



## FACULTYPROFILE

### 1. Academic accomplishments:

Sl.No	Degree	Specialization	University/Institution
1	Ph.D.	Synthetic organic chemistry	CSIR-IICT/Osmania Univeristy
3	M.Sc	Organic chemistry	AndhraUniversity
4	B.Sc	Maths, Physics, chemistry	AndhraUniversity

### 2. AreaofInterest:

Synthesisofnaturalandsyntheticbioactivemoleculesandmethodology developments.

### 3. Professional/Expeirience:

Sl.No	Fieldof Experience	Institution/Organization	Natureof Appointment	From	To
1	Teaching	Dr.SRK Govt Arts College	Regular	Apr-2022	Till Date
2	Teaching	TagoreGovt.ArtsandScience college,Pondicherry	Regular	Feb.2018	Mar.2022
3	Teaching	GITAMUniversity,Hyderabad	Regular	2011	Feb.2018
4	Industrial	SaiAdvantiumpharma,Hyderabad	Regular	2010	2011
5	Postdoc	SungshinUniversity,SouthKorea, Seoul	-	2009	2010
6	CSIR-JRF ANDSRF	CSIR-IICTHyderabad	Ph.Dwork	2003	2009

### 4. Publications:

1. Stereoselective synthesis of  $\alpha$ -hydroxy- $\beta$ -amino acid derivatives from  $\beta$ -hydroxy- $\gamma,\delta$ -unsaturated sulfilimine. *Tetrahedron Letters*, Volume 49, Issue 20, 12 May 2008, Pages 3216-3220  
SadagopanRaghavan,**ShaikMustafa**.

2. Anovel,easyandmildpreparationofsulfiliminesfromsulfoxidesusingtheBurgessreagent  
*TetrahedronLetters*,Volume49,Issue27,30June2008,Pages4256-4259  
SadagopanRaghavan,**ShaikMustafa**,KailashRathore.

3. Anasymmetricssynthesisof(+)-desoxoprosophylline  
*TetrahedronLetters*,Volume49,Issue35,25August2008,Pages5169-5171  
SadagopanRaghavan,**ShaikMustafa**.

4. N-Cbz sulfilimines as valuable intramolecular nucleophiles for the stereoselective synthesis of (-)-deoxocassine and (+)-desoxoprosophylline  
*Tetrahedron, Volume 64, Issue 43, 20 October 2008, Pages 10055-10061*  
Sadagopan Raghavan, **Shaik Mustafa**.
5. Versatile Route to (E)- and (Z)-2-Hydroxy-3,4-unsaturated Disubstituted Sulfilimines and Their Haloamidation Reaction. Sadagopan Raghavan, **Shaik Mustafa** and B. Sridhar. *Jour. Org. Chem*, **2009**, *74*, 4499-4507.
6. Synthesis and characterization of IMPY derivatives that regulate metal-induced amyloid- $\beta$  aggregation. *Metallomics*, **2011**, *3*, 284–291. Jung-Suk Choi,, Joseph J. Braymer, Se Kyung Park,, **Shaik Mustafa**, Junghyun Chae, and Mi Hee Lim.
7. Synthesis, characterization and biological activities of pendant arm-pyridyl-tetrazole Cu(II) complexes: DNA Binding /cleavage activity and Cytotoxic studies. *Chemistry & Biodiversity* **12** (2015) 1516-1534. **Shaik Mustafa**, B. Uma Maheswarao, M.S. Surendrababu, Kalidindi Krishnam Raju, G. Nageswara Rao.
8. Synthesis, structure elucidation and DFT studies of a new isomeric pyridyl-tetrazole Derivative. *Journal of Chemical and Pharmaceutical Research*, **2015**, *7*(3):1907-1911. M. S. Surendra Babu, B. Umamaheswara Rao, V. Krishna, **Shaik Mustafa** and G. Nageswara Rao.
9. Unexpected one pot C(Aryl)-N bond cleavage and Quetiapine A formation from the reduction reaction of 2-amino-6-nitrophenol derivatives: *Tetrahedron Letters* **56** (2015) 6104-6107. **Shaik Mustafa\***, K. Santhosh Reddy, M. S. Surendra babu.
10. Synthesis, Antimicrobial, Bactericidal and Anti-Biofilm Activities of novel Pyridyl Tetrazole Analogs; **Shaik Mustafa\***, D. Vijaya Lakshmi, B. K. Sahoo. *Journal of Chemical and Pharmaceutical Research*, **2016**, *8*(11):1- 6.
11. Synthesis, characterization and DNA cleavage studies of isomeric pyridyl-tetrazole ligands and their Ni(II) and Zn(II) complexes. *Journal of Saudi Chemical Society* (2017) **21**, 291–299. M.S. Surendra Babu, B. Umamaheswara Rao, V. Krishna, **Shaik Mustafa\***, G. Nageswara Rao.
12. Cu-Complexes of Pyridyl Tetrazole Ligands with Pendant arms Amide and Hydrazide -Synthesis, Characterization, DNA binding and Antioxidant Properties; *Transition Metal Chemistry* (2016) **41**:517-523. K. Santhosh Reddy, M.S. Surendrababu, **Shaik Mustafa\***.
13. Mild, Neutral and Versatile Protocol for Ester Hydrolysis. Vijaya laxmi, K. Balakrishna, **Shaik Mustafa\***; *Asian Journal of Chemistry* **30**(2), **2018**, 309-311
14. Design, Synthesis, UV-Vis and Fluorescence studies of Naphthoquinone pyridyl-tetrazole based chemosensor; K. Balakrishna, D. Vijayalakshmi, **S. Mustafa\***, and T. K. Ghorpade. *Indian J Pharm Sci*, **2018**; *80*(4):772-776.
15. Novel cliptype Pyridyl-Tetrazole Analogues- Synthesis, Characterization, Single X-ray crystal structure, DFT, Docking studies and Anti-oxidant Properties; M.S. Surendra Babu; K. Santhosh Reddy; Kal Yan Sundar Ghosh; Bijaya Ketan Sahoo; CH. Himasekar; **Shaik Mustafa\*** *Asian Journal of Chemistry* **30**(2), **2018**, 333-342

16. Synthesis, Characterization of Mixed Cu(II) Pyridyl Tetrazoles and 1,10-Phenanthroline Complexes - DFT and Biological Activity. *Open Chemistry Journal*, 2019, 6, 1-7. Ch. Himasekar, **Shaik Mustafa** and Manabolu S. Babu

## 5. CONFERENCES

- Presented a paper in International conference on '**CHEMISTRY BIOLOGY INTERFACE SYNERGETIC NEW FRONTIER**' (CBISNF) held in New Delhi, India (Nov.21-26, 2005).
- Participated and presented a paper in an international conference ARTS, SCIENCE, MANAGEMENT & ENGINEERING (ICASME – 2009), 23-25 April, 2009, Goa, India.
- Participated as logistics in a National Conference (NACT-2012, April, 2-3) organized by Dept. of Chemistry, GITAM University, Hyderabad, India.
- Participated in the International conference on '**Emerging Trends in Chemical and Pharmaceutical Sciences**' held in IICT-Hyderabad, India (Oct.15-17, 2014).
- Participated in the International Conference *on "Trend Setting Innovations in Chemical Sciences and Technology (TSCST-15)"* Held at JNTU, Hyderabad on 16-18, Dec. 2015
- Participated and presented a paper entitled "Design, Synthesis and Fluorescence studies of Naphthoquinone pyridyl-tetrazole based Chemical Probe" in a national conference Organized at National Institute of Technology, Puducherry (NITP), Karaikal on 19-20 Sept. 2018.
- Participated and presented a paper entitled "Synthesis and biological studies of pyridyl-tetrazole ligand 2-(1-((4-methyloxazol-2-yl)methyl)-1H-tetrazol-5-yl)pyridine" in a national conference Organized at Pondicherry Central University, Puducherry on 04-05 of March, 2019.

## 6. Orientation/Refresher/Short term Courses/Workshop/Training

Programme attended:

Sl.No	Title of the Programme	Sponsors	Venue & Duration	Whether International / National / State / Regional / College or University Level
1	Orientation Course	UGC-HRDC-PU	HRDC-Pondicherry University, 20/11/2019-10/12/2019	National
2.	Refresher Course	UGC-HRDC-PU	HRDC-Pondicherry University, 15/07/2021-28/07/2021	National

## 7. ResearchProjects

Sl.No	TitleoftheProject	Status(ongoing/Completed)	Fundingagency
1	<i>Efficient Diversification Synthesis of Potent Anti-Alzheimer Compounds</i>	Principalinvestigator, Completed	<b>Rs.24,80,000,</b> DST-SERB
2	<i>A novel investigation for an efficient nano crystalline metaloxide doped phenoxazine dye sensitized solar cells</i>	Principalinvestigator, Completed	<b>Rs.12,35,800/-.</b> <b>UGC-MRP</b>

## 8. HONORS&AWARDS:

- Awarded Senior Research Fellowship (**SRF**) from the Council for Scientific and Industrial Research (**CSIR**), New Delhi, Govt. of India (2005).
- Awarded Junior Research Fellowship (**JRF**) from the Council for Scientific and Industrial Research (**CSIR**), New Delhi, Govt. of India (2003-2005).