytallographica E, Acta Crys-2006-*E62-m3086-m3088*.
5. Polymeric[$\mu_3$bis(benzyloxyiminoacetato-*κ3N*:*O*:*O'*)-(nitrato-*κO*) trisilver(1)]. Hongming Zhang, **Sudershan R Gondi** and David.Y.Son, Acta Crys-2006-*E62*-m1613-m1615.
6. Cholane Derivatives with Potential Ligating Groups at the 3- and 24-Positions. **Sudershan Reddy Gondi** and David.Y.Son. Synthetic Communication, 2006, *36(10),* 1317-1331.
7. X. Hua, Kearney, J. E., Vempati, R. K., Son, D. Y, **Gondi, S.R,** and E. R. Biehl. 2006. Innovative Nanophase Mn(VII) Oxide Technology for Deodorizing Sulfur Based Compounds from Waters. Texas American Water Works Association. Austin, TX. April 04-07, 2006 (Conference Proceedings).
8. Cysteine-Specific Blue Fluorescence Probe. **Gondi Sudershan Reddy**, Hsuan-Ying Chen and I-Jy Chang, Journal of the Chinese Chemical Society, 2006, 53(6), 1303-1308
9. Mono, Bis-, Tris-1,3-Dithiolane Aromatic Derivatives by Esterification and Amidation. **S.R.Gondi** and David.Y.Son. J.Sulfur.Chemistry, 2005, 26(1), 13-19.
10. Synthesis of N,N-Bis(2-thiazolinyl)-, N,N`-Bis(2-thiazolyl)-, and N,N`-Bis(2-pyrimidinyl)-Benzene Dicarboxamides, **Sudershan R Gondi** and David.Y.Son. Synthetic Communication, 2004, 34(17), 3061-3072.
11. Diastereoselective epoxidation of N-enoyl camphorpyrazolidinone. Chai Ling Fan, **Gondi Sudershan Reddy** and Kwunmin Chen. Journal of the Chinese Chemical Society, 2003, 50(5), 1047-1051.
12. Microwave thermolysis III: A rapid and convenient coupling of 2-napthols in solvent free-conditions H.M.Meshram, **G.Sudershan Reddy,** M.Murlidhar Reddy, B.Eeshwaraiah and J.S.Yadav. Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry, 2003, 42B (10), 2615-2617.
13. Microwave thermolysis I: A convenient and rapid coupling of Thiol using Clayan in solvent free condition H.M.Meshram, A.Bundophadhya, **G.S.Reddy** and J.S.Yadav. Synthetic Communication, 2000, 30, 701-706.
14. Microwave thermolysis VII: Oxidation coupling Thiol acetate and esters using Clayan in dry media. H.M.Meshram, A.Bundophadhya, **G.S.Reddy** and J.S.Yadav. Synthetic Communication, 1999, 29, 2705-2709.
15. Microwave thermolysis V: A rapid and versatile method for the detetrahydropyranylation, deacetalisation and acetonide deprotection using Clayan in dry media H.M.Meshram, G.Sumitra, **G.S.Reddy,** Y.S.S.Ganesh and J.S.Yadav. Synthetic Communication, 1999, 29, 2807-2815.
16. Microwave Thermolysis VI: A rapid and general method for dethioacetalisation using Clayan in dry media, H.M.Meshram, **Gondi Sudershan Reddy,** G.Sumitra and J.S.Yadav Synthetic Communication, 1999, 29 , 1113-1119.
17. Zinc promoted convenient and general synthesis of Thiol ester H.M.Meshram, **Gondi Sudershan Reddy,** K.Himabindu and J.S.Yadav. Synthetic Letters, 1998, 877-879
18. Clay supported Ammonium Nitrate "Clayan". A rapid and convenient regeneration of Carbonyls in dry media. H.M.Meshram, Dale Srinivas, **Gondi Sudershan Reddy,** and J.S.Yadav. Synthetic Communication, 1998, 28, 4401-4408.

19. Clay supported Ammonium Nitrate "Clayan". A mild and highly selective reagent for the deoximation of electron rich oximes. H.M.Meshram, **Gondi Sudershan Reddy,** Dale Srinivas and J.S.Yadav. Synthetic Communication, 1998, 28, 2593-2600.
20. Zinc promoted mild and efficient method for esterfication of acid chlorides with alcohols J.S.Yadav, **Gondi Sudershan Reddy,** Dale Srinivas and Konuru .Himabindu, Synthetic Communication, 1998, 28, 2337-2342
21. Zinc promoted regioselective Freidal Crafts acylation of electron rich arenes, H.M.Meshram, **Gondi Sudershan Reddy,** M.Murlidhar Reddy and J.S.Yadav. Synthetic Communication, 1998, 28, 2203-2206.
22. A mild and versatile method for the Tetrahydropyranylation of alcohols and their detetrahydropyranylation J.S.Yadav, Dale Srinivas and **Gondi Sudershan Reddy,** Synthetic Communication, 1998, 28, 1399-1404.
23. Zinc promoted acyl substitution of ylide at a carbon, H.M.Meshram, **Gondi Sudershan Reddy,** M.Murlidhar Reddy and J.S.Yadav. Tetrahedron Letters, 1998, 39, 4107-4110.
24. Zinc mediated facile amide formation - Application to Alkyl, Aryl, Heterocyle, Carbohydrate and Amino Acid Amides, H.M.Meshram, **Gondi Sudershan Reddy,** M.Murlidhar Reddy and J.S.Yadav, Tetrahedron Letters, 1998, 39, 4103-4106
25. Zinc mediated simple and convenient synthesis of Carbamates - An Easy Access for Amino Group protection. J.S.Yadav, **Gondi Sudershan Reddy,** M.Murlidhar Reddy and H.M.Meshram. Tetrahedron Letters, 1998, 39, 3259-3262
26. Microwave thermolysis IV Selective Deprotection of MPM ethers using Clay supported Ammonium Nitrate in dry media J.S.Yadav, H.M.Meshram, **G. Sudershan Reddy** and G. Sumitra. Tetrahedron Letters, 1998, 39, 3043-3046
27. Clay supported Ammonium Nitrate "Clayan". A mild and eco-friendly reagent for Dethioacetalisation H.M.Meshram, **Gondi Sudershan Reddy** and J.S.Yadav, Tetrahedron Letters, 1997, 38 ,8891-8894.\
28. Indium in Organic Synthesis - Convenient preparation of B-G unsaturated ketones J.S.Yadav, Dale Srinivas, **Gondi Sudershan Reddy** and Konuru Himabindu. Tetrahedron Letters, 1997, 38, 8745-8748.
29. Approaches towards the Total Synthesis of Trienomycin Poster Presented by **Gondi Sudershan Reddy** and J.S.Yadav. In International Conference on Organic Synthesis (ICOS-10), Bangalore-India, 1994, Dec 11-16.

Patents:

1. Catalytic Amidation process for the preparation of Carbamates intermediates from haloformates and amines. Yadav, Jhillu Singh; Meshram, Harshadas Mitaram; **Reddy, Gondi Sudershan.** Indian (2003), 12 pp. CODEN: INXXAP IN 190827 A1 20030823 Application: IN 99-DE276 19990219. Priority: CAN 145:27736 AN 2006:548138
2. An improved process for the preparation of the unsymmetrical aromatic carbonates. Yadav, Jhillu Singh; Meshram, Harshadas Mitaram; **Reddy, Gondi Sudershan;** Reddy, Moola Muralidhar. **Indian Pat. Appl. (2005),** CODEN: INXXBQ IN 1999DE01093 A 20050805 Application: IN 99-DE1093 19990810. Priority: AN 2007:233191
3. Amidation process for the preparation of secondary carboxamides from acyl chlorides and amines in the presence of transition metal amidation catalysts and aromatic hydrocarbon solvents. Yadav, Jhillu Singh; Meshram, Harshadas Mitaram; **Reddy, Gondi Sudershan;** Reddy, Moola Muralidhar. **Indian (2003),** 11 pp. CODEN: INXXAP IN 191100 A1 20030920 Application: IN 98-DE3827 19981224. Priority: CAN 145:27732 AN 2006:553791
4. An improved process of arenas useful for the preparation of commercially valuable products ketones; J.S.Yadav, H.M.Meshram and **Gondi Sudershan Reddy**. 274/DEL/99, 19-2-999, NF319/97/PT205
5. An improved process for the a-acyl substitution of ylides J.S.Yadav, H.M.Meshram, **Gondi Sudershan Reddy** and M.Murlidhar Reddy. 3828/DEL/98, 24-12-98, NF341/97/PT206