

PUBLICATIONS

List of Publications in reputed journals listed in Scopus with impact factor greater than 1:

1. Anroop B. Nair, Jigar Shah, Bandar E. Al-Dhubiab, Snehal S. Patel, Morsy Mohamed A., Vimal Patel, Vishal Chavda, Shery Jacob, Nagaraja Sreeharsha, Pottathil Shinu, Mahesh Attimarad, Katharigatta N. Venugopala. Development of Asialoglycoprotein Receptor-Targeted Nanoparticles for Selective Delivery of Gemcitabine to Hepatocellular Carcinoma. *Molecules*. December 2019;24: 4566. Impact factor-3.06.
2. Anroop B. Nair, Jigar Shah, Bader M. Aljaeid, Bandar E. Al-Dhubiab and Shery Jacob. Gellan Gum-Based Hydrogel for the Transdermal Delivery of Nebivolol: Optimization and Evaluation. *Polymers*. October 2019;11;1699. Impact factor-3.164.
3. Anroop B. Nair, Bandar E. Al-Dhubiab, Jigar Shah, Shery Jacob, Vismay Saraiya, Mahesh Attimarad, Nagaraja SreeHarsha, Sabah H. Akrawi, Tamer M. Shehata. Mucoadhesive buccal film of almotriptan improved therapeutic delivery in rabbit model. *Saudi Pharmaceutical Journal*. December 2019;1. Impact factor-3.643.
4. Shery Jacob, Anroop B. Nair, Jigar Shah. Emerging role of nanosuspensions in drug delivery systems. *Biomaterials Research*. January 2020;24;3. Impact factor-1.0.
5. Prateek Mathur, Shruti Rawal, Bhoomika Patel, Mayur M. Patel. Oral Delivery of Anticancer Agents using Nanoparticulate Drug Delivery System. *Current Drug Metabolism*. October 2019;20;1132-1140. Impact factor-2.277.
6. Misari Patel, Charmy Kothari. A simple, rapid and fully-validated HPLC method for simultaneous quantitative bio-analysis of Rosuvastatin and Candesartan in rat plasma: Application to pharmacokinetic interaction study. *Bio medicinal Chromatography*. October 2019;33;1-10. Impact factor-1.748
7. Misari Patel, Charmy Kothari. Quantitative bio-analysis of pitavastatin and candesartan in rat plasma by HPLC-UV: Assessment of pharmacokinetic drug-drug interaction. *Journal of Chromatography B*. February 2020;1138;1-9. Impact factor-2.813
8. Dhvani T. Dave, Bhoomika M. Patel. Mitochondrial metabolism in cancer cachexia: Novel drug targets. *Current Drug Metabolism*. December 2019;20;1141-1153. Impact factor-2.277.
9. Bhoomika M Patel, Goyal RK. Liver and insulin resistance: New wine in old bottle. *European Journal of Pharmacology*. November 2019;5;862:172657. Impact factor-3.170.
10. Pritesh R Desai, Priti J Mehta, Avani B Chokshi. Liquid Chromatographic Method Development for Quantification of Inorganic Nitrite and Nitrate Impurities from Nitroglycerin Drug Substance by Using Ion-Pair Reagents with Liquid-Liquid Extraction Technique. *Journal of Chromatographic Science*. December 2019;57;1-9. Impact factor-1.216.



Institute of Pharmacy, Nirma University.
<https://pharmacy.nirmauni.ac.in/>



Inspiring Thoughts...

Radiance

Institute of Pharmacy, Nirma University



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State varsities get GSIRF pat

Gujarat State Institutional Rating Framework 2020 gives 5-star rating to GU, CEPT, Nirma universities, 3 other colleges in different categories; last year, no institute had got top rating

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The education department on Friday announced results of the Gujarat State Institutional Rating Framework (GSIRF) 2020. The second edition of GSIRF suggests marked improvement in the ratings, with a few institutes getting 5-star ratings this time. Last year, no educational institute had managed to get the perfect score.

Gujarat University (GU) has bagged 5 Star with 4.14 CGPA in 'University' rating category. CEPT University has bagged 5 star in the 'Architecture College' category. Institute of Pharmacy, Nirma University, got 5th top rating in 'Pharmacy' category. Three colleges from state have bagged 5 Star Rating in College category—city-based St Xavier's college retaining the rating, SRI PT Sarjanik College of Science, Surat and Mafatali Gagabhai Science Institute joining the league.

Last year, no educational institute had got a 5-star rating, raising concerns over quality of higher education in Gujarat. Anju Sharma, Principal Secretary for Higher and Technical Education, said, "The results are encouraging and the rating speaks volumes of improved standard of education. Not only has GU managed to score 5-star, Nirma University is very close and CEPT has bagged 5-star in architecture. The rating is done by third party after scrutiny of various aspects



How they fared

University	CGPA	Star
Gujarat University	4.14	5
Nirma University	3.9	4
CEPT University	3.83	4
Junagadh Agri Uni	3.81	4
POPU	3.8	4

College	CGPA	Star
St. Xavier's	4.35	5
SRI PT Sarjanik science college, Surat	4.18	5
Mafatali Gagabhai Science	4.04	5
Shree Manibhai Virani & Smt Navabai Virani Science college	4	4
Manikaka Topawala Institute of Nursing, CHARUSAT	3.82	4

and the institute's performance in various areas. This result shows that over all, the educational institutes have improved and have started giving emphasis to research, innovation and

patents," she said. The rating is done in three categories—University, College and All Category. The criteria for evaluation are Teaching, Learning and Resources,

All categories TOP COLLEGES

ENGINEERING
 Institute Of Science & Technology For Advanced Studies & Research
 CGPA: 3.91
 STAR: ★★★★★

PHARMACY
 Institute of Pharmacy, Nirma University
 CGPA: 4.51
 STAR: ★★★★★

ARCHITECTURE
 CEPT University
 CGPA: 4.33
 STAR: ★★★★★

MANAGEMENT
 LJ Institute of Management Studies
 CGPA: 2.91
 STAR: ★★★★★

LAW
 Gujarat National Law University
 CGPA: 3.91
 STAR: ★★★★★

Source: KGG

Research and Professional Practices, Graduation Outcomes, Outreach and Inclusivity and Perception.

This year, 28 universities, 66 colleges, 22 engineering institutes, 6 pharmacy institutes, 3 management institutes, 2 agricultural and one law institute participated in the GSIRF. It aims to objectively audit, assess and rate higher education institutes on locally relevant and globally benchmarked metrics. GU V-C Himanshu Pandya said, "The varsity has been able to get 5-star rating because of hard work and positive attitude of all stakeholders working for it. "It is a proud moment for all of us, students, alumni and teachers. This will inspire us to work harder and to compete for international rankings and rating system."

Anup Singh, director general of Nirma University, said, "We are content as our score and ratings have improved from last year. We have improved our CGPA. We focused more on research and also boosted our infrastructure. In coming years, we will focus more on research."

Govt colleges take a beating

Government colleges and educational institutes have fared poorly in comparison to private ones, GSIRF shows. One of the oldest engineering colleges, J.D. Engineering, is ranked at 4th position with 3.45 CGPA and 4 Star in the engineering college category. Similarly, the oldest pharmacy college, LM College, is ranked at second position with 3.11 CGPA and 4 Star. GNSLU, the only law institute, could get just a 4-star rating.

Institute of Pharmacy, Nirma University bagged the FIRST RANK amongst the Pharmacy Colleges with FIVE STAR rating and overall CGPA of 4.51 in Gujarat State Institutional Rating Framework (GSIRF) 2020 ratings announced on February 21, 2020. Nirma University, Ahmedabad also received SECOND RANK in the "University" category of GSIRF 2020.

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DIRECTOR'S DESK

We are happy to bring out the new issue of Radiance. We are glad that Institute of Pharmacy, Nirma University received NBA (Nation Board of Accreditation) Accreditation for Undergraduate Programme (B. Pharm.) for a period of three years (2019-2022) upto June 30 2022. Institute of Pharmacy, Nirma University bagged the FIRST RANK amongst the Pharmacy Colleges in Gujarat state with FIVE STAR rating and overall CGPA of 4.51 in Gujarat State Institutional Rating Framework (GSIRF) 2020 announced on February 21, 2020. In the curriculum aspects we are introducing new University electives, Institute electives for M. Pharm and supplementary courses like soft skill and personality development courses for B. Pharm and M. Pharm. The different programmes conducted at Institute level like short term training programme for faculty members and expert lectures are included in this issue. The different training, co-curricular and extracurricular activities conducted for the students are mentioned in this issue. Congratulations to faculty and students for their contribution in research and extracurricular activities. I thank Nirma University and experts for continuous support for the growth of our institute.

(Dr. Manjunath Ghate)

Director, Institute of Pharmacy

From the Editor's Desk

It is indeed a pleasure to bring out the second issue of the Thirteenth volume of 'Radiance'. Institute of Pharmacy always attempt to give the best research environment to students. The lecture series were organised for the same. These lecture series provided enough opportunity to the research scholars for one to one interaction with experts. This issue also give glimpses of various events organised as well as achievements of faculty members, staff members and students. I am thankful to all the members of the editorial board for contributing positively to give the present shape to this issue.

Your suggestions and feedback are always welcome at radiance.ip@nirmauni.ac.in

Dr. Bhagawati Saxena, Associate editor

Dr. Shital Butani, Editor



Dignitaries Visited



Prof. Anamik Shah, Vice-Chancellor, Gujarat Vidhyapeeth; President, ISCB.



Dr. PMS Chauhan, Former Chief Scientist, CDRI, Lucknow; General Secretary, ISCB.



Dr. Nigel G. J. Richards, Department of Chemistry, Cardiff University, Cardiff, UK.



Dr. Christophe LEN, Chimie ParisTech, PSL Research University, CNRS, Institute of Chemistry for Life and Health Sciences, Paris, France.



Prof. Anil Kumar Singh, Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai.



Dr. Keshav Deo, Executive Director, Almelo Private Limited, Hyderabad, India.



Dr. Shipra Chauhan, Scientist, Zeon Cooperation, Kawasaki, Japan.



Dr. Ravindra V. Singh, Head of India R&D, Custom synthesis and Manufacturing, Sigma-Aldrich Chemicals Pvt. Ltd (Merck Group Company), Bangalore.



Prof. Bal Ram Singh, Director, Botulinum Research Center and Institute of Advanced Sciences, North Dartmouth, MA, USA.



Dr. Mukesh Nandaveis, Associate Professor in Department of Pharmacology at Delhi Pharmaceutical Sciences and Research University, New Delhi.



Dr. Ritesh Singh, Assistant Professor in the Department of Chemistry, Central University of Rajasthan, Ajmer, Rajasthan.



Prof. Dalip Kumar, Associate Dean, IPCD at BITS Pilani, Rajasthan.

DIGNITARIES

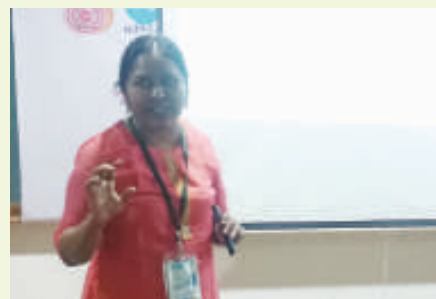
Lecture series

Prof. Sunil S Jambhekar from LECOM-Bradenton, School of Pharmacy, FL, USA visited Institute of Pharmacy, Nirma University during February 11-15, 2020. He delivered series of lectures on Basic Concept of Pharmacokinetics to B. Pharm., M. Pharm. and Ph.D. students. He covered the fundamental and applied aspects of Biopharmaceutics and pharmacokinetics. The case studies and problem solving were also given to the research scholars. He guided the students for in vitro-in vivo correlation and Pharmacokinetic Software. He also discussed the research project related problems of M. Pharm. and Ph.D. students. This was a good interactive learning experience for all.





Dr. Satpal Singh Badsara, Assistant Professor, MFOS Laboratory, Department of Chemistry (Centre of Advanced Study), University of Rajasthan, JLN Marg, Jaipur, Rajasthan.



Prof. Sivapriya Kirubakaran, Assistant Professor, Department of Chemistry & Bioengineering, Indian Institute of Technology, Gandhinagar.



Dr. Marco L. Lolli, Assistant Professor in Medicinal Chemistry, Dept. Science and Drug Technology - University of Turin (UniTO), Italy.



Dr. Ram Sagar Misra, Associate Professor, Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi.



Dr. Laurent El Kaim, Laboratoire de Synthèse Organique, Ecole Polytechnique, Palaiseau, France.



Prof. Vassilios Papadopoulos Dean, School of Pharmacy, John Stauffer Dean's Chair in Pharmaceutical Sciences. Professor of Pharmacology & Pharmaceutical Sciences, University of Southern California, Los Angeles, California, USA.



Dr. Sanjib Bhattacharyya, Department of Pharmaceutical Science and Chinese Traditional Medicine, Southwest University, Chongqing Shi, China.



Prof. Saranjit Singh, Dean & Head, Pharmaceutical Analysis, National Institute of Pharmaceutical Education & Research, NIPER, S.A.S. Nagar (Mohali).



Prof. Asit K. Chakraborti, Head, Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research (NIPER), S. A. S. Nagar, Punjab.



Dr. Anupama Ramkumar, CEO & Principal Consultant, Arkus Research Pvt. Ltd. Ahmedabad, India.



Dr. Rakesh Ojha, Principal Medical Writer, Syneos Health, Global Medical Writing, Pune, Maharashtra, India.

Expert lectures were organized regularly for UG, PG and Ph.D. students related to their curriculum, current affairs in the pharmaceutical field as well as for the development of soft skills of the students. Alumni of Institute, working in various fields are also invited to interact with current students on various topics. The following list provides information of the guest lectures organized during the last few months:

Name of the Expert, Designation and Organization	Topic	Date
Dr. Roop Khar, Former Dean and Head, Jamia Hamdard, New Delhi	Discussion on current scenario of Product Development	October 9, 2019
Dr. Parth Vaishnav, Psychiatrist, Samvedana Happiness Hospital, Ahmedabad	Understanding Drug Addiction	October 11, 2019
Mr. Karthik Bhat, Product Manager with Inkarp instruments Mumbai	Flash Chromatography	October 18, 2019
Mr. Vishalgiri Goswami, Chemistry Program Manager, Kashiv Biosciences, NCE Discovery, Ahmedabad	Reactions and Acidity of Aromatic Acid Derivatives	October 19, 2019
Mr. Mohammad Mutvalli, AIESEC, Ahmedabad	Introductory seminar about student opportunity for an international internship	October 23, 2019
Dr. Anupama Ramkumar, Director, Arkus Research Pvt. Ltd., Ahmedabad	Clinical Data Management	November 11, 2019
Dr. (Mrs) M. D. Menon, Adjunct Professor-Pharmaceutics, Bombay College of Pharmacy, Kalina, Mumbai	Mucosal Vaccine Delivery Approaches via The Respiratory Route	November 14, 2019
Dr. Shrinivas Savale, CEO, Atal Incubation Centre, L. M. College of Pharmacy, Ahmedabad	Outreach activities of Atal Incubation Centre in area of Pharmaceutical and Healthcare sector	November 21, 2019
Dr. Gaurang Shah, Professor, L. M. College of Pharmacy, Navrangpura, Ahmedabad	Clinical Pharmacokinetics	November 25, 2019
Mr. Nitin Jade, Service Manager, Advance Scientific Equipment Pvt. Ltd, Mumbai	Nanoparticle Characterization using Horiba SZ-100	December 11, 2019
Dr. Anuja Desai, Director, Academics for KD Hospital and KD Institute of Nursing Sciences, Ahmedabad	Lasik Surgery	December 26, 2019
Prof. Manoj Kumar Mishra, Ex. Vice Chancellor, Birla Institute of Technology, Mesra, Ranchi	A Ringside view of the challenges before Higher Technical Institutions of India	December 26, 2019
Dr. Gowthamarajan Kuppusamy, Professor & Head, JSS Academy of Higher Education & Research, Ooty	Future Pharmaceuticals - Safe Design of Drug Delivery Systems	January 6, 2020
Ms. Neha Lal, Senior General Manager, Hospital Operations & HR GCS Medical College, Hospital and Research centre, Ahmedabad	Carrier options in Healthcare management sector	February 20, 2020
Talk delivered by ALUMNI		
Ms. Namrata Desai, Clinical Research Associate, Clantha Research Limited, Ahmedabad	Career Prospects in Clinical Research	October 11, 2019
Mr. Tishir Gandhi, Research Associate, ZRC, Cadila Healthcare Ltd., Ahmedabad	Process of Sterilization in the Pharmaceutical Industry	October 11, 2019
Dr. Gyanendra Singh, Scientist-C from Department of Toxicology, ICMR-NIOH, Ahmedabad	Rat whole embryo Culture: A new screening method for reproductive toxicity of compounds	October 17, 2019
Dr. Devang Patel, Global Clinical Development, ELC Research Group Pvt. Ltd. Ahmedabad	Pharmacovigilance Activities in Europe	October 19, 2019
Dr. Nisith Raval, Manager, Formulation and Development, Meteoric Biopharmaceuticals Pvt. LTD, Ahmedabad	Basic concepts of dietary supplements and functional food	October 25, 2019
Ms. Disha Pandya, Senior Research Executive, Research & Development, Zydus, Ahmedabad	Industrial Utilization and Applications of Volatile oils, Resins and Flavonoids	November 22, 2019
Dr. Sachin Thakkar, Baylor College of Medicine (Houston, Texas, USA)	Career Opportunities in Research at USA	January 9, 2020
Mr. Keyur Butani, Dr. Reddy's Laboratory, Hyderabad	Complex Injectables drug delivery and its challenges	February 3, 2020



ISCB-NIPiCON 2020

Institute of Pharmacy, Nirma University, Ahmedabad organized the 5th International Conference (NIPiCON) jointly with Indian Society of Chemists and Biologists (ISCB) as ISCBC-NIPiCON 2020 on "Integrating Chemical, Biological and Pharmaceutical Sciences for Innovations in Health Care" during January 22-24, 2020.

Prof. Nigel G. J. Richards, Professor, Dept. of Chemistry, Cardiff University, Cardiff, U.K. was the Chief Guest and Professor Christophe LEN, PSL Research University, Paris, France was the Guest of Honor during the Inaugural Function.

Dr. Anamik Shah, President, Indian Society of Chemists and Biologists & Vice Chancellor, Gujarat Vidhyapith; Dr. PMS Chauhan, Chief Scientist and Professor, CDRI, Lucknow & General Secretary, ISCB and Shri K.K. Patel, Vice President, Nirma University also graced the function. Various eminent and distinguished scientists and academicians, from India and abroad, delivered lectures at the conference which was followed by the panel discussion.

ISCB also gave Award of Excellence to various academicians and scientists for their contribution towards research and teaching.

The conference ended with a Valedictory Programme which was graced by Dr. Vassilios Papadopoulos, Dean, School of Pharmacy, University of Southern California, USA as the Chief Guest. Prizes were given to the winners of the poster presentation competition and feedback of the delegates was taken. Overall, it was a fruitful and rich knowledge gaining session for all.

NSS Special Camp organized at Ratanpur (Kantdi) Village



A seven days university-level NSS special camp was organized by NSS Unit, Nirma University at Ratanpur (Kantdi), Tal: Godhara, Dist. Panchmahal from January 4-10, 2020. Institute of Pharmacy was the host of this special camp. During the camp, the team conducted various activities. The camp ended with lots teaching and learning experience.

Anti-Ragging Poster Competition

Nirma University campus is ragging free and lots of efforts are continuously made to prevent ragging. The anti-ragging poster competition was organized at the Institute of Pharmacy, Nirma University on October 11, 2019. More than 100 students participated enthusiastically in the event. During the event posters were evaluated by judges and the winners were felicitated.



One day Seminar on "Nano Drug Delivery, SNDD'2019"

One day Seminar on "Nano Drug Delivery, SNDD'2019" was organized under the banner of Centre for Continuing Education (CCE) by Department of Pharmaceutics, Institute of Pharmacy, Nirma University on October 22, 2019. More than 100 participants from various Pharmacy Institutes attended the event. Dr. Ajay Khopade (Vice President, Drug Delivery & Manufacturing and Head, Formulations (Non-Oral), Sun Pharma Advanced Research Company Ltd, Vadodara was the Chief Guest and Dr. Yashwant Pathak (Professor and Associate Dean for Faculty Affairs, University of South Florida, Tampa, Florida, USA) was the Guest of Honor for the Inaugural function. Dr. Ajay Khopade delivered a key-note address on the subject "Translation of a nano-ophthalmic product from idea to market". Dr. Yashwant Pathak delivered a lecture on "Nano is too big, Nano Medicine: The future of Pharmacology and Medicine". Dr. Nina Sharma (Managing Director, Shamisha Resources Management LLP) delivered a lecture on "Tech Transfer and Commercialization of Nanotechnology Formulations". Dr. Sameer Dalvi (Associate Professor, IIT, Gandhinagar) delivered a talk on the topic "Engineering Microbubbles for



ultrasound contrast imaging and drug delivery applications." During the post-lunch session, demonstration of various equipments like High shear homogenizer, particle size analyzer and high pressure homogenization was conducted. Posters on the "Nano drug delivery" based theme were presented by the participants and prizes were distributed to the winners. Dr. Jayesh Ruparelia (Professor and Head, Department of Chemical Engineering, Institute of Technology, Nirma University) gave the concluding remarks.

Industrial Visit



Students of M Pharm Sem I (Pharmacology) along with students of B Pharm Sem VII visited Zydus Research Centre (ZRC), Ahmedabad on November 16, 2019. This industrial visit was a part of Institute elective 'Course on Wheels - Application of Pharmaceutical Sciences'. It was very interactive learning for students.

Workshop on "Computer Aided Drug Design Software"

Department of Pharmaceutical Chemistry, Institute of Pharmacy under the banner of Centre for Continuing Education (CCE), Nirma University, Ahmedabad organized workshop on "Computer Aided Drug Design Software, Supported by Schrödinger Inc., USA" on January 21, 2020.



Two Application Scientists from Schrodinger Dr. Prajwal Nandekar and Dr. Vinod Devaraji were the resource persons. 33 participants from various Institutes across the country like IIT-BHU Varanasi, BITS Pilani, DAVV Indore, MS University, Baroda; Gujarat University, Shyamsundar College West Bengal, ARIBAS Anand, SP University, Anand etc. attended the workshop actively.

Alumni Meet

Institute of Pharmacy Nirma University Alumni Association (IPNUAA) organized First Alumni Meet of Vadodara Chapter on the evening of November 28, 2019 at Pandit Restaurant, Sama Savli Road, Vadodara. More than 15 Alumni members working in various Pharma companies like Sun Pharma, SPARC, Alembic, etc. joined the event.

Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University also organized first Department Alumni meet on December 29, 2019 in the morning session. Many alumni members of the department attended the meet and discussed their professional working and experience.

The annual alumni meet of IPNUAA was held on January 26, 2020. More than 95 alumni attended the gathering. Entertaining Games and Photobooths were arranged for fun and interaction. Prof. Manjunath Ghate, Director, IPNU & President, IPNUAA, welcomed all the alumni members and shared the newer initiatives at the institute. Alumni members shared their experiences and revived college days. Dr. Dhaivat C. Parikh, Vice President, IPNUAA, shared updates on Alumni Association activities at Institute, as well as encouraged alumni members for active participation and enhanced alumni networking.

One Day Workshop on Medical Writing

Department of Pharmacology, Institute of Pharmacy under the banner of Centre for Continuing Education (CCE), Nirma University, Ahmedabad organized "One Day Workshop on Medical Writing", on February 15, 2020. Dr. Anupama



Ramkumar, CEO & Principal Consultant, Arkus Research Pvt. Ltd. Ahmedabad, India, Prof. Sunil Jambhekar, Professor of Pharmaceutical Sciences, LECOM School of Pharmacy, Florida, USA and Dr. Rakesh Ojha, Principal Medical Writer, Syneos Health, Global Medical Writing, Pune, Maharashtra, India, were the resource persons. 94 participants from all across the Gujarat attended the workshop actively.

Workshop on Communication Skills and Personality Development

The workshop on communication skills and personality development for B. Pharm. and M. Pharm. students was organized time to time. Guest lecture was delivered on February 20, 2020 by Ms. Neha Lal, Sr. General Manager, Operations & HR, GCS Medical College, Hospital & Research Centre, Ahmedabad on the topic of "Career Options in Healthcare Management Sector". Students of B. Pharm. semester VIII attended the session. A session on personality development was arranged for B. Pharm. semester VI students February 18, 2020. Mr. Lav Grower Senior HR Administrator and controller at Allen Career Institute interacted with the students and motivated them on various aspects of personality development.

Rostrum 2019

Annual cultural programme "ROSTRUM" was celebrated during November 16-17, 2019. Events like song, dance, drama, Ad-Mad, Mr. and Ms. Rostrum, mime/monoacting were organized. This year in ROSTRUM, a new event called Improv was introduced in which students had an opportunity to show their creativity and acting skills under certain word limits. Smt. Gopi Desai, Indian actress and Director, graced the occasion as the Chief Guest and Ms. Ishani Dave graced the occasion as Guest of Honour.



No.	Project Title	Student	Guide/Co-guide
Ph D in Pharmaceutical Sciences			
1	Design, Development of Novel Nano-formulation for treatment of Macular Degeneration.	Mr. Garkal Atul Dattatraya	Dr. Tejal A. Mehta
2	Development and evaluation of novel drug delivery system for the treatment of chronic wounds.	Ms. Vinchi Preksha Mahendrabhai	Dr. Mayur Patel
3	To study effect of Indian Medicinal Plant for Neurodegeneration Diseases.	Ms. Bhalodi Krishna Hemantbhai	Dr. Charmy Kothari
4	Design, synthesis and biological evaluation of Wnt signalling modulators.	Mr. Vishalgiri Goswami	Dr. Bhumika D. Patel
5	Development and characterization of nanoformulation for the treatment of fungal diseases.	Ms. Monika Rani	Dr. Tejal A. Mehta
M. Pharm. in Pharmaceutics			
1	Formulation development, optimization and characterization of antiemetic lozenges of meclizine hydrochloride for the treatment of motion sickness.	Mr. Aditya Thole	Dr. Mohit Shah
2	Design and development of oral films for aripiprazole.	Ms. Anusikta Ghos	Dr. Shital Butani
3	Formulation and development of film forming system for anti acne agents	Ms. Dharmika Gohel	Dr. Mohit Shah
4	Formulation & development of liposomes for the treatment of gastric cancer	Mr. Dhruv Soni	Dr. Tejal Mehta
5	Lipid-Based Nano-Delivery for Oral Administration of Atazanavir: Formulation design, Optimization and Characterization.	Ms. Kajol Sevak	Dr. Shital Butani
6	Fabrication and characterization of lipid nanoparticulate system for the treatment of atopic dermatitis.	Mr. Mayur Chaudhary	Dr. Mayur Patel
7	Formulation, optimization and characterization of self-emulsifying drug delivery systems of Ezetimibe for enhancement of its oral bioavailability	Ms. Mitali Paryani	Dr. Shital Butani
8	Formulation & evaluation of cyclosporine loaded ocular film for the treatment of dry eye syndrome	Ms. Nidhi Aditya	Dr. Tejal A. Mehta
9	Formulation and characterization of nanoemulgel containing antiacne agent	Mr. Parth Patel	Dr. Jigar Shah
10	Formulation and Development of Taste masked sublingual Tablet for migraine.	Ms. Priya Patel	Dr. Dhaivat Parikh
11	Development and optimization of drug loaded nano structured lipid carrier system for the treatment of fungal infection.	Mr. Raj Pachani	Dr. Mayur Patel
12	Exploring NLC based nano suspension of tyrosine kinase inhibitor for the treatment of head & neck cancer	Ms. Riddhi Pandya	Dr. Tejal A. Mehta

STUDENTS' RESEARCH

13	Development and Characterization of Gel-in-Cream formulation for skin disorder.	Ms. Srusti Sheth	Dr. Dhaivat Parikh
14	Development and optimization of delayed release system for the Treatment of Rheumatoid Arthritis.	Mr. Vaibhav Bhagiya	Dr. Mayur Patel
15	Development, optimization and evaluation of buccal film of BCS class I drug	Mr. Vivek Mewada	Dr. Jigar Shah
M. Pharm. in Pharmacology			
1	Pharmacological Evaluation of Celastrus paniculatus oil in DMBA induced breast cancer	Ms. Bhumi Akhani	Dr. Jigna Shah
2	Pharmacological Evaluation of novel formulation against Alzheimer's disease	Ms. Bina Amarnani	Dr. Jigna Shah
3	Neuroprotective effect of cephalosporin antibiotic on experimental animals	Ms Dhairya Bhatt	Dr. Shital Panchal
4	Pharmacological Evaluation of Sulphadoxine in chemical induced lung cancer	Ms. Humera Memon	Dr. Jigna Shah
5	Towards drug repurposing olsalazine as a hypomethylating compound for treatment of breast cancer	Ms Jayakumari Sharma	Dr. Snehal Patel
6	Investigation of neuroprotective activity of Eugenol against traumatic brain injury	Mr. Jeet Barot	Dr. Bhagawati Saxena
7	Neuroprotective effect of calcium channel blocker on experimental animals	Ms. Manisha Nichani	Dr. Shital Panchal
8	Pharmacological evaluation of novel tyrosine kinase inhibitor in combination with PPAR gamma agonist for treatment of metabolic dysfunction.	Ms. Megha Devada	Dr. Snehal Patel
9	Evaluation of effect of Ivermectin in chemically induced oral cancer	Ms. Molisha Soni	Dr. Jigna Shah
10	Study of Nrf-2 activator in cardiac cachexia	Ms. Ruju Vashi	Dr. Bhoomika M. Patel
11	Evaluation of effect of LXR agonist in cancer cachexia	Ms. Tamhida Masi	Dr. Bhoomika M. Patel
12	Evaluation of neuroprotective activity of Eugenol against MPTP induced Parkinson's disease	Ms. Urmi Vora	Dr. Bhagawati Saxena
M. Pharm. in Pharmaceutical Analysis			
1	Development and Validation of Stability Indicating HPTLC method for Estimation of Gefitinib	Ms. Drashti Thakkar	Dr. Charmy Kothari
2	Development and Validation of Stability Indicating HPTLC method for Estimation of Gefitinib	Ms. Semina Hamirani	Dr. Charmy Kothari
3	Development of Assay method of Ramipril and Felodipine in solid dosage form by HPTLC method and its forced degradation study	Ms. Mansi Shah	Dr. Nrupesh Patel
4	Spectrofluorimetric and HPTLC methods for Estimation of Mirtazapine	Ms. Akshita Doshi	Dr. Nrupesh Patel

STUDENTS' RESEARCH

5	Spectrofluorimetric and HPTLC methods for Estimation of Risperidone	Ms. Astha Shah	Dr. Nrupesh Patel
6	HPLC method development of fixed dose combination for selected drugs using QbD approach	Ms. Shivani Shah	Dr Priti Mehta
7	Microwave assisted stress degradation study of selected drugs	Ms. Shivani Shah	Dr Priti Mehta
8	Development and Validation of Bioanalytical method for Simultaneous Estimation of Simvastatin and Fenofibrate in Human plasma by RP-HPLC	Ms. Princy Thakkar	Prof. Manjunath Ghatge
9	Regulatory requirements for drug product registration and life cycle management for parenterals: India, US and Europe	Ms. Yogita Vyas	Dr Hardik Bhatt
M. Pharm. in Medicinal Chemistry			
1	Design and synthesis of novel Non-NAD ⁺ analogues as Poly(ADP)ribose Polymerase (PARP1) inhibitors - Part II	Ms. Karmani Shah	Dr. Bhumika D. Patel (Guide) Dr. Hardik Bhatt (Co-guide) Dr. Vivek Vyas (Co-guide)
2	Design and Synthesis of Novel Benzimidazole Derivatives as Anti-cancer Agents	Ms. Shruti Chauhan	Dr. Jignasa Savjani (Guide) Ms. Palak K. Parikh (Co-guide)
M. Pharm. in Regulatory Affairs			
1	Regulatory Compliance Management & eCTD Compilation of Generic Transdermal Patch for US Market	Mr. Vraj Khandhara	Dr. Charmy Kothari
2	Regulatory Information - Submission And Management (Article 57(2) of Regulation EC NO. 726/2004).	Mr. Swastik Suthar	Dr. Charmy Kothari
3	Manufacturing facility design and alignment with regulatory requirements as per new regulation amended by CDSCO 2019	Ms. Krisha Soni	Dr. Nrupesh Patel
4	Regulatory requirements for registration of cardiovascular drugs in CIS countries	Ms. Vidhi Patel	Dr Priti Mehta
5	Regulatory requirements for drug product registration and life cycle management for parenterals: India, US and Europe	Ms. Rutwa Soni	Dr Hardik Bhatt
6	Current regulations of drug eluting cardiac stents in US, EU and India	Mr. Jenish Parmar	Dr Priti Mehta
7	Comparative Regulatory Account on Product Post Approval Changes of USA, South Africa and GCC countries	Ms. Shravani Wagh	Dr. Nagja Tripathi
8	Lifecycle management of respiratory products in Australia, New Zealand and MENA countries	Ms. Priya Desai	Dr. Vivek K. Vyas
9	A shifting paradigm of Indian orthopaedic medical device industry, post implementation of new medical device rules-2017, A real world scenario.	Ms. Drishti Dave	Dr. Dipal Gandhi
10	Nutraceuticals registration requirements in GCC AND SADC regions"	Ms. Tasneem Rangwala	Dr. Niyati Acharya
11	Regulatory requirements for registration of health supplements in ASEAN, Africa and GCC region	Ms. Suparna Karmakar	Dr. Niyati Acharya

STUDENTS' CORNER

Ph.D. awarded:

Following students received Ph.D. degree during the Twenty Eighth Convocation of Nirma University held on October 16, 2019

No.	Name of student	Project title	Name of Guide
1	Mr. Chaube Udit Jaiprakash	Design and Synthesis of Novel mTOR Inhibitors as Anticancer Agents.	Dr. Hardik Bhatt
2	Mr. Jha Abhishek Kumar Brajesh Kumar	Pharmacological investigation of Oryzasativa antioxidants in neurodegeneration.	Dr. Shital Panchal
3	Ms. Arora Bhoomi Saurabh	Investigation of Prediabetes and Obesity Prevalence and their Association with Various Risk Factors.	Dr. Snehal Patel
4	Mr. Variya Bhaveshbhai Chhaganbhai	Unravelling molecular mechanism of action of gallic acid isolated from fruit juice of Emblica officinalis for its anti-diabetic and anti-hyperlipidemia potential.	Dr. Snehal Patel

Students’ events:

Students Participation in 35th West Zone Youth Festival 2019-20



Students of the Institute of Pharmacy, Nirma University participated in 35th West Zone Youth Festival 2019-20 held during December 27-31, 2019 at Uka Tarsadia University, Bardoli. Total 48 universities participated in the competition. Around 35 students participated from Nirma University out of which 19 students from the Institute of Pharmacy performed in various events like Folk dance, One-act play, Mime, Mehndi competition.

NIPSA Activities

Nirma Institute of Pharmacy Students’ Association (NIPSA) had organized an Online Photography Contest called “FREEZE THE STREET” during December 26-28, 2019. The theme of the contest was “STREET PORTRAITS”. NIPSA had also organized an event on January 3, 2020 named as “RACE THE CLOCK”. It was an event consisting of one-minute games to entertain the



1st year students and to give them an opportunity to develop network with their seniors. NIPSA also organized a talk show with a very renowned Author and TEDx speaker Mr. Shantanu Gupta on January 31, 2020 in which he discussed about his books and life experiences. The show was hosted by Mr. Chirayu Thakkar. On the same occasion, NIPSA board and Mr. Shantanu Gupta launched NIPSA's Annual Magazine “SEISMIC BYTES” which was designed and created by the students and board members of NIPSA

Students’ Achievement

Drama Club Activity- Mr. Praful Panchal and Mr. Chirag Parekh conducted a one day workshop on November 13, 2019 for the participants in theatre events of Rostrum and guided students to improve their performance in terms of their acting, production, script, costume, and direction etc.

Drama club students of Institute of Pharmacy won 6 trophies in Inter Institute One Act Play Competition which was held on February 4, 2020. Total 7 teams participated in the competition and title was- "Vanjiyan - A Mother of Thousands" on the theme climate connection.

STUDENTS' CORNER

Students won Best Drama- 1st prize (Mr. Jay Shah, Mr. Kunj Thakkar, Mr. Shrey Modi, Ms. Nancy Patel, Ms. Jenny Kundadiya, Mr. Kevan Patel, Mr. Abhi Patel, Ms. Vaidehi Patel, Ms. Archi Shah),

- Best Production (Mr. Jainil Sheth, Mr. Jaydeep Hapaliya, Mr. Kathan Desai),
- Best Director – Ms. Kunj Thakkar (B. Pharm Sem VIII),
- Best Actor – Ms. Jay Shah (B. Pharm Sem VIII),
- Best Actress – Ms. Jenny Kundadiya (B. Pharm Sem VI),
- Best Supporting Actress – Ms. Vaidehi Patel (B. Pharm Sem VIII)

Ms. Khushali Parekh, PhD Scholar won the best poster award and prize of £50 by Royal Society of Chemistry for the poster entitled “Nanocrystals: A promising Topical Formulation Strategy for the Treatment of Atopic Dermatitis” presented at ISCBC-NIPICON 2020 held at Nirma University during January 22-24, 2020.

Mr. Arpit Arunkumar Bana, PhD Scholar received first prize in the poster presentation competition at Applied

Winners in Sports Activities

Students of B. Pharm., M. Pharm. and Ph.D. participated in various Athletic and Non-athletic games viz. Running, throwing, Jumping, Chess, Carrom, Table Tennis, Lawn Tennis, Badminton, Kabaddi, Kho Kho, Cricket, Basket Ball, Football, Volleyball during academic year 2019-20 and winners were awarded with the trophies during Rostrum 2019 held during November 16-17, 2019.

Our students also participated in the 3 days event “Petro cup 2020” held at PDPU, Ahmedabad during February 14-16, 2020 and following students secured rank in various events.

Name of Student	Programme & Year	Rank Secured in the Event
Mr. Jitendra Singh	First Year M. Pharm	Second Rank in Kho-Kho
		Third Rank in Athletics 800 m
Ms. Nemi Kaneriya	Second Year B. Pharm	Second Rank in Kho-Kho

Best scholastic performance

Students were awarded for the best scholastic performance during their study at the Institute of Pharmacy during the convocation ceremony of Nirma University on October 16, 2019. The following were the shining stars:

M Pharm	Best scholastic performance
Pharmaceutics	Ms. Shah Prajakta Hemantkumar
Pharmacology	Ms. Bhatt Trisha Manishkumar
Pharmaceutical Analysis	Ms. Patel Payal Shashikant
Pharmaceutical Chemistry	Mr. Chavda Jaydeepsinh Pravinsinh
Regulatory affairs	Ms. Kacha Gopiben Bipinbhai
B. Pharm.	Ms. Yadav Anjali Anilbhai

Pharmaceutical Analysis (APA) INDIA 2020 International Conference Organized by the Boston International Society, during February 23-25, 2020 at Courtyard Marriott, Ahmedabad. Title of the Poster presented was "Peptide Mapping: A Cutting Edge Technique-Recent Advancements"

Mr. Harshit Barod, B. Pharm. Semester VI received the First prize in the essay writing competition held on September 25, 2019 on a topic “Safe and effective medicines for all” organized by Institute of Pharmacy, Nirma University as a part of celebration of World Pharmacists Day 2019.

Ms. Tanvi Shukla, M. Pharm. Semester II student of Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University, appeared for the World Health Organization (WHO) Online exam and got the achievement certificates.

Ms. Molisha Soni, M. Pharm. Semester IV student of Department of Pharmacology, Institute of Pharmacy, Nirma University, got selected and participated in the Novartis Biotechnology Leadership Camp (BioCamp) on theme “Creativity will find Cure” at Hyderabad during October 13-16, 2019.

STUDENTS' CORNER

Other felicitations on Foundation Day for Outstanding Achievements were as below:

Student Name	Achievement
Mr. Kunj Thakkar	Best student of the year for his outstanding and maximum participation in extracurricular and co-curricular activities and academic performance during his B Pharm journey from 2016 to 2019
Ms. Swati Patil	Meritorious service and participation during NCC Activities
Ms. Jinal Patel	Meritorious Service and Participation during NSS activities

Alumni Felicitation for their outstanding achievement

Student Name	Achievement
Dr. Somsuvra Ghatak	Director of Research, US Pharma Lab Inc, New Jersey, USA
Dr. Aashish Sharma	Post-Doctoral Biomedical Science Researcher, Centre for Research in Medical Devices, National University of Ireland, Galway, Ireland
Mr. Abhijeet Goon	Asst. General Manager, Marketing- Lilac Insights (P) Ltd., Mumbai, Maharashtra, India
Mr. Ankit Turakhiya	Associate Manager, Medical Writing - Eli Lilly India Pvt. Ltd., Bangalore, Karnataka, India
Mr. Dhaval Bendale	Global Manager, Market Research, Analytics and CI - Sandoz International GmbH, Germany
Mr. Drupadkumar Acharya	Scientist I, Boehringer Ingelheim (Contract-The Fountain Group), North Brunswick, NJ 08902, USA
Mr. Parth More	Drugs Inspector, Drugs Control Department, Delhi, India
Dr. Priti Bahety	Senior Medical Affairs & Medical Excellence Manager - GSK, Singapore
Dr. Ankit Parikh	Research Associate, University of South Australia, Adelaide, South Australia, Australia
Mr. Brijrajsinh Gohil	Group Brand Lead - Cipla Ltd., Mumbai, Maharastra, India
Dr. Sukrut Somani	Postdoctoral Research Associate, University of Strathclyde, Glasgow, Scotland, UK

FACULTY CORNER

Faculty Achievements



Dr. Manjunath Ghate Received Best Teacher of the Year award from Indian Society of Chemists and Biologists (ISCB) at 5th International Conference (NIPiCON) jointly with ISCB in Drug Research-2020 on January 22, 2020 at Nirma University, Ahmedabad.



Dr. Mayur Patel received the Prestigious "Young Pharmacy Teacher of the Year Award - 2019" from "Association of Pharmaceutical Teachers of India (APTI)" at 24th Annual National Convention of Association of Pharmaceutical Teachers of India (APTICON) held from October 11-13, 2019, at Dehradun, Uttarakhand, India.

FACULTY CORNER

Dr. Niyati Acharya has been awarded the GABTP National Woman Scientist Award 2019 at 29th APSI scientists meet and international conference on Drug discovery and development in Agrobiotechnology and Pharmaceutical sciences on November 24, 2019.



Dr. Niyati Acharya has been awarded the SFE Young Ethnopharmacologist Award 2020 P. K. Debnath Memorial Award for Best Oral Presentation in the field of Ethnopharmacology and medicinal plant research at 7th International Congress of Society for Ethnopharmacology SFEC 2020, during February 15-17, 2020 organized by Society for Ethnopharmacology (SFE) and Jamia Hamdard, New Delhi.

Dr. Vivek K. Vyas has been awarded with ACS (American Chemical Society) Best Abstract Award at Ramanbhai Foundation 9th International Symposium on Current Trends in Healthcare "Advances in New Drug Discovery and Development" which is being organized during February 6-8, 2020 at Zydus Corporate Park, Ahmedabad.

Expert Lecture delivered by Faculty

Prof. Manjunath Ghate was invited as a Chief Guest in the Annual Day function at DPS School, Gandhinagar held on December 19, 2019.

Dr. Shital Butani delivered an expert lecture at Arihant School of Pharmacy & BioResearch Institute, Adalaj, Gandhinagar in Two days "Refresher course for registered pharmacist" on February 9, 2020.

Dr. Nagja Tripathi delivered an expert lecture at Arihant School of Pharmacy & BioResearch Institute, Adalaj, Gandhinagar in GUJCOST & DST sponsored One day National Seminar on "Modernization of Traditional Medicines In India" on the topic "Recent Advances in Herbal Medicines" on January 28, 2020.

Dr. Mayur Patel delivered an expert lecture at SAL Institute of Pharmacy, Ahmedabad in Two days "Refresher course for registered pharmacist" on January 5, 2020.

Dr. Shital Butani delivered an expert lecture entitled "Applications of cold atmospheric plasma in healthcare" at Institute for Plasma Research (IPR), Gandhinagar on November

29, 2019.

Dr. Niyati Acharya delivered an expert lecture entitled "Drug discovery approaches for the management of Alzheimer's disease from plant constituents" at FDP at SKPCPER Ganpat Vidhyanagar on November 23, 2019.

Dr. Niyati Acharya delivered an expert lecture entitled "Potential of plants and plant constituents: Perspectives from Nutraceutical Industry" at 29th APSI Scientist meet 2019 and International Conference on "Drug Discovery and Development in Agrobiotechnology and Pharmaceutical Sciences at Smt. N. M. Padalia Pharmacy college, Ahmedabad on November 24, 2019.

Dr. Bhoomika M. Patel delivered an expert lecture entitled "Differential role of HDAC inhibitors in cardiac complications of diabetes and cancer" at International Conference of Cardiovascular Sciences-2020 at Delhi Pharmaceutical Sciences and Research University in association with International Academy of Cardiovascular Sciences (IACS) on February 21, 2020.

Consultancy

Dr. Snehal Patel received a consultancy project entitled "Pharmacological evaluation of Herbal Formulation by rat model of breast cancer" from Ayusiddh Health care, Private Ltd Ahmedabad, worth Rs. 50000/- in January 2020.

Faculty Felicitation during foundation day

Dr. Jignasa Savjani felicitated for granting the patent & receiving international travel grant from SERB, DST.

Dr. Bhumika Patel felicitated for receiving international travel grant from SERB, DST.

Dr. Charmy Kothari felicitated for receiving international travel grant from SERB, DST.

Dr. Priti Mehta felicitated for receiving financial assistance to establish national facility under DPRP scheme of DST and APTI Woman of the Year-2018 Award.

Dr. Tejal Mehta felicitated for receiving major research project from Nirma University and highest consultancy.

Dr. Mayur Patel felicitated for publishing the review article in the journal, Journal of Controlled Release with an impact factor of 7.901.

Staff Felicitation

Ms. Pooja Pandey and **Ms. Dharti Patel** were felicitated as a Special Recognition for her performance.