

Faculty Information



Brief Profile of Faculty in Less than 500 words

Dr. M. Kiran Kumar, is Assistant Professor (C) at The Department of Chemistry, Nizam College, Osmania University since 2010. He is working on identifying novel leads for Tuberculosis therapy. His field of research interest includes identification of new molecular entities (NME's) using Computational Chemistry, Chemical - Biology and Cheminformatics and Bioinformatics related Software tools. He received Young award for Best Oral Presentation at the 30th Annual Conference Indian Council of Chemists - 2011. He attended an international conference at State University of New York, Albany, USA and received travel grant from Department of Science and Technology (DST), India. He has been mentoring M. Sc. and M. Pharmacy students in their dissertation work and actively involved in organizing Seminars and workshops for students. Dr. M. Kiran Kumar secured 2 international patents, published 10 research articles in reputed international journals and has presented about 25 papers at various International and National Conferences.

Faculty Information

Detailed CV



1. Personal Details

Name of the faculty	Dr. M. Kiran Kumar
Gender	Male
Department	Chemistry
PAN	AUNPM9180C
Designation	Assistant Professor (Contract)
Qualification	M.Sc., Ph.D.
Date of Joining (Submit Appointment Letter)	2 nd August 2010
Date of Birth	02 – 08 -1984
Category	General
Mobile Number	9848364711
E-Mail Id	Kiranm711@gmail.com
Address	Flat No. 201, Dhruva Dreamz Apartments, Vennelagadda, Suchitra, Hyderabad -55

2. Academic details:

Degree	Qualification	Month and Year of Passing	Division	% of Marks	Univ/Board/ Institution with State
PG (M.A./M.Com/ M.Sc/M.Tech/ MBA/ MCA/Any other)	M.Sc.	July 2010	II	56.9	Osmania University
CSIR/UGC-NET /SELT/Any other					
Any other					
Research details	Title of Thesis			Month and Year of award	Univ/Board/ Institution with State
M.Phil					
Ph.D	Identification of new molecular inhibitors for novel targets of Mycobacterium tuberculosis – an in silico approach			May 2016	Osmania University
Post Doctorial/ D.Sc./D.Litt.					
Any other					
*Please provide the scanned copies of certificates					

3. Teaching Experience: Total: ___8 yrs UG: ___8 yrs PG: 8 yrs

4. Academic Promotions:

Designation	Month and Year of Promotion
Associate Professor	
Professor	
* Please provide order copies	

5. Resource persons:

Guest Lectures/ Extension Lectures	No. of Lectures	Name of Program	Organization / Institution	Date and Year
Guest Lectures	15	PG	PG Center Mirzaput	July 2018
* Please provide the certificates or letter of invitation				

6. Carrier Development Programs: Orientation Course/ Refresher courses/Short Term Course/Faculty Development Programme

Course attended	Institution /University	Title of the Professional Development Programme	Duration	
			From	To
Refresher courses	JNTUH, Hyderabad	“Basic Principles and Research Advancements in Life Sciences and Pharmaceutical Sciences”	22-01-2018	12-02- 2018,
* Please provide the certificates				

7. Research Details:

Research Experience (No. of years):	
Area of research :	
Supervisor for M.Phil/Ph.D (Guideship Letter)	
No of students working/Registered	Ph.D: F: M:
No. of students with fellowship (JRF)	M: F: Total:
No. of students with fellowship (SRF)	M: F: Total:
No. of students with fellowship (Project fellow)	M: F: Total:
No. of students with any other fellowship	M: F: Total:
No of students working for M.Phil.	M: F: Total:
No of students working as Post.docs.	M: F: Total:
No of students working as RA	M: F: Total:
No. of M.Phil/Ph.D. Produced	Ph.D: M: F: Total: M.Phil: M: F: Total:
Name of Students awarded. M.Phil/Ph.D	Title of Thesis Month and Year of Registration Month and Year of Award
1.	
2.	
* Please provide the list of students registered, along with their category and fellowship details	

8. Total No. of Research Publications:

International:

National:

8.1 List of publications (## If possible use MS-Excel file which is attached as separate file)

SN o	Title of Paper	Name of the Authors	Name of the Journal	Volume and Page No	Month and Year of Publication	Peer reviewed/ Non Peer reviewed	Impact factor	National/ International	ISSN No.	UGC Journal No	Citation index (SCI./S COPUS /Web of Science/ ICI	No. of citation excluding self citation	h-index	Institutional affiliation as mentioned in publication
1	Identification of small molecular inhibitors for efflux protein Rv2688c of Mycobacterium tuberculosis	Vadija R, Kiran Kumar Mustyala , Malkhed V, Dulapalli R, Veeravarapu H, Malikanti R, Vuruputuri U,	Biotechnol Appl Biochem	-	2018 Jan 29.	Peer reviewed	1.413	International	1470 - 8744	5181	Science and Scopus		58	Osmania University
2	Identification of small molecular ligands as potent inhibitors of fatty acid metabolism in Mycobacterium tuberculosis	Ramesh Malikanti, Rajender Vadija, Hymavathi Veeravarapu, Kiran Kumar Mustyala , Vasavi Malkhed, Uma Vuruputuri,	Journal of Molecular Structure	1150, 227 – 241	2017	Peer reviewed	1.75	International	0022 - 2860	21743	Science Citation Index, Science Citation Index Expanded, and Scopus		82	Osmania University

3	Homology modeling and virtual screening studies of FGF-7 protein – A structure based approach to design new molecules against tumor angiogenesis,	Rajender V, Kiran Kumar Mustyala , Navaneetha N, Ramasree D, Rama Krishna D, Vishwanath R, Santhi Prada V, Uma V	Journal of Chemical Biology	Vol 9, No 3, Pages 69 – 78.	March 2016	Peer reviewed	0.823	International	1864-6166	19600	Science and Scopus	6	16	Osmania University
4	Identification of small molecular inhibitors for efflux protein - DrrA of Mycobacterium tuberculosis,	Kiran Kumar Mustyala , Vasavi Malkhed, Venkatarama na Reddy Chittireddy and Uma Vuruputuri.	Cellular and molecular bioengineering	Vol 9, No 1, Pages 190 - 202	March 2016,	Peer reviewed	1.589	International	1865-5033	6764	Science and Scopus	5	21	Osmania University
5	Virtual screening studies to identify novel inhibitors for Sigma F protein of <i>Mycobacterium tuberculosis</i> ,	Kiran Kumar Mustyala , Vasavi Malkhed, Venkatarama na Reddy Chittireddy and Uma Vuruputuri.	International Journal of Mycobacteriology	Vol. 4, No. 4, Pages 330 – 336 .	December 2015	Peer reviewed	0.271	International	2212-5531	17237	Science and Scopus	1	6	Osmania University

6	Identification of novel leads applying in silico studies for Mycobacterium multidrug resistant (MMR) protein	Vasavi. M, Kiran Kumar Mustyala , Sarita Rajender. P, Uma Vuruputuri,	Journal of biomolecular structure and Dynamics.	Volume 32(12), Pages 1889-906	December 2014	Peer reviewed	2.300	International	1538-0254	19437	Science and Scopus	13	53	Osmania University
7	Macromolecular structure and interaction studies of SigmaF and Ufx in <i>Mycobacterium tuberculosis</i> ,	Kiran Kumar Mustyala , Vasavi Malkhed, Sarita Rajender Potlapally, Venkataramana Reddy Chittireddy and Uma Vuruputuri.	Journal of Receptors and Signal Transduction,	Vol. 34, No. 3, Pages 162 – 173	January 2014,	Peer reviewed	1.63	International	1532-4281	22560	Science and Scopus	6	43	Osmania University
8	Molecular Dynamic Simulations of Co (III) and Ru (II) polypyridyl complexes and docking studies with dsDNA, Navaneetha Nambigari,	Kiran Kumar Mustyala , Vasavi Malkhed, Ramasree Dulapalli, Uma Vuruputuri*, Nagababu Penumeeka, Satyanaraya	Journal of Medicinal Chemistry Research,	Volume 22, Issue 11, Pages 5557-	November 2013,	Peer reviewed	1.436	International	1554-8120	25679	Science and Scopus	3	32	Osmania University

		na Sirasani,		556 5										
9	Modeling of alternate RNA polymerase sigma D factor and identification of novel inhibitors by virtual screening,	Vasavi M, Kiran Kumar Mustyala , Sarita Rajender P, Uma Vuruputuri,	Cellular and molecular bioengineering ,	Volume 5, Issu e 4 , pp 363 - 374	December 2012,	Peer reviewed	1.318	International	186 5- 503 3	6764	Science and Scopus	6	21	Osm ania Univ ersit y
10	Pharmacophore mapping and in silico screening to identify new potent leads for A _{2A} Adenosine receptor as antagonists.	Kiran Kumar Mustyala , Annapurna Reeni Ch, Subhashini Prameela NJ, Uma Vuruputuri.	Journal of Receptors and Signal Transduction	Vol. 32, No. 2, Pages 102 - 113.	April 2012,	Peer reviewed	1.63	International	153 2- 428 1	22560	Science and Scopus	6	43	Osm ania Univ ersit y
11	Angiogenesis: An in silico approach to angiogenetic phenotype.	Navneetha Nambagari, Sarita Rajender P, Kiran Kumar Mustyala , Bhargavi K, Vasavi M, Ramasree D, Uma	Journal of Pharmacy Research	Volume 5(1), Pages 583 - 588	Jan, 2012,	Peer reviewed	2.36	International	097 4- 694 3	218	Science and Scopus	3	11	Osm ania Univ ersit y

12	Novel inhibitors targeting cell signaling receptor – cyclin D2 by virtual screening.	Sarita Rajender P, Kiran Kumar Mustyala , Vasavi M, Uma Vuruputuri,	Journal of Pharmacy Research;	Volume 5(1), Pages 572 - 579	Jan, 2012,	Peer reviewed	2.36	International	0974-6943	218	Science and Scopus	2	11	Osmania University
* please provide the PDF or scanned copy of the articles along with ISSN no. and DOI														

9. List of Publication in Conference proceedings:

SNo	Title of Paper	Name of Conference	Name of the Publisher	Month and Year of Publication	ISBN No.	State/National /International	Affiliated institute at the time of publication
1							
2							
* please provide the PDF or scanned copy of the articles along with ISBN no. and DOI							

10. List of Books Published:

S.No	Title of Book/Chapter	Edited/ Authored	Name of the Publisher	Month and Year of Publication	ISBN No.	State/National /International	Affiliated institute at the time of publication
1							
2							
* please provide the PDF or scanned copy of the first page along with ISBN no.							

11. Member on editorial board or referee for national/international

S.No.	Name of the Journal	Status on the editorial Board	ISSN Number	Periodicity of Publication	Month and Year of Inception of Journal	Impact factor
* Please provide the certificates or e-Copy of letter from editor or editorial board						

12. No. of Papers Presented in Conference/workshop/seminars: (Oral/Poster)

SNo	Title of the paper	Name of Conference/ workshop/ Seminars	Oral/Poster	Organized by	Date and year	State/National /International
1	Identification of small molecular inhibitors for branched chain amino acid biosynthesis in Mycobacterium tuberculosis, ,	20th International Conference of International Academy of Physical Science (CONIAPSXX) Recent Advances in Physical Science and Future Challenges,	Poster	University College of Science, Osmania University, Hyderabad,	14th -15th July 2017.	International
2	Identification of inhibitors for capsule glycogen biosynthesis in Mycobacterium tuberculosis by	International Congress on Recent Advances in Chemistry And Chemical Engineering 2016	Poster	JNTUH – CEH, JNTU Hyderabad,	11 – 13 July, 2016.	International

	using In-Silico techniques.					
3	Identification of novel leads by applying in silico studies for Mycobacterium tuberculosis	international Conference and Workshop on Structure Based Drug Designing and Applications to infectious Diseases,	Poster	University of Hyderabad and IIITH, Hyderabad,	1st-5th February 2016.	International
4	Novel antagonists against Rv8 protein, in <i>Mycobacterium tuberculosis</i> - An <i>in-silico</i> approach	international Conference and Workshop on Structure Based Drug Designing and Applications to infectious Diseases,	Poster	University of Hyderabad and IIITH, Hyderabad,	1 st -5 th February 2016.	International
5	Homology modeling and Protein – Ligand docking studies of MR1 Protein.	International conference on Trend Setting Innovation in Chemical Science & Technology– Applications in Pharma Industry (TSCCST_API2015),	Poster	Centre for Chemical Sciences and Technology , Institute of Science and technology JNTUH, Hyderabad,	16 th -18 th December 2015.	International
6	Identification of novel leads by applying in silico studies for Mycobacterium tuberculosis MR2 protein,	International Conference on biochemistry, nutrition & pharmacy in human welfare: recent trends and future challenges,	Poster	Department of Biochemistry, University College of Science, Osmania University, Hyderabad,	3 rd – 5 th September 2015.	International
7	<i>In silico</i> studies to identify novel lead molecules for VH1 targeting tuberculosis,	International Conference on Chemical Biology Disease Mechanisms and Therapeutics (ICCB-2014),	Poster	Chemical Biology Society (IBS), India in association with CSIR-IICT, Tarnaka, Hyderabad,	6th -8th February -2014	International
8	Study of molecular	International	Poster	Department	08 th -10 th	International

	interactions of DNA - Ru (II) Polypyridyl complexes: A computational approach,	conference on “Nano-Bio and Materials Sciences (ICONBMS-2014)		t of Physic, Nizam College, Osmania University, Hyderabad,	January-2014	
9	Pharmacophore mapping and 3D QSAR Studies of A1 Adenosine Receptor.	Recent advances in computational drug design	Poster	IISc, Banglore, India.	16 th – 17 th September 2013	International
10	Small molecule identification against novel MDRA protein of Mycobacterium tuberculosis. presented at	Albany 2013: Conversation 18, organized by Department of Chemistry and Biological Sciences,	Oral	State University of New York, Albany, NY, USA.	11th - 15th June 2013	International
11	Interaction studies between TTF and ATTF proteins of Mycobacterium tuberculosis.	Second UK-India Medchem Congress 2013,	Poster	Royal Society of Chemistry and Indian Institute of Chemical Technology (IICT), Hyderabad, Andhra Pradesh	22nd - 23rd March 2013	International
12	Novel leads for inhibition of sulphate /thiosulphate ATP binding protein activity;	XXXI Annual Conference of Indian Council of Chemists,	Poster	Department of Chemistry, Saurashtra University, Rajkot	26 th – 29 th Dec – 2012	National
13	Discovery of novel leads against TKS1 protein of Mycobacterium tuberculosis - A Virtual Screening Study,	Seventh Indo-US Workshop on Mathematical Chemistry (With applications to chemoinformatics, bioinformatics, toxicoinformatics,	Poster	PRIST University Thanjavur and International Society for Mathemati	4 th – 6 th December, 2012	International

		molecular design, and newdrug discovery)		cal Chemistry		
14	Homology modeling and Protein – Protein docking of RVF-6,	Seventh Indo-US Workshop on Mathematical Chemistry (With applications to chemoinformatics, bioinformatics, toxicoinformatics, molecular design, and new drug discovery)	Poster	PRIST University Thanjavur and International Society for Mathematical Chemistry	4 th – 6 th December, 2012	International
15	Interaction Studies of Novel Antagonists for Tuberculosis-An Insilico Study, on	3rd World Congress on Biotechnology 2012	Poster	Omics group, at HICC, Hyderabad, India	13-15 th September, 2012	International
16	In- Silico studies of novel TTF protein related to Mycobacterium tuberculosis.	3rd World Congress on Biotechnology 2012,	Poster	Omics group, at HICC, Hyderabad, India	13-15 th September, 2012	International
17	Design of novel lead molecules for insulin resistance and type 2 Diabetes- A computational study.	Chemical Constellation Cheminar – 2012 (CCC-2012),	Poster	Department of Chemistry(DST-FIST Sponsored Department), Dr. B R Ambedkar National Institute Of Technology , Jalandhar- (Punjab), India	10-12 th September, 2012.	International
18	Novel ATP antagonist fluoroquinolone EPP3 protein, in Mycobacterium tuberculosis- An In-Silico approach,	Chemical Constellation Cheminar – 2012 (CCC-2012),	Poster	Department of Chemistry(DST-FIST Sponsored Department), Dr. B R Ambedkar National Institute Of Technology	10-12 September, 2012.	International

				, Jalandhar- (Punjab), India		
19	Presented a paper entitled "Interaction of Ru (II) & Co (III) complex of EHPIP with ds DNA – An Experimental and Computational approach".	The 3rd World Congress on Bioavailability and Bioequivalence	Poster	OMICS Group at the Marriot Hotel & Convention Centre, Hyderabad;	March 26-28 th , 2012,	International
20	Design and synthesis of potent Cyclin C inhibitors,	The 3rd World Congress on Bioavailability and Bioequivalence	Poster	OMICS Group at the Marriot Hotel & Convention Centre, Hyderabad;	March 26-28 th , 2012	International
21	Interaction of Ru (II) & Co (III) complex of EHPIP with ds DNA – An Experimental and Computational approach, , Hyderabad	The 3rd World Congress on Bioavailability and Bioequivalence	Poster	OMICS Group at the Marriot Hotel & Convention Centre, Hyderabad;	March 26-28 th , 2012	International
22	Homology Modeling and Virtual Screening Studies of TKS2 protein of Mycobacterium Tuberculosis, (Best oral Presentation Award)	30 th Annual Conference of Indian Council of Chemists held at Department of Chemistry, Osmania University, Hyderabad	Oral		28 th – 30 th Dec – 2011	National
23	Homology modeling and Protein – Protein docking analysis of KRT – 7: A novel target for Cancer therapy,	30 th Annual Conference of Indian Council of Chemists held at	Poster	Department of Chemistry, Osmania University, Hyderabad	28 th – 30 th Dec – 2011	
24	Effect of intramolecular hydrogen-bond on the DNA-binding,	30 th Annual Conference of Indian Council of Chemists	Poster	Department of Chemistry, Osmania	28 th – 30 th Dec – 2011.	National

	Photocleavage and Molecular mechanistic studies of polypyridyl cobalt(III) complexes,			University, Hyderabad		
25	Presented a Paper entitled <i>"Pharmacophore studies of Human A_{2A} Receptor Ligand molecules"</i>	MEDCHEM Congress	Poster	Royal Society of Chemistry, Indian Institute of Chemical Technology (IICT) and National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad, Andhra Pradesh	25 th -26 th February 2011	International
26	<i>"Comparative modeling and virtual screening of TTL Protein"</i>	National conference on Biological Chemistry (NCBC – 2010)	Poster	Gitam University, Vizag, Andhra Pradesh, India.	Nov - 2010	National
27	<i>"Homology Modeling and docking studies of Human Adenosine Receptor A1"</i>	4th International Symposium on 'Current Trends in Drug Discovery Research (CTDDR-2010)'	Poster	CDRI, Lucknow, Uttar Pradesh, India.	Feb - 2010	International
28	3D model of DNA with plastic tubes and balls	"120 Years Celebrations",	Model	Dept. of Chemistry, Nizam College, O.U. Hyderabad	Feb - 2008	International
30	<i>"Stress Gene Regulator MTB1 - Model Evaluation and Binding Studies for Designing a New</i>	DST sponsored Indo-German 'Modeling Chemical and Biological (Re) activity'	Poster	IICT, Hyderabad, Andhra Pradesh, India.	Sept-2007	International

	Drug"					
31	"MTB2 – Evaluation of 3D Structure by Molecular Modeling Techniques"	National symposium on "New Frontiers In Chemistry"	Poster	Dept of Chemistry, Kakatiya University, Warangal, Andhra Pradesh, India.	Feb-2007	National
* Please provide the certificates						

13. Conferences/ workshop/ seminars/Training Program etc organized.

SNo	Name of the Seminar	International/ National/State/U niversity/College level	Date	No. of papers presented	No. of Participants		Source of funding/ Sponsorin g Agency
					Nizam College	Other Institutions	
1	Organizing Committee member of <i>Fourth Indo – US Lecture Series on Discrete Mathematical Chemistry</i> (With application to drug discovery, environmental protection, genomics and proteomics) jointly organized by Department of Chemistry, Nizam College (Autonomous), Osmania University, Hyderabad, India and Natural Resources Research Institute, University of Minnesota, Duluth, Minnesota – 55811,USA ()	International	6 th – 9 th Jan, 2009	NA	100	100	

* Please provide the proof of organization and sanction letter for funding

14. Conferences/ workshop/ seminars/Training Program etc attended/participated.

S.No	Name of the Seminar attended	National/ International	Duration		Organized by	Funded/Not Funded	Funding agency	Amount
			From	To				
1	Participated in a Three day Seminar on "Chemistry – Technology Interface" A Synergistic Approach"	National	Oct - 2007	Oct - 2007	Dept of Chemistry, Nizam College and University college of Technology, O.U. Hyderabad, Andhra Pradesh, India.	Not Funded		
2	Participated in a One day seminar on "Drug Designing - An insight, Scope and Challenges",	National	July- 2007		Dept of Chemistry, Nizam College, Hyderabad, Andhra Pradesh, India.	Not Funded		
3	Participated in a One day seminar on "Futuristic Chemistry",	National	March -2007		Dept of Chemistry, Nizam college, Hyderabad, Andhra Pradesh, India.	Not Funded		
4	Participated in the "Physics 2005 Meet",	National	Feb- 2005		B.M.Birla Science Center, Hyderabad, Andhra Pradesh, India.	Not Funded		
* Please provide the certificates and sanction letter for funding								

15. Patents:

Total No. of Patents: 2 **No. of Patents applied:** **No. of Patents approved:**

S.No	Month and Year	National/ International/ Commercialized	Country	Patent Information	Patent Filed/ Published /Granted	Patent Application no./Grant No.
1	19 – 12 – 2014	National	India	Design, Synthesis and Cytotoxic Studies of Piperazine Derivatives against Cancer.	Granted	(Indian Patent application number 5681/CHE/2014)

2.	26-08-2016	National	India	Novel Entities for <i>Mycobacterium tuberculosis</i> – Design, Synthesis and Activity.	Granted	Indian Patent application number 6190/CHE/2014
* Please provide the copy of patent publication and Patent grant orders						

16. Research Projects:

Total No. Projects:

Major: -

Minor:

Title/Name of Project	Major /Minor	Funding Agency	Amount Granted (in Rs. Lakhs)	Amount Received (in Rs. Lakhs)	Duration	Date and Year	Status – Completed /Ongoing/ Sanctioned/ Submitted
* Please provide the scanned copy of sanction letter/ grant received orders/project closure orders							

17. Consultancy Projects:

Name of the Consultant	Name of the Consultancy Project	Consulting/Sponsoring Agency with Contact Details	Month and Year	Funds earned/ Revenue generated during last five years (in Rs.)*
* Audited statement of accounts indicating the revenue generated through consultancy				

18. Collaboration activities for research:

Title of the collaborative activity	Name of the Collaborating agency with contact details	Source of financial support	Month and Year of collaboration	Duration	Nature of activity
* Audited statement of accounts indicating the revenue generated through consultancy					

19. Students Projects:

Total No.of Student Projects Guided:

S.No	Name of the student	Course	Title of the Project	Duration of the Project	Month & Year of the Award
* please provide copy of certificate page or certificate from Head/Principal					

20. Faculty visit abroad on academic purpose:

Institution Visited & Period of Visit	Country	Sponsoring of agency	Activity undertaken	Month and Year of Visit
* please provide invitations/sanction letters/grant received letter				

21. Awards / distinction received if any

Name of the award Received	International/ National/ State/University/District/College level	Nature of Award	Month & Year of the Award
* please provide copy of certificate			

22. International fellowship for advanced studies/research received if any

Name of the award	Month and Year of Award	Awarding agency
* please provide copy of certificate		

23. Faculty Distinction/Nominations to University/State/National/International bodies.

Membership / Distinction earned	Organization	University/State/ National/International Level	Month and Year
*please provide copy of offer letters/appointment orders			

24. Collaborative programs if any other University / Organization/ Industries

Name of Program	Nature of Collaboration	Collaborating organization and Country	Objectives of MOU	Month and Year
* please provide copy of MoU letter				

25. Innovation adopted in Teaching (If any, provide details.):

- 26.** Participation in Curriculum design/BOS etc. (copy of minutes of meeting)
- 27.** List of ICT modules prepared (Please provide soft copies of modules, url link/videos):
- 28.** Social outreach programs conducted (If any, proof as photographs, videos, certificate of appreciation, etc):
- 29.** Life Members of any bodies (provide membership details):
- 30.** Extension activities and institutional social responsibility (If any, provide proof)
- 31.** Contribution to environmental awareness and protection (If any, provide proof)
- 32.** Please provide the details if any MoUs/Linkages (If any, provide MoU letter):
- 33.** Any another relevant information:

SIGNATURE