	Faculty Profile		
Name:	Dr. Palmi Modi (Assistant		
	Professor, LJIP)		
Date of Birth:	23/06/1990		
Educational Qualifications:			
-Ph.D. (University)	Ph.D. in Pharmacy,	(0) (0)	
	Dharamsinh Desai University (2013-2019)		
-Master's (University)	M.Pharm, in Mdicinal		
37	Chemistry, Gujarat		
	Technological University		
-Bachelor's(University)	(2011-2013) B.Pharm., Saurashtra		
-Bachelol s(Oniversity)	Univesity (2007-2011)	Market and the Control of the Control	
-Any Other:			
Area of Specialization :	Pharmacy Pharmaceutical Che	mistry Organic Chemistry	
or Specialization .	Pharmacy, Pharmaceutical Chemistry, Organic Chemistry, Medicinal Chemistry		
Date of Joining (LJIP)	15/06/2017		
Present Position:	•	Assistant Professor of Department of Pharmaceutical Chemistry,	
C. A. A. D. A. B.	L.J. Institute of Pharmacy		
Contact Details: -Address:	2-CF Shantinath Annartment	R/H Doctor House Fllishridge	
-Address .	2-GF, Shantinath Appartment, B/H Doctor House, Ellisbridge, Ahmedabad-380 009, Gujarat, India		
-Email	Palmi.modi ljip@ljinstitutes.edu.in , palmipendal@gmail.com		
-Phone	(R) 079-26427145 (M) 9909824916		
Work Experience :	Teaching (7 years) Industrial() Research& Development()		
Subjects taught:			
-Under Graduate level	Inorgnic Chemistry (1st sem.), Organic Chemistry (2nd, 3rd and 4th		
	sem), Medicinal Chemistry (4 th , 5 th and 6 th Sem.)		
-Post Graduate level			
Area of Specialization in your field	Drug design and discovery		
A brief account of work done by you in	M.Pharm:		
the M. Pharm. and Ph.D.	"Design, Synthesis and Biological Screening of New pyridazine		
the W. I haim, and I h.D.	Derivatives as an Anti-inflamma	tory Agents"	
		1 210 311 1 4 2010	
	Inflammation disease is estimated to reach 210 million by the year 2010 and 300 million by the year 2025. Varieties of new pharmacological interventions are developed in last several years. Several studies has been carried out covering different aspects of pharmacological		
		along with the effects. We synthesise	
	•	s which may be useful in the future as	
		yridazine has not been investigated as	
		So pyridazine is selected as the core	
		n. We designed diaryl pyridazine parent nucleus as drugs of this class.	
	•	modeling was carried out to find	
	• •	yridazine with Celecoxib, it shows	
		th the structures are superimposing on	
	each other. So we made hypothe	sis that diaryl pyridazine may exert	
	: *	y. So we planned to synthesize and	
	screen derivatives of diaryl pyridazine as anti-inflammatory agents based on structure similarity. Further Structural elucidation of synthesized		
	•	gh IR, MASS, ¹ H-NMR and ¹³ C-	
	molecules was periorilled tilrou	gii iix, ivimbo, 11-iviviix aliu 'C-	

	NMR spectroscopy. Synthesized molecules were screened for their
	anti-inflammatory activity with rat paw edema method. Ulcerogenic
	potential was also measured.
	Ph.D.
	"Molecular Modelling Studies, Synthesis and Biological Evaluation
	of some Novel Pyrazole Derivatives as Anti-tubercular Agents"
	Tuberculosis (TB) is an infectious airborne disease caused by
	different species of Mycobacterium tuberculosis (Mtb) and it is one
	of the greatest world's health hitches with gradually increase in the
	mortality and morbidity. Though effective chemotherapy has been
	place over 50 years, World Health Organisation has declared
	tuberculosis "a global health emergency" which is the leading cause
	of death. Worldwide, TB is one of the top 10 causes of death from a
	single infectious agent. Each year millions of people continue to fall
	sick with TB. In 2017, TB caused an estimated 1.3 million deaths
	among HIV-negative people and there were an additional 300 000
	deaths from TB among HIV-positive people. Currently, resistance of
	Mycobacterium tuberculosis strains towards the main drugs
	isoniazide (INH) and rifampicin is of significant concern.
	Development of drug resistance has narrowed down the conventional
	anti-tuberculosis therapeutic regimen. There is an urgent need of new
	therapeutic agents which acting through different mechanism of
	action. Mycolic acids, with 60-90 carbons long chain α-alkyl β-
	hydroxyl fatty acids is the key constituents for the Mtb cell wall
	biosynthesis. Pathogenicity of Mtb is linked to its peculiar nature of
	cell envelope that possesses two fatty acid synthase (FAS) pathways,
	FAS-I and FAS-II involved in the synthesis of mycolic acid. As there
	are limited numbers of inhibitors available for treating tuberculosis,
	there is a crucial requirement to develop medicinally useful enoyl acyl carrier protein reductase (InhA) inhibitors. So, it is a target of
	choice for the discovery of newer anti-tubercular agents. Based on
	ligand based and structure based strategy Series of 5-amino-N-
	substituted phenyl-3-(substituted phenylamino)-1H-pyrazole-4-
	carboxamide (PM) and 7-hydroxy-5-methyl-N-substitutedphenyl-2-
	(substituted phenylamino)pyrazolo[1,5-a]pyrimidine-3-carboxamide
	(LMPM) derivatives were designed and synthesized. Structural
	elucidation of synthesized molecules was performed through IR,
	MASS, ¹ H-NMR and ¹³ C-NMR spectroscopy. Synthesized molecules
	were screened for their anti-mycobacterial activity against H ₃₇ Rv
	stain by Microplate Alamar Blue Assay (MABA) Method. Further
	QSAR study was carried out to get the better understanding of
	structure activity relationship.
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/	18
Workshops attended:	
Summer/Winter/School/Conference/	00
Workshops Conducted:	
Patents taken/applied for:	

Publications: No of books: NA

Research Papers: <u>07</u> (7 in International Journals-, Elsevier- 04, Bentham -01,

Tylor and francis- 02)

Some of the notable papers are mentioned below:

1. Life Sciences 2020

In silico studies on therapeutic agents for COVID-19: Drug repurposing approach https://www.sciencedirect.com/science/article/pii/S0024320520304008

2. Journal of Biomolecular Structure and Dynamics 2020

Pharmacophore-based virtual screening, 3D-QSAR, molecular docking approach for identification of potential Dipeptidyl peptidase IV inhibitors

https://www.tandfonline.com/doi/abs/10.1080/07391102.2020.1750485

3. Bioorganic Chemistry 2019

Structure-based design, synthesis and biological evaluation of a newer series of pyrazolo [1, 5-a] pyrimidine analogues as potential anti-tubercular agents https://www.sciencedirect.com/science/article/abs/pii/S0045206818314019

4. Journal of Biomolecular Structure and Dynamics 2019

Identification of some novel pyrazolo[1,5-a]pyrimidine derivatives as InhA inhibitors through pharmacophore-based virtual screening and molecular docking https://www.tandfonline.com/doi/abs/10.1080/07391102.2018.1465852

5. Bioorganic Chemistry 2018

Structure-based design, synthesis and evaluation of 2, 4-diaminopyrimidine derivatives as novel caspase-1 inhibitors

https://www.sciencedirect.com/science/article/abs/pii/S0045206817309148

6. Journal of Molecular Graphics and Modelling 2018

Rational approach to identify newer caspase-1 inhibitors using pharmacophore based virtual screening, docking and molecular dynamic simulation studies

https://www.sciencedirect.com/science/article/abs/pii/S1093326317307830

2016 7. Current topics in medicinal chemistry

Thiazole: a review on chemistry, synthesis and therapeutic importance of its derivatives https://www.ingentaconnect.com/content/ben/ctmc/2016/0000016/00000026/art00003

Conferences , Workshops and Seminars

- 1. Attended 15 days Faculty development Program entitled "Emerging trends in Pharmaceutical Sciences: From research to Revenue", 20th January -1st February, 2020 held at L. M. College of Pharmacy, Ahmedabad.
- 2. Poster presented in international conference entitled "4th Info-carribbean Conference" DDU, Nadiad 2017

- **3.** Attended 3 days Faculty development Program entitled "Intellectual property Rights", 21st October -23rd October, 2019 held at Gujarat Technological University, Ahmedabad.
- **4.** Attended Woman Development Seminar entitled "Woman-undauted" held at L. M. College of Pharmacy, Ahmedabad on 8th march 2019.
- **5.** Attended Woman Development Seminar entitled "Cheminformatics in Organic & Pharmaceutical Chemistry" held at L. M. College of Pharmacy, Ahmedabad on 15th December 2016.
- **6.** Attended National Seminar and workshop entitled "Hands-on training on Computational Methods in Drug Discovery by Schrodinger" held at L. M. College of Pharmacy, Ahmedabad on 23rd and 24th June 2016.
- **7.** Attended National Seminar and workshop entitled "New Horizone in Drug Design" held at L. M. College of Pharmacy, Ahmedabad on 1st -3rd March, 2015.
- **8. Poster Presentation and won IIIrd Prize** on national seminar entitled "National Seminar on Green Chemistry" organized by Gujarat Forensic Science, 2015.
- **9.** Presented poster in international conference entitled "Lipophagy Inducers: Novel target to enhance the lipolysis" on Nipicon 2014 held at Nirma University, 2014.
- **10.** Attended as delegate in one day seminar entitled "Woman in Science" held at held at L. M. College of Pharmacy, Ahmedabad on 8th march 2014.
- **11.** Presented Poster on international symposium entitled "Recent Trends in Cancer Research: From OM to OMICS" held by The Gujarat Cancer & Research Institute, Ahmedabad on 24th November 2014.
- **12.** Presented Poster on international symposium entitled "Drug development for Orphan/Neglected Diseases" held by CSIR-Central Drug Research Institute, Lucknow on 26th -28th February 2013.

3	,	-
Notable Achievements and activity exc	uted:	
Association with Professional Bodies		
Grants Received/Fetched:		
Consultancy and Expertise available for industries		