

PUBLICATIONS

Jagruti V Kolhe, Abu S Chhipa, **Shital Butani**, Vishal Chavda, **Snehal S Patel**. PCOS and Depression: Common Links and Potential Targets. *Reproductive Sciences*, 2021, 1-18. (IF: 2.61)

Amarjitsing Rajput, **Shital Butani**. Donepezil HCl Liposomes: Development, Characterization, Cytotoxicity, and Pharmacokinetic Study. *AAPS PharmSciTech* 2022, 23(2), 1-14, (IF: 3.246).

Anroop B Nair, Bhavna Singh, **Jigar Shah**, Shery Jacob, Bandar Aldhubiab, et al. Formulation and Evaluation of Self - Nanoemulsifying Drug Delivery System Derived Tablet Containing Sertraline. *Pharmaceutics*, 2022, 14, 336, (IF: 6.321).

Shery Jacob, Anroop B. Nair, **Jigar Shah**, Sumeet Gupta, Sai H. S. Boddu, Nagaraja Sreeharsha et al. Lipid Nanoparticles as a Promising Drug Delivery Carrier for Topical Ocular Therapy; An Overview on Recent Advances. *Pharmaceutics*, 2022, 14(3), 533. (IF: 6.321).



FORTHCOMING EVENTS

CCE Event of Pharmaceutical Chemistry Department	March 10, 2022
Rostrum, 2021	March 16, 2022
Euphoria 2021	March 17, 2022
CCE Event of Pharmacology Department	March 19, 2021

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



Publications byStaff:

Goswami, Virendrakumar S., & Pandya, V. C. (2021). The Role of Social Media Technology in the Library: A Study. *Indian Journal of Information Sources and Services*, 11(2), 16-20. November, 2021

Gadhvi, G., Kinjal K. Parekh, M. A scientometric study of highly cited journals in science discipline indexed by scopus and web of science. *Digital Commons@University of Nebraska - Lincoln*. 2021.

Inspiring Thoughts... Radiance

Institute of Pharmacy, Nirma University



Volume 15 | Issue 1 & 2 | March 2021 - February 2022

International Experts



Dr. Terry David Church
USA



Prof. Frances J. Richmond
USA



Prof. Nigel G. J. Richards
UK



Dr. Wong Tin Wui
Malaysia



Prof. Stig Pedersen-Bjergaard,
Norway



Prof. Ryan F. Donnelly
UK



Dr. Michael R. Hamrell
USA



Dr. EE Pui Lai, Rachel,
Singapore

INSIDE....

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EDITORIAL BOARD

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DIRECTOR'S DESK

It brings me great pleasure to announce the release of the latest edition of "Radiance". The current issue of radiance highlights the latent energy, technical, and literary skill among students and employees. This edition of Radiance also emphasises the Institute's expert lecture series, which features e-talks by National and International experts as well as Alumni, as well as short-term training for students and faculty. This publication, aptly named Radiance-Inspiring Thoughts, provides an overview of the variety of co-curricular and extracurricular activities organized for students. Thanks to the staff and students for their efforts in research and extracurricular activities. I commend the editing team for their devotion and hard work in achieving this objective, and I wish my beloved students the best of luck.

(Dr. Manjunath Ghate)
Director, Institute of Pharmacy



From the Editor's Desk

It is indeed a matter of pleasure that the Institute of Pharmacy, Nirma University, is bringing out the first and second issue of the Fifteenth volume of 'Radiance'. Institute of Pharmacy always attempts to increase the horizon of learning through creating an environment for students as well as faculty by organizing various lecture series of experts from different corners of the world. This issue also gives a glimpse of several events organized by the institute. I am thankful to all the members of the editorial board for contributing positively to provide the present shape of this issue.

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

Dr. Bhagawati Saxena
Associate Editor

Dr. Shital Butani
Editor



EXPERT AND ALUMNI LECTURES

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 the Institute, working in various fields are also invited to interact with current students on various topics. The following list provides information of the Expert/Alumni lectures organized from March 2021 to February 2022:

Name of the Expert, Designation and Organization	Topic	Date
Dr. Ajit Vikram, Assistant Professor, Division of Cardiology, Abboud Cardiovascular Research Center, Fraternal Order of Eagles Diabetes Research Center, Department of Internal Medicine, University of Iowa Carver College of Medicine, Iowa City, IA, USA	Role of microRNAs in the regulation of non-dipping hypertension	March 2, 2021
Dr. Kanan Shah, Founder and Director of Nartan Institute of Performing Arts (NIPA), Sydney, Australia	Introduction of multi-herbal preparations in Australia: Scope and Regulations	March 3, 2021
Dr. Ganesh A. Thakur, Associate Professor and Chair, Department of Pharmaceutical Science, Northeastern University, Boston, USA.	Molecules to Therapeutic Discoveries – Treating Chronic and Neuropathic Pain and Substance Use Disorders	March 4, 2021
Dr. Terry David Church, Regulatory and Quality Sciences, Associate Director of Undergraduate Education, University of Southern California (USC), USC School of Pharmacy, USA	Pharmacology and Drug Development, Undergraduate Education, USA	March 4, 2021
Prof. Frances J. Richmond, Director of the International Center for Regulatory Science & Professor of Regulatory and Quality Sciences, USC School of Pharmacy, USA	Regulating Medical Devices	March 4, 2021
Dr. Ridham Desai, Registered Pharmacist, Loblaw Companies Limited, Canada	Do what you love - Love what you do	March 5, 2021
Dr. Md. Moklesur Rahman Sarker, Head, Academic and Research Affairs, Department of Pharmacy, State University of Bangladesh Dhaka, Bangladesh	Development of novel formulations from phytomedicine/herbal medicine/functional foods/nutraceuticals?- Research to commercialization of products	March 5, 2021
Prof. Sukhinder Cheema, Professor in Biochemistry, Memorial University of Newfoundland, Canada	Maternal nutrition during pregnancy and cognitive function of the next generation	March 5, 2021
Prof. Nigel G. J. Richards, Department of Chemistry, Cardiff University, Cardiff, UK	Role of Chemotherapeutic agents in Medicinal Chemistry	March 6, 2021
Dr. Kaushal Patel, Pharmacy Manager, Walmart Pharmacy, The USA	Role of Pharmacist in the USA	March 6, 2021
Prof. Wong Tin Wui, Faculty of Pharmacy, Universiti Teknologi MARA, Malaysia	Topical and Transdermal Delivery of Small Molecule and Macromolecular Therapeutics	March 10, 2021
Dr. Neelima Chauhan, Associate Professor, Department of Biochemistry and Molecular Genetics Chicago, USA	Cholinergic Neurotransmission with reference to Alzheimer's Disease	March 11, 2021
Prof. (Dr.) Samit Shah, Dean & Professor, School of Pharmacy, Regis University, Denver, USA	Pharmacoeconomics	March 17, 2021
Prof. (Dr.) Stig Pedersen-Bjergaard, Professor, Analytical Chemistry, University of Oslo, Norway	Electromembrane Extraction	March 17, 2021
Dr. Amirali Popat, Director of Research, School of Pharmacy, The University of Queensland, Brisbane, Australia	Mesoporous silica nanoparticles : One particle many solutions	March 17, 2021
Mr. Pathik Bramhbhatt, Pharmacist at CVS Health, Rockaway, New Jersey, United States	Pharmacist in United States: Present and Future	March 20, 2021
Dr. Anurag Maheshwari, Regulatory executive, Prime Health limited, Canada	Functioning of Protein Kinases	March 22, 2021

EXPERT AND ALUMNI LECTURES

Name of the Expert, Designation and Organization	Topic	Date
Dr. Hitesh Agrawal, Assistant Professor of Pharmaceutical Sciences, School of Pharmacy, South University, Savannah Campus, USA	Introduction to Medicinal Chemistry	March 22, 2021
Dr. Amrita Nagle, Scientist, Evonik Vancouver Laboratories (VAN), Canada	Exploring the anti cancer & cytoprotective activities of cinnamaldehyde derivatives	March 22, 2021
Prof. R.N. Saha, Director & Shri B. K. Birla & Smt. Sarala Birla Chair Professor, BITS Pilani, Dubai Campus, Dubai International Academic City, Dubai, UAE	Nanoparticulate Systems for Better Drug Delivery and Role of Pharmacokinetic	March 22, 2021
Dr. Rory E. Kim, Assistant Professor of Clinical Pharmacy, USC School of Pharmacy, University of Southern California, USA	Diabetes drug benefits beyond glycemic control	March 22, 2021
Dr. Shankar D. Katekhaye, Quality and Research Manager, Natures Laboratory, Whitby, UK	An Insight of the Biological Application of Propolis	March 23, 2021
Dr. Stephen Barton, Department of Chemical and Pharmaceutical Sciences, Kingston University, UK	Applications of HPLC and MASS Spectroscopy in Bio-Analytical and R&D	March 23, 2021
Prof. Yashwant Pathak, Professor, School of Pharmacy, Material and Advanced Technologies for Healthcare, Tampa, USA	Back to square one: A passage towards drug delivery through precision medicine	March 23, 2021
Dr. Aaron Muth, Assistant Professor, Dept Pharmaceutical Sciences, College of Pharmacy and Health Sciences, St. John's University Queens, New York, USA	From Drug Design to Discovery: A Journey in Medicinal Chemistry	March 23, 2021
Dr. Maya P. Nair, Director, Biological Division, EH&S, Assistant Professor, TCOM, UNT Health Science Center, Texas, USA	Targeted Drug Delivery using Biomimetic Nanoparticles.	March 23, 2021
Prof. Ryan F. Donnelly, Chair in Pharmaceutical Technology, School of Pharmacy, Queen's University Belfast, UK.	Transdermal Drug Delivery Systems	March 23, 2021
Dr. Hardik Chandasana, Manager, GlaxoSmithKline, Collegeville, PA, USA	PK PD in Drug Development	March 24, 2021
Dr. Michael R. Hamrell, President of MORIAH Consultants, Regulatory affairs and compliance consulting firm, Los Angeles, CA, USA	Good Clinical Practice for medical device investigations (Part 812 and ISO 14155)	March 24, 2021
Dr. Yogesh Patel, Associate Director, Quantitative Clinical Pharmacology at Cognigen Corporation, Simulations Plus Company, Buffalow, New York, USA	Applications of Pharmacometrics in Drug Development	March 24, 2021
Prof. Thais Russomano, Founder, CEO, Scientific Director, Innovaspace Ltd, London	Space Physiology and Medicine	March 24, 2021
Dr. Ian S. Haworth, Associate Professor & Vice Chair, Department of Pharmacology & Pharmaceutical Sciences, School of Pharmacy, University of Southern Caloifornia, USA.	Drug Design and Development: The Role of Water	March 25, 2021
Dr. Aravin Ananthakrishnan, Vice President, Global Strategic Portfolio Management, Synthon B. V., Netherland	Recent Advances and Scope of Medicinal Chemistry	March 25, 2021
Dr. Marlise A dos Santos, Board of Advisor Member, Space Pharmacy & Astrobiology, InnovaSpace Ltd, London	Space Pharmacy- Important to know for space travel	March 25, 2021
Prof. Stephen F. Amato, Faculty Director, Global Regulatory Affairs, /Quality Assurance/Advanced Manufacturing, Teaching Professor, College of Professional Studies, Northeastern University, USA	Emerging Aspects of Medical Device Product Regulation and Life-Cycle Management	March 25, 2021

EXPERT AND ALUMNI LECTURES

Name of the Expert, Designation and Organization	Topic	Date
Prof. Sanjib Bhattacharyya, Full Professor, Department of Pharmaceutical Science and Chinese Traditi onal Medicine, Southwest University China	Targeting Strategy and its implication for Drug Delivery application relevant to various pathobiology	March 25, 2021
Prof. Cornelia Keck, Professor Pharmaceutics & Biopharmaceutics, Department of Pharmaceutics & Biopharmaceutics, Philipps-Universität Marburg, Germany	"Smart" Nanocarriers for improved drug delivery	March 25, 2021
Dr. Luis Zea, Assistant Research Professor, BioServe Space Technologies, University of Colorado, Boulder, USA.	Why do we do biology and microbiology experiments in space?'	March 26, 2021
Prof. Gerard D'Souza, Professor of Pharmaceutics, Assistant Dean of Assessment and Accreditation, Department: School of Pharmacy, Massachusetts College of Pharmacy and Health Science Boston, Massachusetts, USA	3D cell culture based in vitro models of solid tumors for the testing of anti-tumor drug delivery approaches	March 26, 2021
Dr. Vinay Parikh, Associate Professor, Psychology and Neuroscience Program, Temple University, Weiss Hall, Philadelphia, USA	Neural underpinnings of resilience and vulnerability in cognitive aging	March 26, 2021
Dr. Ashutosh Barve, Senior Scientist, Bio-Analytical and R&D, PPD Inc. Madison, WI USA	Applications of HPLC and MASS Spectroscopy in Bio-Analytical and R&D	March 26, 2021
Prof. Virinder S. Parmar, Professor in the Department of Chemistry and Environmental Science, Medgar Evers College, The City University of New York , USA	Development of Advanced Polymeric Nanoparticles for Drug Encapsulation and Drug Delivery Applications	March 26, 2021
Dr. EE Pui Lai, Rachel, Associate Professor, Department of Pharmacy, National University of Singapore, Singapore.	Polysaccharide hydrogels as sustainable biomaterials for wound healing	March 26, 2021
Dr. Balmukund Thakkar, Senior Chemist, Cambrex Karlskoga AB. Sweden	Process Development and Scale Up in API manufacturing	March 26, 2021
Dr. Chandresh Gajera, Research Scientist, Stanford University, San Francisco, USA	Genomics to Precision Medicine: Extracting ideas from genetics/genomics discoveries to define precise target for drug discovery and development	March 27, 2021
Dr. Rebecca Miranda Romero, Lecturer in the Department of Pharmacology & Pharmaceutical Sciences, USC (University of Southern California), School of Pharmacy, Los Angeles, CA, USA.	Biopharmaceutics in Drug Design	March 29, 2021
Dr. Ashish Dhir, Scientist & Principal Investigator, Department of Neurology, School of Medicine, University of California, Davis, Sacramento, USA	Recent Advances in Epilepsy Research	March, 30 2021
Dr. Pratik Thakkar, Postdoctoral Research Fellow, Physiology Department, The University of Auckland, NZ.	Novel targets within the carotid body for treating cardio-metabolic disorder.	March, 30 2021
Dr. Ankur Sharma, Senior Scientist PPDM QP2 PHARMACOMETRICS, Merck Sharp & Dohme Corp., New Jersey, USA.	Pharmacokinetics and pharmacodynamics Characterization of drugs for clinical translation	March, 31 2021
Dr. Ng Shiow Fern, Associate Professor Chair, Centre for Drug Delivery Technology Research, Coodinator, Discipline of Pharmaceutics, Faculty of Pharmacy, Universiti Kebangsaan Malaysia (UKM) Malaysia	Pharmacokinetics and Pharmacodynamics Characterization of drugs for clinical translation	March 31, 2021
Mr. Pratik Patel, Retail Pharmacist Austin, Texas, USA	Overview of Pharmacy Practices in USA	March 31, 2021
Dr. Vaibhav Shah, Research Fellow, Single Molecule Science and ARC Centre of Excellence for Advanced Molecular Imaging, School of Medical Sciences, UNSW Australia	Viruses and human diseases	March 31, 2021

EXPERT AND ALUMNI LECTURES

Name of the Expert, Designation and Organization	Topic	Date
Dr. Abhishek Shah, Principal Medical Writer, Seqirus - A CSL company, New Jersey, USA	Scope of Medical Writing in India and USA	March, 31 2021
Prof. Sunil Jambhekar, Professor of Pharmaceutical Sciences, LECOM School of Pharmacy, Florida, USA	Two Compartment Models	April 10, 2021
Dr. Anil Khatri, Consultant Pediatrician, Ahmedabad	Anemia: Causes, symptoms, Diagnosis	August 21, 2021
Prof. Yashwant Pathak, Professor, School of Pharmacy, Material and Advanced Technologies for Healthcare, Tampa, USA	Application of Nano Drug Delivery Systems for Cardiovascular Diseases	November 30, 2021
Prof. Raj Sevak, Assistant Professor, University of the Pacific, CA, USA	Pharmacotherapy of Parkinson's and Alzheimer's disease	February 03, 2022
Prof. Virinder Parmar, Faculty in Nanoscience at the CUNY Graduate Center and in Chemistry at Lehman College & Medgar Evers College, The City University of New York, USA	Crucial Role of Natural Products in Drug Discovery & Development	February 04, 2022
Prof. Raghuvir R. S. Pissurlenkar, Professor, Goa College of Pharmacy, Government of Goa, Panji	Reactions of Synthetic Importance	February 10, 2022
Dr. Rakesh K Singh, Associate Professor, Head, Department of Pharmacology and Toxicology, National Institute of Pharmaceutical Education and Research (NIPER), Raebareli	Yesterday's Poison-Today Drugs	February 10, 2022
Prof. Hemant Jadhav, Professor and Head, Department of Pharmacy, BITS-Pilani, Pilani	Tips to study Medicinal Chemistry Subjects Effectively	February 11, 2022
Dr. Ginpreet Kaur Khurana, Associate Professor, Section Head, SVKM's Narsee Monjee Institute of Management Studies, Mumbai	Advances in management of peptic ulcer	February 11, 2022
Prof. Sunilkumar B Bothra, Professor and HOD, Government College of Pharmacy, Aurangabad	Recent Advanced in treatment of Tuberculosis	February 14, 2022
Dr. Twinkal Patel, Doctor, Social Entrepreneur Health & Social Awareness, Ahmedabad	Drug Abuse and Youth	February 15, 2022
Dr. Anil Gaikwad, Principal Scientist, Pharmacology, CDRI, Lucknow	Brown and whitening adipose tissue interplay: Role of metabolic homeostasis	February 21, 2022
Prof. Suvarn S. Kulkarni, Professor, Department of Chemistry, IIT Bombay, Powai, Mumbai	Stereochemistry	February 21, 2022
Dr. Krishnamurthy Bhat, Department of Pharmaceutical Quality Assurance, Manipal College of Pharmaceutical Sciences, Manipal	Good Distribution Practices- A Key Element in Quality of End Product	February 22, 2022
Prof. Farhan Jalees Ahmad, Professor in Department of Pharmaceutics, School of Pharmaceutical Education & Research, Jamia Hamdard University, New Delhi	Nanotechnology Interventions and Phytoconstituents for Better Therapeutic Potentials	February 22, 2022
Dr. Alakh N Sahu, Associate Professor, Department of Pharmaceutical Engineering & Technology, IIT (BHU), Varanasi	Standardization and Quality Control of Herbal Drugs	February 22, 2022
Dr. Rajeev Taliyan, Associate Professor, Birla Institute of Technology & Science-Pilani, Pilani	Epigenetic and Immunomodulation as an Effective Advanced Therapeutic Approach for Cancer Management	February 22, 2022
Prof. N. Kannappan, Professor, Pharmaceutical Analysis, Annamalai University, Chidambaram, Tamilnadu	Role of Regulatory Affairs in Drug Discovery and Development	February 23, 2022
Prof. Suman Jain, Department of Physiology, All India Institute of Medical Sciences (AIIMS), New Delhi	Physiology of Learning and Memory in Health and Alzheimer's Disease	February 23, 2022

EXPERT AND ALUMNI LECTURES

Name of the Expert, Designation and Organization	Topic	Date
Prof. John Intru Disouza, Professor in Pharmaceutics, Principal, SWVSM's Tatyasaheb Kore College of Pharmacy, Warananagar, Kolhapur	Choosing Statistical Tests in Pharmaceutical Research	February 23, 2022
Dr. N. Shankaraiah, Associate Professor and Head, Department of Medicinal Chemistry, NIPER, Hyderabad	Molecular Hybridization: A Concept Paving Way in Development of Anticancer Agents	February 23, 2022.
Dr. Sanjay Batra, Sr. Principal Scientist, Division of Medicinal and Process Chemistry, CDRI, Lucknow	Strategic Advances in Medicinal Chemistry Harnessing different approaches for Drug Discovery	February 24, 2022
Prof. Maya P. Nair, Director, Biological Safety Division, NIH program Certified Trainer, CDIP UNTHSC, University of North Texas Health Science Center, USA	Cell culture techniques	February 24, 2022
Dr. Mukesh Nandave, Asso. Prof. & Head, Dept of Pharmacology, Delhi Pharmaceutical Sciences and Research University, New Delhi	Role of autonomic nervous system in health and disease	February 24, 2022
Prof. S. Ganguly, Professor, Department of Pharmaceutical Sciences & Technology, Birla Institute of Technology, Mesra, Ranchi	3D QSAR- An overview	February 25, 2022
Dr. A. Kumaran, Principal Scientist, National Institute for Interdisciplinary Science and Technology (NIIST), CSIR, Kerala	Phytopharmaceuticals: A new avenue for herbal drug research	February 25, 2022
Prof. Krishnapriya Mohanraj, Professor and Head, Department of Pharmaceutical Analysis, Bombay College of Pharmacy, Mumbai	Case Studies in Impurity profiling- Structural Elucidation and Prediction of Degradation pathways	February 25, 2022
Dr. Gaurav Kumar Jain, Associate Professor, Delhi Pharmaceutical Sciences and Research University, Delhi	Biotechnology – A Pharmaceutical Perspective	February 25, 2022
Prof. Sanju Nanda, Professor in Department of Pharmaceutics, Department of Pharmaceutical Sciences Maharshi Dayanand University Rohtak	Scientific, Aesthetic and Ethical tools in cosmetic research	February 25, 2022
Prof. Mohana Krishna Reddy Mudiam, Senior Principal Scientist & Professor (AcSIR), Analytical & Structural Chemistry Department, CSIR-Indian Institute of Chemical Technology, Tarnaka, Uppal Road, Hyderabad	"Mass spectrometry based metabolomics: Application in bioanalysis and food safety"	February 28, 2022
ALUMNI LECTURE		
Dr. Snehal Shukla, Formulation Scientist at Quotient Sciences, USA	Bioinspired particle engineering for improved drug delivery to peripheral lungs	April 13, 2021
Dr. Priti Bahety, Oncology Medical Lead and Medical Excellence Manager at GSK, Singapore	Scope on Higher Education in Pharmacy at Singapore	April 16, 2021
Ms. Shivangi Kaul, Senior R&D Officer, Product Development, Premium Personal Care, R&D, Marico Ltd, Mumbai	Cosmetic Products: conception to commercialization	April 29, 2021
Ms. Shreya Shah, Associate Director, Pharmaceutical Development, CDMO, Division, Lubrizol Life Science-Health, USA	Nanomilling Technology - Screening to Scale-up	April 30, 2021
Dr. Manish Kumar Sharma, Research Associate-1, National Dope Testing Laboratory, Ministry of Youth Affairs and Sports, Government of India, New Delhi	High Resolution Mass Spectrometry Based Approach for Characterization of Degradation Products, Metabolite Profiling and Pharmacokinetics Study of Drug Substance and Its Implications in Drug Development	May 13, 2021
Mr. Ravi Ukawala, Deputy Manager - New Product Launch, Zydus Cadila Healthcare Ltd. Ahmedabad	Quality by Design	May 8, 2021

EXPERT AND ALUMNI LECTURES

Name of the Expert, Designation and Organization	Topic	Date
Mr. Snehal Kothari, Manager - Business Development & Project Management, Sundyota Numandis Probioceuticals Pvt Ltd. Ahmedabad	Strategic Planning for Marketing Mix	May 04, 2021
Dr. Deven Patel, Post-Doctoral Research Fellow, National Cancer Institute, NIH, USA	Background, Application and the Advanced Techniques for RT-PCR	May 6, 2021
Mr. Hirenkumar N. Khatri, Designated Partner, Tarushi Formulations LLP, Ahmedabad	Ayurvedic products: opportunities for business development in healthcare	May 5, 2021
Ms. Sweta Rajput, Regulatory affairs Specialist, Novartis, Hyderabad	Introduction to regulatory affairs, regulatory markets, submission types and tools	May 05, 2021
Mr. Nishant Patel, Owner of Pharmacy store and Manager at Hillside Family Pharmacy, Ladysmith, British Columbia, Canada,	Pharmacy profession as career in Canada	May 03, 2021
Mr. Mikul Soni, Deputy Manager ADL Pulmonary, Zydus Cadila, Ahmedabad	Music Composition: As Prayer, Passion & Performance	May 30, 2021
Dr. Anand B. Pithadia, Vice-Principal & Associate Professor, School of Pharmacy. Faculty of Pharmacy, Parul University, Vadodara	Effective Presentation Skills	June 5, 2021
Dr. Raghunath Pokale, Manager, Novartis Healthcare Pvt. Ltd. Hyderabad	Supply chain management in clinical trials	June 5, 2021
Mr. Maharshi Raval, Deputy Superintendent of Police, currently posted at RAJKOT District, Gujarat Police Services	Preparation Guidance for Civil Services Exam	June 5, 2021
Mr. Johnny Haryani, Owner and Founder of DEHAL Beverages, Ahmedabad	Roadmap to Start-up from Scratch	June 5, 2021.
Mr. Keval Trivedi, Director of AP Consultants & Company, Ahmedabad	Scope of Pharmacy and GPAT preparation	June 10, 2021
Mr. Harsh Thakkar, PhD Scholar, NIPER-Ahmedabad	Preparation for NIPER Entrance Exam	June 20, 2021
Mr. Dhruv Rawal, Business & Strategy Lead, International Expansion, Amneal Pharmaceuticals, Ahmedabad	Regulatory Affairs & US FDA ANDA Approval Process in GDUFA II	June 11, 2021
Dr. Pavan Srivastava, Faculty, Allen Career Institute, Gandhinagar	Aliphatic Amines: Basicity, effect of substituent on basicity and Reactions	July 12, 2021
Mr. Neel Sukhadia, Pharmaceutical Engineer, Gilead Sciences, San Mateo, California, USA	Recent Advances in Roller Compaction Technology	October 05, 2021
Mr. Parth Shah, Staff Pharmacist (Virden Drugs & Reston Drugs), Canada	Pharmacy Practice in Western Countries	October 06, 2021
Dr. Farah Pathan, Healthcare Associate, Boston Strategic Partners (BSP), Boston, MA, USA	Pharmacoeconomics: An Overview	October 07, 2021
Dr. Neha Vithani, Postdoc Research Associate, Washington University School of Medicine, St. Louis, USA	Understanding protein functions using molecular dynamics simulations	October 08, 2021
Ms. Pruthvi Shah, Lab Manager, L.E.A.F. Pharmaceuticals, Woburn, MA, USA	Lab management - after studying sciences	October 11, 2021
Dr. Harshvardhan Modh, Post-Doctoral Research Fellow (Wacker Research Group), Department of Pharmacy, Faculty of Science, National University of Singapore, Singapore	Drug Release Testing of Nanoformulations using Dispersion Releaser (DR) Technology	October 12, 2021
Dr. Sukrut Somani, Associate Director, CMC Drug Product, BioNTech SE, Germany	The future depends on what you do today	October 12, 2021
Dr. Sachin Thakkar, Sr. Research Associate, Process Development Scientist, Baylor College of Medicine, Houston, Texas, USA	Novel dry powder formulations of aluminum salt-adjuvanted vaccines for intranasal administration	October 13, 2021

EXPERT AND ALUMNI LECTURES

Name of the Expert, Designation and Organization	Topic	Date
Dr. Heta Desai, Scientist I at Pace Life Sciences, USA	Addressing the issue of poor aqueous solubility in drug product development	October 14, 2021
Dr. Santnu Patel, Director of Formulations R&D, Atai Life Sciences, Centereach, New York, USA	Multiparticulate targeted drug delivery systems and intellectual aspects	October 14, 2021
Dr. Kunti (Raskapur) Shah, QC Analyst, Thermo Fisher, Brampton, Ontario, Canada	Out of Specification; for the analytical results	October 16, 2021
Ms. Nidhi Sheth, Ph.D. Candidate at Rutgers University and National Institute of Justice (NIJ) Graduate Research Fellow, USA	Developing a forensically relevant single-cell pipeline for human identification	October 16, 2021
Mr. Nikum Sitwala, Chemist-3 at Toronto Research Chemicals, Greater Toronto Area, Canada	Current Trends in Pharma Chemistry at Canada	October 16, 2021
Dr. Shaunak Pandya, Principal Scientist, Kashiv BioSciences LLC, Piscataway, NJ, USA	Analytical Characterization of Protein Biologics: Current Industry Practice	October 16, 2021
Dr. Snehal Shukla, Senior Scientist, Formulation and Manufacturing Process Development, Pfizer Inc, USA	Lipid based delivery of Antidiabetic drug for treatment of mesothelioma-A rare thoracic cancer	October 20, 2021
Dr. Hitesh Patel, Scientific Software Developer, Cheminformatics, OpenEye Scientific, Washington DC-Baltimore Area, USA	Pharmaceutical Sciences and Cheminformatics	October 21, 2021
Ms. Vaidehi Mehta, Regulatory Affairs Specialist, Medtronic, Minneapolis-St. Paul, USA	Overview of FDA regulations for medical devices	October 21, 2021
Dr. Priyanka Trivedi, Sr. Toxicologist, Regeneron Pharmaceuticals, NY, USA	Targeting Phospholipase D4 Attenuates Kidney Fibrosis	October 22, 2021
Dr. Melani Solomon, Senior Scientist, Formulation and Drug Product Development, Catalent, Pharma Solutions, Gaithersburg, Maryland, USA	Nanocarrier-mediated enzyme replacement therapy for lysosomal storage disorders	October 22, 2021
Ms. Drasty Vora, Medical Writer, NutraSource, Toronto, Ontario, Canada	Clinical Study Protocol Writing	October 25, 2021
Mr. Kandarp Prajapati, Director, Global Regulatory Affairs (Oncology), Sanofi Genzyme, Boston, USA	Collaboration between International Regulatory Agencies to Facilitate Earlier Global Access in formulation development for Novel Cancer Treatments	October 25, 2021
Dr. Mithil Soni, Postdoctoral Fellow, Columbia Center for Translational Immunology, New York, USA	T cell based immunotherapy for treating cancers and viral infections	October 26, 2021
Ms. Jonali Ramani, Regulatory Affairs Manager, LFB-USA, USA	Regulatory approval process for approval of medical device in US	October 27, 2021
Ms. Nidhi Kuksal, PhD Candidate, University of Ottawa, Ottawa, Canada	Brown adipose tissue: The thermostat of our body	October 28,2021
Ms. Sweta Raval, Research Associate II, Symvivo Corporation, Burnaby, British Columbia, Canada	Preclinical research and development	October 29, 2021
Ms. Krishna Gajjar, Lead Certified Pharmacy Technician, Austin, Texas, USA	Computer Aided Drug Designing Methods	October 30, 2021
Dr. Ronak Patel, Postdoctoral Research Scientist at Columbia University Medical Center, New York, USA	Human stem cells based platforms for phenotypic disease modeling and drug screening for neurodegenerative diseases	October 30, 2021
Ms. Kirti Zinjuwadia, Regulatory, Validation and Quality Compliance Manager, White Collar Technologies Inc, Providence, RI, USA	Outlook of Instrument Qualification and Computerized System Validation	October 30, 2021

International e-Conference

International e-Conference-2021 was organized by Institute of Pharmacy, Nirma University, Ahmedabad jointly with Indrashil University on the theme of "Covid -19: Challenges and Opportunities in Pharmaceutical Research" during March 18-19, 2021. During the Inaugural Session on March 18, 2021, Dr. J.S. Yadav, Provost & Director (Research), Indrashil University and Prof. Manjunath Ghate, Director, Institute of Pharmacy, Nirma University gave the welcome address the delegates about the e-Conference. More than 500 delegates attended the e-Conference. The e-conference included plenary sessions by International and national eminent personalities from academics, industry and researchers and paper presentation (oral) sessions in various thrust areas of pharmaceutical sciences. Prof. Anamik Shah, Vice Chancellor, Gujarat Vidyapith, Ahmedabad was the Chief Guest in the online Valedictory Programme.

The International Expert Lecture Series: March 2021

The Institute of Pharmacy, Nirma University organized "The International Expert Lecture Series: March 2021". The Programme was spread over four weeks from March 1-31, 2021. Experts from Universities & Institutions across the world delivered talk during the period. This lecture series provided the students a good opportunity to interact with the Foreign Speakers.

National Webinar on "Career Prospects for Pharmacy Graduates in India and Abroad"

National Webinar on "Career Prospects for Pharmacy Graduates in India and Abroad" was organized by Institute of Pharmacy, Nirma University on June 19, 2021. Webinar comprised of talks from eminent resource persons - i.e. Dr. Terrence F. Graham (USC School of Pharmacy, USA), Dr. Stephen Kerr (MCPHS University, Boston, USA), Dr. James Coey (St. George's University, Grenada), Dr. Wong Tin Wui (Universiti Teknologi MARA, Malaysia), Dr. Stephen F. Amato (Northeastern University, USA) and Dr. Dhaivat Parikh, (Nirma University, India).

Orientation Programme

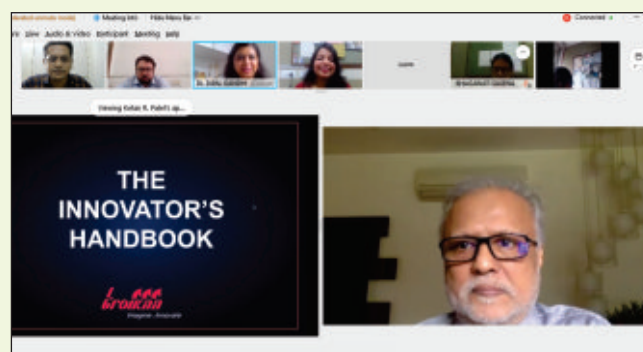
Institute of Pharmacy, Nirma University organized e-Orientation Programme for M Pharm new entrant students during August 23 to 27, 2021. Dr. Kari L. Franson, Associate Dean for Academic and Student Affairs & Professor of Clinical Pharmacy, University of Southern California, USA was



the Chief Guest and Dr. Anup Singh, Director General, Nirma University, Ahmedabad was the President of the Inauguration Programme.

Institute of Pharmacy, Nirma University organized e-Orientation Programme for New Entrants of B Pharm programme during January 24-29, 2022. Dr. USM Murty, Director, National Institute of Pharmaceutical Education & Research- Guwahati (NIPER-G), Assam, India was the Chief Guest and Dr. Anup Singh, Director General, Nirma University was the president of the inaugural function.

UG Research Council



UG Research Council, Institute of Pharmacy, Nirma University organized an online expert session of Dr. Ketan R. Patel, Chairman & Managing Director, Troikaa Pharmaceuticals Ltd., Ahmedabad on topic "Handbook for Innovators" on September 18, 2021. This expert session enlightened the students and faculty about how the innovators think, act and talk and also got an opportunity to interact with the distinguished and eminent expert, Dr. Ketan Patel.

UG Research Council of Institute of Pharmacy, Nirma University organized the "UG Research ePresentation Competition 2022" on January 31, 2022 to encourage and motivate the UG students to participate in various research activities of the Institute. Total 23 UG Students participated in the competition and presented various review/research topics. The competition was judged by Prof. P. K. Kulkarni, Retired Professor and Vice Principal, J.S.S. College of Pharmacy, Mysore, Karnataka and Prof. K. Sreedhara

Ranganath Pai, Manipal College of Pharmaceutical Sciences, Karnataka. Five highest scoring entries were awarded with the best presentation award.

Foundation Day Celebrations 2021



The 18th Foundation Day of Institute of Pharmacy, Nirma University was celebrated in hybrid mode (both offline and online mode) with great zeal and enthusiasm by the students, faculty and staff members on October 1, 2021. Prof. Ranendra N. Saha, Acting Vice Chancellor, BITS, Pilani was the Chief Guest, Dr. Anup Singh, Director General, Nirma University and Shri K. K. Patel presided over the function.

Prof. Manjunath Ghate, Director, Institute of Pharmacy presented the Annual Report highlighting the major accomplishments of the Institute. The meritorious students of B Pharm were given gold medals and the students, faculty, staff and alumni were felicitated for their outstanding achievements. Prizes were also given to the winners of the various competitions held during the celebrations.

International Alumni Expert Lecture Series

IPNUAA (Institute of Pharmacy Nirma University Alumni Association) organized the "International Alumni Expert Lecture Series" during the month of October. Around twenty four Alumni members as Experts from prestigious Universities & Pharma Organizations across the world delivered technical talk and shared their expertise and experiences. This Expert Lecture Series provided an excellent opportunity to students for enriching their knowledge and interacting with the International Alumni.



One-Day National Webinar on “Nanotechnology in Healthcare: Opportunities and Challenges”



The one-day National Webinar on “Nanotechnology in Healthcare: Opportunities and Challenges” was organized by Department of Pharmaceutics, Institute of Pharmacy, Nirma University in association with Controlled Release Society Indian Chapter (CRSIC) on October 28, 2021. The chief guest of the inaugural function Prof. Dulal Panda (Director, NIPER Mohali, Punjab, India) provided an outlook on the importance and requirement of nanotechnology to alleviate various diseases. He also emphasized on the need of conducting this type of webinars for strengthening the research. Dr. Anup Singh (Director General, Nirma University) delivered the presidential address in which he spoke about the dire need of developing novel drug delivery systems pertaining to the rise in the number of diseases. Eminent speakers from India and across the globe shared their insight into the evolving area of nanotechnology in healthcare. The scientific session was started with the Keynote Address of Prof Ryan F. Donnelly (Chair in Pharmaceutical Technology, Queens University Belfast, Director of QUB's interdisciplinary research programme – Materials & Advanced Technologies for Healthcare (MATCH) Medical Biology Centre, U.K). He delivered a remarkable talk on the topic entitled “Microneedle Systems for Nanomedicine Delivery”. Dr. Sanjay Garg, Professor of Pharmaceutical sciences UniSA: Clinical and Health Sciences, University of South Australia City West Campus; Prof. Tin Wui Wong, Professor, Non-Destructive Biomedical and Pharmaceutical Research Centre, Smart Manufacturing Research Institute, Universiti Teknologi MARA; Dr. Amirali Popat, Director of Research School of Pharmacy, The University of Queensland Brisbane; Dr. Ajay Khopade, Vice President R&D Formulations (Non-Oral) Sun Pharmaceutical Industries Ltd.; Dr. Vandana Patravale-Vice President, CRS-IC Executive committee and Convener of the event and Professor in Pharmaceutics, Institute of Chemical Technology, delivered a talk on various topics related to nanotechnology.

Workshop on Protection of Intellectual Property Rights in Pharmaceutical Sciences

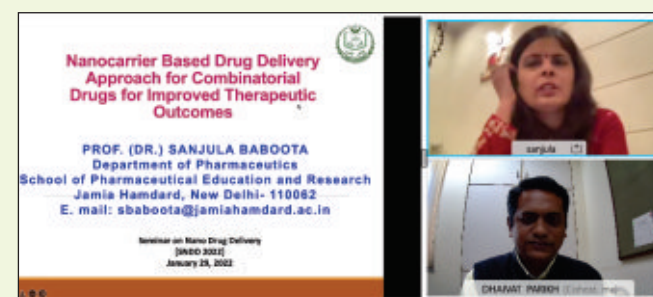
Institute of Pharmacy, Nirma University, Ahmedabad organized a workshop on "Protection of Intellectual Property Rights in Pharmaceutical Sciences" on December 31, 2021 & January 1, 2022. Dr Shripati Rao Kulkarni, Principal Scientist, Business Development - Intellectual Property Unit, CDRI-Lucknow; Mr. Sanjay Patel, Founder & Principal IP Attorney EXCELON IP - Patent & Trademark Attorneys, Ahmedabad; Dr. Neeraj Kumar, NIPER-Hyderabad & Ms. Taruna Jakhar, Assistant Professor, Institute of Law, Nirma University were the resource persons. Faculty members & PhD scholars actively participated in the Workshop.

Workshop on Sophisticated Instruments



Department of Pharmaceutical Analysis, Institute of Pharmacy, Nirma University and Centre for Advanced Instrumentation, Nirma University organized “Workshop on Sophisticated Instruments” under the banner of Centre for Continuing Education on January 4, 2022. Around twenty five students from various academic institutes participated in the workshop.

One Day Seminar on Nano Drug Delivery (SNDD-2022)



Department of Pharmaceutics, Institute of Pharmacy, Nirma University in association with the Centre for Advanced

Instrumentation (CAI) and Centre for Continuing Education (CCE) organized One Day Seminar on Nano Drug Delivery (SNDD-2022) through a virtual platform on January 29, 2022 wherein around 120 delegates participated from various pharmacy institutes of Gujarat and outside Gujarat. The objective of this seminar was to provide theoretical concepts of particle size engineering, methodology and applications of equipment for formulation development of various Nano-drug delivery systems as well as virtual demonstration of equipment like High-Pressure Homogenizer (HPH) and Particle Size Analyzer (PSA). Prof. S P Vyas (Former Vice-Chancellor, Dr. Harisingh Gour Vishwavidyalaya, Sagar) was the Chief Guest for the Inaugural function. Seminar comprised of five technical talks from eminent resource persons - i.e. Dr. Sanjula Baboota (Jamia Hamdard, New Delhi), Dr. Saurabh Srivastava (NIPER, Hyderabad), Dr. Vikas Jain (JSS, Mysuru), Dr. Namrata Jain (Horiba, New Delhi) and Mr. Srinivasa Reddy (Inkarp, Mumbai).

Alumni Meet 2022

The online Annual Alumni meet of IPNUAA (Alumni Association) was organized on January 29, 2022. Total 111 Alumni Members attended the online meet, and it was a matter of great pride that there were alumni representatives from almost all batches. Prof. Manjunath Ghate (President, IPNUAA) delivered the annual report of the Institute, and Dr. Dhaivat Parikh (Vice President, IPNUAA) enlightened about various activities conducted by Alumni Association. All HoD members and other Faculty Members shared their views and suggested that all stay connected for healthy alumni networking. Mr. Vicky Takhtani (Manager, Corporate Relations) requested alumni support in various placement and training activities. All alumni members were requested to share their experiences and views. Lastly, Dr. Nrupesh Patel (Secretary, IPNUAA) delivered the Vote of thanks. Overall, the Online IPNUAA meeting was a fruitful experience, whereby many alumni from abroad also joined for the event.

Pre-conference Workshop on Pharmacovigilance

Institute of Pharmacy, Nirma University organized a virtual preconference workshop on pharmacovigilance in collaboration with Indian Pharmacological Society as a part of 6th Nirma Institute of Pharmacy International conference (NIPiCON) and Indian Pharmacological Society (NIPiCON-IPS 2022) on February 16, 2022. The workshop provided an overview of pharmacovigilance in India and recent updates in the field of pharmacovigilance. Dr. Y. K. Gupta, President, AIIMS, Bhopal and President, AIIMS, Jammu Dr. Jai Prakash from IPC Ghaziabad, Dr. Subhadeep Sinha from Hetero Drugs, Hyderabad, Dr. Bikas Medhi and Dr. Ajay Prakash

from PGIMER, Chandigarh and Dr. B Dinesh Kumar, NIN, Hyderabad shared their insights related to translational pharmacovigilance, Nutraceutical pharmacovigilance, pharmacovigilance of biosimilars, ADR and Causality assessment. Dr. Shivprakash, President, IPS updated about the activities of Indian Pharmacological Society. Dr. Manjunath Ghate, Director, Institute of Pharmacy informed about the pharmacovigilance status in India. The workshop was attended by more than 187 delegates across India.

NIPiCON-IPS 2022



Institute of Pharmacy, Nirma University organized its flagship event 6th International e Conference (NIPiCON) jointly with Indian Pharmacological Society (IPS) as NIPiCON-IPS 2022 on the theme “Emerging Opportunities and Challenges in Pharmacology and Pharmaceutical Sciences for Drug Discovery and Healthcare Innovations” during February 17-19, 2022. Dr. Michael Spedding, Secretary General, International Union of Basic & Clinical Pharmacology (IUPHAR) President, Spedding Research Solutions SAS, France was the Chief Guest and Shri K.K. Patel, Vice President, Nirma University was the President of the Inaugural Function. Prof. Ingolf Cascorbi, President, International Union of Basic & Clinical Pharmacology (IUPHAR), Germany & Professor, Institute of Experimental and Clinical Pharmacology, UKSH, Germany was the Chief Guest and Prof. Y. K. Gupta, President, AIIMS, Bhopal & AIIMS Jammu & Former Dean, AIIMS Delhi was the Guest of Honour in the Valedictory Function. Dr. Anup Singh, Director General, Nirma University was the President of the function.

Eminent Expert Lecture series February-March 2022

Institute of Pharmacy, Nirma University organized Expert Lecture Series (NIPEELS) during the month of February and March 2022. The Nirma Institute of Pharmacy Eminent Expert Lecture Series (NIPEELS) is an initiative of Institute of Pharmacy, Nirma University, for giving a platform for interactions of Eminent Pharmacy Professional with the students. Under this Series of Expert Lecture, Institute of Pharmacy, Nirma University invited Eminent Speakers from Institutes of National and International repute to deliver the lecture of their expertise.

Ph. D. in Pharmaceutical sciences and M Pharm Programme in different disciplines:

No.	Project Title	Student Name	Guide/Co-guide
Ph. D in Pharmaceutical Sciences			
1	The impact of epilepsy on cognition: a bidirectional relationship	Sakshi Saini	Dr. Shital Panchal
2	Exploring role of hypoglycemic agents in Parkinson's disease	Ritu Mitesh Soni	Dr. Jigna Shah
3	Evaluation of degradation mechanism of pharmaceuticals using ionizing radiation	Manali Dilipbhai Patel	Dr. Priti Mehta
4	Design and development of Oral formulation using novel inhibitors for Lipid Management in patients with high Cardiovascular risk.	Mitali Laxmandas Paryani	Dr. Shital Butani
5	Discovery of Novel Dihydroorotate Dehydrogenase (hdhodh) inhibitors as Targeted Anticancer Agents	Pinky Gehlot	Dr. Vivek Kumar Vyas
6	Design, Synthesis, and Biological evaluation of Novel Plasmodium falciparum dihydroorotate dehydrogenase (pfdhodh) Inhibitors as New Antimalarial Agents	Manmohan Sharma	Prof. Manjunath Ghate
7	Development and Validation of Point of Care device for determination of vitamins and minerals	Raveena Omprakash Udhani	Dr. Charmi Kothari
8	Insights of molecular mechanism and investigation of therapeutic agents in treatment of diabetic wound	Aakash Kumar S	Dr. Snehal Patel
9	Exploring the role of GAD enzyme in the inhibition of the progression of stroke	Mansi Vinod Kumar Trivedi	Dr. Manjunath Ghate
10	Formulation and Evaluation of Electrospun Nanofiber for Cancer therapy	Anam Sami	Prof. Tejal Mehta
11	Design, Synthesis, and Anticancer Evaluation of Small-molecule Libraries obtained via reactions involve Green Approach	Vishal Kumar	Dr. Jignasa Savjani
12	Design, Synthesis, Characterization and In vitro and In vivo Evaluation of Novel Agents Implicated in Alzheimers disease	Rekha Pathak	Dr. Vivek Kumar Vyas
13	Design and development of stable formulation for treatment of posterior segment eye disease	Priyanka Bangar	Prof. Tejal Mehta
14	Usage of Artificial Intelligence and Machine Learning in Analytical Method Development	Jaha Miraj Sanjay	Dr. Charmi Kothari
15	Assessment of various Physicochemical Modifications related to Therapeutic Proteins	Saumitra Yogesh Gajjar	Dr. Charmi Kothari
16	Design and Development of Injectable Long Acting Formulation	Mangesh Kulkarni	Dr. Shital Butani
M. Pharm in Pharmaceutics			
1	Development and Optimization of Orally disintegrating Tablet by Multi-Unit Pellet system	Chanchlani Anushka Jitendra	Dr. Shital Butani
2	Formulation and Development of IR tablet of ARV (Anti-Retroviral) Drug product	Rathod Gaurav Prakashbhai	Dr. Mayur Patel
3	Formulation development and optimization of extended release oral solid dosage form of highly soluble anti-diabetic drug	Shetkar Gayatri Keshav Krutika	Dr. Mohit Shah
4	Development and Optimization of Oral Pediatric Suspension for Adjunctive Treatment of Epilepsy	Gadhavi Harshal Rajesh	Dr. Dhaivat C. Parikh

No.	Project Title	Student Name	Guide/Co-guide
5	To enhance the solubility of BCS class II drug-using Solid Dispersion.	Kanishk Joshi	Dr. Mayur Patel
6	Formulation development and evaluation of Microemulsion based serum containing Phytosphingosine in the treatment of Acne	Keshaben Bhadreshbhai Patel	Dr. Mayur Patel
7	Formulation and Optimisation of Dispersible tablet for the treatment Pulmonary Arterial Hypertension	Patel Keta Jitendra	Dr. Jigar Shah
8	Development and characterization of Telmisartan Immediate Release tablets.	Mathur Khushboo Shailendra	Dr. Tejal Mehta
9	Design, Development and Optimization of Anti-Cancer Drug formulation	Mishra Kunalkumar Sanjaykumar	Dr. Dhaivat C. Parikh
10	Design and Optimization of Prolonged Release Formulation using Hot Melt Granulation Technique For Anti Depressant	Patel Prutha Dipakkumar	Dr. Shital Butani
11	Development of Gamma Oryzanol formulation with improved bioavailability.	Bhor Sagar Savaleram	Dr. Shital Butani
12	QbD based development and evaluation of various approaches to enhance dissolution and bioavailability of low soluble ERA drug	Bhatt Smit Deepak	Dr. Jigar Shah
13	Development and Optimization of Anti-bacterial/ Corticosteroid Ophthalmic Suspension	Dhuri Sonika Sunil	Dr. Tejal Mehta
14	Design and Development of pH Sensitive In-situ ophthalmic gel	Joshi Shubham Ramakant	Dr. Tejal Mehta
M. Pharm In Pharmacology			
1	Pharmacological evaluation of hydroxychloroquine for treatment of Atopic Dermatitis	Thakkar Dhvani Jatin Priti	Dr. Jigna S Shah
2	Evaluation of Pharmacological Action of Aqueous Extract of Terminalia Chebula to Treat Pulmonary Fibrosis	Patel Disha Rajeshkumar	Dr. Jigna S Shah
3	Evaluation of effect of telmisartan in cardiac cachexia	Patel Drashti Rohitkumar	Dr. Bhoomika M Patel
4	Neuroprotective effect of Taxifolin against Experimental model of Alzheimer's Disease	Chauhan Heena Babubhai	Dr. Bhagawati Saxena
5	Evaluation of effect of Novel Metallic Complex of Curcumin in Leaky Gut Syndrome	Kachhadiya Honey Pravinbhai	Dr. Shital Panchal
6	Role of Tyrosine kinase inhibitors in diabetic cardiomyopathy.	Tulsiyani Khushboo Narayandas	Dr. Snehal Patel
7	To evaluate protective effect of phycocyanin against acute pancreatitis	Parekh Nandeeni Udaybhai	Dr. Shital Panchal
8	Evaluation of plant derived polyphenolic pigment effect in neurodegeneration.	Shah Nidhiben Tusharkumar	Dr. Shital Panchal
9	Pharmacological evaluation of Anti-inflammatory agent on Traumatic brain Injury.	Bhavsar Nikhil Chetanbhai	Dr. Bhagawati Saxena
10	Pharmacological evaluation of natural drug in multiple sclerosis.	Patel Rujul Pranav	Dr. Jigna Shah
11	Exploration of α-Glucosidase Inhibitors for the treatment of Diabetes associated Breast Cancers	Srashti Verma	Dr. Snehal Patel
12	Study of psychological implications of Covid-19 among students	Makwana Surbhi Dipakbhai	Dr. Bhoomika M Patel

STUDENTS' RESEARCH

No.	Project Title	Student Name	Guide/Co-guide
M. Pharm In Pharmaceutical Analysis			
1	Impurity profiling of Sac Val complex using LCMS compatible analytical method.	Anshika Suhane	Dr. Priti Mehta
2	Development and validation of stability indicating RP-HPLC method for quantification of Baclofen and its related substance in tablet dosage form	Patel Avani Bhagavanajibhai	Dr. Niyati Acharya
3	Analytical method development and validation for impurity profiling of Sunpeptide and it's characterization by LC-MS	Gatlewar Bhagwati Devidas	Dr. Nrupesh Patel
4	Method development and qualification of Host Cell Protein impurities in SunmAb by ELISA	Ghodke Dhanashri Ramesh	Dr. Priti Mehta
5	Development and validation of stability indicating RP-HPLC method for simultaneous quantification of Vildagliptin and Metformin Hydrochloride in their bulk dosage form.	Desai Kashish Jayeshkumar	Dr. Jignasa Savjani
6	Development and validation of stability indicating Green RP-HPLC and HPTLC methods for simultaneous estimation of Irbesartan and Hydrochlorothiazide	Bhinde Khyati Hitendra	Dr. Hardik Bhatt
7	Analytical Method Validation for related substances of S (-) Pantoprazol in S (-) Pantoprazol Sodium tablets 20mg by HPLC	Manali Dave	Dr. Manjunath Ghate
8	Development of LFIA based Sandwich ELISA method for detection of Aflatoxin	Patel Nipa Daxeshbhai	Dr. Charmy Kothari
9	Development And Validation of Stability Indicating HPLC Method For Estimation of Diroximel Fumarate.	Shah Shikha Samirkumar	Dr. Charmy Kothari
10	Development and validation of analytical method for estimation of aspirin and dipyridamole in their fixed combine dosage form	Patel Vishwa Sanjaybhai	Dr. Niyati Acharya
11	Implementation of QbD approach to the Analytical Method Development and Validation for the Assay of Drug A	Makwana Isha Girishchandra	Dr. Hardik Bhatt
M. Pharm In Regulatory Affairs			
1	Post-approval management of an ANDA approved drug product	Aakash Bhardwaj	Dr. Charmy Kothari
2	Regulatory requirements and comparative study of corticosteroid drug in ASEAN and GCC countries	Patel Aashil Dipakbhai	Dr. Nrupesh Patel
3	Regulatory Submission Of Generic Drug in Australia Under Category One & It's Comparison with Canada.	Patel Asaka Alpeshkumar	Dr. Niyati Acharya
4	Study on Impact of BREXIT for Drug Product Registration	Ashish Prakash Mane	Dr. Dhaivat C. Parikh
5	Regulatory requirments and life cycle managment of parentral product in ASEAN countries.	Joshi Khyatiben Dipakkumar	Dr. Nagja Tripathi
6	Regulatory requirements of Solid Oral Dosage form in US, EU AND India	Thaker Mauli Prafulbhai	Dr. Hardik Bhatt
7	Regulatory submission requirements for manufacturing of parenteral products in china	Jadav Meet Valjibhai	Dr. Priti J Mehta
8	Regulatory Framework and understanding of marketing authorization of drug device combination products in the US region	Pooja Yogesh Pathak	Dr Dipal Gandhi
9	ANDA Approval Process of Transdermal Drug Delivery System	Shubham Jitendra Bhamare	Dr. Jigna Shah

STUDENTS' CORNER

Ph.D. awarded:

Following students received Ph.D. degree during the Twenty Ninth Convocation of Nirma University held on March 20, 2021.			
No.	Name of Student	Project Title	Name of Guide
1	Upadhyay Jagatkumar Rajendrakumar	Design, Synthesis & Biological Evaluation of Heterocycles Targeting DPP-4 for Management of Type 2 Diabetes	Dr. Anuradha Gajjar
2	Khatri Hirenkumar Natvarlal	Formulation and Evaluation of Ligand Appended Lipid Nanoparticulate Systems for Oral Delivery of Anti-Cancer Agents	Dr. Mayur M. Patel
3	Prajapat Manali Dhanraj	Design and Development of Drug Delivery Systems for Solubility Enhancement of Nimodipine	Dr. Shital Butani
4	Nimitt Virenbhai Chokshi	Formulation, Development and Characterization of Targeted Nano Drug Delivery Systems for the Treatment of Tuberculosis	Dr. Mayur M. Patel
5	Nitin Dwivedi	Development and Evaluation of Donepezil Loaded PEGylated Dendrimers for the Treatment of Alzheimer's Disease	Dr. Jigna Shah
6	Rajput Amarjitsing Premsinh	Development of Nasal Lipidic Nanocarrier Systems for Treatment of Alzheimer's Disease	Dr. Shital Butani
7	Patel Misari Dhruv	Bio-Analytical Method for the Combination of Lipid-Lowering and Anti- Hypertensive Agents	Dr. Charmy Kothari
8	Tejal Rawal	Formulation Development of Lung Targeted Drug Delivery System for Treatment of Tuberculosis	Dr. Shital Butani
9	Viral Arvindbhai Patel	Design and Development of Topical Nanoformulations for the Treatment of Fungal Diseases	Dr. Tejal Mehta
10	Bhayani Dhara Rajeshbhai	Effects of Ionizing Radiations on Stability of Selected Drugs and Their Formulations	Dr. Priti Mehta
Following students received Ph.D. degree during the Thirtieth Convocation of Nirma University held on December 17, 2021			
No.	Name of Student	Project Title	Name of Guide
1	Prajapati Pintu Babubhai	Development of Stability Indicating Assay Method and Degradation Studies of Selected Drugs Targeting Cardiovascular and Kidney Disorders	Dr. Priti Mehta
2	Desai Priteshkumar Rashmikan	Impurity Profiling and Degradation Behaviour of Drugs Active Against Cardiovascular Disorders	Dr. Priti Mehta
3	Chivate Amit Ashok Vrushali	Design and Study of Drug Delivery of Poorly Water Soluble Drugs with Improved Pharmacokinetics	Dr. Tejal Mehta
4	Agrawal Milan Bharatbhai	Formulation, Characterization and Optimization of Transdermal Drug Delivery Systems for the Treatment of Schizophrenia	Dr. Mayur M. Patel
5	Shah Parth Dilipkumar	Design, Development & Optimization of Novel Anti-Acne Formulations of Dapsone	Dr. Niyati S. Acharya
6	Prashik Bhimrao Dudhe	Design, Synthesis and Biological Evaluation of Novel Antitubercular Agents	Dr. Hardik Bhatt
7	Vaibhavgumar Baldevbhai Patel	Phytopharmacological Evaluation of Antiuro lithiatic Activity of Grewia Flavescens und Macrotyloma Uniflorum	Dr. Niyati S. Acharya
8	Parmar Mrugank Bhaskarkumar	Repositioning Opportunities for Antidiabetic and Cardiovascular Drugs with Reference To Pharmacovigilance	Dr. Shital Panchal
9	Patel Pareshkumar Kanubhai	Design, Synthesis and Biological Evaluation of Triazine Derivatives as Anti-HIV Agents	Dr. Hardik Bhatt
10	Parikh Palakben Kirtikumar	Design, Synthesis and Biological Evaluation of Heterocyclic Compounds As Anticancer Agents	Dr. Manjunath Ghate
11	Chintan Pansara	Design and Development of Wound Healing Dosage Forms	Dr. Renuka D. Mishra
12	Rawal Shruti Udaykumar	Design, Development and Characterization of Nanoparticulate Drug Delivery Systems for Targeted Delivery of Anticancer Agents	Dr. Mayur M. Patel

STUDENTS' CORNER

13	Patel Mansi Jitesh	Evaluation of Radioprotective Potential of Selected Indian Bamboo Leaves	Dr. Priti Mehta
14	Chetan Dhal	Novel Formulation Strategies for the Treatment of Surgical Site Infections	Dr. Renuka D. Mishra
15	Dhas Namdev Laxmanrao	Development and Characterization of Core Shell 161Nanoparticles for the Treatment of Alzheimer's Disease Using Non-Invasive Approach.	Dr. Tejal Mehta
16	Sitwala Nikum Drigeshbhai	Liquid Phase Combinatorial Synthesis of Novel Benzimidazole Derivatives as Antitubercular Agents	Dr. Manjunath Ghate
17	Gediya Piyushbhai Arvindbhai	Design, Synthesis and Biological Evaluation of Small Molecules Targeting Histone Deacetylase (HDAC) as Anti-Cancer Agents	Dr. Manjunath Ghate
18	Chavda Vishal Kishanbhai	Investigation of Anti-Diabetic Agents in Hyperglycemic Brain Insult and Associated Cognitive Decline	Dr. Snehal Patel
19	Parekh Khushali Sudhirbhai	Development of Topical Nano Formulations for the Treatment of Atopic Dermatitis	Dr. Tejal Mehta

Teacher's Day 2021

Teacher's day was celebrated on September 4, 2021 (Saturday) through online mode. Students have actively participated by conducting academic sessions of B Pharm and M Pharm students in morning and had wonderful experience. In the second half, the B Pharm Semester VII students conducted a programme for faculties. They also felicitated the faculties and organized some interesting games for faculties like Pehchano Kaun, Guess the faculty, Sa re ga ma IPNU, Drug Enigma, Funtastic Filmy Quiz, Riddles, Debate etc.

World Pharmacists Day 2021

As part of celebration of World Pharmacists Day on September 25, 2021, Institute of Pharmacy, Nirma University organized an online lecture for the tenth and twelfth (Science and Mathematics stream) class students of Nirma Vidyavihar School Chharodi campus on a topic of "Pharmacy Education and Its Scope". The lecture was delivered by Prof. Manjunath Ghate, Director, Institute of Pharmacy, Nirma University, Ahmedabad.

Students' Achievement:

Mr. Bharat Patel (16FTPHDP48), Full time PhD student secured first rank in the e-presentation competition on the topic "Exploring Novel Design and Evaluation of Mechanical Pressurize Implantable Pump using 3D Printing Technology" in the International e-conference on "Revolutionary Applications of 3D- Printing Technology in Pharma and Healthcare System" organized by Arihant School of Pharmacy and Bio- Research Institute, Gandhinagar on August 12-13, 2021.

Mr. Kartik Hariharan (18FTPHDP053), Full time PhD student secured second position in oral presentation competition (PhD category) in 2nd Student Research Congress organized by Shri Vile Parle Kelavani Mandal's Dr. Bhanuben Nanavati

College of Pharmacy, Vile Parle (W), Mumbai, India and Co-hosted by University of Mumbai, held online on September 28-30, 2021.

Ms. Monika Rani (19FTPHDP58), Full time PhD student secured second runner up position from west zone in the National level conference, "Dissolution Research Presentation India-2021 - Online" organized by Society of Pharmaceutical Dissolution Science (SPDS) in association with American Association of Pharmaceutical Scientist (AAPS) and Association of Pharmaceutical Teachers of India (APTI) held online on July 17, 2021.

Ms. Nikita Gupta (20FTPHDP69), a Full-time PhD student awarded a certificate of recognition in appreciation of her oral presentation entitled "Current Approaches and Emerging Novel Therapies for Idiopathic Pulmonary Fibrosis (IPF)". She received the Best Oral Presentation award in Modern Healthcare Challenges track in 6th Nirma Institute of Pharmacy, International Conference jointly organized with Indian Pharmacological Society held during February 17-19, 2022.

Mr. Kartik Tulsian (20BPH053), B Pharm second year student secured first rank in the state level competition "E-Pratibha 2021" organized online by PHARMAGUPSHUP SCHOLAR-Gujarat Forum of Pharmacy Students on September 26, 2021.

Mr. Atul Garkal (19FTPHDP055), Full time PhD student awarded a certificate of recognition in appreciation of his research entitled "Design and Development of Long-Acting Injectable Devices of Anti-VEGF Agent in Treatment of Age-Related Macular Degeneration" for Oral presentation in the 3rd National Biomedical Research Competition held virtually from December 6-10, 2021 organized by Society of Young Biomedical Scientists, India.

Ms. Kanchan Lohana (21MPH309), M Pharm Sem-I student secured second position in the SCOPE state level debate competition organized by SCOPE- A Gujarat Government Initiative held on December 18, 2021.

STUDENTS' CORNER

Best Scholastic Performance

Institute of Pharmacy, Nirma University felicitated the students with gold medals for their scholastic performance during the respective years on the occasion of Foundation Day on October 1, 2021.

Programme and Year	Name of the student
B Pharm First year	Ms. Sonali Maheshwari
B Pharm Second year	Ms. Aarti Patel
B Pharm Third year	Ms. Hetavi Patel
M Pharm First year	Ms. Prutha Patel

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

Award	Awardee Name	Award Text
Best Researcher	Shruti Rawal	Best Research Scholar of the Year
NSS	Dirgav Patel	Best NSS Volunteer of the Year
NSS	Dhruvee Patel	Meritorious Service and Participation During NSS Activities
NCC	Shivani Naik	Best NCC Cadet of the Year
Sports person	Nemi Kaneriya	Best Sportsperson of the Year
Best Student	Rutvi Vaishnani	Best Student of the Year

Alumni Felicitation for their outstanding achievement

Name of Alumni	Current Professional Status
Anand Arjun Odedra	Associate Director, SOA (Multichannel Marketing) - Eli Lilly, Gurugram, Haryana, India
Garvi Solanki	Product Manager at Bioclinica (USA) and Active Pharmacist License of U.K., New Jersey, USA
Heta Desai	Scientist I at Pace Life Sciences, Boston, Massachusetts, USA
Kaushal Himanshukumar Bhatt	Integrated Insights Manager- Novartis, Hyderabad
Ruchi Yashavantgiri Goswami	PhD student, Max Planck Institute for the Science of Light, Erlangen, Bavaria, Germany
Vinus Ashokbhai Patel	Senior Product Manager - Cipla Respiratory Mumbai, Mumbai, Maharashtra
Kushal Patel	Director - Daffodil Group, Ahmedabad
Mahek Vipulkumar Shah	Drug Inspector, Office of Asst. Commissioner, Food & Drug Control Administration, Ahmedabad Zone-1, Gov. of Gujarat, Ahmedabad
Deesha Gandhi	Pharmacist- Terrywhite Chemmart Wembley Downs, WA, Australia
Ghanshyam Natubhai Thummar	Drug Inspector, Bhavnagar



FACULTY CORNER

Faculty achievement

Dr Priti Mehta was appointed as “Nirma Limited Chair professor in Pharmacy” in December 2021 for next three years. She is conferred with a chair position to do more sponsored research projects and publications.

Dr. Mayur Patel, Dr. Snehal Patel and **Dr. Bhoomika Patel** were recognised as one of the top 2% scientists in the world published by Stanford University

Dr. Bhoomika Patel received APP outstanding oration 2021 in memory of Late Prof. M. D. Kharya for best oral presentation at 10th Annual Virtual International Convention of Association of Pharmacy Professional organized by Vels University (VISTAS) held during December 10-11, 2021

Non- Teaching Staff Achievement

Ms. Kinjal Parekh (Library Assistant) Successfully Completed M Phil with Distinction from Gujarat University

Research and Development

Major Projects Received

Dr. Shital Panchal received a Major Research project as Principal Investigator entitled, Safety evaluation of novel curcumin complex, worth \$ 35,375 from Probiotic Smart LLC, USA.

Dr. Shital Panchal received a Major Research project as Principal Investigator and **Dr. Shital Butani, and Dr. Charmy Kothari** are the co-investigators in the project entitled, Bioavailability enhancement through a novel formulation of Gamma-oryzanol, worth Rs. 11,80,000/- from AP Organics Ltd., Punjab.

Dr. Bhoomika M. Patel received Major Research project as co-investigator entitled “Evaluating oral cancer lesions using quantitative ultrasound and elasticity imaging” worth Rs. 26,80,080/- for the duration of three years (2021-2024) from Gujarat State Biotechnology Mission (GSBTM) and the PI is Dr. Karla Mercado Shekhar from IIT, Gandhinagar.

Dr. Jigna Shah received Major research project grant as Co-investigator entitled “Repositioning Doxycycline as Anti-Cancer Therapy and Exploring its Synergy with extracellular ATP manipulation in Breast Cancer: Pre-Clinical and Early Clinical Exploration” worth 53,35,896/- from Gujarat State Biotechnology Mission (GSBTM). PI is Dr. Reena Rajput, IAR, Gandhinagar and Coinvestigator is Dr. Heena Dave, ISNU.

Dr. Hardik Bhatt as Principal Investigator and **Dr. Vivek Vyas & Dr. Bhumika Patel** as co-Investigators received a Major Research Project grant entitled “Exploring Heterocyclic

Scaffolds as Telomerase Inhibitors for the Treatment of Cancer” worth Rs. 30 Lakh from Nirma University, Ahmedabad, India.

Dr. Snehal Patel as Principal Investigator and **Prof. Manjunath Ghate & Dr. Palak Parikh** as co-Investigators received a Major Research Project grant entitled “Development of a novel synthetic derivative for the treatment of diabetes taking tyrosine kinase inhibitors as a lead” worth Rs. 46,32,410 Lakhs from Department of Health Research, ICMR, New Delhi.

Minor Projects Received

Dr. Snehal Patel Received Minor Research Project entitled “Pharmacological evaluation of Olsalazine in the treatment of breast cancer: Understanding molecular pathways and associated mechanisms. worth Rs. 1,00,000/- from Nirma University

Dr. Mohit Shah and **Dr. Dhaivat Parikh** Received Minor Research Project entitled “Development and Optimization of Multi-Particulate System for Nasal Drug Delivery” worth Rs. 1,00,000/- from Nirma University

Consultancy Received

Dr. Shital Panchal and **Dr. Charmy Kothari** are working on a project entitled, Bioavailability of the novel curcumin complex, for worth \$ 1348 from Probiotic Smart LLC, USA.

Dr. Shital Butani and **Dr. Tejal Mehta** are developing Nasal and oral spray formulation for Strassenburg Pharmaceuticals Ltd., Kolkata and Consultancy amount for development is 11,80,000/-

Expert Lecture Delivered by Faculty

Prof. Manjunath Ghate was invited as Special Guest and Expert Speaker during the PRABODH (Promoting Research Awareness in Biotechnology for Development of Human Resources) event at GBRC (Gujarat Biotechnology Research Centre), DST-Govt. of Gujarat, Gandhinagar on November 20, 2021.

Prof. Manjunath Ghate was also invited as a Resource person from Dibrugarh University for one day conclave on Pharmaceutical and Technology Innovations on December 10, 2021. He was invited to visit RIWATCH (Research Institute of World’s Ancient Traditions, Cultures and Heritage) to discuss the possible collaboration with Institute of Pharmacy, Nirma Univesity and to sign MOU with RIWATCH.

Prof. Priti Mehta delivered an invited talk entitled, ‘Importance of Drug stability evaluation flown to space’, at

Pharmaspac online congress organized by Greek Pharmaceutical Student Federation, Athens, Greece on May 8, 2021.

Dr. Hardik Bhatt delivered a lecture entitled Ideation to Execution of a Research Project: A Case Study at “National Science Day Celebration” organised by Intas Pharmaceuticals Ltd., Ahmedabad, India on March 1, 2021. He also delivered a lecture entitled Understanding and Use of Multiple Drug Design Techniques in Drug Discovery at AICTE sponsored STC-2: Advances in Pharmaceutical Research organised by QIP (Pharmacy) Center, Department of Pharmaceutical Technology, Jadavpur University, Kolkata on September 8, 2021.

Dr. Niyati Acharya delivered an expert talk on “Functional Foods: Health Benefits and Market Trends” in GUJCOST sponsored Online National Seminar on “Nutraceuticals in Disease Prevention & Treatment: Formulations and Clinical Perspectives”, organized by School of Pharmacy, Parul University on September 11, 2021. She also delivered guest lecture entitled “Regulatory challenges in herbal drugs and nutraceuticals” in One Day Conclave on “Challenges & Innovations in Pharmaceutical and Engineering Technologies” at Dibrugarh University Assam on December 10, 2021.

Dr. Bhagawati Saxena delivered e-invited lecture on “TLR4-Mediated Neuroinflammatory responses in traumatic brain injuries: potential mechanisms and therapeutic opportunities” in IAN International E-Conference XXXIX Annual Meeting of Indian Academy of Neurosciences on theme of “Neuro-glia in Health and Disease” jointly organized by Indian Institute of Science Education and Research-Kolkata, Mohanpur, CSIR-Indian Institute of Chemical Biology, Kolkata, and School of Sciences, Netaji Subhas Open University, Kolkata, West Bengal, India held between December 16 to 19, 2021.



FACULTY CORNER

Faculty Felicitation during foundation day

Prof. Tejal Mehta felicitated for the Patent [IN346886] granted by Indian Patent Office Writing as well as publishing Chapters in the Books Published by Elsevier and Springer Group.

Prof. Priti Mehta felicitated for the Patent [IN358754] Granted by Indian Patent Office

Dr. Shital Butani felicitated for Receiving Highest Consultancy from Industry

Dr. Shital Panchal felicitated for Receiving Research Project from AP Organics Ltd., Dhuri, Punjab

Dr. Jigar Shah felicitated for Publishing Research Article in the Journal with Highest Impact Factor as well as for Publishing Highest Number of Articles as Corresponding / First Author in the Scopus Journals

Dr. Jignasa Savjani for the Patent [IN347090] Granted by Indian Patent Office

Dr. Mohit Shah felicitated for the Patent [IN346886] Granted by Indian Patent Office as well as a Special Recognition for his Performance in Institute Activities especially NSS Activities

Staff Felicitation

Mr. Virendrakumar Goswami and **Mr. Hasmukh Rathod** were facilitated as a Special Recognition for their performance in Institute Activities

PUBLICATIONS

List of Publications in reputed journals with impact factor greater than 2:

Nimitt V. Chokshi, Shruti Rawal, Dhruvi Solanki, Saumitra Gajjar, Vivek Bora, **Bhoomika M. Patel, Mayur M. Patel.** Fabrication and Characterization of Surface Engineered Rifampicin Loaded Lipid Nanoparticulate Systems for the potential Treatment of Tuberculosis: An In vitro and In vivo Evaluation. Journal of Pharmaceutical Sciences, 2021, 110 (5): 2221–32. (IF: 3.534).

Abu Sufiyan Chhipa, **Snehal Patel.** Targeting pyruvate kinase muscle isoform 2 (PKM2) in cancer: What do we know so far? Life Sciences, 2021, 280, 119694. (IF: 5.037).

Rashmi Rajput, Vishal Chavda , **Snehal S Patel,** George E Barreto, Ghulam Md Ashraf. Efonidipine Exerts Cerebroprotective Effect by Down-regulation of TGF- β /SMAD-2-Dependent Signaling Pathway in Diabetic Rats. J Mol Neurosci, 2021, 71(9):1884-96. (IF: 2.267).

Shruti Rawal, **Mayur Patel.** Bio-Nanocarriers for Lung Cancer Management: Befriending the Barriers. Nano-Micro Letters, 2021, 13, 142. (IF: 16.419).

Vikas Rathore, Divyesh Patel, Niyati Shah, **Shital Butani,** Harikrishna Pansuriya & Sudhir Kumar Nema, Inactivation of Candida albicans and Lemon (Citrus limon) Spoilage Fungi Using Plasma Activated Water. Plasma Chemistry and Plasma Processing, 2021, 41, 1397–414. (IF: 3.13).

Vikas Rathore, Divyesh Patel, **Shital Butani,** Sudhir Kumar Nema. Investigation of Physicochemical Properties of Plasma Activated Water and its Bactericidal Efficacy. Plasma Chemistry and Plasma Processing, 2021, 41, 871–902. (IF: 3.13).

Mital Patel, **Charmy Kothari.** A Comprehensive Stability Study of Vardenafil Using Quality by Design Approach, Chromatographia, 2021, 84(8), 2021: 751-67. (IF: 2.004).

Ruju Vashi, **Bhoomika M. Patel.** NRF2 in Cardiovascular Diseases: a Ray of Hope! Journal of Cardiovascular Translational Research, 2021, 14(3): 573-86. (IF: 4.132).

Bhoomika M Patel, Supriya Sharma, Nisha Nair, Jaseela Majeed, Ramesh K. Goyal, Mahaveer Dhobi. Therapeutic opportunities of edible antiviral plants for COVID-19. Molecular and Cellular Biochemistry, 2021, 476 (6): 2345–64. (IF: 3.282).

Vivek Bora, **Bhoomika M. Patel.** Investigation into the role of anti-diabetic agents in cachexia associated with metastatic cancer. Life Sciences, 2021, 274: 119329. (IF: 5.037).

Nimitt V. Chokshi, Shruti Rawal, Dhruvi Solanki, Saumitra Gajjar, Vivek Bora, **Bhoomika M. Patel,** Mayur M. Patel. Fabrication and Characterization of Surface Engineered

Rifampicin Loaded Lipid Nanoparticulate Systems for the Potential Treatment of Tuberculosis: An In vitro and In vivo Evaluation. Journal of Pharmaceutical Sciences, 2021, 110 (5): 2221-32. (IF: 3.534).

Vishnu N. Thakare, Sameer H. Lakade, Moreshwar P. Mahajan, Yogesh P. Kulkarni, Valmik D. Dhakane, Minal T. Harde, **Bhoomika M. Patel.** Protocatechuic acid attenuates chronic unpredictable mild stress induced-behavioral and biochemical alterations in mice. European Journal of Pharmacology, 2021, 898: 173992. (IF: 4.432).

Vivek Bora, **Bhoomika M. Patel.** The Deadly Duo of COVID-19 and Cancer! Frontiers in Molecular Biosciences, 2021, 8: 643004. (IF: 5.246).

Ruju Vashi, **Bhoomika M. Patel,** Ramesh K. Goyal. Keeping abreast about ashwagandha in breast cancer. Journal of Ethanopharmacology, 2021, 269: 113759. (IF: 4.36).

Ruju Vashi, **Bhoomika M. Patel.** Roles of ARF tumour suppressor protein in lung cancer: time to hit the nail on the head! Molecular and Cellular Biochemistry, 2021, 476 (3): 1365-75. (IF: 3.282).

Pankti Patel, **Jigna Shah.** Protective effects of hesperidin through attenuation of Ki67 expression against DMBA-induced breast cancer in female rats. Life Sciences, 2021, 285, 119957. (IF: 5.03).

Vandit Shah, Sandip Patel, **Jigna Shah.** Emerging role of Piezo ion channels in cardiovascular development. Developmental dynamics: an official publication of the American Association of Anatomists (2022) , 251(2), 276–86. (IF: 3.78).

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Chirag C Mehta, **Hardik G Bhatt,** Tankyrase inhibitors as antitumor agents: a patent update (2013 - 2020). Expert Opinion on Therapeutic Patent, 2021, 31, 645-61. (IF: 6.674).

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