

SATYANARAYANA MARAGANI, Ph.D.
Team Leader
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OBJECTIVE

To secure a responsible scientific position, where I can fully utilize my vast experience and knowledge in synthetic organic chemistry and contribute in achieving the organizational objectives and goals.

Industrial Discovery Experience

Team Lead, TCG Life sciences, Pune (Nov, 2014-Nov, 2016) Kolkata (2016 Nov-todate);

Responsibilities:

- Manage internal and external clients and 7-10 chemists for respective drug discovery programs
- Make project updates and communicate in tele-cons
- Scouting the routes and troubleshoot to achieve given target molecules
- Actively participates in client visits with work presentations and project summaries
- To work closely with chemists and analytical teams to expedite the target delivery process

June, 2014-November, 2014: Scientist, GVK Bio Sciences, Hyderabad

Responsibilities:

- Manage a team of chemists for external client's drug discovery project
- Communicate the work progress to the senior scientists and in telecons
- Proactively participate in designing new targets and obtain approval
- Design synthetic routes and trouble shoot
- Participate in problem solving sessions
- Manage resource allocation to meet the timelines of projects

February 2007-September 2007: Industry (AVRA Pvt Ltd-Hyderabad)

Responsibilities:

- Kilogram scale synthesis of chemical entities
- Process development for the production of diacerein from aloe-amodine
- Involved in the synthesis of azithromycin analogues
- Lead a team of chemists

Academic Research Experience

September, 2010-December 2013: Post-doctoral Fellow

University of Massachusetts, Lowell, USA; Advisor: Prof. Long Chiang

Projects: Synthesis of functionalized fullerenes as photo sensitizers for photodynamic therapy

Key Responsibilities:

- Design and synthesis of novel fullerene derivatives tethered with polycationic arms for photodynamic therapeutic applications
- Synthesis of singlet molecular oxygen and super oxide radical probes
- Design synthetic routes and trouble shoot
- Participate in weekly group discussions and brain storming sessions
- Present the research work in departmental seminars and during visits of guest colloquium speakers

July 2009-August 2010: Post-doctoral Fellow

University of Rochester, New York, USA; Advisor: Prof. Rudi Fasan

Projects: Synthesis of poly-functionalized small molecules for the high throughput generation of macrocyclic compounds for targeting and modulating protein-protein interactions

Key Responsibilities:

- Design and synthesis of novel polyfunctionalized small molecules as synthetic precursors which can react with site-specifically modified proteins
- Design synthetic routes and trouble shoot
- Present research work and literature updates in weekly group discussions
- Prepare research updates for publications

November 2007-April 2009: Post-doctoral Fellow

National Research Council Canada, Ottawa, Advisor: Prof. Prabhat Arya

Projects: Solution and solid phase synthesis of natural product inspired benzofuran based macrocycles to modulate of protein-protein interactions

Key Responsibilities and achievements:

- Construction of novel benzofuran based asymmetric 12-membered macrocyclic small molecules
- Synthesized two hit molecules as inhibitors of pro-apoptotic proteins bak and bax
- Generated a library of small molecules utilizing solid-phase technique
- Design synthetic routes and trouble shoot
- Present research work updates in weekly group discussions
- Documentation of research projects for publications and proposals

March 2001- September 2006: Graduate Research Fellow

Indian Institute of Chemical Technology (IICT), Hyderabad, India

Advisor: Dr. J. S. Yadav, FNA, IICT (Registration: Pune University)

Projects:

- Towards the total synthesis of phorboxazole A and litsealactone B
- Synthesis of coumarin analogues as potential DNA gyrase inhibitors
- Development of synthetic methodologies

Education

- **Ph.D.**, Organic/Medicinal Chemistry (2001-2006): University of Pune, India
- **M. Sc.** Chemical Sciences (1998-2000) Pondicherry University, India
- **B. Sc.** (1994-1997) Nagarjuna University, India

Academic Achievements

- Qualified **CSIR** and **GATE**. Awarded Junior Research Fellowship (JRF) and Senior Research Fellowship (SRF) during the period 2001-2006

Professional Competence

- Expertise in design and execution of in multi-step asymmetric and heterocyclic organic synthesis
- Ability to lead a team of chemists to accomplish the project goals
- Manage the progress of the projects according to needs and expectations
- Maintaining the strong communication (written & oral) with internal and external clients
- Efficient at time management to achieve multiple tasks
- Capable of collaborative and independent project management
- Expertise in handling air and moisture sensitive compounds
- Expertise in solid phase and solution phase library generation
- Ability to scale up from gram to kilogram
- Experience in operation of spectroscopic instruments viz., NMR (^1H , ^{13}C and 2D), IR, UV and interpretation of data including mass, HPLC
- Highly motivated, result oriented, strong commitment to teamwork
- Supervisory and mentoring skills
- Efficient in writing final reports
- Maintain good interpersonal relationships
- Efficient at science database search using SciFinder and Balestein (Reaxys); Professional at Chemdraw and ISISI
- Professional at Microsoft Office word, power-point, excel

Personal Biodata

Date of Birth : 14 March, 1977
Nationality : Indian
Sex : Male
Marital Status : Married

List of Publications

1. "A Small-Molecule Inhibitor of Bax and Bak Oligomerization Prevents Genotoxic Cell Death and Promotes Neuroprotection" Xin N, Hetal B, Philipp M, Zhi Z, Jing S, Michael D, Fabian G.R. E., Wibke E. D., Eve W., Weijia Z., Justin P., Jyoti P. N., **Maragani Satyanarayana**, Ravi K. J., Prabhat Arya, Brian L., Jialing L., Carsten C., Jing Y., and David W. A; *Cell Chemical Biology* **2017**, 24, 1–14
2. "Prevention of Mitochondrial Membrane Permeabilization and Pancreatic β -Cell Death by an Enantioenriched, Macrocyclic Small Molecule" J. Ravikumar, Govardhan K. S., **M. Satyanarayana**, B. R. Reddy, Shravan B. G., Prabhat Arya and P. Mitra; *Eu. J. Org. Chem.* **2014**, 6, 1151-1156
3. "Synthesis of decacationic [60]fullerene decaiodides giving photoinduced production of superoxide radicals and effective PDT-mediation on antimicrobial inactivation" M. Wang, **Satyanarayana Maragani**, L. Huang, S. Jeon, T. Canteenwala, M. R. Hamblin, L. Y. Chiang; *Eu. J. Med. Chem.* **2013**, 63, 170-184

4. "Decacationic [70]Fullerene Approach for Efficient Photokilling Infectious Bacteria and Cancer Cells" L. Huang, M. Wang, S. K Sharma, F. F. Sperandio, **S. Maragani**, S. Nayka, J.Chang, M. R. Hamblin, and L. Y. Chiang; *ECS Trans.* **2013** ; 45(20): . doi:10.1149/04520.0065ecst
5. "Diverse organo-peptide macrocycles *via* a fast and catalyst-free oxime/intein-mediated dual ligation" **Maragani Satyanarayana**, F. Vitali, J. R. Frost and Rudi Fasan; *Chem. Comm.*; **2012**, 48, 1461-1463
6. "Unique ultralow 18π -trannulenyl HOMO-LUMO energy gap of photostable emerald green *D3D*-2-methylmalonato[60]fullerenes" A. A. Popov, S. Jeon, V. M. Senyavin, L. Dunsch, **Satyanarayana Maragani**, M. Wang, L.-S. Tan, and L. Y. Chiang; *J. Phys. Chem. Lett.*, **2011**, 2 (18), 2296–2299
7. "Synthesis and Characterization of Positively Charged Pentacationic [60]Fullerene Monoadducts for Antimicrobial Photodynamic Inactivation" S. Thota, M.Wang, S. Jeon, **Satyanarayana Maragani**, M. Hamblin, L. Y. Chiang; *Molecules*, **2012**, 7, 5225-5243
8. "A stereoselective synthesis of C20-C32 fragment of the Phorboxazoles" J. S. Yadav, **M. Satyanarayana**, G. Srinivasulu and A. C. Kunwar; *Synlett* **2007**, 10, 1577-1580
9. "Synthesis and biological evaluation of coumarin linked fluoroquinolones, phthalimides and naphthalimides as potential DNA gyrase inhibitors" A. Kamal, **M. Satyanarayana**, V. Devaiah, V. Rohini, J. S. Yadav, B. Mullick and V. Nagaraja; *Letters in Drug Design & Discovery*, **2006**, 3, 494-502
10. "Phosphomolybdic acid supported on silica gel: a mild, efficient and reusable catalyst for the synthesis of 2,3-unsaturated glycopyranosides by Ferrier rearrangement" J. S. Yadav, **M. Satyanarayana**, E. Balanarsaiah and S. Raghavendra; *Tetrahedron Letters* **2006**, 47, 6095-6098
11. "Chemoselective hydrolysis of terminal isopropylidene acetals in acetonitrile using molecular iodine as a mild and efficient catalyst" J. S. Yadav, **M. Satyanarayana**, S. Raghavendra and E. Balanarsaiah; *Tetrahedron Letters* **2005**, 46, 8745-8748
12. "Phosphomolybdic acid supported on silica gel: an efficient mild and reusable catalyst for the chemoselective hydrolysis of acetonides" J. S. Yadav, S. Raghavendra, **M.Satyanarayana**, E.Balanarsaiah; *Synlett*, **2005**, 2461-2464
13. "Chemoselective hydrolysis of *tert*-butyl esters in acetonitrile using molecular iodine as a mild and efficient catalyst" J. S. Yadav, E. Balanarsaiah, S. Raghavendra and **M. Satyanarayana**; *Tetrahedron Letters* **2006**, 47, 4921-4924
14. "CeCl₃·7H₂O: A novel reagent for the synthesis of 2-deoxysugars from -glycals" J. S. Yadav, B. V. S. Reddy, K. Bhaskar Reddy and **M. Satyanarayan**; *Tetrahedron Letters*, **2002**, 43, 7009-7012
15. "CeCl₃·7H₂O-Promoted highly chemo selective hydrolysis of 1,3-oxathio-and dithioacetals" J. S. Yadav, B. V. S. Reddy, S. Raghavendra, **M.Styanarayana**; *Tetrahedron Letters* **2002**, 43, 4679-4681