PLACEMENT BROCHURE - 2016

अहमदाबाद
AHMEDABAD

NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH, AHMEDABAD

www.nipergn.ac.in

ABOUT NIPER AHMEDABAD

The National Institute of Pharmaceutical Education and Research (NIPER) has been established under the aegis of Ministry of chemicals and fertilizers, Government of India, Dept. of Pharmaceuticals, as a centre of excellence in imparting higher education, research and development in pharmaceutical sciences and is first of its kind in the country. The Institute was declared as an Institute of National importance by Government of India through an Act of Parliament, notified on 26th June 1998. The institute is a member of Association of Indian Universities and Association of Commonwealth Universities.

MISSION

- To ensure that departmental and administrative associates are provided with necessary resources to excel in learning, research, teaching and administration
- To establish National Centre of Medical Devices (NCMD) to contributing in medical technology education through collaborative programmes of mutual interest
- To evolve medical technology clusters with common facilities for creating an ecosystem for the benefit of SME's focusing on medical technology
- Development of human resources by skill up-gradation of students through specialized courses and training
- To encourage students for innovative translational research through interdisciplinary research team
- To promote national and international collaboration with Pharmaceutical Industries, Medical Centers and Universities
- To facilitate international student and faculty exchange programmes to enhance the diversity on the campus
- To organize International and National conferences and structured workshops for the benefit of students and professionals

Name of the Department	No. of Students
Department of Biotechnology	05
Department of Medicinal Chemistry	03
Department of Medical Devices	05
Department of Natural Products	03
Department of Pharmaceutical Analysis	05
Department of Pharmaceutics	07
Department of Pharmacology and Toxicology	04

NIPER-A BATCH 2014-16

DEPARTMENT OF BIOTECHNOLOGY

DEPARTMENTAL EXPERTISE

Research Activities

Generation of induced Pluripotent Stem Cells (iPSCs) using nonviral methods and its re-differentiation

Pharmacogenetics studies and population based genome analyses like genomic alteration in oral cancer,diabetes,tuberculosis,etc

Proteomics and genomics biomarker for diabetes, etc and its secondary complications

Cancer research, including targeted drug delivery to cancerous cells using nanoparticles, to overcome chemoresistance and prevention of relapse by Cancer Stem Cells (CSCs) re-differentiation

Expression of therapeutic protein through various expression systems, including bacterial, plants and mammalian cells

Plant Tissue Culture and identification of molecular markers.

Development of novel vaccine against infectious diseases Gene silencing through siRNA and shRNA

DHARA TAILOR

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 7.85 (up to 2nd sem)
B. Pharm	2014	L. M. College of Pharmacy-	Gujarat Technological University	7.72

DISSERTATION

Title : "Design of New Immunogenic Epitopes against *Salmonella Typhi* "

Description : Typhoid is caused by enteric pathogen *salmonella* enterica serovar *typhi*, responsible for 2 million deaths annually in the developing countries. Due to emergence of multi-drug resistance strains, vaccine is required to be developed. Recent advancement in immunoinformatics can assist in designing efficient vaccine rationally. In present study different immunoinformatic tools were employed sequentially for the development of computer aided epitope based vaccine design. To identify epitopes capable of evoking cellular and humoral immune responses, B cell and T cell epitopes were predicted using various softwares. Epitopes were generated by applying cascade of predictive algorithms need to be experimentally validated to develop potent epitope based vaccine.

Achievements :

- Qualified GPAT - 2014 with **AIR 3210** and NIPER - JEE 2014 with **AIR 324**

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ABHISHEK PANCHANI

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 8.05 (up to 2nd sem)
B. Pharm	2014	L. M. College of Pharmacy-Ahmedabad	Gujarat Technological University	8.07

DISSERTATION

Title : "Genomic Variation in Vascular Endothelial Growth Factor (VEGF) and its Association With Diabetic Retinopathy In Indian Population "

Description : : Diabetic retinopathy (DR) is characterized by retinal neovascularization and macular edema. Apart from various factors genetic variations play a significant role in its development. Such genetic variations have been studied in genes like VEGF, RAGE, aldose reductase, neuropeptide Y and nitric oxide synthase. Among these, VEGF being a key mediator of angiogenesis, it is the primary factor involved in impaired neovascularization of diabetic retinopathy. Previous studies have shown polymorphisms in the promoter and 5'-UTR regions of VEGF gene that are associated with diabetic retinopathy significantly. The present study is aimed to examine the genetic variations in the exons of the VEGF gene associated with diabetic retinopathy.

Achievements :

- Qualified GPAT -2014 with **AIR 797** and NIPER - JEE 2014 with **AIR 121**

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MAITRAY BALMUKUND RAVAL

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 8.71 (up to 2nd sem)
B. Pharm	2014	Maliba Pharmacy College–Bardoli	Gujarat Technological University	8.01

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DISSERTATION

Title : "Production of Islet-Like Insulin-Producing Cell Clusters *In Vitro* From Induced Pluripotent Stem Cells"

Description : Type 1 diabetes mellitus (T1DM) is a chronic disease that involves the progressive destruction of pancreatic β-cells, resulting in the loss of insulin production and secretion. The regenerative potential of stem cells can provide self-replenishing supply of glucose-responsive insulin-producing cells moreover their immunomodulatory properties may potentially be used to reverse autoimmunity . Our objective is to convert somatic cells into induced pluripotent stem cells (iPSCs) by non -viral minicircle DNA vector furthermore, derived iPSCs will be differentiated into insulin producing islet like clusters (ILCs) which may possess the characteristics of mature pancreatic β-cells. These differentiated cells may serve promising source of cell based therapy for diabetes.

Achievements :

- Qualified GPAT - 2014 with **AIR 539** and NIPER - JEE 2014 with **AIR 148**

AKIL M. MANSURI

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 7.73 (up to 2nd sem)
B. Pharm	2014	A. R College of Pharmacy	Gujarat Technological University	7.68

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DISSERTATION

Title : "Induced Pluripotent Stem Cells : A New Paradigm for Disease Modeling And Developing Therapies for Ocular Degenerative Diseases "

Description : Ocular degenerative diseases, including age -related macular degeneration and retinitis Pigmentosa are the prominent causes of human blindness in the world. The mechanism of these diseases is still not understood and no radical drugs are available. Our work focuses on the reprogramming the HEK293 somatic cells into induced pluripotent stem cells which are embryonic stem like cells with the property of pluripotency through the expression of exogenous transcription factor by using minicircle plasmid. Also focuses on de-differentiation of minicircle derived iPSCs into retinal pigmented epithelium cells, and validate them through various markers at progenitor and terminally differentiation.

Achievements :

- Qualified GPAT -2014 with **AIR 1766** and NIPER - JEE 2014 with **AIR 610**

MAHESH SARJERAO THORAT

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 6.47 (up to 2nd sem)
B. Pharm	2014	Dr.D.Y.Patil. College Of Pharmacy,	Pune University	61%

DISSERTATION

Title: "Mutational landscape of Glutathione S-transferase mu-1 gene in tobacco addicted an Indian OSCC cohort"

Description : India is one of the developing countries where the risk of OSCC is increased by very prevalent habits of chewing tobacco, betel quid or Areca nut. Glutathione S transferases mu1 gene is involved in detoxification of tobacco related carcinogens such as epoxides and hydroxylated metabolites of benzo[a]pyrene. Mutation in GSTM1 gene can lead to oral cancer. Various ethnicities have reported association of Gstm1 with tobacco addicted OSCC patients, We aim to analyse the mutational spectrum of the Gstm1 gene in tobacco addicted advanced staged OSCC primary Indian tumors by next generation sequencing and find SNP which can be used as biomarker for drug treatment.

Achievements :

- Qualified GPAT - 2014 with **AIR 2223** and NIPER - JEE with **AIR 947**

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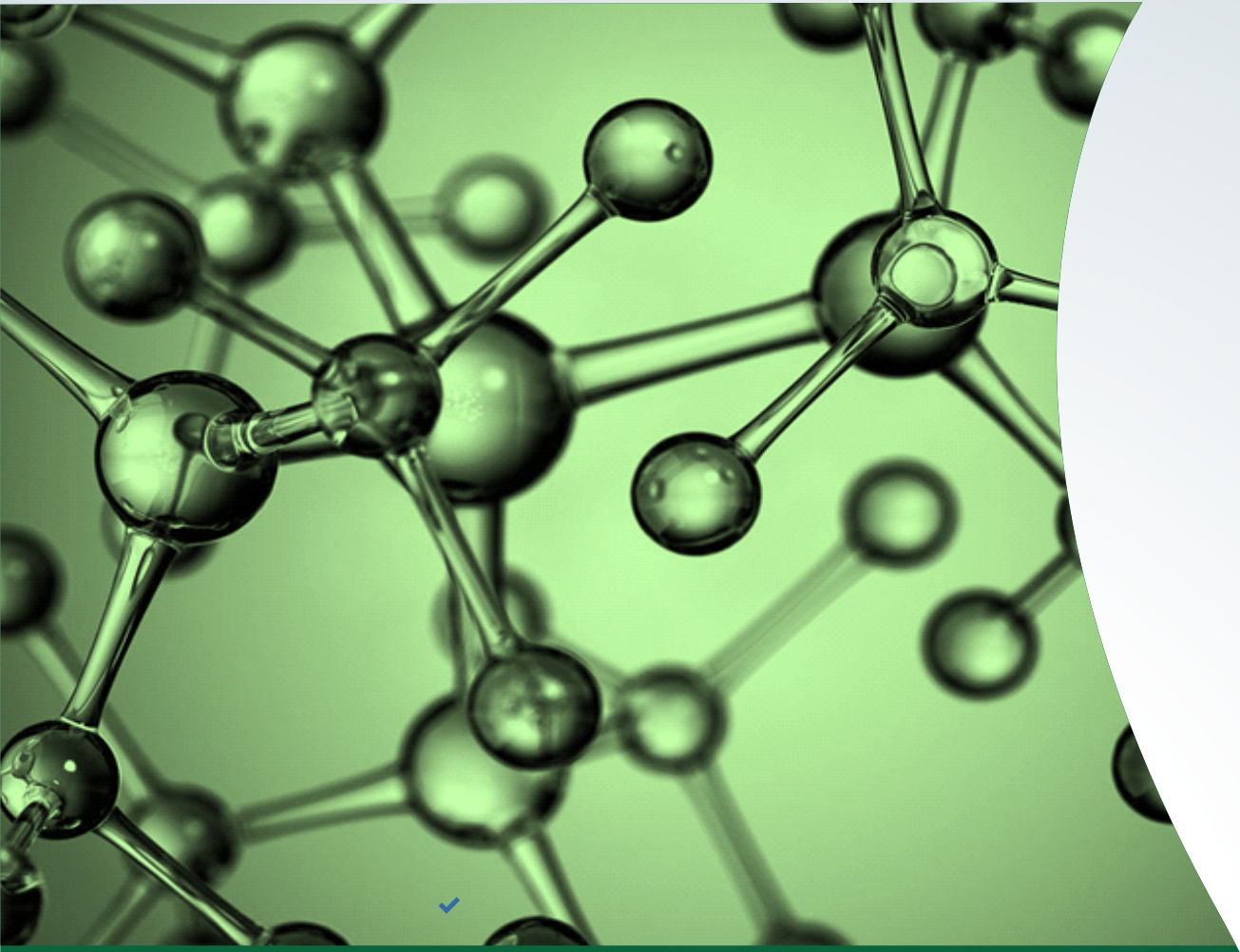

DEPARTMENT OF MEDICINAL CHEMISTRY

DEPARTMENTAL EXPERTISE

Research Activities

Design and synthesis of target compounds : Thiazoles, Thiophenes, Benzimidazole as anti-inflammatory anti-cancer and anti-diabetic agents

Synthesis of Neuroprotective molecules and their Pharmacokinetics and Pharmacodynamic studies

Computer aided drug designing and study of Structure Activity Relationship (SAR)

Design and synthesis of target compounds as anti-cancer and DPP-IV inhibitory agents

Ionic liquid mediated C-C and C=C bond forming reactions

Synthesis of Bax activating molecules to drag cancerous cells towards apoptosis

RIPAL PATEL

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	8.375 (up to 2nd sem)
B. Pharm	2014	L.M. College of Pharmacy	Gujarat Technological University	7.99

DISSERTATION

Title : "Structure Based Drug Design of Thiazole/Thiophene Analogues as Potential Anti - Diabetic Agents"

Description: Resistance to the hormones insulin and leptin are hallmarks of both type 2 diabetes and obesity. Protein tyrosine phosphatase 1B (PTP1B) is reported to function as a negative regulator of insulin and leptin signal transduction. It is challenge to discover inhibitors specific to PTP1B as it is 74% homologous with T -cell protein-tyrosine phosphatase (TCPTP), Structure Based Drug Designing will be carried out for generation of molecules to best fit in the PTP1B and show little affinity towards TCPTP. Structural and functional diversification of our earlier lead molecule will be carried by molecular modelling study and best fit molecules will be synthesized and identified by analytical techniques and biological activity by *in-vitro* assay. SAR studies will be carried out on synthesized compounds.

Achievements :

- Qualified GPAT - 2014 with **AIR 474** and NIPER - JEE 2014 with **AIR 194**

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RINKAL TANNA

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 8.0 (up to 2nd sem)
B. Pharm	2014	A.R.C.P college of Pharmacy, V.V.nagar	Gujarat Technological University	8.44

DISSERTATION

Title : "Synthesis of Ester and Amide containing Hybrid Molecules and their Anti -Alzheimer's activity "

Description : Alzheimer's is the most common form of dementia, a general term for memory loss and dementia. The major target is cholinesterase enzymes which causes breakdown of acetylcholine in brain. If its action is inhibited more amount of free acetylcholine is available in the brain for perfect communication between various brain cells. In this scenario, various drugs having esters and amides act against cholinesterase enzyme are reported but a hybrid containing both moieties which may have improved biological performance in comparison to the existing drugs is not known. Henceforth we intend to design novel hybrid analogues of esters and amides to reach up to potent acetylcholine esterase inhibitors.

Achievements :

- Qualified GPAT -2014 with **AIR 1121** and NIPER - JEE 2014 with **AIR 243**

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SWAPNIL MAHENDRA HARNE

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 6.44 (up to 2nd sem)
B. Pharm	2014	Rani Chennamma College of Pharmacy, Belgaum	Rajiv Gandhi University of Health Sciences	72%

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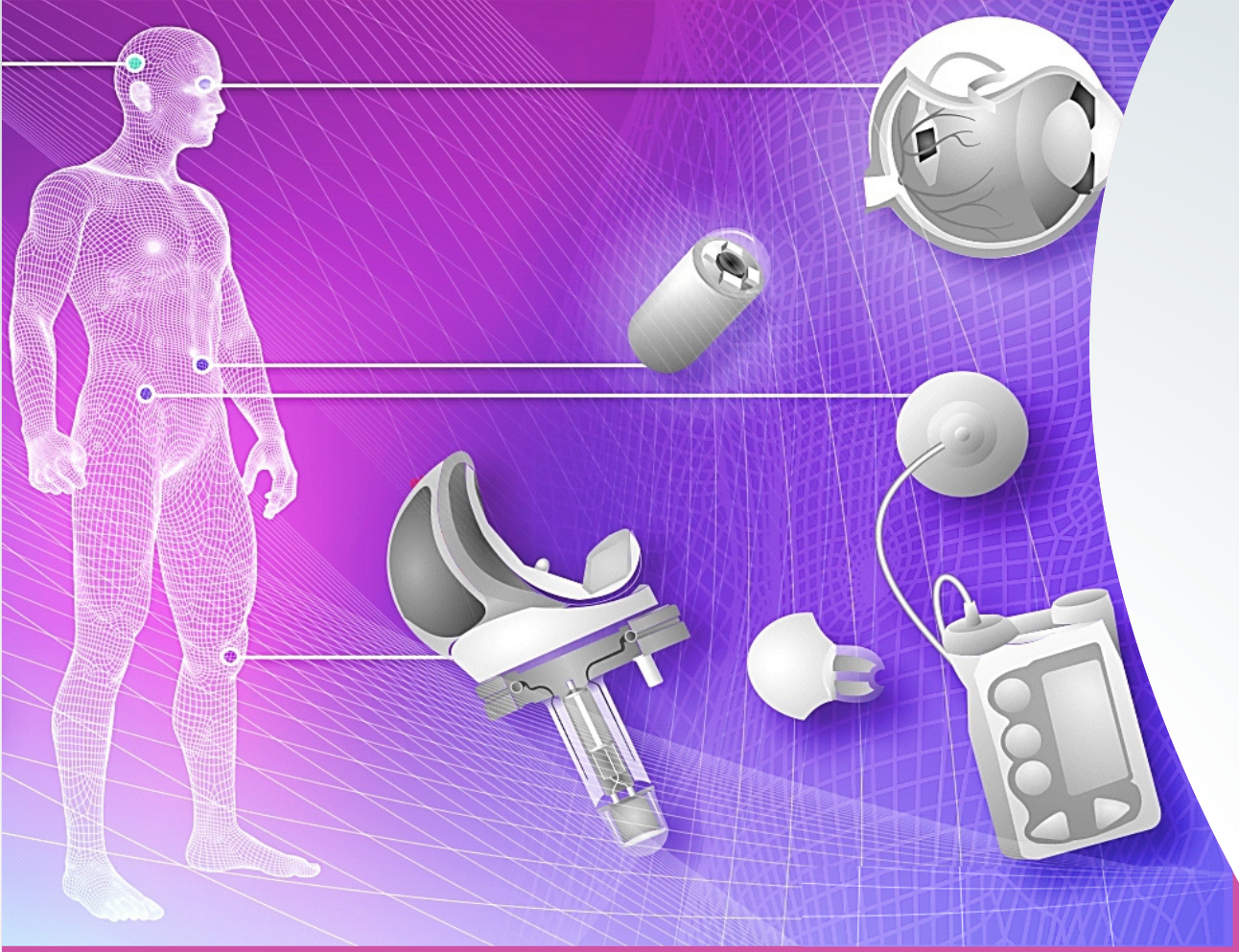
DISSERTATION

Title: "Lead Based Synthesis and *In Vitro* Anticancer Activity of Quinones"

Description : The study aims at developing Quinone derivatives and to evaluate them for their anticancer activity. *In vitro* evaluation of synthesized compounds on different cancer cell lines. Also establishing the mechanism of action for the same.

Achievements :

- Qualified GPAT -2014 with **AIR 1735** and NIPER- JEE 2014 with **AIR 990**



DEPARTMENT OF MEDICAL DEVICES

DEPARTMENTAL EXPERTISE

Research Activities

Research on osteoconductive coating materials for bone tissue engineering

Studies on anti-proliferative and antithrombotic coatings for polymeric and bare metal stents

Development of polymer based implants for peripheral nerve regeneration

Development of matrix for biosensor.

Surface modification of nanomaterials for biomedical applications

Fabrication of artificial cornea and contact lens with newer approach

Synthesis of nanoparticles for diagnostics and therapeutic applications

Chemical modification of polymers for thrombo-resistive blood bags and catheters

Development of microbe resistant polymer for hospital beds

JAICY JACOB

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 9.51 (up to 2nd sem)
B. Pharm	2014	Govt. Medical College, Thiruvananthapuram	Govt. Medical College, Thiruvananthapuram	76.73%

DISSERTATION

Title: "Polymeric Nanofiber Scaffold for Cartilage Regeneration: The Effect of Piezoelectricity"

Description : Smart biomaterial scaffolding is the most prominent approach of modern research area for tissue engineering. Human cartilage is a very sensitive complex system; regeneration and repair of the damaged cartilage is remaining as a challenge. The piezoelectricity principle is considered as a suitable approach for prompt cartilage regeneration. The piezoelectricity event stimulates the cellular activity to superior production of collagen fibres. The biodegradable, piezoelectric PHBV -$BaTiO_3$ nanohybrid electrospun scaffold is used for the present study. The nanofiber scaffold can mimic the extra cellular matrix structure of the cartilage. Therefore, the developed implant system with an optimal piezoelectric property is useful for the efficient repair/regeneration of cartilage damage.

Achievements :

- Qualified GPAT -2014 with **AIR 1539** and NIPER- JEE 2014 with **AIR 543**

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GURU MATHPATI

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 6.0 (up to 2nd sem)
B. Pharm	2014	Maharashtra college of Pharmacy Nilanga	S.R.T.M.U. Nanded	72.76%

DISSERTATION

Title : "Development and Characterization of Nano-fibrous Scaffold for Bone Regeneration"

Description : Currently, millions of people are suffering from bone and joint degenerative defects. There are many limitations in the available graft materials, like high manufacturing cost, contamination issues, and unwanted immunogenic response. The aim of this study is to fabricate chitosan-hydroxyapatite nanofibers blended with chondroitin sulphate (CS) for sustained release of chondroitin sulfate during bone regeneration. The developed scaffold could serve as an excellent bone graft material to induce new bone formation.

Achievements :

- Qualified NIPER JEE-2014 with **AIR 1125** and GPAT -2014 with **AIR 2635**
- Pursuing **Post Graduate Diploma in Drug Regulatory Affairs** provided by Global Institute Of Regulatory Affairs (GIRA) Pune.

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RASHTRAPAL SHANKAR ZINE

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 6.4 (up to 2nd sem)
B. Pharm	2014	Shree Bhagwan College of Pharmcy, Aurangabad	Dr. Babasaheb Ambedkar Marathwada University	61%

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DISSERTATION
Title : "Development of Biocompatible Electrospun Nanofibrous Scaffold for Wound Coverage"

Description : Nanofibrous scaffold provides support and help to grow fibroblast cell by providing Extracellular matrix structure for wound coverage. It is proposed to develop a biocompatible electrospun nanofibrous polymeric scaffolds using Poly -3-hydroxybutyrate -hydroxyvalerate (PHBV), Collagen Type I and graphene. The nanofibers will be biocompatible with antibacterial property of graphene. The developed nanofibers may have potential use in wound
coverage with improved properties. This developed scaffold will be characterized by using SEM, TEM, biocompatibility test, antibacterial test etc.

Achievements :
- Qualified GPAT -2014 with **AIR 2474** and NIPER- JEE 2014 with **AIR 1056**

SAMRAT MAZUMDAR

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Gandhinagar	NIPER	CGPA – 8.03 (up to 2nd sem)
B. Pharm	2014	Manipal College of Pharmaceutical Sciences	Manipal University	7.97

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DISSERTATION
Title : "Targeted Hyperthermia by Gadolinium Nanoparticles for Cancer Therapy"

Description : The main motive of the proposed work is the development of Gadolinium based magnetic nanoparticles, followed by their surface functionalization which may improve imaging and targeting outcomes. Doped Gadolinium nanoparticle will be prepared for optimum magnetic properties. The synthesized particles will be subjected to functionalization with suitable group for specific target in nature for cancer cells .

Achievements :
- Qualified GPAT -2014 with **AIR 2417** and NIPER- JEE 2014 with **AIR 696**
- Distinction Award 2014 during Final year of B.Pharm
- Awarded 2nd Prize for Poster Presentation at PharmaQuora 2013

PARMESHWAR SHANKARRA O DAWANGAVE

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 6.78 (up to 2nd sem)
B. Pharm	2014	Padmashree Dr. D. Y. Patil College of Pharmacy, Akurdi, Pune	Pune University	63.44%

DISSERTATION

Title: "Study on Electrospun Polymeric Nanofibers for Vascular Application"

Description : Stents made of metals and polymers for vascular applications are available in market. For antiproliferative activity the stents are coated with drugs. There are various coating techniques are available namely, spray coating, dip -coating and nanofibrous sheet wrapping. Drug loaded nanofibers provide unidirectional drug release which is added advantage over other techniques. In the current project, the biodegradable nanofibers sheet is made by electrospinning method & coated onto the Bare Metal Stent. Later, the nanofibers sheet is evaluated for desired properties like biocompatibility, biodegradability, high elasticity, drug loading and releasing capacity.

Achievements :

- Qualified GPAT -2014 with **AIR 3496** and NIPER - JEE 2014 with **AIR 719**

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VARSHA EKNATHRAO PAN CHAL

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 6.53 (up to 2nd sem)
B. Pharm	2014	Government college of pharmacy, Aurangabad	Dr.Babasaheb Ambedkar Marathwada University	61.01 %

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DISSERTATION

Title: "Synthesis and Development of Quinone congeners as Antidiabetic Leads"

Description : Resistance to the hormone insulin is hallmark for diabetes mellitus. Present study aims to synthesize and characterize a novel compound which may act as PTP1 -B inhibitors and insulin mimetic, increasing the glucose uptake inside the cell which may decrease the blood glucose concentration in diabetic condition. Quinone scaffold are selected for this purpose, due to its antidiabetic activity, available from natural sources. Screening will be done through in-vitro assays of congeners.

Achievements :

- Qualified NIPER - JEE 2014 with **AIR 596** and GPAT 2014 with **AIR 3107**

DEPARTMENT OF NATURAL PRODUCTS

DEPARTMENTAL EXPERTISE

Research Activities

Target Oriented synthesis (TOS) based development of New Chemical Entities (NCEs) of natural scaffolds against Multi Drug Resistance Tuberculosis and its secondary complications

Lead based design and development of NCEs of natural pharmacophores as antidiabetic and other autoimmune disease leads

Diversity oriented synthesis (DOS) of small molecules as anti-HIV, anti-alzheimer's and anti-inflammatory leads

Molecular docking and Structure Activity Relationship (SAR Study) of NCEs

Discovery of new natural products as anticancer and neuroprotective leads

Development of National repository of secondary metabolites

Development and standardization of herbal formulations

MANOJ LIMBRAJ YELLURKAR

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 6.13 (up to 2nd sem)
B. Pharm	2014	VDF school of Pharmacy, Latur	S.R.T.M.U. Nanded	71.07%

DISSERTATION

Title : "Screening of Standardized Plant Extracts for Cytochrome P- 450 Mediated Herb Drug Interaction Potential"

Description: In recent days people are prone to use herbal formulation in combination with conventional drugs to treat various chronic diseases. Concurrent use of these herbs with conventional drugs leads to toxic/ synergistic, even no effects, due to interaction of herb with drug during metabolism by the major enzymes i.e. CYP. It is important that drug –herb and herb–CYP interaction studies should be incorporated into drug development, since limited reports are available regarding herbs mediated CYP modulations. Hence in the current research we propose to screen aqueous extracts on selected CYP's: CYP2D6 and CYP2C19 using rat/human liver microsome system.

Achievements :

- Qualified GPAT -2014 with **AIR 1596** and NIPER- JEE 2014 with **AIR 596**

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SONI RANJANA

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 6.25 (up to 2nd sem)
B. Pharm	2014	Birla Institute of Technology, Mesra Ranchi, Jharkhand	Deemed university	7.88

DISSERTATION

Title : "Investigation of Marine Algae In Search of Bioactive Natural Products"

Description : The objective of dissertation work is to isolate, characterize and purify the phytoconstituents from the marine algae with the help of various techniques such as column chromatography, flash chromatography, prep -HPLC and prep-HPTLC. Also, *in-vitro* pharmacological activity of isolated compounds over cell lines MCF-5 and A549 followed by quantification of isolated compounds using HPLC and HPTLC analytical methods.

Achievements :

- Qualified GPAT -2014 with **AIR 1200** and NIPER- JEE 2014 with **AIR 1358**
- Qualified ALL INDIA PREMINARY MEDICAL ENTRANCE TEST in year 2009 and 2010- **All India Rank 3000 and 6000**

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DEPARTMENT OF PHARMACEUTICAL ANALYSIS

DEPARTMENTAL EXPERTISE

Research Activities

Analytical and bioanalytical method development and validation using traditional and Quality by Design (QbD) approaches

Use of micro-extraction techniques in simultaneous determination of drugs

Pharmacokinetic studies of drug and metabolites

Impurity profiling of drug substances

Forced degradation studies and characterization of degradation products

Preformulation (physicochemical parameters & excepients compatibility) studies

Secondary metabolite profiling of herbal products

RACHNA JAYESHKUMAR JAGANIA

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 8.83 (up to 2nd sem)
B. Pharm	2014	L.M. College of Pharmacy	Gujarat Technological University	8.03

DISSERTATION

Title: "Development Of Stability Indicating Method And Impurity Profiling Using Qbd For Piribedil"

Description : QbD (Quality by Design) is a systematic approach for development of a robust Stability Indicating Assay Method (SIAM).This systematic approach is nowadays applied by many pharmaceutical industries hence it is cost effective concept. The aim of the study is to develop a rugged and robust SIM by QbD for Piribedil successfully with generation of degradation products using various conditions. Project also include isolation of degradation products and characterization of the degradation products using various analytical techniques like NMR (1H, 13C), IR and LC-MS/MS.

Achievements :

Qualified NIPER - 2014 with **AIR 36** and GPAT - 2014 with **AIR 330**

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SEEMA D. SAROJ

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA–8.4 (up to 2nd sem)
B. Pharm	2014	M.S. University of Baroda	M.S. University of Baroda	63.4%

DISSERTATION

Title : "Applying Green Analytical Chemistry for development and validation of Stability Indicating Assay Method for Fenoverine using Quality by Design approach"

Description: Quality by design (QbD) is a systematic approach for development of an Environmental friendly robust Stability Indicating Assay Method (SIAM) for Fenoverine. The aim of the project is to develop a robust Green SIAM by DOE approach under a different stress conditions recommended by international conference on harmonization (ICH) with complete characterization of degradation impurities generated upon stressing the drug under different harsh condition using hyphenated techniques like LC -MS, LC-NMR. The rationale is reducing the cost as well as an environment impact of analytical methods by applying GAC principles and robustness by QbD.

Achievements :

- Qualified NIPER - 2014 with **AIR 51** and GPAT - 2014 with **AIR 1177**

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MADHURI PAWAR

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 6 (up to 2nd sem)
B. Pharm	2014	School of Pharmacy, Indore	Devi Ahilya Vishwavidyalaya	68.45%

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DISSERTATION

Title: "Bioanalytical Method Development and Validation of Combination Drugs (Acefylline, Amoxicillin, Levocetirizine) using Various Extraction Process and its Pharmacokinetic Applications"

Description: The study aims to compare various bioanalytical method of extraction. Dried Blood Spots technique method will be developed and utilized for pharmacokinetic studies. Finally using the selected method of extraction, optimized chromatographic method shall be validated according to USFDA guidelines.

Achievements :

- Qualified NIPER-2014 with **AIR 1637** and GPAT -2014 with **AIR 3696**

NARASIMHULU LODUGU

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 6.00 (up to 2nd sem)
B. Pharm	2014	Sri Lakshmi Narasimha college of Pharmacy, Chittoor,A.P	Jawaharlal Nehru Technological University	6.00

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DISSERTATION

Title : "Development of Rp-Hplc Based Stability Indicating Assay Method for Determination of Seratrodast Using Qbd Approach"

Description : The study aims at developing QbD based HPLC method by using central composite factorial design. A large number of experimental conditions will be simulated . By using the data generated an actual experiment shall be designed. This software helps in prediction of experimental outcomes without actual experimentation. Hence it is cost and time effective. Forced decomposition studies and impurity profiling of Seratrodast shall also be carried out to identify degradation pathways.

Achievements :

- Qualified GPAT -2014 with **AIR 2223** and NIPER- JEE 2014 with **AIR 434**

KALPESH SANJAY BAVISKAR

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 6.23 (up to 2nd sem)
B. Pharm	2014	R.G.Sapkal College of Pharmacy, Anjneri, Nashik	R.G.Sapkal College of Pharmacy, Anjneri, Nashik	65%

DISSERTATION

Title: "Development of Stability Indicating Method using Qbd and Characterization of Degradation Products of Enzalutamide"

Description: The present study involves application of Quality by Design (QbD) approach for the development of an HPLC method for estimation of Enzalutamide and to determine the factors which affects the method robustness. Application of QbD can reduce the time and resources required for the method development. An added significance is that FDA has also recommended the QbD approach. The developed method shall be validated and extended to impurity profiling and forced degradation study of Enzalutamide.

Achievements:

- Qualified GPAT - 2014 with **AIR 1661** NIPER - 2014 with **AIR 279**

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DEPARTMENT OF PHARMACEUTICS

DEPARTMENTAL EXPERTISE

Research Activities

Development of specialized delivery systems including Taste masked formulation, Pellets and Microneedle, Transdermal,SLN, NLC & SMEDDS

Physical characterization of pharmaceuticals using rheology, thermal and texture analysis, imaging techniques

Identification and formulation of novel adjuvants and compatibility screening

Formulation development and stability of biotherapeutic agents

Targeted lymphatic delivery system for cancer, leishmaniasis and HIV

Solubility enhancement using nanocrystallization, complexation and co-crystallization

Nanotechnology based drug delivery system targeting brain

Formulation developmet of solid orals using quality by design (QbD)

BAISHALI NATH

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 7.68 (up to 2nd sem)
B. Pharm	2014	DIPSAR	DU(DELHI UNIVERSITY)	73%

DISSERTATION

Title : "Formulation and Evaluation of Liposome Loaded Biodegradable System for Intravesicular Retentive Drug Delivery System"

Description : Present research study proposes development of a novel drug delivery system consisting liposomes entrapped within the polymeric nanofibers for intravesicular therapy. Liposomal formulation in combination with nanofiber can be tailored in different polymer to address two basic issues of vesicular drug delivery viz. absorption rate of drug and low residence time of formulation due to urinary bladder voiding. In present work influence of formulation and process variables on particle size and surface morphology by SEM analysis, zeta potential, entrapment efficiency and loading of liposomal formulation inside nanofiber was extensively studied. Nanofiber loaded liposomes was also characterized for biocompatibility studies.

Achievements :

- Qualified GPAT -2014 with **AIR 2417** and NIPER- JEE 2014 with **AIR 185**

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SHUBHANGI BELE

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 6.61 (up to 2nd sem)
B. Pharm	2014	IPER Borgaon Meghe Wardha	RTM Nagpur University	75.14%

DISSERTATION

Title : "Design and Development of Nanocrystals loaded buccal patch of Raloxifene Hydrochloride "

Description : Raloxifene is an osteoporotic agent of selective estrogen receptor modulator SERM category which belongs to BCS class II. Aim is to formulate Raloxifene Nanosuspension in order to combat solubility issues using suitable techniques. The obtained Nanosuspension will be converted into amorphous or crystalline Nanocrystals & characterized for various solid state properties. Nanocrystals thus obtained would increase the solubility of raloxifene owing to increase in surface area, saturation solubility & in turn dissolution rate of drug. Dried Nanocrystals powder incorporated in Buccal patch may significantly increase the bioavailability due to pregastric absorption in buccal mucosa thereby increasing efficacy.

Achievements :

- Qualified GPAT -2014 with **AIR 3377** and NIPER- JEE 2014 with **AIR 385**
- Consequent **1st & 2nd** university topper in all four years of B.pharm from **RTM Nagpur University**

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AMRUTA VASANTBHAI JE THWA

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 8.47 (up to 2nd sem)
B. Pharm	2014	Maliba Pharmacy College– Bardoli	Gujarat Technological University	CGPA– 8.31

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DISSERTATION
Title : "Transcutaneous Drug Delivery of Photo-protective Agent"

Description : The objective of the present work is to formulate lycopene loaded NLC's (Nano-structured lipidic carrier) for topical application using QbD approach and will be further evaluated, *in-vitro* and *in-vivo,* for its photo-protective activity. Lycopene is a carotenoid having potent antioxidant activity along with photo -protective activity. It is highly lipidic in nature and photo -unstable. Thus, NLC's of lycopene seems to be a logical and novel approach to improve its photo -stability. Also, NLC's possess photo -reflecting property hence, it is expected that topical application of NLC's will be more effective and will retain lycopene for prolonged period in dermal layer.

Achievements :
- Qualified GPAT -2014 with **AIR 890** and NIPER- JEE 2014 with **AIR 183**
- "General Course on Intellectual Property (DL 101)"from WIPO, Geneva, Switzerland.
- Published Review on: "A concised review on drug delivery throughinner ear: Emphasised on intracochlear implant baseddrug delivery systems, in IJHEPS.

NIDHI NAVINCHANDRA RAVAL

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 8.72 (up to 2nd sem)
B. Pharm	2014	L. M College of Pharmacy Ahmedabad	Gujarat Technological University	7.98

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DISSERTATION
Title : "Lipid Based Colloidal Nanocarriers for Drug Targeting to Posterior Chamber of Eye "

Description : Drug delivery to posterior segment of eye poses many challenges including nasolacrimal drainage, Ocular barrier and drug metabolism. The study aims to formulate a novel lipid based colloidal carrier like micro emulsion (ME) with bovine lipid as penetration enhancer for drug targeting to posterior segment of eye via topical route. Bovine lipid being rich in saturated and unsaturated fatty acids will result in better targeting to posterior chamber of eye by overcoming tight junctions. Permeation of developed formulation will be performed using *ex-vivo, in-vivo* and Rabbit Corneal Epithelial Cell Line. It is expected that such study will pave the way for future research where bovine lipids could be used as potential penetration enhancers of natural origin, without eliciting any adverse effects.

Achievements :
- Qualified GPAT -2014 with **AIR 355** and NIPER- JEE 2014 with **AIR 68**
- General Course on Intellectual Property (DL 101)"from WIPO.
- Published Review on: "A concised review on drug delivery throughinner ear: Emphasised on intracochlear implant baseddrug delivery systems, in IJHEPS.

AKTA KHAMBHLA

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 7.3 (up to 2nd sem)
B. Pharm	2014	Atmiya Institute of Pharmacy-Rajkot	Gujarat Technological University	7.85

DISSERTATION

Title : "Formulation and Evaluation of Lipid Vesicular Based Microneedle Arrays for Transdermal Drug Delivery "

Description : The study aims to formulate and evaluate microneedle arrays which is loaded with liposomes for lymphatic delivery. Microneedles would rupture the stratum corneum layer and release the liposome in dermal region, targeting the lymph vessels for treatment of AIDS. Various process and formulation parameters were primarily screened for formulating liposomes loaded polymeric microneedle arrays, which was then characterized for mechanical strength, insertion force, insertion ratio, skin penetration studies, release rate determination, entrapment efficiency, size and morphology by SEM analysis and zetapotential. The formulation was also characterized for skin resealability studies.

Achievements :

- Qualified GPAT -2014 with **AIR 6465** and NIPER- JEE 2014 with **AIR 1043**

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ANU MOHANAN NAIR

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 8.69 (up to 2nd sem)
B. Pharm	2014	NIRMA University-Ahmedabad	NIRMA University	8.75

DISSERTATION

Title : "Comparative Evaluation of Different Formulation Approaches for Orally Dispersible Dosage form of Risperidone: Effect on Physicochemical Properties and Pharmacokinetics "

Description : Risperidone is second generation antipsychotic drug belonging to BCS class - II. This study deals with the formulation of risperidone nanosuspension to combat solubility issues using bottom up technique (precipitation). The obtained nanosuspension will be converted into amorphous or crystalline nanocrystals or nanofibers using lyophilisation, spray drying and electrospinning technique and characterised for various solid state properties. Nanocrystals would be used to formulate orodispersible tablets. It is expected that this comparative evaluation will be useful in identifying critical parameter affecting conversion of nanosuspension to nanocrystals using this three techniques and will also explore newer uses of electro spinning technique in pharmaceutical formulation development.

Achievements :

- Qualified GPAT -2014 with **AIR 570** and NIPER- JEE 2014 with **AIR 102**
- Qualified General Course on Intellectual Property (DL 101)"from WIPO.
- Published a review article on **"**A Concise Review on Carbon Nanotubes as a Novel Approach for Vaccine Delivery**"** in World Journal of Pharmaceutical Research

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DASHARATH CHAUDHARI

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA – 9.01 (up to 2nd sem)
B. Pharm	2014	A.R. College Of Pharmacy, Vallabh - Vidhyanagar, Anand	Gujarat Technological University	CGPA – 8.37

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DISSERTATION

Title: "Direct Nose to Brain Transfer of P -gp Substrate after Nasal Administration: Effect of Lipidic Carrier on Penetration Enhancement and P-gp Inhibition "

Description : The study aims to formulate suitable Lipidic formulation like Microemulsion (ME), Solid Lipid Nanoparticles (SLNs) and Nanostructured Lipidic Carriers (NLCs) of Aripiprazole, a P-gp substrate, using factorial design. The developed formulation will be investigated for their direct brain targeting potential and P -gp inhibition potential using suitable animal and cell line model. Bovine lipids being rich in both saturated and unsaturated fatty acid can act as potential permeation enhancer .One of the aspects of this study is to investigate how log p value of drug affects the penetration enhancing potential of lipid. Further experimentation is ongoing in this direction and if results obtained are positive, bovine lipid could be extensively used as potential penetration enhancers for targeted brain delivery.

Achievements :

- Qualified GPAT -2014 with **AIR 208,** NIPER JEE– 2014 with **AIR 57** and BET 2011 – **4th Rank**
- Qualified the Distance Learning General Course on **Intellectual Property** from **WIPO** Academy, Geneva in a year 2014 .

DEPARTMENT OF PHARMACOLOGY & TOXICOLOGY

DEPARTMENTAL EXPERTISE

Research Activities

Development of immunosuppresive human xenograft mice model

Neuroprotection against cerebral ischemia, traumatic brain injury, alzheimer's diseases, stress disorders and multiple sclerosis

Pharmacological screening of synthetic and herbal products for anti-diabetic, anti-cancer, anti-ulcer and anti-inflammatory activity

Behavioural studies on learning & memory, depression and anxiety.

Pharmacokinetics and Pharmacodynamics and bioavailibility studies of herbal drugs

Absorption Digestion Metabolism Excretion (ADME) and toxicological studies of herbal and chemical entities.

***In-vitro* and *in-vivo* correlation**

SONU GATHE

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 6 (up to 2nd sem)
B. Pharm	2014	Truba Institute– Bhopal	RGVP University	7.05

DISSERTATION

Title : "Protective Effect of Trigonelline Against tMCAO Induced Cerebral Ischemia in Rats"
Description : Cerebral ischemia (Stroke) is significant reduction in cerebral blood flow (CBF) leading to neurological and structural brain damage which may be fatal. The disability cascade starts from haemorrhage or thrombus, embolism leading to, energy failure, excitotoxicity, acidosis, increased intracellular calcium level, oxidative stress, mitochondrial failure, inflammation, apoptosis, and finally neurodegeneration. Trigonelline, an alkaloid from *Trigonella foenum graecum* is shown beneficial in a number of modalities such as neuroprotective, antioxidant and anti-inflammatory role in cerebral ischemia. In this project we endeavour to elucidate the protective effect of Trigonelline in transient middle cerebral artery occlusion (tMCAO) induced focal cerebral infarction in rats.

Achievements :

- Qualified GPAT -2014 with **125 marks** and NIPER- JEE 2014 with **AIR 748**
- Major training 28 days training in PEE KAY (Ayurvedic) pharmaceutical pvt. Ltd company Indore M. P. (27/06/2013 - 27/07/2016)

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K PRAVEEN

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 7.12 (up to 2nd sem)
B. Pharm	2014	St Peter's Institute Of Pharmaceutical Sciences	KAKATHEEYA UNIVERSITY	76%

DISSERTATION

Title : "Effect of Leflunomide Against Aluminium Chloride Induced Alzheimer's Disease "

Description : Targeting JNK receptor and its role in Alzheimer Disease. Briefly, the study consist *in vivo* (behaviour parameters and antioxidant assays) and *in vitro* (caspase assays and JNK activity) will be assessed.

Achievements :

- Qualified GPAT -2014 with **AIR 1596,** NIPER- JEE 2014 with **AIR 383** and PGECET with **State rank 101**

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SURILKUMAR S. VERMA

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 7.3 (up to 2nd sem)
B. Pharm	2014	L. M. College of Pharmacy Ahmedabad	Gujarat Technological University	CGPA– 7.06

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DISSERTATION
Title : "SGLT2 inhibitor (Dapaglifogin) and GLP -1R agonist (Liraglutide) combination as a therapeutic aid in the treatment of T2DM "

Description : SGLT2 inhibitors are the drugs that inhibit sodium glucose co -transporter-2 of kidney and excrete excessive body glucose in urine also reduce body weight. GLP -1R agonists are the, drugs that cause glucose dependent insulin release from β-cells of pancreas, inhibit β-cell apoptosis and reduce food intake hence has a potential to prevent the progression of T2DM. The study targets combination of both the category of drugs expecting synergistic effect in the treatment of T2DM. The study comprises of *in-vitro* dose determination of both the drugs followed by pre -clinical evaluation of antihyperglycemic activity of combination doses in rat model of type-2 diabetes.

Achievements :
- Qualified GPAT -2014 with **AIR 1177** and NIPER- JEE 2014 with **AIR 169**
- Qualified BET with **State Rank 6** in 2011

RASHMI NILKANTH CHAUDHARI

Qualification	Year	Institution	University	Result
M. S. (Pharm.)	2016	NIPER-Ahmedabad	NIPER	CGPA– 8.56 (up to 2nd sem)
B. Pharm	2014	Institute of Chemical Technology– Mumbai	ICT	8.16

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DISSERTATION
Title : " GLP-1 analogue (ZYD1) and Estrogen in combination therapy to treat Diabetic Nephropathy"

Description : Diabetes is associated with severe end -organ complications including diabetic nephropathy (DN), one of the leading causes of end -stage renal failure. Estrogen ameliorates renal damage by reducing mesangial cell proliferation, extracellular matrix synthesis (mainly collagen), albuminuria, glomerulosclerosis and tubulointerstitial fibrosis. It also decreases expression of tumor necrosis factor -α (TNFα) and transforming growth factor-β (TGF-β). Glucagon-like peptide-1 (GLP-1) analogue decreases albuminuria, glomerulosclerosis, oxidative stress, fibrosis in the kidney. Combining GLP -1 analogue (ZYD1) and estrogen would seem to have a beneficial effect on diabetic nephropathy.

Achievements :
- .Qualified GPAT -2014 with **AIR 3014** , GATE – 2014 with **AIR 554** , NIPEER JEE - 2014 with **AIR 455** and BITS-2014

Proposed Campus of NIPER Ahmedabad at Gandhinagar

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