


Faculty Profile

Name :	Pareshkumar Kanubhai Patel	
Date Of Birth :	20/05/1986	
Educational Qualifications:		
-Ph.D. (University)		
-Master's (University)	Nirma University	
-Bachelor's(University)	Veer Narmad South Gujarat University, Surat	
-Any Other:		
Area Of Specialization :	Medicinal Chemistry	
Date of Joining LJIP	05/07/2012	
Present Position :	Assistant Professor	
Contact Details:		
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Work Experience :	Teaching (8) Industrial(--) Research & Development(--)	
Subjects taught :		
-Under Graduate level	Medicinal Chemistry, Organic chemistry Biochemistry, Physical Chemistry, Inorganic Chemistry	
-Post Graduate level	Drug Design And Discovery	
Area of specialization in your field	Computer Aided Drug Design, Medicinal Chemistry	
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>Discovery of HIV-I Integrase inhibitors: Pharmacophore Modeling, virtual screening, Synthesis and Evaluation</i></p> <p>HIV I integrase is one of the most important enzyme which play an important role in life cycle of HIV virus. It is responsible for integration of virus into human genome. In course of my research to discover new HIV I integrase inhibitors, both computational and synthetic approaches were used to design and synthesis of newer HIV I integrase inhibitors. Pharmacophore mapping was performed on 20 chemically diverse molecules using DISCOtech and refinement of the same was done using genetic algorithm similarity programme (GASP). Ten pharmacophore models were generated and model 1 was considered the best model as it has highest fitness score compared to all other models. The best pharmacophore hypothesis contained 4 features including 2 donor sites, 1 acceptor atom and 1 hydrophobic region. Model 1 was used as a query in NCI and Maybridge hit finder databases. A total number of 17930 molecules were obtained from 39170 molecules after virtual screening. Molecules having more than 99% Q_{fit} value were used in designing of 30 molecules which contains pteridine ring as a core structure. These 30 molecules were docked on HIV I integrase enzyme. Among these 30 molecules, 6 molecules have synthesized which has shown good score compared to the reference standard Raltigravir and Elvitegravir. 3D QSAR, CoMFA and CoMSIA studies were carried out on</p>	

	Dihydroxypyrimidine carboxamide derivatives in order to predict the activity of synthesized compounds. In silico pharmacokinetic and toxicities studies were also predicted for these 6 molecules. These 6 compounds may act as potent HIV I integrase inhibitors in treatment of acquired immunodeficiency syndrome (AIDS).
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	----
- Guiding Projects: No>List>Summary	---
Summer/Winter/School/Conference /Workshops attended:	<ol style="list-style-type: none"> 1. Participated and Completed e-faculty development programme on “teaching in uncertain times:Opportunities and challenges” organized by GTU and babria institute of pharmacy during 30 april-5 may-2020 2. Attended and participated ISCBC-NIPiCON-2020 held at Nirma University during 22-24 jan-2020. 3. Presented a poster on “Gene therapy for treatment of AIDS” at international conference on drug discovery and development in agrobiotechnology and pharmaceutical science held at smt.N.M.padalia pharmacy college, Ahmedabad. During 23-25 Nov-2019. 4. Presented a poster on “Herbal drugs in treatment of HIV” at PHARMARENDEZVOUS A gujcost sponsored national seminar held at Sumandeep Vidyapeeth on 6-7 Dec-2019. 5. Completed training on “ basics of HPLC, instrumentation, maintenance, troubleshooting in labsolutions on shimadzu HPLC” held at L.J.Institute of pharmacy on 6 Dec-2019. 6. Participated and completed faculty development programme on “ teaching pedagogy for subject of organic chemistry at GTU-chandkheda during 12-14 june-2016. 7. Presented a poster on “ recent advances in HIV-I integrase inhibitors” at national seminar on “recent advances in drug discovery-2013” held at Nirma university on 23 march-2013. 8. National level seminar on Natural Products: Scope And Status By 2020,Held at Nirma

	<p>University,Ahmedabad.</p> <p>9. Attended and presented poster INDIAN PHARMACEUTICAL CONGRESS at Mumbai in 2005 and Ahmedabad in 2009</p> <p>10. Attended and presented poster in an international conference on Recent Advances on Cancer Research: Chemoprevention to Therapeutics. Held at Central University of Gujarat, Gandhinagar in 2012.</p> <p>11. Attended and presented poster in Indo American Pharmaceutical Regulatory Symposium- 2011 at Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat.</p> <p>12. Attended and presented poster in State level Seminar on <i>Pharma Vision 20-20</i> in 2011 held at Maliba College of Pharmacy, Bardoli, Surat, Gujarat.</p>
Summer/Winter/School/Conference /Workshops Conducted:	-----
Patents taken/applied for:	-----
Publications:	
(a)No of books:	-----
(b)Research Papers :	<ol style="list-style-type: none"> 1. Beneficial effect of aspirin against interferon-a-2b - induced depressive behavior in Sprague Dawley rats. Shailendra Bhatt, Kilambi Pundarikakshudu Paresh Patel, Nirav Patel, Ashish Panchal, Gaurang Shah, Sunita Goswami. Clin Exp Pharmacol Physiol 2016;43(12):1208-1215. (Wiley) 2. Discovery of HIV-1 Integrase Inhibitors: Pharmacophore Mapping, Virtual Screening, Molecular Docking, Synthesis, and Biological Evaluation. Bhatt, H. G.; Patel, P. K. <i>Chem Biol Drug Des</i> 2014; 83: 154–166. (Wiley) 3. 3D QSAR study of 4H-chromen-1,2,3,4-tetrahydropyrimidine-5-carboxylate derivatives as potential anti-mycobacterial agents. V. K. Vyas , H. G. Bhatt , P. K. Patel, Chintha , N Med Chem Res (2014) 23:2955–2963. (springer) 4. CoMFA and CoMSIA studies on C-aryl glucoside SGLT2 inhibitors as potential anti-diabetic agents. VK Vyas, HG Bhatt, PK Patel, J Jalu, C Chintha, N Gupta, M Ghate. SAR and QSAR in Environmental Research 24 (7), 519-551 (Taylor & Francis online) 5. Bhatt, H. G.; Patel, P. K. Pharmacophore modeling, virtual screening and 3D-QSAR studies of 5-tetrahydroquinolinylidene aminoguanidine derivatives as sodium hydrogen exchanger inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i>. 2012; 22:3758–3765. (Elsevier) 6. V. K. Vyas, P.K.Patel, M.Ghate, C.Chintha. 3D QSAR studies on substituted benzimidazole derivatives as angiotensin II -AT1 receptor antagonist. Current computer-aided drug design

	2013: 9 (3), 433-445.(Bentham)
(c)Conference papers:	----
Notable Achievements/Awards:	Received Gold Medal in M.Pharm from Nirma University in 2012
Association with Professional Bodies	Gujarat Pharmacy Teacher Association.
Consultancy and Expertise available for industries	----