


Faculty Profile

Name :	Ms. Bhumi Shah (Assistant Professor, LJIP)	
Date of Birth :	19/07/1986	
Educational Qualifications:		
-Ph.D. (University)	Enrolled in Kadi University (2019)	
-Master's (University)	M.Pharm. in Pharmaceutical chemistry, LMCP, Gujarat university (2007-2009)	
-Bachelor's(University)	B.Pharm., LMCP, Gujarat university (2003-2007)	
-Any Other:	-----	
Area of Specialization :	Pharmaceutical chemistry	
Date of Joining (LJIP)	19/06/2017	
Present Position :	Assistant Professor, Pharmaceutical Chemistry, L.J. Institute of Pharmacy	
Contact Details:		
-Address :	401, Vasupujya Apartment, Ankur cross road, Naranpura, Ahmedabad-380 063, Gujarat, India	
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-Phone	(R) 079-27490804 (M) 9974047008	
Work Experience :	Teaching (9 years) Industrial (--) Research & Development (--)	
Subjects taught :		
-Under Graduate level	Inorganic Chemistry (1 st sem.), Organic Chemistry (2 nd , 3 rd and 4 th sem.) Medicinal Chemistry (5 th , 6 th , 7 th and 8 th Sem.)	
-Post Graduate level	-----	
Area of Specialization in your field	Molecular modelling, QSAR	
A brief account of work done by you in the M. Pharm. and Ph.D.	<p style="text-align: center;">M.Pharm:</p> <p><i>“Lead Modification Study of a series of N, N’-bis[(un)substituted phenyl]-4-methyl piperazine-1-carboxamide derivatives as potential antipsychotic agents.”</i></p> <p>Currently prescribed drug for the treatment of schizophrenia is typical and atypical antipsychotics. Typical antipsychotic drugs like chlorpromazine, haloperidol, droperidol and spiperone etc. effectively control the positive symptoms of schizophrenia. Atypical antipsychotic drugs like clozapine acts on positive as well as negative symptoms but it causes agranulocytosis, a life threatening side effect causing depletion of white blood cells. So, there is a need to develop newer antipsychotic drugs which have effect on positive, negative and cognitive symptoms of schizophrenia with fewer propensities to cause side effect. A lead modification study was carried out on a series of 4-methyl-N-[(un)substituted phenyl]-N-(phenyl/(pyridine-2-yl))piperazine-1carboxamide as D₂ receptor antagonists using Genetic Function Approximation (GFA). Model No 1 is considered the best model based on internal and external predictivity, which shows r², LOF, r²_{cv}, F-value, r²_{pred}, r²_m values of 0.81, 0.138, 0.73, 19.37, 0.67, and 0.63, respectively. From the prediction results, compound (2a) showed promising activity as D₂ receptor antagonists,</p>	

which was further synthesized and evaluated using inhibition of the isotonic contraction induced by dopamine on isolated rat vas deferens. Overall, the results of this study may generate a potential lead candidate for the treatment of schizophrenia.

New Technologies /methods developed by you	-----
Scale up and Technology Transfer	-----
Industrial Projects Carried Out :(No.)	-----
Revenue/Royalty earned by the Organization in Indian Rupees	-----
No. Government funded Projects undertaken by you and their total value	-----
Research Guidance :	
-Master's	---
-Guide for PhD	---
Summer/Winter/School/Conference/ Workshops attended:	6
Summer/Winter/School/Conference/ Workshops Conducted:	---
Patents taken/applied for:	
Publications:	
Research Papers : 02 (Taylor and Francis- 01, Elsevier- 01)	
Some of the notable papers are mentioned below:	
<ol style="list-style-type: none"> 1. Journal of Biomolecular Structure and Dynamics – Taylor and francis 2019 Pharmacophore-based virtual screening, 3D-QSAR, molecular docking approach for identification of potential Dipeptidyl peptidase IV inhibitors https://doi.org/10.1080/07391102.2020.1750485 2. Life Sciences - Journal – Elsevier 2019 In silico studies on therapeutic agents for COVID-19: Drug repurposing approach https://doi.org/10.1016/j.lfs.2020.117652 	
Conferences ,Workshops and Seminars	
<ol style="list-style-type: none"> 1. Poster presented in 29th APSI scientist meet & international conference on Drug discovery and development in Agro biotechnology and pharmaceutical sciences, 2019 2. Poster presented in international conference entitled “Current trend in drug design, Medicinal chemistry pharmaceutical sciences” at DDU, 2019 Attended seminar entitled “ Responsible use of medicines: Role of Pharmacist” , SAL institute 2015 Attended seminar entitled “ e-CTD: an interface to pharmaceutical industry to Regulatory agency”, SSSPC 2013 Attended seminar entitled “ Recent advance in cGMP, global regulatory affairs”, SSSPC 2012 Attended FDP on intellectual property right organized by GTU, 2019 	
Notable Achievements and activity excuted:	
<ul style="list-style-type: none"> Passed GATE examination (IIT, Delhi) with 98.5 percentile (Rank 475/ 12477) in 2007 and got JRF of Rs. 8,000/- per month from AICTE for consecutive 2 years. 	

- **Received Gold medal in M.Pharm. (Pharmaceutical chemistry) in Gujarat University (2009)**
- Worked as Mentor for batch 2017

Association with Professional Bodies	-----
Grants Received/Fetched:	-----
Consultancy and Expertise available for industries	-----