

Director's desk

We are glad to bring forth the second issue of this academic year, Radiance Vol. 8. It provides an anthology of research projects undertaken at the institute and an insight on the events that brightened the Institute in the current year. It is with great delight and pride that I mention that the Institute of Pharmacy, in accordance with its strong academic tradition has done exceptionally well this year.

I am very gratified with the Faculty of the Institute of Pharmacy who persistently strived not only to teach effectively in the classroom but also excelled in research in terms of research grants, paper presentations, receiving travel grants/fellowships.

The Institute has received Fund for Improvement of Infrastructure in Science and Technology (FIST) grant to develop infrastructure at the Institute to foster research. Many faculty members have received research projects from government agencies like DBT, DST, GUJCOST and many more. I am highly pleased with the students of the Institute who brought recognition to the Institute in terms of various awards and also received various Fellowships to conduct research. As if this was not enough, the faculty in various departments undertook consultancy and testing work also.

We had various events being organized in this session like National Seminar of Institute of Pharmacy (NCIP) and also other programs undertaken under CCE. I congratulate all the faculty, staff and other members of the Editorial Board of RADIANCE, who have strived hard to take along the Newsletter of the Institute. Their untiring efforts and strong teamwork has been persistent in the creation of this issue. I express my gratitude to Dr. Anup K Singh, Director General, Nirma University and Shri K.K.Patel, Chief Operating Officer, Nirma University for their unremitting encouragement.

I am sure that this issue of Radiance would be interesting and informative.

(Prof. Manjunath Ghate)
Director, Institute of Pharmacy

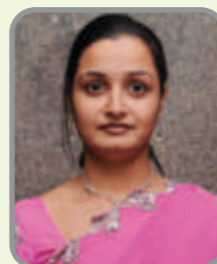


Editor's desk

I am pleased to present before you, the second issue of Radiance Vol. 8. This issue provides information about institutional activities, performances and achievements of students and faculty in the present period. This issue highlights various research strengths of the Institute as the research project received by the Institute as well as the research projects undertaken by the students in a wide variety of thrust areas of the pharmaceutical field. I have truly enjoyed in bringing out this issue which is possible due to team work and sustained, joint and sincere efforts by one and all. I extend my heartfelt thanks to all the members of editorial board without whose efforts the newsletter may not have seen the day. As always, your active feedbacks and criticisms will help us to effect further improvements.

Enjoy reading!!!!!!!

Email: radiance.ip@nirmauni.ac.in
(Dr. Shraddha Bhadada)



New Initiative: Alumni Felicitation

The alumni of the Institute were felicitated for their outstanding achievement on the occasion of Foundation Day celebration.



Mr. Sujal Mayatra



Mr. Nitesh Shah



Mr. Shivang Chaudhary,

The dignitaries who visited the Institute include



Dr. Chirag Desai, Consultant Oncologist and Director, Hemato-Oncology Clinic, Vedanta Institute of Medical Sciences, Ahmedabad visited on October 1, 2014



Dr. Jayanta Mandal, CEO, FTF, Pharma Pvt. Ltd., Ahmedabad on December 11, 2014



Dr. M.C. Gohel, Research Director, Anand Pharmacy College, Anand on December 11, 2014



Mr. Sunil Parekh, Strategic Advisor, Zydus Cadila, Jubilant on January 21, 2015



Dr. Bhaswat S. Chakraborty, Senior Vice President and Chairman of Research & Development Core Committee, Cadila Pharmaceuticals Ltd., Ahmedabad on 29th January, 2015

Following Dignitaries visited the Institute during National Conference of Institute of Pharmacy-2015 held during January 22-23, 2015:



Dr. A. Mukhopadhyay, Scientist G, Department of Science and Technology, New Delhi on January 22, 2015



Dr. Prati Pal Singh Professor, Dept. of Pharmacology & Toxicology, NIPER, SAS Nagar, Punjab on January 22, 2015



Dr. Shridhar Narayanan, Director, Foundation for Neglected Disease Research, Bangalore on January 22, 2015



Dr. P. M. S. Chauhan, Senior Principal Scientist, Medicinal and Process Chemistry Division, CDRI, Lucknow on January 23, 2015



Dr. Prathama Mainkar, Fellow QRS, Division of Natural Products Chemistry, CSIR-IICT, Hyderabad on January 23, 2015



Dr. T S Keshavprasad, Faculty Scientist, Institute of Bioinformatics, International Technology Park, Bangalore on January 23, 2015

Expert lectures were organised regularly for UG, PG and Ph.D. students on their curriculum, current affairs in the pharmaceutical field as well as for the development of soft skills of the students. The following list provides an information of the guest lectures organised during the last few months:

Name of the Expert, Designation and Affiliation	Title of the talk	Date
Shri Ali Sajjad Bohra, Country Head & Regional Director – Clinical Operations (Asia Pacific), QED Clinical Services India Pvt. Ltd, Ahmedabad	Clinical Trials in Orphan Disease	September 10, 2014
Prof. S.K. Kulkarni, Emeritus Professor of Pharmacology & Former Pro-Vice Chancellor, Panjab University, Chandigarh	Pharmacist as Public Health Manager for Better Professional Outcomes	September 12, 2014
Dr. Ravi Gor, Director (Academics), Dr. Babasaheb Ambedkar Open University, Ahmedabad	Impact of Blended and Collaborative Learning	September 16, 2014
Dr. Ajay Khopade, Sr. V. P., NDDS, Sun Pharma Ltd., Vadodara	Self-Assembly in Drug Delivery Systems	October 11, 2014
Dr. Pavankumar, Head Formulation and Development Department, Intas Pharma Ltd, Ahmedabad	Pharmaceutical Applications of Direct Compression	October 16, 2014
	An Insight on Practical Aspects of QbD in Product Development	December 12, 2014
Mr. Alok Shah, PhD Research Scholar, The University of Queensland Diamantina Institute, Brisbane, Australia	Higher Education (PhD) and Pharma Prospects in Australia	November 19, 2014
Dr. Pathik Brahmkshtriya, Oxygen Healthcare Ltd, Ahmedabad	Recent Drug Design Approaches	November 20, 2014
Ms. Vaishali Kothari, DGM, International Regulatory Affairs, Zydus Cadila, Ahmedabad	Precis on QbD- Practices and Expectations of Regulatory Authorities	December 11, 2014
Dr. Bhaswat Chakraborty, Sr. V.P. & Chair, R&D Core Committee, Cadila Pharmaceutical Ltd., Ahmedabad	Quality by Design in Contemporary Clinical Trials	December 12, 2014
Dr. Deepak Gondaliya, Director, Emcure, Ahmedabad	Process Analytical Technology (PAT)- Manufacturing Excellence	December 12, 2014
Dr. Sushrut Kulkarni, Sr. Vice President & Head, Zydus Cadila, Ahmedabad	Quality by Design for Solid Dosage Forms	December 13, 2014
Dr. Yagnesh Patel, AGM, Formulation R & D, CPC Pharma Ltd., Ahmedabad	QbD for Liquid Dosage Form Development	December 13, 2014
Dr. Balwant Sinh Chauhan, Roosevelt University, USA	A look into Pharmacogenomics (Personalized Medicine)	December 16, 2014
Dr. Pankaj Bharti, EDI, Gandhinagar	Entrepreneurship, Motivation and Psychometric Exercises	December 29, 2014
Mr. Parth Mehta, Chartered Accountant, Nitin Mehta & Company	Various Type of Company / organizations and Business Plan	December 29, 2014
Mr. Arun Baid, Director, Aura Herbal Textile Pvt. Ltd	What it takes you to be an Entrepreneur? Competencies & Risks Vs Rewards	December 29, 2014
Mr. S.K.Trivedi, CED, Gandhinagar	Government Supports for Entrepreneurship Activities	December 30, 2014
Mr. J.B. Patel, Professor, EDI, Gandhinagar	Business Opportunity Identification	December 30, 2014
Mr. Ankit Machhar, Associate Programme Coordinator, i-Create, Ahmedabad	From Idea to Successful Venture: How Incubators can help and what they look for?	December 30, 2014
Mr. Rushik Shah, Alak-Malak Technologies, Ahemdabad	E-Commerce as Emerging Business Model	December 30, 2014
Dr. Mukesh Gohel, Research Director, Anand Pharmacy College, Anand	QbD: A concept for Pharmaceutical Development	January 3, 2015
Dr. Anuradha Joshi, Associate Professor, PSMC, Karamsad	Role of Antibiotic Stewardship Programme in Medical Institutions	January 23, 2015
Dr. Abhishek Prajapati, Associate Consultant, Critical Care and Pulmonology, Sterling Hospital, Bhavnagar	Hospital Acquired (Healthcare Related) Infection - Heading to Solutions	January 23, 2015
Dr. Gaurav Saraogi, Associate Professor, Lakshmi Narain College of Pharmacy, Bhopal	Tuberculosis: Current Situation, Challenges and Overview of its Control Programme	January 23, 2015
Dr. Anupama Ramkumar, Director, Arkus, CTSS, Ahmedabad	Drug Safety & Pharmacovigilance	February 7, 2015
Dr. Chinmoy Ghosh Sr. Research Scientist, Analytical Development Department, Zydus Cadila Pvt. Ltd., Ahmedabad	Impurity Profiling of Drug Substances and Drug Products	February 12, 2015
Dr. Amit Johrapurkar, Deputy General Manager, Department of Pharmacology & Toxicology, Zydus Research Center, Ahmedabad	Challenges and Opportunities in Drug Discovery	February 21, 2015

National Conference of Institute of Pharmacy (NCIP-2015) held during January 22-23, 2015

Institute of Pharmacy, Nirma University, Ahmedabad organized National Conference of Institute of Pharmacy (NCIP 2015) on "Infectious Diseases: Challenges and Opportunities in Research and Practice" during January 22 – 23, 2015. Dr. A. Mukhopadhyay, Scientist G, Department of Science and Technology, New Delhi graced as Chief guest of the inaugural ceremony and discussed the challenges ahead to combat various infectious diseases and importance of research and development of newer molecules for the same. He emphasized on enhancing not only the preventive measures, but also the treatment strategies of the same. Dr. Anup Singh, Director General, Nirma University presided over the function and shared his views on the infectious diseases. Shri K. K. Patel, (I/c.) Vice President, Nirma University also graced the occasion. Dr. Manjunath Ghate, Director, IP-NU while conveying the programme, gave a brief introduction about the University and the Institute. He welcomed the guests, speakers and participants. Dr. Jigna Shah was the Organizing Secretary of the programme.



The scientific programme included 7 brain-storming plenary session, 3 session lectures and a poster session presented by the young scientists. The plenary sessions were delivered by eminent speakers like Dr. Prati Pal Singh, Professor and Head, Centre for Infectious Diseases, NIPER, Mohali; Dr. Prathama Mainkar, Scientist-in-charge, Indian Institute of Chemical Technology, Hyderabad; Dr. P M S Chauhan, Senior Principal Scientist, CDRI, Lucknow; Dr. T S Keshavprasad, Faculty Scientist, Institute of Bioinformatics, Bangalore; Dr Shridhar Narayanan, Director, Foundation for Neglected Disease Research, Bangalore and Dr. Bhaswat Chakraborty, Vice President, Cadila Pharmaceuticals, Ahmedabad, and Dr. Bipin Amin, Professor and Head of Medicine, B. J. Medical College, Ahmedabad shared their knowledge and expertise with the delegates. The young researchers Dr. Anuradha Joshi, Associate Professor, Pramukhswami Medical College, Karamsad; Dr. Abhishek Prajapati, Sterling Hospital, Bhavnagar and Dr. Gaurav Saraogi, Associate Professor, Lakshmi Narain College of Pharmacy, Bhopal shared their views in session lectures. Young scientists from different disciplines of pharmacy, medical and allied sciences participated and shared their experience in scientific sessions durinh the national conference.

Entrepreneurship Workshop held during December 29-31, 2014

IP-NU organized three days' workshop on 'Entrepreneurship Awareness Camp' during December 29-31, 2014. The workshop was organized under the banner of CCE, Nirma University with financial support from DST-NITAB and EDI, Gandhinagar. The workshop was exclusively planned for the students of Pharmacy and Science, 70 students from UG, PG and Ph.D participated in the same. Many well-known speakers namely Dr. Somayajulu Garimella, Director, Institute of Management; Mr. Yagnadeep Gohel, Coordinator, Entrepreneurship cCII, Nirma University; Mr. J B Patel, Entrepreneurship Development Institute; Mr. S K Trivedi, Centre for Entrepreneurship Development; Mr. Ankit Macchar : Program Coordinator, i-create Ahmedabad; Mr. Arun Baid, Founder, Aura Herbal Textile Company; Mr. Parth Patel - Founder, DrugNeed.com; Mr. Rushik Shah - CEO, AlakMalak Technologies; Mr. Parth Mehta - Chartered Accountant gave lectures on various facets of entrepreneurship. On the last day of the workshop participants visited Aura Herbal Textile Pvt. Ltd., Ahmedabad as a part of industrial visit. The workshop was coordinated by Dr. Sanjeev Acharya and co-coordinated by Dr. Jigar Shah and Mr. Tushar Patel.



Foundation Day



Foundation day of Institute of Pharmacy was celebrated on 1st October 2014. The Chief Guest of the function was Dr. Chirag Desai, Director, Hemato Oncology Clinic and Vedanta Institute of Medical Sciences, Ahmedabad. Various competitions like T-shirt painting, Documentary making, Rangoli, Debate, Elocution and Extempore were held on the occasion of Foundation Day Celebration. Apart from this, outstanding faculty members, alumni and existing students of B. Pharm. were felicitated for their exemplary performance. The meritorious students of B. Pharm. 1st, 2nd & 3rd year were also awarded with the gold medals.

Rostrum-2014: Reviving the Rhythm



The cultural festival ROSTRUM'14 was organized at IP-NU during October 14-15, 2015 where various events like Skit, Drama, Solo Dance, Group Dance, Solo Song, Group Song and AD MAD were held. Several students participated enthusiastically in various events. The celebration ended with the Valedictory Function, and the Chief Guest for the function was Mr. Dhvanit, RJ, Radio Mirchi (98.3 FM). Shri K. K. Patel, Chief Operating Officer, Nirma University presided over the function. The function was also blessed by the august presence of Dr. Avani F. Amin, Former Director, Institute of Pharmacy Nirma University. Mr. Dhvanit inspired students to think out of the box as well as to preserve our heritage.

Nirmaquest 2015



"NIRMAQUEST" is unique of its kind in Gujarat amongst various events organized by IP-NU. This national level quiz edition of 2015 was organized by the Institute on 21st January 2015 at Nirma University and in addition to pharma quiz, quiz was also introduced for non-pharma students. The quiz competition was inaugurated by Chief Guest, Shri Sunil Parekh - Strategic Adviser to various reputed companies. In his inaugural address, he motivated students to face global challenges and posed hope and optimism about the future, led by youth. More than 60 participants participated in the quiz competition from various colleges across Gujarat. The quiz was thoroughly enjoyed by the participants and the audience. First (Rs. 11000/-), second (6000/-) and third (3000/-) prizes were given to winners during the valedictory function.

Industrial Visits



With the motive of enhancing knowledge of students as well as to satisfy their curiosity that how dosage forms are manufactured on large scale, visit to various industries are regularly organized. For the students of semester VI, visit to Amanta Life sciences Ltd. at Kheda was organized on January 7- 8 2015. Another visit was organized to Aura Herbal Textiles Pvt Ltd at Lambha, Ahmedabad on December 31, 2014 for students participants in Entrepreneurship awareness camp. A visit to Nirlife Healthcare Ltd, Sachana

was organized for semester VIII students on February 26, 2015.

Extension Activities

1. Bone Marrow Donor Registry Camp

Bone marrow can be used to treat various diseases but for the same bone marrow mapping need to be done. So as to prepare such database, in association with Gujarat Cancer Society for Marrow Donor Registry of India (MDRI), Mumbai, blood samples of 43 persons from the Institute of Pharmacy and Institute of Science were collected on September 25, 2014.

2. Old Age Home Visit

Students of NIPSA, IP-NU went to Maniben Tribhuvandas Matrugruh on September 21, 2014. They distributed sanitary kits and arranged bhajans and garba followed by snacks so as to give joy to the old ladies of the matrugruh.

3. Awareness Camps

An Awareness camp was organized at Tragad Primary School on January 17, 2015. In line with the "Swachh Bharat Mission" started by our honorable Prime Minister Shri



Narendra Modi, the camp was organized on the theme. The students of the Institute explained the importance of hygiene, cleanliness and sanitation with the help of videos, presentation and posters. About 150 students attended the same and a kit was given to each one of them. The happiness on the faces of kids itself motivate us to do such programmes again and again. Another Awareness Camp was also organized on same theme at Jaspur Primary School on February 21, 2015. About 250 students attended the same

4. Cancer Awareness Campaign

Fourth February is celebrated as World Cancer Day and as a part of it, signature campaign was organized in association with Global Hospital on January 31, 2015. They explained the



prevalence of different types of cancer, causes and treatments of the same. The signatures of students were taken after the discussion session.

5. Other Activities

- As a part of celebration of International White Cane Day 2014 by Indian Association for the Blind (IAB), stickers were distributed and token money was collected at the Institute in the month of December 2014.



- Induction Training for Adult Literacy Programme was organized on February 7, 2015 at seminar hall, Institute of Law in association with Devi Santhan, NGO, Lukhnow. Ms. Nidhi Jain, Mr. Jonathan Hakkim and Mr Vishal Sharma demonstrated that how a person can be educated in span of about two months. They have prepared three books for the same and students of Institute of Pharmacy and Science will work for the noble cause in the village of Jaspur.

Annual Alumni Meet of IPNUAA [Institute of Pharmacy Nirma University Alumni Association]

The Annual Alumni Meet of IPNUAA was held on December 27, 2014 at the Institute. Several Alumni attended the alumni meet. Prof. Manjunath Ghate (Director) welcomed all the alumni and shared the newer initiatives at the Institute taken



during last year. Various entertainment games were organized for alumni members by the final year students. "IPNUAA Connect" - the first issue of IPNUAA newsletter edited by Dr. Dhaivat C. Parikh (Secretary - IPNUAA) was also launched during the alumni meet.

National Seminar on Quality by Design (QbD) for Pharmaceutical Research (under CCE)



A National seminar on "Quality by Design (QbD) for Pharmaceutical Research" was organized by the Department of Pharmaceutics, IP-NU under the banner of Centre for Continuing Education (CCE), Nirma University, Ahmedabad from December 11 -13, 2014. Dr. Jayanta Mandal, CEO, FTF Pharma Pvt. Ltd., Ahmedabad was the chief guest, Prof. Manjunath Ghate was convener of the programme. Prof. Tejal Mehta was the coordinator and Dr. Mayur Patel and Dr. Jigar Shah were the co-coordinators. The series of plenary lectures covered a wide range of topics pertaining to application of QbD in Dissolution Testing, Product Development and Clinical Trials.

Enigma Elevated 2015



Nirma Institute of Pharmacy Students' Association (NIPSA) organized Enigma Elevated 2015 during January 29-30, 2015. The event was inaugurated on January 29, 2015. Dr. Bhaswat S Chakraborty, Sr. Vice President, Cadila Pharmaceuticals, Ahmedabad graced the occasion as Chief Guest. Various technical events like Drug Connect, Study Search Sell, Poster Presentations, Mock Interview, Pharma Race, PowerPoint Presentations etc and other events like Parody Master, Music Mania, Just A Minute, Aantakshari, Photography, Recycle, Debate etc were enjoyed by the participants. The response received was enormous, around 551 participants were involved and numerous students volunteered to aid the success of this event.

Drama Club Activity

The Drama club student members of the Institute participated and secured Third position in Inter Institute One Act Play competition which was organized as a part of Republic Day Celebration on January 27, 2015.



The faculty members at IP-NU are actively involved in research in various areas, which has led to a wide range of projects undertaken by the Ph.D and M.Pharm students. The list underneath provides the details of ongoing research projects undertaken by the PG and Ph.D students of IP-NU.

Ph.D Programme

No.	Project Title	Student	Guide/Coguide
1	Preparation and Evaluation of Oryzanol Nanovesicle Formulation in Neurodegenerative Disorders	Mr. Abhishek Kumar Jha	Dr. Shital Panchal
2	Development of Nanocarrier Based Drug Delivery Systems for Brain Targeting	Mr. Amarjitsing Rajput	Dr. Shital Butani
3	Formulation Development of Wound Healing Dosage Forms	Mr. Chintan Pansara	Dr. Renuka Mishra
4	Effect of Radiation on Stability of Pharmaceutical Drugs	Ms. Dhara Bhayani	Dr. Priti Mehta
5	Bioanalytical Methods for Selected Drugs	Ms. Misari Patel	Dr. Charmy Kothari
6	Degradation Study of API and its Marketed Formulation by Applying QBD Approach	Ms. Mitalben Patel	Dr. Charmy Kothari
7	Design and Synthesis of Benzimidazole Derivatives as Anticancer Agents	Ms. Sushama Rawat	Dr. Manjunath Ghate
8	Formulation Development of Lung Targeted Drug Delivery System for Treatment of Tuberculosis	Ms. Tejal Rawal	Dr. Shital Butani
9	Design, Synthesis, and Anticancer Activity of Nitrogen/Oxygen Containing Heterocyclic Molecules	Mr. Udit Chaube	Dr. Hardik Bhatt
10	Formulation, Development and Characterization of Nanoformulation for Management for Dermatological Conditions	Ms. Viral Patel	Dr. Tejal Mehta

M.Pharm Programme

No.	Project title	Student	Guide/Coguide
Pharmaceutical Technology and Biopharmaceutics			
1	Development and Optimization of Gamma Oryzanol Niosomal Gel for Skin Cancer Using Qbd Approach	Mr. AnkitKumar Gotecha	Dr. Shital Butani
2	Preparation and Evaluation of Resveratrol Microemulsion Based Gel for Treatment of Acne	Ms. Anuradha Vanjara	Dr. Tejal Mehta
3	Solubility Enhancement of Sertraline HCl: Solid Dispersion Versus S-SNEDDS	Ms. Bhavna Singh	Dr. Jigar Shah
4	Formulation & Optimization of Solid Lipid Nanoparticles Based Gel for Treatment of Eczema	Ms. Bhranti Patel	Dr. Shital Butani
5	Design of Extended Release Capsules of Carvedilol Phosphate	Mr. Darshan Goswami	Dr. Shital Butani
6	Preparation and Characterization of Medicated Chewing Gum Containing Montelukast Sodium & Levocetirizine Dihydrochloride	Ms. Dhara Desai	Dr. Tejal Mehta
7	Formulation and Evaluation of In-Situ Ocular Gel of ketorolac tromethamine	Mr. Jitendra Sharma	Dr. Mayur Patel Dr. Sandeep Jain (Industrial Guide)
8	Identification and Optimization of Parameters Affecting An Active Drug Coating on Core Tablets	Ms. Khushali Modi	Dr. Renuka Mishra
9	Formulation Development of Fixed Dose Combination for Anti-Hyperlipidemic Drugs	Ms. Khushbu Trivedi	Dr. Dhaivat C. Parikh
10	Formulation Development and Evaluation of Mucoadhesive Antifungal Vaginal Film Using Chitosan and Pectin	Ms. Kripali Soni	Dr. Renuka Mishra

11	A Comparative Study for Dissolution Enhancement of BCS Class II Drug by Different Solubility Enhancement Techniques	Ms. Mimansa Jhaveri	Dr. Jigar Shah
12	Optimization of Transmembrane pH Gradient Method for Remote Loading of Weak Amphipathic Drug in to the Liposomal Formulation using Qbd Approach	Md. Kasim Shaikh	Dr. Jigar Shah
13	Formulation Development, Optimization and Evaluation of Paliperidone Extended Release Tablet	Mr. Monil Soni	Dr. Tejal Mehta
14	Formulation and Optimization of Medicated Chewing Gum for Oral Candidiasis	Ms. Pankti Vasani	Dr. Dhaivat C. Parikh
15	Formulation Development and Optimisation of Capsule Comprising of Immediate & Extended Release System	Mr. Parth Dave	Dr. Mayur Patel
16	Formulation and Optimization of Colon Targeted Drug Delivery System for the Treatment of Inflammatory Bowel Disease	Ms. Pooja Patel	Dr. Mayur Patel
17	Formulation and Characterization of Intranasal Insitu Gel of Antidepressant Agent	Mr. Parth Patel	Dr. Mayur Patel
18	Development, Optimization and Evaluation of Immediate Release Tablet of Antihypertensive Drug by Employing Concept of QbD	Mr. Ronak Vashi	Dr. Tejal Mehta
19	Formulation , Development and Optimization of Reconstitutable Oral Suspension of Mycophenolate Mofetil	Mr. Shreyash Shah	Dr. Renuka Mishra
20	Formulation Development of Buccal Film	Mr. Jahid Aziz	Dr. Dhaivat C. Parikh
Pharmacology			
1	Pharmacological Evaluation of Euphoria Longana Extract in Oral Cancer Experimental Model	Ms. Labhuben Lagariya	Dr. Jigna Shah
2	Cardioprotective Evaluation of Herbomineral Formulation	Ms. Niti Rajshree	Dr. Snehal Patel
3	Evaluation of Chemopreventive Role of Secoisolaricresinol Diglucoside Rich Extract of Linum Usitatissimum L. in Colon Cancer Associated with Diabetes Mellitus	Ms. Niyati Shah	Dr. Bhoomika M. Patel
4	Evaluation of Pimpinella Anisum Essential Oil in Various Models of Cataract.	Mr. Smit Patel	Dr. Shraddha Bhadada
5	Effect of Oryzanol on Transient Middle Cerebral Artery Occlusion in Rats	Mr. Pratap Chandra Dakua	Dr. Shital Panchal
Pharmaceutical Analysis			
1	Analytical Method Development and Validation of Cefpodoxime Proxetil and Ofloxacin in Combined Dosage Form	Ms. Arpita Patel	Mr. Nrupesh Patel
2	Phytochemical Evaluation of Eleusine coracana with its Nutritional Value	Mr. Hemal Bhavsar	Dr. Dipal Gandhi
3	Analytical Method Development and Validation of Olmesartan, Hydrochlorothiazide and Amlodipine Besylate in Combined Dosage Form	Ms. Hiral Patel	Mr. Nrupesh Patel
4	API-excipient compatibility study of prazole class of drugs	Ms. Jinal Shah	Prof. Priti Mehta
5	Analytical Method Development and Validation for Spironolactone and furosemide by HPLC and HPTLC	Ms. Khevana Pandya	Prof. Priti Mehta
6	Bioanalytical method development for tramadol from human plasma	Ms. Krina Prajapati	Prof. Priti Mehta
7	Development of Analytical Method for Estimation of Biomarkers in Polyherbal Formulation - HEPASAVE Tonic	Ms. Kriti Sharma	Dr. Dipal Gandhi
8	Phytochemical and Pharmacological activity of Bamboo species growing in Gujarat	Ms. Mansi Patel	Prof. Priti Mehta

9	Standardization of Polyherbal Formulation	Mr. MaulikKumar Ranpariya	Dr. Charmy Kothari
10	Bioanalytical Method Development and Validation for Oryzanol in Rat Plasma and Brain Homogenate	Mr. Sumit Kumar Singh	Dr. Charmy Kothari
11	Bioanalytical Method Development and Validation for Simultaneous Estimation of Drotaverine and Mefenamic Acid in Blood Plasma	Ms. Vaibhaviben Patel	Dr. Charmy Kothari
Medicinal Chemistry			
1	Design and Synthesis of 1-H-Substituted Dibenzimidazole Heterocyclic Derivatives as Anti-Cancer Agents using Liquid Phase Combinatorial Synthesis	Mr. Kishan Kothari	Prof. Manjunath Ghate Coguide: Ms. Bhumika D. Patel
2	Design and Synthesis of 1-H-Substituted Dibenzimidazole Aryl Derivatives as Anti-cancer Agents using Liquid Phase Combinatorial Synthesis	Ms. Pramudita Vaishnav	Prof. Manjunath Ghate
3	Design and Synthesis of 1-H-Substituted Dibenzimidazole Alkyl Derivatives as Anti-cancer Agents using Liquid Phase Combinatorial Synthesis	Mr. Rahul Mahale	Prof. Manjunath Ghate
4	Design and Synthesis of Novel Quinoxaline Derivatives as HIV Integrase Inhibitors	Ms. Saloni Patel	Dr. Hardik G. Bhatt Coguide: Ms. Bhumika D. Patel
5	Design, Synthesis and Pharmacological Evaluation of Derivatives of Nonsteroidal Anti-Inflammatory Agents	Ms. Suja Mulam Kattil	Dr. Jignasa Savjani
Phytopharmaceuticals & Natural Products			
1	Development, Evaluation and Optimization of Curcumin-Gallic Acid Complex for its Improved Solubility and Bioavailability with Special Reference to Antioxidant Activity	Ms. Ankita Gadhia	Dr. Sanjeev Acharya
2	Phytochemical Analysis of Phytonutrients Distribution in Various Parts of Red Rice- Oryza Sativa Habitated in Kerala	Ms. Karthika M S	Dr. Vimal Kumar Coguide: Ms. Nagja Tripathi
3	Development and Optimization of Formulation containing Herbal Drugs for the Treatment of Malnutrition	Ms. Khushbu Bhalala	Dr. Vimal Kumar
4	Phytopharmacological Investigation on Grewia flavescens	Ms. Devikaben Patel	Dr. Niyati Acharya
Drug Discovery			
1	Ligand Based Drug Design of Novel Heterocyclic Derivatives as Tankyrase Inhibitors for the Treatment of Colorectal Cancer	Mr. Abhishek Patel	Dr. Hardik G. Bhatt Coguide: Ms. Bhumika D. Patel
2	Design, Synthesis and Anticancer Activity of Acridine Derivatives As Mtor Inhibitors	Ms. Dhara Chhatbar	Dr. Hardik G. Bhatt
3	Drug Design and Development of Heterocyclic Derivatives As Anti-Tuberculosis Agents	Mr. Kavan Jani	Dr. Jignasa Savjani
4	Design and Synthesis of 1-H-Substituted Dibenzimidazole Cinnamyl Derivatives as Anti-cancer Agents using Liquid Phase Combinatorial Synthesis	Ms. Prajakta Kulkarni	Prof. Manjunath Ghate Coguide: Dr. Vivek Vyas
Clinical Pharmacy			
1	Drug Repurposing for Orphan Diseases	Ms. Ashviniben Soni	Dr. Jigna Shah Mr. Ali Sajjad Bohra (QED Clinical Services Ltd.)
2	To Monitor the Adverse Pregnancy Outcomes in Correlation to Pre-Pregnancy BMI and Gestational Weight Gain during Pregnancy	Ms. Bhavya Baxi	Dr. Jigna Shah Coguide: Dr. Bhoomika M. Patel

3	Repurposing of A Drug in an Orphan Disease	Ms. Drasty Vora	Dr. Jigna Shah Mr. Ali Sajjad Bohra (QED Clinical Services Ltd.)
4	To Investigate the Prevalence and Early Diagnosis of PCOD in School Going Girls and its Association with Various Risk Factors and also to determine the Health Related Quality of Life	Ms. Namrata Desai	Dr. Snehal Patel
5	Determination of Breast Cancer Subtypes and its Co-Relation with the Prognosis in Breast Cancer Patients in Gujarat	Mr. Prakhar Sethi	Dr. Shraddha Bhadada Dr Swati Parikh (HCG Cancer Centre, Ahmedabad)
6	Investigation of Prevalence ADHD (Attention Deficit Hyperactivity Disorder) in School Going Children of 5-14 Years of Age in Ahmedabad City	Mr. Sirin Patel	Dr. Shital Panchal
Regulatory Affairs & Quality Assurance			
1	Registration Requirement of Medicinal Products for Human Use in Asia	Ms. Bhumiben Patel	Prof. Manjunath Ghate
2	Generic Drug Development: US, Europe, and Mexico-A Regulatory Insight	Ms. Dhara Mehta	Dr. Vimal Kumar
3	Registration Requirements in Asian and Non-Regulated Countries and its Comparison with Developed Countries Guidelines	Mr. Dushyant Rajpurohit	Dr. Sanjeev Acharya
4	Registration Requirements & Process of Medicines in Russia and Comparison with Other Regulated Market	Ms. Gayatriben Patel	Dr. Niyati Acharya
5	Regulatory Requirement to get Biowaiver for BCS Class II Drugs	Ms. Jimi Patel	Dr Priti Mehta Ms Vaishali Kothari (ZRC)
6	Annual Product Quality Report (APQR) as a Quality Enhancement Tool and its Regulatory Perspective	Mr. Meet Kanojia	Dr. Vimal Kumar
7	Registration Process of Pharmaceutical Product of CIS Countries & Dossier Preparation of Ukraine	Ms. Payalben Sharma	Dr. Hardik Bhatt
8	Pharmaceutical Regulations & Registration Procedure for Generic Drug Products in CIS Countries	Mr. Saurabh Vyas	Dr Priti Mehta T Raghunadha Reddy, (Aurobindo Pharma, Hyderabad)
9	Registration Requirements of Medicines in USA and Preparation of Electronic Common Technical Document	Ms. Twisha Lunia	Dr. Niyati Acharya
10	Regulatory eCTD Filing in EU and its Comparison with Some Developed Countries	Ms. Vanessa Richardson	Dr. Sanjeev Acharya

Consultancy/Testing work

Name of department	Title of consultancy/testing	Name and Place of collaborative Organization
Dr. Sanjeev Acharya, Department of Pharmacognosy	Development of Curcumin and Amla Based Products	K. Patel Phytoextract Pvt. Ltd, Mumbai
	Vendor Selection and Standardization of Cissus quadrangularis	Troikaa Pharmaceuticals Ltd. Ahmedabad
Dr. Snehal S Patel, Department of Pharmacology	Pharmacological Evaluation of Formulations for Cardioprotective Activity	VIRIGO UAP Pharmaceuticals, Ahmedabad
	Pharmacological Evaluation of Formulations for Treatment of Leucorrhoea	VIRIGO UAP Pharmaceuticals, Ahmedabad

SHINING STARS OF THE INSTITUTE:

PhD. Awardees

The following student was awarded Doctor of Philosophy in Pharmacy during the 18th Convocation of Nirma University:

- Patel Pranavkumar** on the topic "Development of lipid based drug delivery systems (LBDDS) for Immunomodulators and their evaluation using experimental animal models" under guidance of Dr. Shital Panchal.

Curricular Front

The students of the Institute were awarded for the Best Scholastic Performance and the Best Student during their study at IP-NU during the 18th Convocation Ceremony of Nirma University. The following were the shining stars:

M.Pharm	Best Scholastic performance
Pharmaceutical Technology and Bio-Pharmaceutics	Ms. Ruchi Joshi
Pharmacology	Ms. Krushangi Shah
Pharmaceutical analysis	Mr. Maharshi Raval
Medicinal Chemistry	Mr. Harshal Joshi
Clinical Pharmacy	Mr. Pinkalkumar Amin
Drug Discovery	Mr. Udit Choube
B.Pharm	Ms. Sunita Tiwari

Institute of Pharmacy, Nirma University felicitated the students with gold medals for their scholastic performance during the respective years:

B.Pharm year	Name of the Student	Semester
First year	Ms. Kanchan S. Maurya	I & II
Second year	Ms. Aashu S. Gupta	III & IV
Third year	Ms. Gargi N. Vaidya	V & VI

This year on Foundation Day Celebration, students of the final year were felicitated as best students.

Ms. Nisha Khatri, B.Pharm Sem VII as the Best student of the year

Mr. Yash Prajapati, B.Pharm Sem VII for maximum participation in extracurricular and co-curricular activities

FELLOWSHIPS RECEIVED:

- Ms. Viral Patel**, Full time PhD student under guidance of Dr. Tejal Mehta received DST Inspire fellowship with effect from December 2, 2014.
- Mr. Udit Chaube**, Full time PhD student under guidance of Dr. Hardik Bhatt received DST Inspire fellowship with effect from December 2, 2014.
- Mr. Abhishek Jha**, Full time PhD student under guidance of Dr. Shital Panchal received Fellowship from Nirma University.
- Ms. Mital Patel**, Full time PhD student under guidance of Dr. Charmy Kothari received Fellowship from Nirma University.

CO-CURRICULAR & EXTRA-CURRICULAR FRONT: Within and Outside the Institute

- Ms. Sushama Rawat**, Full time PhD scholar received Bronze Medal and Cash prize worth Rs.2000/- in National Level Online Essay Writing Competition conducted by Emergent Laboratories, Hyderabad on October 30, 2014.

- Mr. Abhishek Jha**, Full time PhD student under guidance of Dr. Shital Panchal received First Prize in National Conference of Institute of Pharmacy held at IP-NU during January 22-23, 2015.
- Ms. Neha Shah**, Full time PhD student under guidance of Dr. Tejal Mehta received Second Prize in National Conference of Institute of Pharmacy held at IP-NU during January 22-23, 2015.
- Ms. Vaishali Patel**, M.Pharm (Clinical Pharmacy) under the guidance of Dr. Shraddha Bhadada received First Prize for poster presentation (Clinical Pharmacy) in National Conference of Institute of Pharmacy held at IP-NU during January 22-23, 2015.
- Ms. Shraddha Patel**, M.Pharm Sem-III (Pharmacology) has received three First Prize and two Second Prize in swimming competition organized at Khel-Mahakumbh-2014, organized by Sports Authority of Gujarat, Gandhinagar.
- Ms. Sushama Rawat**, Full time PhD scholar under the guidance of Prof. Manjunath Ghate received First Prize for poster presentation in 7th RBF Zydus International Symposium organized by Zydus Research Centre during February 2-4, 2015.

Ph. D. Awarded

Mr. Vivek Vyas, Assistant Professor completed his Ph.D. entitled "Design and Synthesis of Human Dihydroorotate Dehydrogenase (hDHODH) Inhibitors as Anticancer Agents" under the guidance of Dr. Manjunath Ghate from Nirma University in September 2014.

Publications

Book: Bhatt Hardik, Goyal Bhoomika, Goyal Ramesh. Practical in Organic and Medicinal Chemistry. B.S. Shah Prakashan, Ahmedabad. 2014 3rd Edition. ISBN 81-8416-041-0.

List of Publications in Reputed Journals with Impact Factor greater than 2:

Ghate Manjunath, Barot Kuldipsinh, Jain Shailesh, Gupta Nirzari, Kremer Laurent, Singh Shubhra, Takale Vijay, Joshi Kruti. "Design, Synthesis and Docking Studies of Some Novel (*R*)-2-(42 -chlorophenyl)-3-(42 -nitrophenyl)-1,2,3,5-tetrahydrobenzo[4,5] imidazo [1,2-*c*]pyrimidin-4-ol Derivatives as Antitubercular Agents", European Journal of Medicinal Chemistry, 2014; 83:245-255. (3.432)

Vyas Vivek, Variya Bhavesh, **Ghate Manjunath**. "Design, Synthesis and Pharmacological Evaluation of Novel Substituted Quinoline-2-carboxamide Derivatives as Human Dihydroorotate Dehydrogenase (hDHODH) Inhibitors and Anticancer Agents", European Journal of Medicinal Chemistry, 2014; 82:385-93. (3.432)

Mehta Tejal, Parikh Dhaivat, Sharma Om Prakash, Shah Mahek. "Formulation Optimization of Gastroretentive Drug Delivery System for Allopurinol using Experimental Design", Expert Opin Drug Deliv, 2014; DOI - 10.1517/17425247.2014.944861. (4.116)

Pandya Radhika, **Mehta Tejal**, Gohel Mukesh. "Amalgamation of Solid Dispersion and Adsorption Technique", J. of Thermal Analysis & Calorimetry, 2014; DOI:10.1007/s10973-014-3994-x (2.02)

Thakare Vishnu, **Patel Bhoomika**. "Potential Targets for the Development of Novel Antidepressants: Future Perspectives", CNS & Neurological Disorders - Drug Targets, 2014; DOI: 10.2174/1871527313666140806121648 (3.3)

Vyas Vivek, Goel Ashutosh, **Ghate Manjunath**, Patel Palak. "Ligand and Structure-based Approaches for the Identification of SIRT1 Activators", Chemico-Biological Interactions, 2015; 228:9-17. (2.982)

Mehta Priti, Dadhaniya Tejas, Sharma Omprakash, Gohel Mukesh. "Current Approaches for *in-vitro* Drug Release Study of Long Acting Parenteral Formulations", Current Drug Delivery, 2015; pubmed/25666683. (2.248)

Faculty Achievements

Prof Jigna Shah received gold medal as S. Vajpayee Award for the best paper presented at BPCON 2014 24th Annual Conference of Indian Society of Hypertension held at Hotel Shiva, Ahmedabad during September 26-28, 2014.

Ms. Nagja Tripathi received second prize in poster presentation at the National Conference on 'Herbal Drug Research: Opportunities and Challenges' held at B. V. Patel Pharmaceutical Education & Research Development (PERD) Centre, Ahmedabad during November 5 - 7, 2014.

Dr. Hardik G. Bhatt received Second Prize in poster presentation for poster entitled 'Design, Synthesis and Anti-Cancer Activity of Novel Pyrazole Derivatives as c-MET Receptor Tyrosine Kinase Inhibitors' at International Symposium on Recent Trends in Cancer Research: From OM to OMICS organized by Institute of Cancer Biology, The Gujarat Cancer and Research Institute, Ahmedabad on November 24, 2014.

Dr. Niyati Acharya received First Prize in poster competition for poster entitled "Anticancer potential of *Symplocos racemosa* Bark on Human Liver Cancer Cell Line (HEP3-B)" at International Symposium on Recent Trends in Cancer Research: From OM to OMICS organized by Institute of Cancer Biology, The Gujarat Cancer and Research Institute, Ahmedabad on November 24, 2014.

Dr. Shital Butani co-authored a paper "Self-emulsifying Drug Delivery System Containing Aceclofenac: Design & Development using Quality by Design (QbD) Concept" published in Indian Drugs (Volume 51, Issue 6, 2014) which was awarded as Best Paper (Pharmaceutics) by Indian Drugs Manufacturers Association. The paper was authored by her external Ph.D student under Nirma University Ms. Vrunda Suthar.

Dr. Charmy Kothari received second prize in poster presentation for poster entitled "Simultaneous Estimation of Gabapentin and Nortriptyline HCl in their Combined Dosage form by UV-Spectrophotometric and Spectrofluorometric Methods using OPA-Beta-Mercaptoethanol Derivatization" at Boston International Conference on Applied Pharmaceutical Analysis (APA)-INDAI 2015 organized by The Boston Society at Mumbai, India on February 23-25, 2015.

Foreign Visits

Dr. Dhaivat Parikh presented Research Poster entitled "Formulation, Design & Optimization of Floating Microspheres by applying Design of Experiments" at International Conference UK-PharmSci-2014 organized by APSGB (Academy of Pharmaceutical Sciences Great Britain) at University of Hertfordshire, Hatfield, UK during September 8-10, 2014. The International Travel for Conference was partially funded by NU.

Faculty Recognitions

Prof. Vimal Kumar was nominated as Associate Editor of Journal of Phytopharmacology in September, 2014.

He chaired a scientific session at National Conference on Herbal Drug Research: Opportunities and Challenges held at B. V. Patel Pharmaceutical Education & Research Development (PERD) Centre, Ahmedabad on November 6, 2014.

He was nominated as a member of Editorial Board of Journal "Journal of Pharmaceutical and Medicinal Chemistry (JPMC) in December, 2014.

Dr. Niyati Acharya was appointed as editorial board member of Austin Journal of Tropical Medicine & Hygiene, Journal International Journal of Pharmacy and Pharmaceutical Sciences and International Journal of Medicine and Pharmaceutical Sciences in November, 2014.

Expert Lectures delivered by Faculty

Prof. Priti Mehta delivered an expert lecture on "Recent Advances in Sample Preparation Techniques in Bio Analytical Method Development" at a seminar series on Various Aspects of Pharmaceutical Analysis organized by B V Patel PERD Centre, Ahmedabad on September 12, 2014.

Prof. Vimal Kumar was invited as a resource person to deliver invited talk on "Supercritical Fluids Technology (SFT) in Drug Delivery and Drug Discovery" in National Seminar on "Recent Advancement in Drug Delivery Techniques and Drug Designing sponsored by MPCST organized by Peoples University, Bhopal, M.P. on September 27, 2014.

He also delivered an invited talk on "Advances in Herbal Medicines and Nutraceuticals for Human Health" in International Conference on "Progress and Advances in Human Health Management and Healthcare Reforms" organized by Adina Institute of Pharmaceutical Sciences, Sagar (MP) on October 11, 2014.

Dr. Mayur Patel was invited as a resource person to deliver invited talk on "Formulation and Evaluation of Colon Targeted Drug Delivery Systems" in Two Days National Seminar entitled "Innovation in Drug Delivery-getting Drugs to their Targets in the Body" and Innovation in drug delivery: from materials to devices organized by Nootan Pharmacy College, Visnagar on December 30, 2014.

Prof. Tejal Mehta was invited as a resource person to deliver invited talk on " Polymeric micelles as drug delivery systems" in SERB sponsored national seminar on "Innovations in drug delivery: getting drugs to their targets in body" organized by Nootan Pharmacy College, Visnagar on December 30, 2014.

She also delivered an invited talk on "Nanocrystals: An Alternative Approach for Solubility & Dissolution Enhancement" in DST & GUJCOST sponsored National Seminar on "Nanoparticulate Systems: A Path towards Excellence in Targeted Drug Delivery Systems" organized by Arihant School of Pharmacy & BRI & Emcure Pharmaceutical Ltd, Ahmedabad on December 30, 2014.

Staff Achievements

Dr Lalitha Poluru, Librarian, delivered a lecture on "Interpersonal Communication Skills for Librarians" on November 11, 2014 at "Advanced Training Programme on ICT Applications for Librarians" (Which is equivalent to Refresher Course of UGC) that was conducted by INFLIBNET Centre, (IUC of UGC) Gandhinagar from November 10 - 30, 2014.

She was also invited as resource person for UGC sponsored Refresher Course in Library Science during December 8-26, 2014 organized by Academic Staff College, Gujarat University. She delivered a lecture on "Altmetrics" on December 15, 2014.

Mr. Sandip S. Patel, Assistant Librarian, successfully cleared Gujarat State Eligibility Test (GSET) conducted by M.S.University, Baroda in January 2015.