



NEHRU COLLEGE OF PHARMACY E - NEWS MAGAZINE

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N-PEN



HIGHLIGHTS
DIGNITARIES MESSAGE
SCIENTIFIC ARTICLES
FOUNDERS DAY A MEET TO COMMEMORATE
INDUSTRIAL VISITS
NEWLY ESTABLISHED IIC
NCP UPSHOTS



NEHRU COLLEGE OF PHARMACY

Nila Gardens, Pampady, Thiruvilwamala, Thrissur Dist - 680 588, Kerala, INDIA
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UG-B.Pharm Program accredited with NBA, New Delhi

Recognized by UGC under section 2(f) of the UGC act 1956

(An ISO 9001-2015 Certified Institution)



“Ever in our hearts though not in our midst”



P.K.DAS

F.I.E., F.I.Mech. E., A.F.R.Ae.S. (Lond) M.Ae.S.I., M.S., C.Engg.

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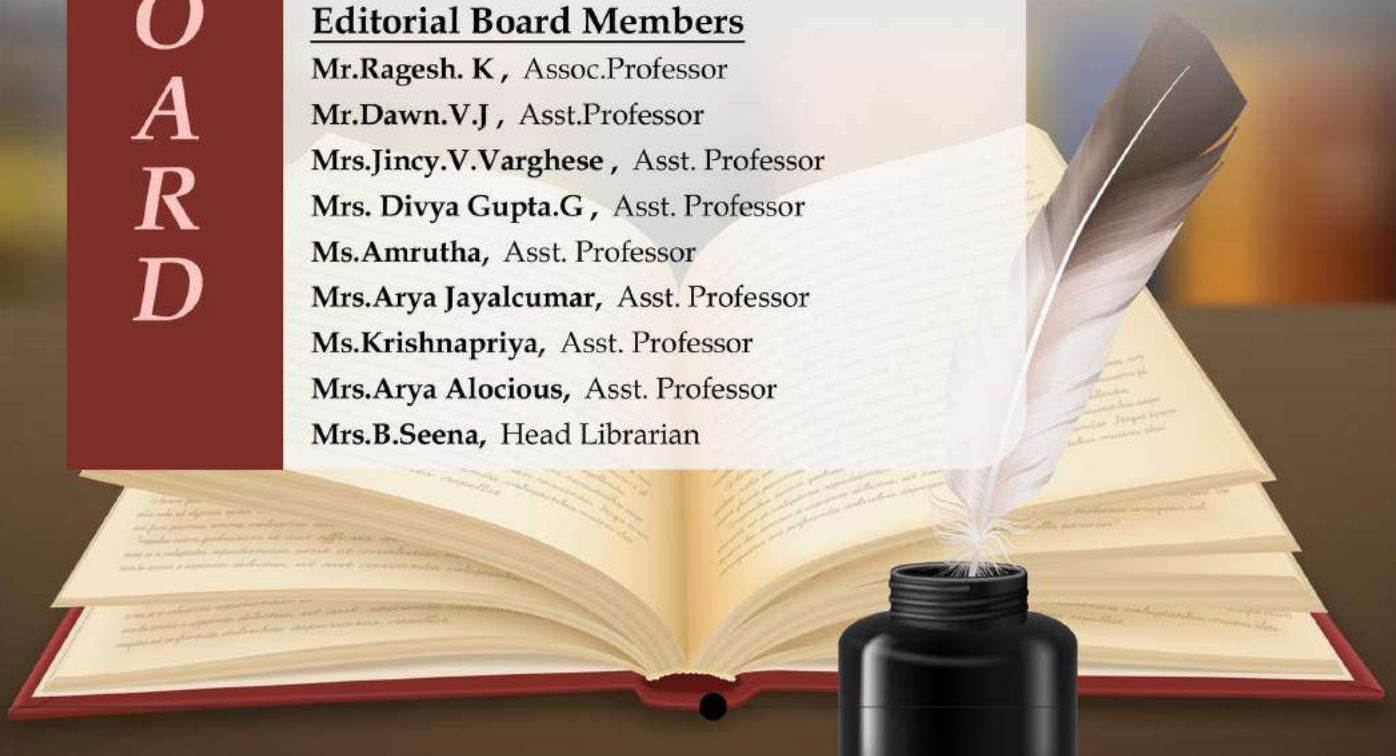
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DIGNITARIES MESSAGE



From the Desk of the Chairman & Managing Trustee

Chief Patron: Adv. Dr. P. Krishnadas.

Nehru Group of Institutions is the crowning glory of a long precious dream envisioned by Founder Chairman Late. Shri.P.K.Das, my beloved father whose incredible farsightedness, great wisdom and missionary yearning has led to the conception of this path-breaking organization. Today, we are dedicated to thrive on his illustrious legacy of excellence making new frontiers in quality higher education, presenting innovative and front-line courses and creating Nehru College of Pharmacy as an evident symbol of knowledge to position and perform outstandingly. Quality has been our performing Mantra. Even as we create and arm our students with the newest skills and technology, we have not ignored our roots, serving our students embrace novelty in the fostering of an Indian tenet. May your journey be gratifying and heartening. I am happy to launch the online e -Newsmagazine namely N-PEN which will surely voice the ethos of the college and Pharmacy Education & Industry in general. I hope it would be a better platform for the mutual flow of scientific and pharmaceutical knowledge. I wish all the best for its journey.

Adv. Dr. P. Krishnadas
Chairman & Managing Trustee
Nehru Group of Institutions



From the Desk of CEO & Secretary

Patron: Dr.P. Krishnakumar

I am happy to learn that Nehru College of Pharmacy is launching the N-PEN e-News Magazine. The College with its great legacy have maintained a visible presence in the Pharma Education of this country. The college has been providing with an admirable platform maintaining a strong relationship with the Industry partners and other Pharmaceutical Sectors. I am sure this new venture will provide a befitting opening to the students and provide Industry Institute connect and foster better bond and relationship. The institute has been successful in hand holding the students to become professionals and successful entrepreneurs. Let this N-PEN throw more light into all the creative presentation not only of the students but also the staff, faculty members and all stake holders. Best wishes and let this be a befitting platform and the right motivating factor to one and all.

Dr.P.Krishnakumar

CEO & Secretary

Nehru Group of Institutions

**From the Desk of the Principal****Prof. Dr.K.Prabhu., M.Pharm,Ph.D**

N-PEN is student friendly..... Updation of knowledge dissemination and exchange of knowledge. We would like to share our earlier achievements and the captivating events for the students... we will continue to build conquerors of life by simultaneously enriching the life through education. A huge amount of effort has been done towards the progress of this newsmagazine in the past days. We know that only advances in Medical Science and Technology can help us in challenging the tasks of the good human health and to exploit on the promises ahead. We would like to place in record the patronage and care provided by our beloved chief Patron Adv.Dr.P.Krishnadas . Still, with the blessings of the Almighty God, unconditional help of the patron Dr.P.Krishnakumar little bit of persistence, persuasion and ingenuity on my part and most importantly, the strong and untiring confidence shown by Dr.R.Prema, Editor in Chief N-PEN. I wish the whole team to go ahead.

Prof. Dr.K.Prabhu

Principal

Nehru College of Pharmacy



From the Desk of Administrative Manager

Mr. M. Srinivas

I am extremely thrilled that the efforts to start an effective College Magazine has taken wings and this is coming out beautifully in the name and style of N-PEN. We are launching it as an E-News Magazine which is again saving paper, being economical and promoting Go Green Concept. It is good to know that apart from the scientific articles the N-PEN is promoting other literary works also which will give an opportunity to the students and staff to articulate their innate talents. Let this E-News Magazine be filled with variety of creations and let it bloom into one of the best campus magazines in the country. I sincerely wish all success to this new endeavour.

With humble regards

Mr. M. Srinivas
Administrative Manager
Nehru College of Pharmacy



From the Desk of Dean

Prof. Dr. Sapna Shrikumar., M.Pharm,Ph.D

I am delighted to know that Nehru College of Pharmacy , established in 2003 and under the magnanimous leadership of our Chairman and Managing Trustee Adv Dr Krishnadas, NGI, is releasing a Newsletter N - Pen. Our college is synonym to ultimate excellence in pharmacy education , innovation & research , as well as student activities, placement and various programs. The newsletter mirrors the actions to meet the Vision and Mission of institution . Various achievements and contributions by the teaching fraternity and students in publications of articles , books , chapters , funded projects , industrial projects , MoUs and Add on programs , various awards and prizes won by faculty and students and also the vast activities to bring out out best quality students is evident . This newsletter punctuates the passion of Nehru College of Pharmacy to continually grow above and beyond . I congratulate the editorial team for their efforts to make it the best .

Prof. Dr. Sapna Shrikumar
Dean- Academic , Research & Placement
Nehru College of Pharmacy

**From the Desk of Vice Principal****Prof. Dr.K.G.Prasanth., M.Pharm , Ph.D**

An ultra-modern and exceptional educational institution opened its door to students in 2003 was our renowned NCP - Nehru College of Pharmacy which is one of the prime under NGI - Nehru Group of Institutions. If accomplishing education is your goal, our crew of academic mentors and faculty, serene institution, various disciplines and myriad events – both in and outside the classrooms – would benefit towards your overall holistic progress. You would also learn to attain life-long learning skills in this sanctuary of knowledge. NCP is taking care of its scholars in an approach that empowers them to get a comprehensive stability to lead a magnificent life. Devoted to the cause of eminence education, the institution is taking meticulous efforts to boost up the confidence level in every child. Keep up the good work N-PEN Team.

Prof. Dr. K.G. Prasanth
Vice Principal
Nehru College of Pharmacy



From the Desk of **DIRECTOR - IQAC,**

Prof. Dr.D.Sudhahar, M.Pharm., Ph.D

Pharmacy is one of the most trusted and noble profession and remains one of the fascinating profession in the scientific world than any other profession. During the last few years, due to phenomenal growth and advancement of technology, the impact of pharmacy has drastically changed in recent times and today pharmacist is one of the most important team members in health care systems globally. In today's world of globalization and competition, it has become necessary to bring reformation in the current education systems that would empower the younger generation's as a responsible pharmacist. I am delighted to know that a team of active members from our institution has taken a great initiative and bringing N-PEN e-News Magazine with information on academics and encompassing the events of professional activities, research initiatives, pharma updates, Co-curricular and extracurricular activities of the teaching fraternity and skills of our energetic students. I am sure that N-PEN e-News Magazine will give an ample opportunity to the students and faculty to bring their talents and contribute significantly towards pharmacy profession. This initiative shows that, our institution innovative team aims at preparing our students as a potential pharmacists and making them aware of their rights and duties stipulated on moral issues of public based on pharmacy ethics and values. I take this opportunity to greet the whole team who contributed their efforts with dedication and commitment. I warmly welcome every member of our organization to explore this N-PEN e-News Magazine to reach to the maximum heights.

My Best Wishes for Future Endeavours

Prof. Dr.D.SUDHAHAR, M.Pharm., Ph.D
DIRECTOR - IQAC,
Nehru College of Pharmacy,



From the Desk of Professor & Research Coordinator

Prof. Dr. C. Senthil Kumar., M. Pharm., Ph. D.,

"Strength is Life, Weakness is Death. Expansion is Life, Contraction is Death. Love is Life, Hatred is Death." - Swami Vivekananda.

The goal of higher education is not only to promote the pursuit of knowledge, but also to develop the right attitude, best work ethos, professionalism, leadership and social responsibility. We look forward to the challenging responsibilities that lie ahead in providing a more holistic and integrated education to our students.

Nehru Group of Institutions has initiated to establish Nehru College of Pharmacy in the year 2003 with very big engrossed for the expansion of Academic and Research in Pharmacy sector, from that we are going for another mile stone in the Nehru College Pharmacy launching our college e-News Magazine.

I am happy to that our Nehru College of Pharmacy, Thrissur, Kerala releasing its 1st issue N-PEN e-News Magazine. I appreciate Prof. Dr. R. Prema, M. Pharm., Ph. D., L. L. B., for continuous effort in bringing out this News Magazine and also her team. It gives me immense pleasure in seeing the Research articles and other activities achieved for the past six months by faculty and students on latest trends and Nehru College of Pharmacy seems to be pro-active in organizing many programs in and around the campus. I wish the N-PEN e-News Magazine should carry many more useful information and faculty and students should make use of these opportunities to express their views and to update their knowledge.

I congratulate the Editor in Chief and the supportive team for their hard work and enterprise in publishing the N-PEN e-News Magazine.

Yours Truly

Prof. Dr. C. Senthil Kumar

Professor & Research Coordinator
Nehru College of Pharmacy

**From the Desk of Editor in Chief****Prof. Dr.R.Prema.,** M. Pharm., Ph. D., L. L. B.,**From the desk of Editor in Chief**

*“Don't blow off another's candle for
it won't make yours shine brighter” ...*

Knowledge is always to share...

With deep desire, humility and dignity that we celebrate the launch of N-PEN: Nehru College of Pharmacy E-Newsmagazine with this inaugural issue. On behalf of N-PEN I would like to extend a very sincere welcome to the audience of N-PEN. I take this occasion to acknowledge our authors all of whom have volunteered to contribute to the success of our newsmagazine. N-PEN provides a perfect opportunity for exchange of information. I see very lively forecasts to serve students and the scientific community even better in the future. Ultimately, we will expand more lives and, subsequently, our society. Our platform is a sacred space of student voices, and thus, it is our duty to highpoint the multiplicity on campus and to use as a place for learning. We aim to host a dais for pharmacy students, staff, and researchers to share their opinions, scientific stories, and inventive works. I would like to share this space to thank for the motivation & support rendered by our beloved principal Dr.K.Prabhu, Mr.M.Srinivas, Administrative Manager, and my advisor Prof.Dr.C.Senthilkumar, Research Co-ordinator and the entire N-PEN Team. I convey my special thanks to fabricator of N-PEN Mr.Pranav.K.C, Technical staff, NCERC.

That is why we exist...

Yours Sincerely,

Prof. Dr.R.Prema

Editor in Chief

Nehru College of Pharmacy

MOMENT OF PRIDE

INDO - ARAB LEADERS AWARD 2022

FOR INTERNATIONAL EXCELLENCE IN PROFESSIONAL
EDUCATOR AND HEALTHCARE



Adv. Dr. P. Krishnadas Chairman & Managing Trustee, NGI

*It is a proud moment for all of us. All the hard work you have put in has paid off.
One day in a year is not enough to recognise you and the great work you do...
Thanks for the example you set...
And the support you give...
You bring out the best in us all.... Hearty Congratulations Our Dear LEADER...*

SCIENTIFIC ARTICLES

ANTIBIOTIC RESISTANCE

ARSHIDA.M
I Sem B.Pharm

“IF USE ANTIBIOTICS WHEN NOT NEEDED WE MAY NOT HAVE THEM WHEN THEY ARE MOST NEEDED”

Bacterial infections are treated with antibiotics. Antibiotic resistance occurs when an infection responds poorly to an antibiotic that once could treat it successfully. It's the bacteria that have become resistant to the antibiotic, not the patient. This happens because the bacteria acquire a mutation—a change in their DNA that gives them a new protein tool to fight the antibiotic. There are many mechanisms by which this tool may work such as..

- * Prevent the antibiotic from entering the bacterial cell
- * Pump the antibiotic out of the cell
- * Destroy the antibiotic by enzymatic reaction
- * Modify the antibiotic target so it no longer binds to the drug or give the cell a way to bypass the antibiotic's target making the drug irrelevant.

Mutations in bacterial genome occur all the time spontaneously but only the one that confer a certain advantage would persist to next generation, considering a situation when a new mutation emerges and makes the bacteria resistant to certain antibiotic, in the absence of antibiotic such mutation offer no advantage because mutation usually come with slower growth, the mutation will be diluted and eventually disappear in following generations, on the other hand, in presence of antibiotic only bacteria that carry such mutation would survive and they would soon take over the whole bacterial population. The use of antibiotic is therefore the factor that drives the selection of antibiotic resistance organisms mutations that confer antibiotic resistance can be transmitted not only from parent cell to offspring but also from one bacterial cell to another using mobile genetic elements such as plasmids or bacteriophage. Antibiotic resistance is one of the biggest global health concern. Infections by antibiotic resistance bacteria are much harder, sometimes impossible to treat some bacteria called superbugs are resistant to most of common antibiotics and are especially difficult to kill.

The emergence of antibiotic resistance is inevitable the process is greatly accelerated due to misuse and over use of antibiotics (80% of antibiotics used for respiratory tract infections are unnecessary) to help to control spread of antibiotic resistance, antibiotic must be taken correctly only, when prescribed by a health care professional, who should do so only when antibiotics are needed according to current guidelines. Recently, antimicrobial resistance is increasing and medicines are become ineffective. We all have a role to play in tackling antimicrobial resistance. Antibiotics should not be used to promote growth or prevent diseases in healthy animals, take measures that help to prevent infections which also help to reduce antibiotic over use



CUPPING THERAPY

ASWATHI P S
I Sem B.Pharm

Cupping therapy is an ancient form of alternative medicine in which therapist puts special cups on your skin for a few minutes to create suction. People get it for many purposes, including to help with pain, inflammation, blood flow, relaxation and well

being, and as a type of deep tissue massage

The cup may be made up of :

- Glass
- Bamboo
- Earthenware
- Silicone

Cupping therapy is now a days become a trending therapy system it is also called 'Hijama therapy' It dates back to ancient Egyptian, Chinese and middle eastern cultures. One of the oldest medical text books in the world 'THE EBERS PAPYRUS' describes how the ancient Egyptians used cupping therapy in 1550 BC

There are two types of cupping therapy method

1. Dry method
2. Wet method

During both types of cupping method therapist will put a flammable substance such as alcohol, herbs or paper in a cup and set it on fire. As the fire goes out they put the cup upside down on your skin. As the air inside the cup cools, it creates a vacuum. This causes the skin to rise and redden as blood vessels expand. The cup is generally left in place for up to 3 minutes. A more modern version of cupping uses a rubber pump instead of fire to create the vacuum inside the cup. Some may use silicon cups, which they can be moved from place to place and gives a massage-like effect. The cup is removed after 3 minutes using a small scalpel to make light, tiny cuts on the skin. Next day do a second suction to draw a small quantity of blood. There will be 3-5 cups in the first session. Afterwards an antibiotic ointment and bandage is applied to prevent infection. The skin looks normal after 10 days or within 10 days.

This method is used mainly to treat

- Blood disorder such as anaemia and haemophilia.
- Rheumatic disease such as arthritis.
- Fertility and gynaecological disorders.
- Skin problem such as eczema and acne.
- Migraines.
- High blood pressure.
- Anxiety and depression.

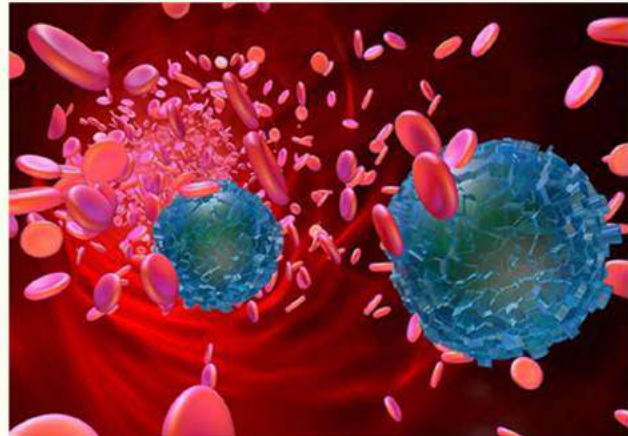


MICROPLASTICS FOUND IN HUMAN BLOOD



S DARSHAN
III Sem B.Pharm

Microplastics, or tiny plastic particles, are ubiquitous pollutants found almost everywhere on earth. Scientists have detected microplastics near the peak of Mount Everest, in the Mariana Trench and even in baby poop. But researchers have found a new vessel for microplastics: human blood. The discovery shows the particles can travel around the body and may lodge in organs.



Researchers took blood samples from anonymous, healthy adults, and looked for plastics that were between 700 and 500,000 nanometers (nm). Researchers found plastic in the blood of 17 of 22 of study participants, or about 77%. Polyethylene terephthalate (PET), commonly used in disposable water bottles, was the most widely encountered plastic polymer and found in 50% of the donors. The second most common polystyrene (PS), which is used for food packaging and polystyrene foam, was found in 36%, per the study.



“Our study is the first indication that we have polymer particles in our blood it’s a breakthrough result,” said Prof Dick Vethaak an Eco toxicologist at Vrije Universiteit Amsterdam in the Netherlands. “But we have to extend the research and increase the sample sizes, the number of polymers assessed, etc. “Further studies by a number of groups are already under way, he said. He also said “It is certainly reasonable to be concerned”. The particles are there and are transported throughout the body.”

The participants could have been exposed to microplastics through air, water and food, but also through personal care products, like toothpaste or lip gloss, that might have been accidentally ingested, dental polymers, parts of implants or tattoo ink residues. Some of the blood samples contained two or three types of plastic. The team used syringe needles and glass tubes to avoid contamination, and tested for background levels of microplastics using blank samples. Vethaak acknowledged that the amount and type of plastic varied considerably between the blood samples. “But this is a pioneering study”, he said, with more work now needed. He said the differences might reflect short-term exposure before the blood samples were taken, such as drinking from a plastic-lined coffee cup, or wearing a plastic face mask.

A recent study found that microplastics can latch on to the outer membranes of red blood cells and may limit their ability to transport oxygen. The particles have also been found in the placentas of pregnant women and in pregnant rats they pass rapidly through the lungs into the hearts, brains, and other organs of the fetuses.

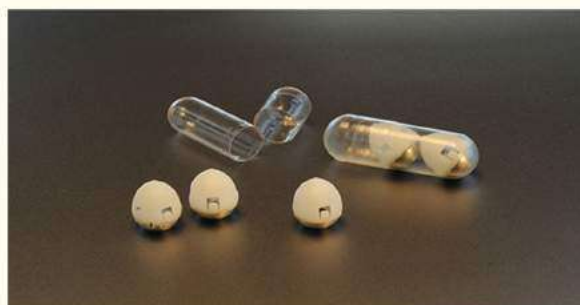


REFERENCE:

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TORTOISE-SHAPED PILL INJECTS INSULIN INTO STOMACH LINING

ROSHNA PHILIP V
II Pharm.D



Researchers have long sought ways to deliver insulin using pills instead of unpleasant injections. However, many medications are vulnerable to the acidity and digestive enzymes found in the digestive tract. To overcome this challenge, researchers have developed an easily swallowed blueberry-sized capsule that can inject delicate molecules into the stomach lining. The stomach wall has no pain receptors, so the scientists believe that patients should not feel the injection.

The tip of the device's needle, made of freeze-dried insulin, is attached to a compressed spring that is held in place by a disk made of sugar. When water in the stomach dissolves the disk, the spring releases and injects the needle into the stomach wall. In tests in pigs, the device successfully delivered up to 0.3 milligrams of insulin, enough to lower blood sugar to levels comparable to those produced via traditional injections. The scientists could also increase the dose to 5 milligrams, comparable to what someone with Type 2 diabetes would need. The researchers saw no sign of tissue damage or other problems from the stomach injections.

SOME E. COLI SET OFF VIRAL GRENADES INSIDE NEARBY BACTERIA

AARON SAJU
II Pharm.D

Certain *Escherichia coli* bacteria, including some that live in human intestines, make a chemical called colibactin. That chemical awakens dormant viruses inside nearby bacteria, sometimes leading to their destruction, researchers report February 23 in *Nature*.



This type of biological warfare among bacteria hasn't been described before. "It's an interesting strategy, and it's also a dangerous strategy," says Heather Hendrickson, an evolutionary microbiologist at the University of Canterbury in Christchurch, New Zealand, who was not involved in the work.

Colibactin producers must creep up on their bacterial enemies and trigger the unexploded ordinance hiding in the enemies' DNA. Those grenades are prophages – bacteria-infecting viruses that have inserted themselves into their hosts' DNA, where they hide out harmless and dormant until something triggers their awakening. That something, in this case, is DNA damage caused by colibactin.

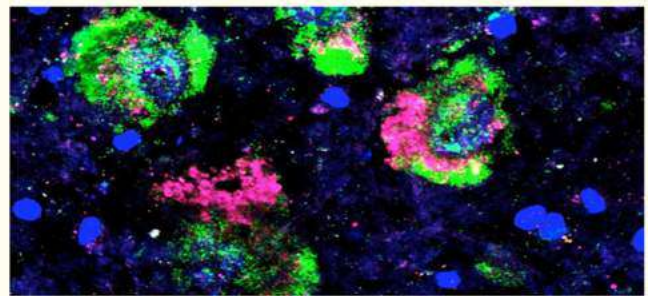
When colibactin dings DNA, a bacterial repair system called the SOS response kicks in, chemical biologist Emily Balskus and colleagues found. "What many phages have done is to tap into that response," says Balskus, a Howard Hughes Medical Institute investigator at Harvard University.

"It's a signal for them to move out of this dormant lifestyle and awaken to kill their host and move on to find a new host," she says. Once phages wake up, they replicate and burst out of the host cell, destroying it. But once these viral grenades go off, they can infect other bacteria, potentially exposing the attacking bacteria and other close-by microbes to biological shrapnel.

Humans might also get caught in the cross fire. Researchers already knew that colibactin can cause damage to human DNA that may lead to colon cancer. But why the bacteria would use the chemical against people wasn't known.

A VERY SPECIFIC KIND OF BRAIN CELL DIES OFF IN PEOPLE WITH PARKINSON'S

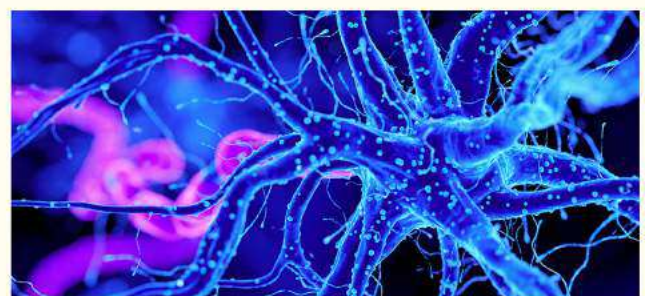
APARNA S NAIR
II Pharm.D



Deep in the human brain, a very specific kind of cell dies during Parkinson's disease. For the first time, researchers have sorted large numbers of human brain cells in the substantia nigra into 10 distinct types. Just one is especially vulnerable in Parkinson's disease, the team reports May 5 in *Nature Neuroscience*. The result could lead to a clearer view of how Parkinson's takes hold, and perhaps even ways to stop it. The new research "goes right to the core of the matter," says neuroscientist Raj Awatramani of Northwestern University Feinberg School of Medicine in Chicago. Pinpointing the brain cells that seem to be especially susceptible to the devastating disease is "the strength of this paper," says Awatramani, who was not involved in the study.

Parkinson's disease steals people's ability to move smoothly, leaving balance problems, tremors and rigidity. Scientists have known for decades that these symptoms come with the death of nerve cells in the substantia nigra. Neurons there churn out dopamine, a chemical signal involved in movement, among other jobs.

But those dopamine-making neurons are not all equally vulnerable in Parkinson's, it turns out. "This seemed like an opportunity to really clarify which kinds of cells are actually dying in Parkinson's disease," says Evan Macosko, a psychiatrist and neuroscientist



DRUG LINKED COMPLICATIONS OF NON PRESCRIPTION DRUGS IN COMMUNITY PHARMACY



DAWN V J
Assistant Professor
Department of Pharmacy Practice
Nehru College of Pharmacy, Thiruvilwamala,
Pampady, Thrissur

WHO defines pharmacovigilance as the “science and activities related to the detection, assessment, understanding and prevention of adverse effects or any other possible drug-related problem”. Pharmacovigilance aims at creating the best use of medicines with the help of high quality data obtained through a reporting system. Pharmacovigilance involves activities associated with understanding, assessment, detection and prevention of adverse effects or any other drug-related problems. Pharmacovigilance is a incessant process established for safety evaluation followed by steps to improve safe usage of medicines. Pharmacovigilance is needed in India to protect the population from impending harm and adverse effects of drugs. World Health Organization (WHO) defined ADR as “A response which is noxious and unintended, and which occurs at doses normally used in humans for the prophylaxis, diagnosis, or therapy of disease, or for the modification of physiological function”. Pharmacovigilance Program of India (PvPI) encourages all types of suspected ADRs reporting which can be known or unknown, serious or non-serious and frequent or rare. ADRs coupled with the use of allopathic medicines, vaccines, traditional medicines, medical devices, contrast media, etc. can be reported. Over the counter drugs are medicines sold directly to a consumer without a prerequisite for a prescription from a healthcare professional, as opposed to prescription drugs, which may be supplied only to consumers possessing a valid prescription. A community pharmacist plays an important role in the identification, detection, prevention and management of ADRs. Community pharmacist has another exclusive advantage of detecting and reporting ADRs related to OTC drugs, while practicing their profession. Itching, vomiting, pruritis, nausea, rashes are commonly reported ADR of OTC drugs. It will ultimately benefit to patient community.

Keywords: pharmacovigilance. Adverse drug reaction, over the counter drugs, ADRs reporting, Community pharmacist

CORDYCEPS-MILITARIS- THE HIMALAYAN GOLD!

GAYATHRI P
IV Sem B.Pharm

Cordyceps - Militaris is an endoparasitic fungus and parasitize on lava of Himalayan Bat Moth .It is one of the most expensive and efficient medicinal fungus.

It is found at an altitude of 2500 m and belongs to family clavicipitaceal in class pyrenomycetous of order Byopcreales of ascomycetous fungi.

One of the main active constituent of C.Militaris is 'cordycepin', a nucleoside analogue considered as a nucleic acid antibiotic that might inhibit canceration of cell and have a anti-inflammatory, antioxidant, antitumor, antileukemic activity. Hence, cordycepin is used in treatment of cancer. Also they are used to treat cough, chronic bronchitis, respiratory disorder, kidney disorder, night time urination, anemia, irregular heart beat etc.



Cordycepin can be abstracted from cordyceps Militaris by following procedures: Degreasing with petroleum ether, increasing its concentration using ethanol, then extract with ethyl acetate and finally purification using DI 400 resin.

Since these species are found within our country (Bimalaya) we can isolate various explant from it and increase the production of militaris and their medicinal product using invitro techniques (tissue culture). It will be an asset to our country both healthil) and economically.

GIYBERA FOR THE TREATMENT OF LIPOPROTEIN LIPASE DEFICIENCY



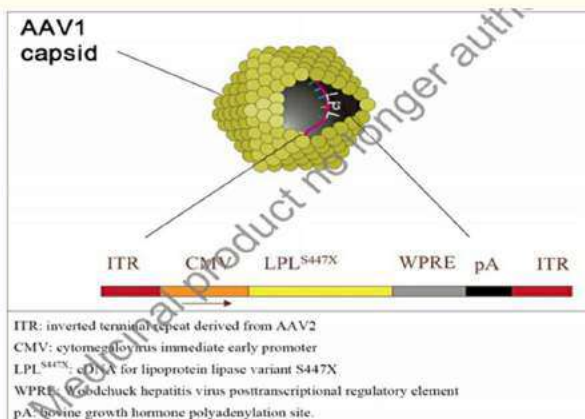
RENJIMA K
III Sem B.Pharm

Glybera, is an gene therapy treatment designed to reverse lipoprotein lipase deficiency [LPLD], a rare recessive disorder, due to mutations in LPL, which can cause severe pancreatitis.

Glybera is a medicine that contains the active substance alipogene tiparvovec. Glybera is a type of advanced therapy medicine called a 'gene therapy product'. This is a type of medicine that works by delivering genes into the body. Glybera [Alipogenetiparvovec] is a replication-deficient adeno-associated viral vector designed to deliver and express human LPL gene variant LPLS447X. Glybera drug substance is produced employing a baculovirus expression vector system. Glybera drug is a sterile solution for injection presented in single use vials. Each vial contains 3×10^{12} genome copies of AAV1-LPLS447X (alipogenetiparvovec) in one ml of a phosphate based formulation buffer containing 5% sucrose. Glybera is to be administered once at multiple sites intramuscularly at a dose of 1×10^{12} gc/kg bodyweight.

NAME OF MEDICINAL PRODUCT

Glybera 3×10^{12} genome copies/ml solution for injection.



PHARMACOKINETICS

ABSORPTION

Absorption of Glybera has not been conducted. The product is given intramuscularly and the expectation is that Glybera expresses transgene within the muscle.

DISTRIBUTION

Biodistribution of vector was studied in cats, mice and rabbits. For these studies some guidelines followed such as Biodistribution and shedding carried in animals and others are carried out in persistence. The main tissues where vector DNA was detected in injected muscle, liver, spleen and inguinal lymph nodes. In cats, AMT 10 vector DNA was detected in testis, epididymis and motile sperm fraction indicating some dissemination of vector to their gonads. In mice, a time course for loss of expression was evident. However, complete

clearance was not confirmed over an observation period of up to 180 days. Injected muscle and, to lesser extent, inguinal lymph node retained expression.

SPECIAL WARNING AND PRECAUTIONS FOR USE

DIET: Patients are advised to continue to follow a low-fat diet and refrain from alcohol consumption.

DIABETIC PATIENTS: Diabetics mellitus is common in patients who have more severe symptoms of LPLD.

SODIUM CONTENT AND POTASSIUM CONTENT:

This medicinal product contains 47.5mg sodium/administration at 27 injection sites to 105.6mg sodium / administration at 60 injection sites. To be taken into consideration by patients for controlling sodium diet. The product contains less than 39mg potassium/administration of 27-60 injection sites that is essentially potassium free.

CELL AND TISSUE DONATION:

Treated patients should not donate blood, organs, tissues and cells for transplantation. This information is also provided in Glybera patients alert card.

SERUM CREATINE KINASE:

Recipients of Glybera may display an increase in serum creatine kinase activity that becomes evident about 2 weeks after administration, peaks at around 8 weeks and then returns to baseline by week 26. One patient developed myoglobinuria in association with raised serum creatine kinase activity. Muscle biopsies obtained up to 52 weeks after administration of Glybera show an infiltrate of lymphocytes and macrophages. Long term consequences of this cellular infiltration are not known.

QUALITATIVE AND QUANTITATIVE COMPOSITION

Alipogene tiparvovec contains 3×10^{12} genome copies.

Excipients with known effect:

- Disodium phosphate anhydrous
- Potassium chloride
- Potassium dihydrogen phosphate.
- Sodium chloride.
- Sucrose
- Water for injections.

SPECIAL PRECAUTIONS FOR STORAGE :

- Store and transport vial frozen -25°C to -150°C .
- Keep vial in outer carton in order to protect from light.

POSODOLOGY:

The maximum total dose of Glybera for administration is 1×10^{12} gc/kg bodyweight. Glybera is authorised for single treatment only. Glybera is administered as a one-time series of intramuscular injections in legs. To calculate number of vials, patients weight is determined to the nearest whole kg. The patients weight should be divided by 3, and rounded up to next higher wholenumber. This is the number of vials that must be dispensed. From three days prior to and for 12 weeks following Glybera administration and immunosuppressive regimen should be administered: ciclosporin (3mg/kg/day) and mycophenolatemofetil (2×1 g/day) is recommended.

In addition, half an hour prior to Glybera injection an intravenous bolus of 1mg/kg of methyl prednisolone should be administered.

METHOD OF ADMINISTRATION

Upon intramuscular injection, patient will receive multiple injections of 0.5ml, distributed over muscles of both upper and lower legs, under aseptic conditions such as iodine. Spinal or regional anaesthesia is advised prior to intramuscular administration, due to number of injections required. In case of contraindication for such procedure deep sedation is advised instead. Glybera shouldn't administered intravascularly. To ensure intra muscular injection, ultra sound or electrophysiological guidance of injections is advised.

POSSIBLE SIDE EFFECTS

- ☒ Pain in leg {pain in extremity}.
- ☒ Raised body temperature.
- ☒ Increased blood level of muscle enzyme creatine kinase.
- ☒ Bruises in upper and lower leg muscle due to injections. They only last for short time.
- ☒ Abdominal pain.
- ☒ Constipation.

USES OF GLYBERA

Glybera contains alipogene tiparvovec, a gene therapy product that works by delivering a gene in to the body to correct a genetic deficiency. Glybera is used to treat specific inherited condition known as "Lipoprotein lipase deficiency". Lipoprotein lipase is a naturally occurring substance in body that controls level of certain fats in blood. Glybera is used to treat adult patients diagnosed with LPLD and suffering from multiple pancreatitis attacks despite dietary fat restrictions.

THE CONDITIONS IN WHICH GLYBERA IS NOT RECOMMENDED.

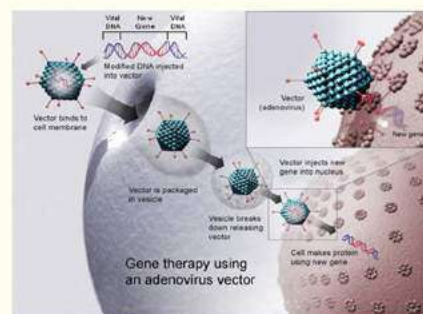
Glybera is not recommended for use in children and adolescents under 18 years of age.

People diagnosed with LPLD are advised to be careful with their diet, both before and after Glybera therapy, they should not drink alcohol.

Glybera is not usually recommended during pregnancy

MECHANISM OF ACTION

Glybera contains the human LPL gene variant LPLS447X is an adeno-associated virus serotype 1 (AAVI) vector intended to target the muscle. Glybera is injected as one - time series into the muscle of the lower extremities where it is taken up by myocytes. Elements of vector were chosen such that expression of the LPLS447X gene is promoted, by co-opting expression machinery of the cell and the myocytes produce the protein product of transgene LPLS447X without the vector being able to reproduce itself.



PHARMACODYNAMICS EFFECTS

Lipoprotein lipase is a key 'first step' enzyme in the metabolism of lipoproteins following fats intake with diets. In clinical studies a transient reduction in triglycerides for up to 12 weeks in individual patients could be observed. Further for, Glybera allows expression of LPL protein in injected muscle which is reflected by improvement of postprandial chylomicron metabolism observed in a small subset of patients.

CONCLUSION

Glybera is used to treat adults with LPLD who have severe or multiple attacks of pancreatitis despite maintaining a low fat diet. It is administered as one time series of intra muscular injection in legs. Dose per injection site is 1×10^{12} gc or 0.5ml of solution for injection. Glybera was the most expensive prescription medication in history at RS 1 million for one time round of injections. It contains engineered viruses carrying copies of gene meant to correct LPLD, a rare metabolic disease.

References

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4. glyber-epar-summary-public-en

RECENT ADVANCES AND FUTURE DIRECTIONS IN BIOPSYCHOSOCIAL APPROACHES IN RHEUMATOLOGY



Mr. Jithin Mathew
Assistant Professor
Department of Pharmacology
Nehru College of Pharmacy,

Arthritis is derived from the Greek term “disease of the joints.” It is defined as an acute or chronic joint inflammation that often co-exists with pain and structural damage. Arthritis is not synonymous with arthralgia, which refers to pain localized to a joint, regardless of the origin of the pain (which may or may not be due to joint inflammation). More than 100 different types of arthritis have been described, the most common being osteoarthritis or degenerative arthritis which is non-inflammatory arthritis. Inflammatory arthritis can occur in several settings, and inflammation can be caused by autoimmune processes (rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, etc.), crystal deposition induced inflammation (gout, pseudogout, basic calcium phosphate disease) or infections (septic arthritis, Lyme's arthritis). Inflammatory arthritis can also accompany other autoimmune connective tissue diseases such as systemic lupus erythematosus, Sjogren syndrome, scleroderma, myositis, inflammatory bowel disease, celiac disease, etc.

Francis J. Keefe et al. proposed an article which provides an overview of the emerging literature on biopsychosocial assessment and treatment for two of the most common forms of arthritis: osteoarthritis and rheumatoid arthritis. The article is divided into 3 parts. In the 1st part, the basic elements of the biopsychosocial approach to assessing and treating persons having arthritis is described. In the 2nd part, the authors evaluate studies of biopsychosocial approaches to the assessment of arthritis pain and disability. Six research areas are reviewed: learned helplessness, depression, stress, pain coping, self-efficacy, and the social context of arthritis. The 3rd part of the article reviews studies that testing the efficacy of biopsychosocial treatment approaches for persons having osteoarthritis and rheumatoid arthritis.

Arthritic disorders such as OA and RA are particularly appropriate diseases in which to apply the biopsychosocial model. These diseases are among the most common forms of arthritis, are chronic in nature, cannot be cured using current biomedical treatments, and can produce high levels of pain and disability. The biopsychosocial model continues to be a very useful approach to understanding both pain and disability. The biopsychosocial model provides a systems perspective on arthritis. Changes in one part of the system can produce changes in another part of the system. For example, increases in disease activity (a biological change) can lead to increases in anxiety and depression (psychological changes) and decreases in the ability to work or perform household chores (social changes), both of which, in turn, can increase pain and disability. Alternatively, improvements in a person's self-efficacy about controlling arthritis symptoms (a psychological change) can lead to enhanced compliance with medications (producing biological changes) or increased interaction with supportive friends and family (a social change), both of which can reduce pain and disability.

Biopsychosocial Approaches to Treating Arthritis:

Since the initial application of cognitive-behavioural treatment interventions for rheumatoid arthritis in the early to mid-1980s, there has been growing evidence that psychosocial interventions may be helpful in the management of arthritis pain. Newer protocols encourage persons having arthritis to use coping skills and cognitive-behavioural interventions not only to manage pain but also to address psychological disturbance, interpersonal distress, and physical function.

Psychosocial Interventions for Osteoarthritis:

The studies based on persons having OA showed that cognitive-behavioral treatment protocols focused on teaching pain coping skills were effective in decreasing pain and reducing psychological disability when compared with arthritis education or standard care control conditions. More recent direction for intervention research in OA has been studies testing effects of involving spouses in pain coping skills training. Studies, revealed that persons in the spouse-assisted coping skills training condition and the conventional coping skills training condition showed significant immediate improvements in pain, psychological disability, self-efficacy, and marital satisfaction. These studies suggest that more intensive treatment may be needed to produce clinically significant benefits in persons undergoing surgical procedures for arthritis. In addition, the timing of intervention may be critical. Working with persons on the day prior to surgery may not be effective, whereas educating and training persons over several weeks prior to surgery may be much more effective in enhancing learning and mastery of coping skills.

Psychosocial Interventions for Rheumatoid Arthritis:

A much larger number of controlled studies of psychosocial interventions have been conducted in RA populations than in OA populations. These studies have addressed a variety of questions regarding treatment efficacy. Radojevic, Nicassio, and Weisman et al 1992 tested whether the addition of a family support component could enhance the efficacy of a cognitive-behavioural therapy intervention for controlling RA symptoms and he concluded that cognitive-behavioural interventions are effective in managing RA disease-related symptoms and underscored the potential use of involving family members in cognitive-behavioural treatments for RA. Another recent study of persons having RA conducted by Leibing, et. al. 1999 compared the effects of a comprehensive cognitive-behavioral treatment protocol with a routine care control condition. When compared with persons in the control condition, persons in the cognitive-behavioral treatment condition showed significant improvements in pain affect, coping, and emotional stability. They focused primarily on pain management. With the increasing emphasis on cost control in health care, investigators have begun exploring the effects of briefer psychosocial interventions for managing RA and the findings suggest that brief psychosocial protocols might be beneficial for persons having arthritis. A promising new area of intervention research in arthritis management involves the study of the emotional disclosure paradigm developed by Pennebaker and colleagues. The review indicated that emotional disclosure is associated with significant improvements in physical health, psychological well-being, physiological functioning, and general functioning.

FUTURE GOALS

Recognition of arthritis is a complex disease with multifactorial nature, and the whole joints are involved in the degenerative process is crucial for cartilage repair. Therefore, it is necessary to increase our knowledge in basic sciences to comprehensively understand the mechanism of different joint components in arthritic pathology. Until now, in the clinics, conservative management, including physical measures and pharmacological therapy are still the first choices offered for arthritic patients. Joint arthroplasties or total replacement surgeries are served as the ultimate therapeutic option to rehabilitate the joint function of patients who withstand severe arthritis. However, these approaches are not able to induce healing processes or halt the degenerative processes in the joints.

Demand for cartilage regeneration remains a big challenge both for clinicians and researchers thanks to the innovations and advances in biomaterials and biotechnology, more and more research efforts have been devoted to studying cartilage repair through non-surgical approaches.

Rheumatology is a dynamic field in the midst of a treatment revolution that is leading to dramatically improved outcomes for patients with RA. Along with all other providers, rheumatologists are well aware of cost issues and look forward to working with other stakeholders to assure that the benefits of modern treatment can extend to as many patients as possible in a way that meaningfully balances costs and outcomes.

SOCIAL PSYCHOLOGY IN EDUCATION



RESHMA B V
Assistant Professor,
Department of Pharmacology
Nehru College of Pharmacy

Social Psychology of education draws from the disciplines of psychology, sociology, and education in order to help us better understand human behavior in education. Now a days the students are totally entrusted in the curriculum and they were not understand the value of education. And the humanitarian thoughts and the social concerns of the students were diminished now days. And the curriculum is totally related with the peripheral knowledge. Along with that the gap in the literature by covering a wide variety of content concerns (e.g., classroom instruction, student cultures and interactions), theoretical interests (e.g., group dynamics, social learning theory), and research methods (e.g., comparative research, literature reviews, panel studies) should be enhanced. Articles are of particular value to social psychologists with an interest in educational matters and educational researchers who use or are interested in using a social psychological approach. And only after to that the education can develop a magnificent human being.

Apart from the books the students must undergo the social education. While doing social work, the students feel contented. It gives them a very nice feeling. It gives Satisfaction to the Students: The students feel satisfied when they help in social services or participate in social work. The students feel that they have some role in the society. Social work is a practice-based profession and an academic discipline that promotes social change

and development, social cohesion, and the empowerment and liberation of people. Principles of social justice, human rights, collective responsibility and respect for diversities are central to social work. Social services include the benefits and facilities such as education, food subsidies, health care, job training and subsidized housing, adoption, community management, policy research, and lobbying. When social workers are active in a community, it tends to have a positive impact on crime rates, health statistics, school attendance and employment." The importance of social workers is evident in their ability to heal communities and empower foundational institutions like schools and workplace. So in addition to the text books the students must understand the moral values and behavior

Work with local structures to move resources down to community level, stimulate demand for services, monitor service providers and promote positive political and social change. On the demand side, consider social protection measures that reduce vulnerability and facilitate access to services for the poor. Social benefits (or social transfers) are transfers made (in cash or in kind) to persons or families to lighten the financial burden of protection from various risks. Community social workers lead the charge when problems occur involving community members. They work with existing organizations or groups of concerned citizens to solve problems such as addressing inadequate living conditions, or helping to fight the placement of a toxic landfill. We define "social advantage" as a company's ability to generate value and achieve competitive advantage by sustainably aligning its business model with its broader social and ecological context. Social change leads to increased awareness and more understanding due to the presence of more information in the community, which enables people to make informed decisions based on the scenario at hand. So the valuable education starts from human heart. And the blossoms of new strategy must be developed from the social education.

SIDE EFFECTS OF COVID - 19 VACCINATION

JISHA K
IV Sem B.Pharm

• POSSIBLE SIDE EFFECTS

COVID-19 vaccination helps protect people from getting COVID-19. Some people have side effects from the vaccine, which are normal signs that their body is building protection.

These side effects may affect their ability to do daily activities, but they should go away in a few days. Some people have no side effects and allergic reactions are rare, adverse effects that could cause a long term health problem are extremely unusual following any vaccination, including COVID -19 vaccination. If adverse effects occur, they generally happen within six weeks of receiving a vaccine dose. For this reason, during clinical trials, the U.S food and drug administration (FDA) collected data on each of the authorized Covid- 19 vaccines for a minimum of 2 months after the final dose.

• COMMON SIDE EFFECTS:

ON THE ARM WHERE YOU GOT THE SHOT:
Pain, Redness, Swelling
THROUGHOUT THE REST OF YOUR BODY:
Tiredness, Headache, Muscle pain, Chills, Fever, Nausea

• HELPFUL TIPS TO RELIEVE SIDE EFFECTS:

Talk to a doctor about taking over the counter medicine, such as ibuprofen, acetaminophen, aspirin (only for people ages 18 years or older), or antihistamines for any pain and discomfort experienced after getting vaccinated.

• TO REDUCE PAIN AND DISCOMFORT WHERE THE SHOT IS GIVEN:

- Apply a clean, cool, wet wash cloth over the area
- Use or exercise your arm.



SHERIN FARSI
VI Sem B.Pharm



DEPARTMENTAL ACTIVITIES

DEPARTMENT OF PHARMACEUTICS

Publication list

1. **Dr.N.Tamilselvan** has published a book chapter entitled “Nano - Carriers for Neuro Degenerative Disorders” in Emerging Trends in Medical Sciences, by Integrated Publications, New Delhi Vol 3 , 29-49, 2022,(ISBN number: 978-93-93502-16-2)
2. **Dr. N. Tamilselvan**, Chaitanya, Keerthana, Dereena davis, Divya K, Dona Haris., Formulation and Evaluation of Passiflora Edulis Face Cream, International Journal of Creative Research Thoughts (IJCRT), Volume 10, Issue 4 April 2022, 813-825.
3. **Dr. N Tamilselvan**, Hind T P, Jisna, Jojoy T Thomas, Mufeeda Farshana C, Nishana Parvin M T, Development & Evaluation of Medicated Scalp Serum , International Journal of Creative Research Thoughts (IJCRT), Volume 10, Issue 4 April 2022, 311-319.
4. Thasni K.S, Silpa V.S, Sreekumar C.N, Vandhana Vasu, **Divya Gupta P.K, Nihala Nazeer**, Formulation and Evaluation of Herbal Derived Bath Bomb, International Journal of Creative Research Thoughts (IJCRT), Volume 10, Issue 4 April 2022, 273-280.
5. **Jincy V Varghese**, Krishnapriya E, Megha H, Mubashira P M, Rejin Jose, Shana P K, Formulation and Evaluation of Polyherbal Antifungal Cream , International Journal of Creative Research Thoughts (IJCRT) , Volume 10, Issue 4 April 2022 ,795-800.
6. **Jincy.V. Varghese**, Athira P, Sandra T.S, Sruthi K.B, Stella Jose, A Research on Formulation and Evaluation of Polyherbal Antiacne Facewash, International Journal of Creative Research Thoughts (IJCRT), Volume 10, Issue 4 April 2022 ,488-498
7. **Mrs. Sneha V.R**, Jisna K, Keerthi K.B, Muhammed Faris P. Rajshree J, Gynecology Medication Market; A Detailed Survey on Prescribing Preferences, International Journal of Creative Research Thoughts (IJCRT), Volume 10, Issue 4 April 2022, 335-347.

Seminars/Webinars/Presentations

1. **Dr.N. Tamilselvan** has attended the two days refresher course on “Research & Innovative Formulation Technologies for Faculties of Pharmaceutics’ Organized by Academic Staff College, Kerala University of Health Sciences, Kerala on 18th and 19th Feb 2022.
2. **Dr. C. Senthil Kumar** participated Two Days Refresher courses on updates in “Research and Innovative Formulation Technologies for Faculties of Pharmaceutics” held during 18th February - 19th February, 2022 organized by Department of Academic Staff College, Kerala University of Health Sciences, Thrissur, Kerala .
3. **Dr. C. Senthil Kumar** participated in One Day E- Symposium on “Innovation & Advancements in Topical Product Development” on 25th March, 2022 organized by Department of Pharmaceutics, National Institute of Pharmaceutical Education and Research (NIPER), Kolkata, West Bengal.
4. **Dr. C. Senthil Kumar** participated Three Days National Workshop on Development of Nano carrier Systems for Drug Delivery held during 28th March - 30th March, 2022 organized by Department of Pharmacy, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh.
5. **Dr. C. Senthil Kumar** participated in One Day Webinar on “Skill Set & Opportunities for A Competent Pharm.D Graduate” on 31st March, 2022 organized by Department of Placement & Alumni, Nehru College of Pharmacy, Thrissur, Kerala.
6. **Dr. C. Senthil Kumar** participated in One Day Webinar on “IP and Youth: Innovating for a Better Future” on 26th April, 2022 organized by Institution Innovation Cell Annamacharya College of Pharmacy, Rajampet, Andhra Pradesh.

7. **Dr. C. Senthil Kumar** participated in the MHRD sponsored GIAN Course on New Concepts in Tumor Biology : From Bench to Bedside held during 6th,13th,18th,20th & 28th (5days) May 2022.
8. Doulath Neesa A.K, Aiswarya K, **Dr. R. Prema, Dr. C. Senthil Kumar, Dr.K.Prabu** For presenting the paper entitled "Cancer treatment using nanotechnology" **SECOND PRIZE** at ePresentation in National Level Virtual Symposium on "Extant Scenario in Pharmaceutical Sciences" on **11th June 2022** organised by Srinivasan College of Pharmaceutical Sciences, Samayapuram, Tiruchirapalli, Tamilnadu.
9. Hima Merin Shibu*, Sinsila T P, **Dr. R. Prema, Dr. C. Senthil Kumar, Dr.K.Prabu** For presenting the paper entitled "Cell Banking" at ePresentation in National Level Virtual Symposium on "Extant Scenario in Pharmaceutical Sciences" on **11th June 2022** organised by Srinivasan College of Pharmaceutical Sciences, Samayapuram, Tiruchirapalli, Tamilnadu.
10. Shahanas.N.A*, Shahna, **Dr. R. Prema, Dr. C. Senthil Kumar, Dr.K.Prabu** For presenting the paper entitled "Palm Vein Technology" at ePresentation in National Level Virtual Symposium on "Extant Scenario in Pharmaceutical Sciences" on 11th June 2022 organised by Srinivasan College of Pharmaceutical Sciences, Samayapuram, Tiruchirapalli, Tamilnadu.
11. Roshna Philip.V*, Alfa mohammed , **Dr. R. Prema , Dr. C. Senthil Kumar, Dr. K. Prabu** For presenting the paper entitled "Biotechnology in India Current Scene" at ePresentation in National Level Virtual Symposium on "Extant Scenario in Pharmaceutical Sciences" on **11th June 2022** organised by Srinivasan College of Pharmaceutical Sciences , Samayapuram , Tiruchirapalli, Tamilnadu.
12. Radhika Sivaraj, Sharon M.V, **Dr. R. Prema, Dr. C. Senthil Kumar, Dr.K.Prabu** For presenting the paper entitled "Biotechnology in India Current Scene" at ePresentation in National Level Virtual Symposium on "Extant Scenario in Pharmaceutical Sciences" on **11th June 2022** organised by Srinivasan College of Pharmaceutical Sciences, Samayapuram, Tiruchirapalli, Tamilnadu.
13. **Dr. R. Prema** participated as a delegate in the online " CPE Programme on Recent Updates in Formulation , Optimization & Regulatory Perspectives in Dosage Form Development ", between 3rd - 8th January 2022. PSG College of Pharmacy, Coimbatore, Tamilnadu. This activity has been reviewed and accepted by the Centre for Accreditation, The Tamil Nadu Dr. M. G. R. Medical University designates this educational activity for a maximum of 15 credit points in Category II.
14. **Dr. R. Prema** participated Two Days Refresher courses on updates in " Research and Innovative Formulation Technologies for Faculties of Pharmaceutics" held during 18th February - 19th February, 2022 organized by Department of Academic Staff College, Kerala University of Health Sciences, Thrissur, Kerala.
15. **Dr. R. Prema** participated in One Day Webinar on "Skill Set and Opportunities for A Competent Pharm.D Graduate" on 31st March, 2022 organized by Department of Placement and Alumni, Nehru College of Pharmacy, Thrissur, Kerala.
16. **Dr. R. Prema** participated in One Day Webinar on "IP and Youth: Innovating for a Better Future" on 26th April, 2022 organized by Institution Innovation Cell Annamacharya College of Pharmacy, Rajampet, Andhra Pradesh.
17. **Dr. R. Prema** participated in the MHRD sponsored GIAN Course on New Concepts in Tumor Biology : From Bench to Bedside held during 6th,13th,18th,20th & 28th (5days) May 2022.

DEPARTMENT OF PHARMACOLOGY

TEXT BOOK PUBLISHED

Mr. Jithin Mathew has published Text book entitled as Experimental Pharmacology , Pritam Publishers, Jalgon, Maharashtra , First edition- 2022 ISBN : 978-93- 92519.74-9.

PUBLICATION LIST (RESEARCH AND REVIEW)

1. K.G.Prasanth, Jithin Mathew, Mokua William Onchoke " Rosmarinic acid exerts Protective effect on Oxalipalatin Induced Peripheral neuropathy: Behavioral, Neurophysiological and Histopathological evidence" European Journal of Pharmaceutical science research 2022 : 9(4) : 335-341 ISSN : 2394-3211.

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1. K.G.Prasanth, Jithin Mathew, Mooka William Onchoke " Rosmarinic acid exerts Protective effect on Oxalipalatin Induced Peripheral neuropathy: Behavioral, Neurophysiological and Histopathological evidence" European Journal of Pharmaceutical science research 2022 : 9(4) : 335-341 ISSN : 2394-3211.
2. Jithin Mathew, Litty Joseph, Sujitha PV " Predicting Accelerated rheumatoid arthritic incidence of Statins by In vitro Techniques" Indo American Journal of Pharmaceutical Sciences 2022 :9(4) : 204-207 ISSN 2349-7750.
3. Jithin Mathew, Litty Joseph "Statins accelerated arthritic Incidence: Ex vivo Antioxidant and Histopathological Analysis " Journal of University of shangai for science and technology 2022 : 23(1) : 902-909 :ISSN : 1007-6735.
4. K.G.Prasanth, Jithin Mathew, Sruthi V.M, Megha Suresh, Safa Sharafudeen "Recent Advances and Future outlooks of Chemotherapy induced peripheral neuropathy" International Journal of Emerging Technology and Innovative Research 2022 : 9(5) : 610-614 : ISSN : 2349-5162.
5. Jithin Mathew, K.G.Prasanth, Farsana, Haneena P, Nitha Nezerine" Current Pharmacological Interventions and Development of Innovative treatment techniques for the treatment of Arthritis " International Journal of Emerging Technology and Innovative Research 2022 : 9(5) : 593-600 : ISSN : 2349-5162.

PRESENTATION

1. Mr. Jithin Mathew has presented an e- Poster entitled as Statin Exerts Inflammatory incidence on Wistar rats by carrageenan induced paw edema model in the International webinar PRIP INNOVATE -4: Novel sterically stabilized disulphide linkers for gene therapy and peptide drug discovery, Organized by Department of Pharmaceutical Analysis, Pulla Reddy Institute of Pharmacy, Hyderabad on 28th January 2022.

SEMINARS/WEBINARS/ ACTIVITIES/FDP

1. Mr. Jithin Mathew, Mrs. Reshma BV, Mrs. Sujitha PV, Ms. Gayathri P, Ms. Akshaya K attended two days FDP PRAPHODITHA on 11th and 12th February 2022 at Jawaharlal College of Engineering, Lakkidi, Palakkad.
2. Mr. Jithin Mathew has attended an online webinar on Ek BharathShresth Bharat Programme on Jal Sakthi Abiyan : Catch the rain 2022 organized by Department of Environmental Science, Faculty of Science, Sarvajanik University surat on 25th March 2022.
3. Mr. Jithin Mathew has attended an Online webinar on Skill Set and Opportunities for A Competent Pharm.D Graduate" on 31st March, 2022 organized by Placement and Alumni cell, Nehru College of Pharmacy, Thrissur, Kerala.
4. Mr. Jithin Mathew has attended an International webinar PRIP INNOVATE -4: Novel sterically stabilized disulphide linkers for gene therapy and peptide drug discovery, Organized by Department of Pharmaceutical Analysis, Pulla Reddy Institute of Pharmacy, Hyderabad on 28th January 2022.
5. Institutional Animal Ethical Committee was approved by CPCSEA, Newdelhi. The activities are coordinated by Dr. K.G. Prasanth and Mr. Jithin Mathew

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

Publication list

1. Abitha H, Dr. K. Prabhu, Anshiha Shakkir, Anuja George, Aswathi P, Haritha P: A Study on Phyto chemical Composition, GC-MS Analysis of Ethyl acetate of Hemigraphis Alternata: International Journal of Creative Research Thoughts (IJCRT), Volume 10, Issue 3 April 2022, 2320-2882.
2. G.Geetha, Aiswarya Sundan, Alfiya Abu, Anagha .K, Anjali Krishnan.P : Ethnobotany and In vitro Pharmacological activity of Camelia Sinesis (Theaceae) and Mangifera indica (Anacardiaceae).

Seminars/Webinars

1. Ms. Amrutha S attended two days FDP "PRABHODITHA" on 11th and 12th February 2022 at JCT.
2. Ms. Vismaya K V attended two days FDP "PRABHODITHA" on 11th and 12th February 2022 at JCT.
3. Ms. Athira J S attended two days FDP "PRABHODITHA" on 11th and 12th February 2022 at JCT.
4. Ms. K. V. Vismaya attended three days national conference on "Enterpreneurship and startup opportunities in Herbal Drugs-A way Forward" held on 8 to 10 March organised by Maharshi Day anand University.

DEPARTMENT OF PHARMACY PRACTICE

WEBINAR/ EXPERT TALK / RESEARCH / PUBLICATIONS / OUTREACH ACTIVITIES / ADD-ON PROGRAMME

Skill Set and Opportunities for a Competent Pharm.D Graduates by Dr. S. Sriram, SRIPMS, Coimbatore on 31st March 2022

Projects/ Research:

Student start up ideas are selected for grant by New Generation Innovation and Entrepreneurship Development center (NGI NewGen IEDC) in association with Department of Science and Technology (DST), Govt of India

NEHRU COLLEGE OF PHARMACY
(An ISO 9001:2008 Certified Institution)
Approved by Pharmacy Council of India, New Delhi, Affiliated to KJ Somaiya Institute of Pharmacy, Mumbai
B.Pharm Programme IBA Accredited
Nile Garden, Panagady, Thiruvananthapuram, Pincode-680 588, Kerala

WEBINAR
Prosper4Pharma:15, 2K22
"Skill Set and Opportunities For A Competent Pharm D Graduate"

DATE: 31 MARCH, 2022
TIME: 10:30 AM

Dr. S. Sriram,
M.Pharm, Ph.D.
Professor & Head,
Department of Pharmacy Practice,
College of Pharmacy, SRIPMS, Coimbatore

Convener:
Dr. Sapna Shrikumar,
Dean Academics,
Research and Placement

Co-Ordinators:
Mr. Jithin Mathew,
Mrs. Arya Jayakumar,
Mrs. Rajasee S

Co-Coordiators:
Mrs. Divya Gupta,
Mrs. Soorya Shankar

Department of Pharmacy Practice

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NEW GENERATION INNOVATION AND
ENTREPRENEURSHIP DEVELOPMENT CENTRE
(NGI NewGen IEDC)
Supported by NIDEST, Department of Science and Technology, Govt. of India
Dr. A.P.J. Abdul Kalam Block, Thiruvananthapuram, Coimbatore 641-105, Tamil Nadu

NEHRU COLLEGE OF PHARMACY

NEW GEN IEDC
PROJECTS :
2021 - 2022

1 DEVELOPMENT OF NATURAL PEPTIDE ANTI-MICROBIAL COATS AS BIOTECHNOLOGICAL TOOL
Mentor: Prof. Dr. Sapna Shrikumar
Senthilrishna P. K., Divya H. K., Sankshitha K. P.

2 ORGANIC FACE MASK WITH SILVER NANOPARTICLES
Mentor: Dr. T. Tamil Selvan
Abhil Apy, Nulith J.

C O N G R A T U L A T I O N S

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2. Surabhi Mohan.K, Dr. Tamilselvan.T, Vineetha.S, Liya Byju, Shafeena. Study on the Etiological Factors of Female Infertility & To Evaluate the Effect of Pharmacist-Led Patient Counseling In Improving Pregnancy Rate among Infertile Patients. International Journal of Pharmaceutical Research and Applications,2022; 7(2) : 432- 448. DOI: 10.35629/7781-0702432448
3. Sooriya A. , Dr. T. Tamil Selvan , Megha A. K. , Shafeena K. P. , Liya Biyju and Surabhi Mohan K. Pharmacoepidemiological Study on Use of Allopathic V/S Allopathic and Complementary Medicines in Lifestyle Diseases. World Journal of Pharmacy and Pharmaceutical Sciences, 2022;11(3):1918-1993. DOI: 10.20959/wjpps20223-21518. .
https://www.wjpps.com/Wjpps_controller/abstract_id/16210
4. Ayishathul Misiriya.M , Dr. T. Tamilselvan , Dr. Arya Alocious, Shafeena , Megha A.K, Liya Byju, A Prospective Study on the Role of Pharmacist in Improving the Knowledge and Medication Adherence of Pulmonary Disease Patients. International Journal of Pharmaceutical Research and Applications,2022; 7(1) : 565-587. DOI : 10.35629/7781- 0701565587.
<http://www.ijprajournal.com/current-issue.php?issueid=36>
5. Shafeena K P, Dr T Tamilselvan, Dr Arya Alocious, Surabhi Mohan, Megha A K, Sooriya A, Impact of Pharmacist Integrated Care on Qualityof Life of COPD Patients - A Prospective Study, 2022, ISSN 2249-7781, Volume 7, Issue 1, Page no: 1362-1384.
6. V. J dawn, E. N Aseeba, Femina sadik ali, Gloria franci, C. R Hana, A.P, Neethu. A Review of pharmacovigilance emergence and its scope in india International Journal Of Pharmaceutical Research And Applications, 2022, IS SN 2249-7781, Volume 7 , 1314-1326.
7. Arya jayakumar, Dawn v j, Arya p, Asha k s, Pavithran, Raihan k t, An overview of pharmacovigilance knowledge and reporting system among health care professionals, International journal of creave research thoughts, 2022, ISSN 2320-2882, Volume 10, 458-467.
8. Arya jayakumar, ka Jaleela, Raseena t a, Shibili p k, Vismaya mvAn overview of retrospective study of vaccine related adverse drug reactions in a tertiary care hospital, International Journal Of Creave Research Thoughts, ISSN 2320-2882, 2022, Volume 10,663-674.
9. Anchu c, Bismi bose, Shajitha V, Sneha Tom and Varsha Mathew , Adverse drug reactions of neurology medications and their assessment; an overview, World Journal Of Pharmaceutical And Medical Research (WJPMR) 2455-3301, 2022, 8(4), 196-207.

WORLD TB DAY (24/03/2022)

As part of World Tuberculosis day , a quiz competition was organized for the students of Nehru college of Pharmacy on 24/3/2022. A total of 12 students participated in 6 groups. The program was co-ordinated by Pharm D interns Alina , Ananthu Nandakumar , Sankeerthana C R, Sreelakshmi S(2016-2022, batch) with the support of faculties of Department of Pharmacy Practice Mrs. Rajasree and Dr. Arya Alocious. Ayisha and Divya Manoj (Pharm D interns) were the winners. Nimitha and Sai Lakshmi of 6th year Pharm D were the 1 st runner up.



WORLD CANCER DAY (04/2/2022)

As part of World Cancer Day, quiz competition was organized for the students of Nehru college of Pharmacy on 04/2/2022. A total of 12 students participated in 6 groups. The program was co-ordinated by Pharm D interns Aathira G Menon, Haritha Thomas and Ananthu Nandakumar (2016-2022 batch) with the support of faculties of Department of Pharmacy Practice Mrs. Rajasree and Dr. Arya Alocious. Fathimathu Rinsiya and Divya Manoj (Pharm D interns) were the winners. Balaji and Liyana of 5 th year Pharm D were the 1 st runner up.



ANAEMIA AWARENESS ONLINE WORKSHOP FOR THE STUDENTS OF JRC UNIT OF TRKHSS SCHOOL, VANIYAMKULAM

Anemia awareness online workshop was conducted on 5 January 2022 for the students of TRKHSS School, Vaniyamkulam through google meet. The workshop started at 8.00 pm. Prof. Sapna Shrikumar was the convener and Mr. Joshah Varghese, Dr. Arya Alocious and Mrs. Rajasree. S were the coordinators of the workshop. Around 80 participants including students and parents had participated in the workshop. Anemia awareness leaflet was also distributed.



The programme was convened by Prof. Dr. T. T. Tamilselvan, Head - Dept. Pharmacy Practice and Coordinated by Mrs. Rajasree (Associate Professor) S, Ms. Anchu C, Dr. Ariya Alocious, Asst. Professors, Department of Pharmacy Practice.

DEPARTMENT OF PHARMACOGNOSY

Name:	Mrs. Jasna T J
Publications	1. Comparative antioxidants study of herbal formulations with reference of Ashwagandha-International Journal of Creative research thoughts(IJCRT)
Industry visiting details	
Achievements	Getting Certificate of merit By KUHS for completing the certificate programme on the topic 'Healthy Ageing and Geriatric care'

Name:	Mrs. Drisya M K
Publications	<ol style="list-style-type: none">1. GC MS analysis of ethyl acetate extract of leaves of Clitoria ternatea Linn- Asian Journal of Pharmaceutical Analysis2. A review on natural antiviral herbal medicine-Journal of Pharmacognosy and Phytochemistry3. Review on ethnobotany and pharmacology of Clitoria ternatea Linn.(Fabaceae)-International journal of Pharmaceutical research and Development4. Review on antiviral and immuno booster herbs used during Covid-19-International Journal of Pharmaceutical Research and Applications
Industry visiting details	Visiting Kerala Research forest Institutions(KFRI) Peechi, Thrissur Kerala for the Submission of Herbarium
Achievements	Getting NEW GEN IEDC project-Development of Natural peptide Anti- microbial coats as Biotechnological tool

Name:	MS. Sreelakshmi K P
Publications	<ol style="list-style-type: none"> 1. A Review on Ethnobotanical, Phytochemical and Pharmacological studies of Nalpamaram-Research Journal of Pharmacognosy and Phytochemistry 2. A Review on Garlic creeper- Mansoa alliacea (Lam.) A.H.Gentry (Bignoniaceae)-International Journal of Pharmacognosy and Pharmaceutical sciences. 3. GC-MS Analysis of ethyl acetate extract of Mansoa alliacea (Lam.)A.H. Gentry Leaves-Asian Journal of Pharmaceutical Analysis
Industry visiting details	Visiting Kerala Research forest Institutions(KFRI) Peechi, Thrissur Kerala for the Submission of Herbarium
Achievements	Getting NEW GEN IEDC project-Development of Natural peptide Anti- microbial coats as Biotechnological tool

ENVIRONMENTAL DAY CELEBRATION 02-06-2022



World environmental day celebrations were conducted on 2-6-2022

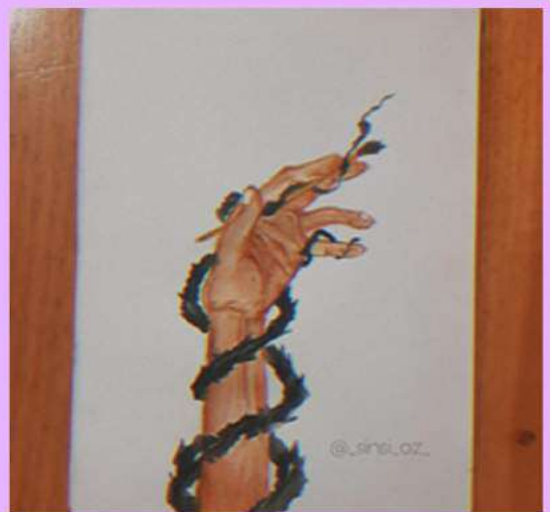
NEW GEN-IEDC DST FUNDED PROJECT GRANT 19-03-2022



LITERARY WORKS



SINSI
IV SEMESTER B.PHARMACY
NEHRU COLLEGE OF PHARMACY





JISHNU PRAKASH
VI SEMESTER
B.PHARMACY



SOORYA SANKAR K P
ASSISTANT PROFESSOR
NEHRU COLLEGE OF PHARMACY



ASNA K
II YEAR D.PHARMACY



if tomorrow starts without me,

who would fetch my grandma's medicine
bottles and fill them
with plants of all types?

who would draw the perfect circles in the
perfectly swept frontyard
sands of my maa,
just to hear her shout
in every traditional idioms?

won't my dry wildmusk roses
pressed between my math books
yearn,
yearn to weave some poetry?
find recipies from internet to impress
my mom , but turn the kitchen to a
Warfield?

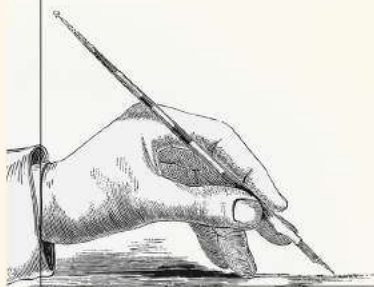
the coconut cones would stay in
my garden,
who would pick them up,
and hide them in soilnooks?

who would stare at the violet evenings
all day?
till maa says, neighbours would say
that kid's crazy?

if tomorrow starts without me,
my dad wouldn't smile the same,
my maa wouldn't glance at
the "panjimitai" i always beg her to buy,
it wouldn't be just fine..

if tomorrow starts without me,
if tomorrow starts without you
it wouldn't be the same,
hold on.

Nasarin Naushad
I Pharm.D



JOCELYN DAS
III RD SEMESTER B.PHARM
NEHRU COLLEGE OF PHARMACY

നല്ലൊരു നാളേയ്ക്കായി...
അറിവിനായി...
ഭവനത്തിൽ നിന്നുകൊണ്ടുവരും...
വൃന്ദസഹായ നിമിഷത്തിലൂടെ
നീങ്ങുകയാണവർ...
കഴിക്കുവാൻ ആഹാരമില്ല.
ശാന്തമായി ഉറങ്ങുവാനോ
കഴിയുന്നില്ല...
കണ്ണുനീർ പൊള്ളലേറ്റ
മൃതശരീരങ്ങൾ...
യുദ്ധത്തിൽ പെട്ട തന്റെ
ജീവനാണോ...
അടുത്ത നിമിഷം
ഇല്ലാതാകുന്നതെന്ന്
പോലുമറിയാത്തവർ...
ബന്ധുക്കളെയൊക്കെ കാണാൻ
കഴിയുമോ...
ഭവനത്തിലേക്ക് ഒരു മടക്കയാത്ര
ഉണ്ടാകുമോ...
എന്നുപോലുമറിയാതെ
ഇരിക്കുകയാണവർ...

Pearls

One day I was standing on the sea shore
Enjoying the scenic beauty
With much enthusiasm in my eyes ,
I asked my mother
Where do pearls come from?
She grinned and said to me
Waves listen to our stories,
Share it with the oysters and
turn out to be pearls.



RADHIKA SIVARAJ
M.Pharm
Department of Pharmaceutics



MEGHA BALAKRISHNAN
IV SEMESTER
B.PHARMACY

Being a girl

She looked at the sky every night
Wished upon a shooting star with gleamy light
For her life was like a fairy tale
looking for prince Charming through bridal veil
Her dreams like a meteror
drawing beautiful lines in future
Stepping into the world with dreams inside
ended up with unveiling of hatred world outside
In her quite solitude bloomed flowers of hope
hope for being loved and cared
hope for being considered and valued
They kept saying that you are good for nothing
But she believed in her dreams than anything
because she is a girl, girl like an aurora
Beautiful and strong enough
With lots of mysteries inside

MeghaBalakrishnan
4th semester, Bpharm



SINSI
IV SEMESTER B.PHARMACY
NEHRU COLLEGE OF PHARMACY

കറുപ്പ്

കറുപ്പിൻ നിഴലുകൾ
കാലത്തെ പഴിക്കുന്നു,
തൊണ്ടയിൽ മുളയുകൾ
കുത്തിനോവിക്കുന്നു,
കാലോച്ചുകൾ മാത്രം അവ
ഇരുട്ടിലേക്ക് ഓടി
മറിയുന്നു
വേരുകൾ ഇടുന്നു
ജീവൻ ആത്മഹത്യ
ചെയ്തു
കഴിഞ്ഞിരിക്കുന്നു,
ആത്മാവ് ശൂന്യമായ
ഏകാന്തതയുടെ
തുരുത്തിലാണ്.
എങ്ങും ഇരുട്ട്
എങ്ങും കറുപ്പ്

സിൻസി



വേദനകൾ കടിച്ചമർത്തി
4 ചുമരുകൾക്കുള്ളിൽ
ഒരുങ്ങി ജീവിക്കേണ്ടവളാണോ
സ്മൃതി....?
അവൾക്കുമിട്ടേ...
മോഹങ്ങൾ,
കാമകണ്ഠകളോടെ നോക്കുന്ന
മനുഷ്യരേ.....
ഒരു കാര്യം ഓർക്കുക
അവൾക്കൊരു മേനി മാത്രമല്ല
ഉള്ളത്.
അവളുടെ ഉള്ളിൽ കുന്നോളം
സ്വപ്നങ്ങൾ ഉണ്ട്.
രാത്രിയെന്നോ പകലെന്നോ
വ്യത്യാസമില്ലാതെ ഒരു
പൃഥ്വായെപ്പോലെ പോലെ പാറി
പറക്കുവാൻ അവൾക്കുമുണ്ട്
ആഗ്രഹം.
അവളുടെ സ്വപ്നങ്ങൾ
നീറവേറ്റിക്കൊടുക്കുവാൻ നമുക്ക്
അവൾക്കൊപ്പം നിൽക്കാം.....



കാവൽ
@jocelyn das

ചിതറിയ ചിന്തകൾ
കാറ്റിൽ പാടും.....
ചിമ്മിണി വിളക്കിൻ വെട്ടം
മെല്ലെ ഓടും.....
സഖി
നിന്നിലേക്ക് അലിയുവാൻ
കൊതിക്കുന്നു , എൻ
ഹൃദയം.....
ഉമ്മറത്തിണ്ണയിൽ ഓർത്ത്
ഓർത്ത് കിടക്കും...
നിന്നിലെ മൗനം സ്വരമായി
മാറും.....
സഖി നീ എനിക്കു
മാത്രം.....
പൃഴയും കാടും
കടന്നുചെല്ലാൻ.....
മാനോദനംകൊൻ.....
ഒരായിരം ചുംബന
പുഷ്പങ്ങൾ നൽകാൻ....
സഖി നീ എനിക്ക്
മാത്രം.....



നന്ദിത

വിഭ്രാന്തി

പാതിപൊലിഞ്ഞിടും
 ആയുസ്സിൻ രോദനം
 ഇനിയത്രെ നാളെന്നാശങ്കയും
 കാലത്തിനൊപ്പം ഓടിയകലുന്ന ജന്മമേ
 തിരിഞ്ഞൊന്നു നോക്കീടാനാവതെ
 അകന്നു പോവുന്നുവോ നീ
 ജീവിതമാം പുസ്തക താളുകൾ
 മറിച്ചൊന്നു നോക്കിടുമ്പോൾ
 മിടിക്കുന്നു ഹൃദയത്തുടിപ്പുകൾ
 ഇനിയൊട്ടു നേരമില്ലെന്ന ചിന്തയാൽ
 ബാല്യവും കൗമാരവും
 യൗവനവും താണ്ടി വാർദ്ധക്യത്തിൻ
 പടിവാതിൽക്കലെത്തി നിൽക്കേ
 ചെറുപ്പമാർന്ന മനസ്സിന്റെ മോഹങ്ങളൊക്കെയും
 ബാക്കിനിൽക്കുന്നുവോ
 ഇതെളുർന്നുവീണ പൂവിൻ വിതുമ്പൽ പോലെ
 ഒരുപിടി ചാരമായ് മാറിടുന്ന
 മനുഷ്യന്റെ വിഭ്രാന്തി
 ജീവിതത്തോട് വിടചൊല്ലേണ്ടി വരുമെന്ന
 മനസ്സിന്റെ വിഭ്രാന്തി



ഉഷപ്രഭ

FOUNDERS DAY

A Meet to Commemorate

9th JUNE 2022

Late. *Shri.P.K.Das* Our Founder Chairman

"Founders never leave our memories for they leave indelible footprints on our minds."



Founders Day is the day when we think about the past, present and future of the institution, taking promises to elevate the institute to the supreme possible statures and scopes. Without their vision and relentless support and blessings, this institute would not have become what it is today. On our Foundation Day we take a pledge to work sincerely for the growth and advancement of the institute from all facets. We seek sincerest blessings and wishes. The programme began with the welcome speech by our beloved principal Dr.K.Prabhu. This was followed by seeking of God's blessings with a prayer song by the students. our beloved Administrative manager Mr.M.Srinivas shared the memories with our founder. He mentioned the immeasurable contributions of our Founder, late Shri.P.K.Das. The programme was continued by all the dignitary's speech and ends with the peace provoking yoga class by an eminent yoga teacher...

NSS ACTIVITIES

WOMEN'S DAY CELEBRATION 2022

The Nehru college of Pharmacy organized women's day celebration on 08/03/2022 at Brahmaguptha Auditorium in a beneficial manner. The theme selected for the Programme was "Gender equality for a sustainable tomorrow" Rtn M D.Geetha Abraham was the chief guest of the programme. The chairman, Principal, Dean academics and office superintendent, Pachayath president The programme provides enthusiastic development of women's in our society. The teachers who got achievements and appreciations in several fields in the college and the rank holder students are honored in the occasion by the Chairman and Chief guest. The cultural programme and women welfare themes were released during the function. All the students are eagerly participated in the cultural events and made the function more beneficial and fruitful.



SHAHEEDI DIWAS CELEBRATION 2022

The Nehru college of Pharmacy organized Shaheedi diwas on 23/03/2022 at college campus in a beneficial manner. The administrative officer Mr.Sreenivas was the chief guest of the function. The pledge taken in the occasion for the remembrance of the martyrs of our country. Respected principal, Dean academics, Vice principal and NSS programme officer deliver speech on the importance of shaheedi diwas. All the students participated in the function and took pledge with candle.





WORLD AUTISM DAY 2022

The Nehru college of Pharmacy NSS organized world autism day on 02/04/2022 at college campus in a beneficial manner. The administrative officer Mr.Sreenivas was the chief guest of the function.Principal Dr.K Prabhu speak about the importance of Autism day.The charity collection was done for the small child Gouri lekshmi who suffer spinal atrophy syndromer.Sixteen crore is needed for the costly medicine for the treatment.So national service scheme unit of Nehru college of pharmacy took initiative for the mass campaign for the small child on the autism day.So all the students enthusiastically participated for the donation.So the world autism day 2022 was took a grat initiative for the social sevice and charity.Dean academics Dr Sapna shrikumar,Vice Principal Dr K G Prasanth, IQAC Director Dr.Sudhahar ,NSS Programme officer Mrs.Reshma B V,Office superintendent Mrs.Usha K were participated the function.



WORLD BLINDNESS AWARENESS DAY 2022

The Nehru college of Pharmacy NSS organized world blindness awareness day celebration on 06/04/2022 at Helen Keller institute of visually impaired. The functioninaugurated by Principal Dr.K Prabhu,Dean Dr sapna shrikumar and Vice principal Dr.K G Prasanth give felicitation.The NSS Programme officer Mrs.Reshma B V gave felicitation to the functionThe world blindness awareness day was a great initiative in the field of social service and charity.The NSS volunteers visits the helen keller institute of visually impaired and gave an amount for their lunch.It was a great moments to spend with the blind people and they were really mingled with the students.The world blindness awareness week conducted beneficially.



WORLD WATER DAY CELEBRATION 2022

The Nehru college of Pharmacy organized world water day celebration on 23/03/2022 at seminar hall in a beneficial manner. The theme selected for the programme was 'Save water for future" NSS released a special video in that occasion for the conservation of water.And to give awareness to all students.An awareness programme conducted for rain water harvesting and water conservation at the seminar hall of Nehru college of Pharmacy.



WORLD EARTH DAY 2022

The Nehru college of Pharmacy NSS organized world Health day celebration on 22/04/2022 outside campus. The Earth day celebrated in a thematic manner .The outdoor poster presentation was done inside in front of the college campus. The administrative manager Mr.Sreenivas inaugurated the function with the valuable introduction about protection of earth. Principal Dr.K Prabhu gave felicitation to the function and gave a valuable speech regarding the importance of saving our resources. Dean Academics Dr.Sapna Shrikumar gave felicitation.. Vice Principal Dr. K G Prasanth and NSS Programme officer Mrs.Reshma B V gave message about the importance of youth in the protection of our nature. The meeting wind up with the NSS Anthem.All students participate in the poster presentation competition.



WORLD HEALTH DAY 2022

The Nehru college of Pharmacy NSS organized world Health day day celebration on 07/04/2022 at college auditorium. The editorial board member Dr.Prema senthil kumar inaugurated the function The importance of world health day and the theme was described by the NSS Programme officer Mrs.Reshma B V and the teaching faculties from Department of Pharmacy practice,Pharmaceutics and Pharmaceutical chemistry gave felicitation.The knowledge and the importance regarding the health day and the importance of saving our nature with our human body is a great thought which spread during the function.The NSS volunteers arranged different colour balloons in the function to spread awareness about happiness to save our health.



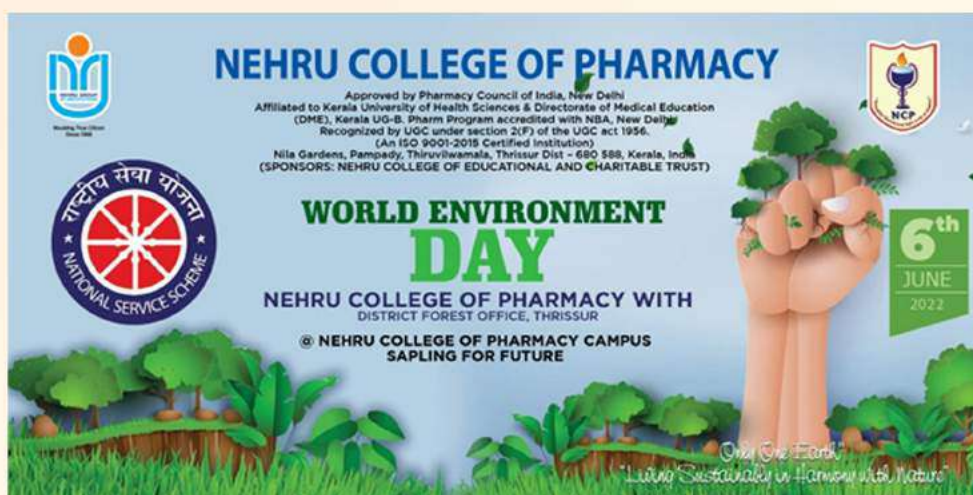
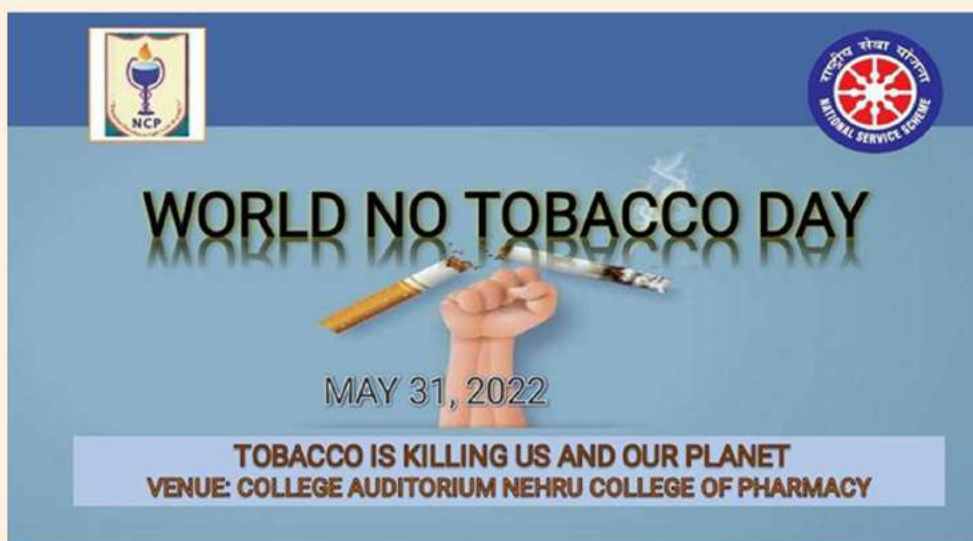
WORLD HERITAGE DAY 2022

The Nehru college of Pharmacy NSS organized world Health day day celebration on 20/04/2022 outside campus. The Dean Academics Dr.Sapna Shrikumar inaugurated the function. Vice Principal Dr. K G Prasanth and NSS Programme officer Mrs.Reshma B V gave message about the protection of our heritage and cultures. The demonstration of all heritage and video launching was done by the principal Dr.K Prabhu. All NSS volunteers actively participate the function. The interactipon with the nature and protection of heritage is represented by the cultural programmes by the students.The meeting wind up with the NSS Anthem.



WORLD MALARIA DAY 2022

The Nehru college of Pharmacy NSS organized world malaria day community awareness programme on 27/04/2022 with Thiruvilwamala grama panchayath. Nehru college of Pharmacy NSS unit organizing one month community awareness programme in Thiruvilwamala grama panchayath. Grama panchayath vice president Mr. Udayan inaugurated the programme. And he appreciate the effort taken by the NSS about the community awareness programmes in the district grama panchayath. Principal Dr. K Prabhu, Dean academics Sapna Shrikumar, Vice president Dr. K G Prasanth and NSS Programme officer Reshma B V also present in the programme. The student cultural programmes were conducted to give awareness about the malaria disease. Pamlets were distributed in the local areas of Pampady and the massive awareness Programme conducted in Pampady town.



PLACEMENT ACTIVITY

OFFLINE PLACEMENT DRIVE CONDUCTED BY RELIANCE AND AKSHAYA MEDICALS

NEHRU COLLEGE OF PHARMACY
An ISO Certified Institution
(Approved by PCI, New Delhi and Affiliated to KJ Somaiya Institute of Pharmaceutical Sciences, Mumbai)
Pampady, Thiruvananthapuram, Thrissur Dist., 680 588

PROSPER+PHARMA
2012 Kerala 27

Placement & Alumni Committee
is Organizing

Offline Campus Recruitment Drive by

RELIANCE PHARMACIES

Pharmacist Job for D. Pharm Candidates Only

05.05.2022
@ 10 AM

Venue: IV B.Pharm Classroom

Convener: Prof. Dr. Sapna Srinikumar, Dean - Academics, Research & Placements
Mob: 9495944044

Coordinator:
Mr. Jithin Mathew, Asst. Professor
Mrs. Arya Jayakumar, Asst. Professor
Mrs. Rajasree S, Assoc. Professor
Mr. Mejo Joseph, Assoc. Professor

Co-Coordinator:
Mrs. Divya Gupta P.K, Assoc. Professor
Ms. Soorya Shankar, Asst. Professor

Register before 9:15 AM
Register @ <https://forms.gle/6d7vDbhDymyMjP7R> 13:42

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PROSPER+PHARMA
2012 Kerala 27

Placement & Alumni Committee
is Organizing

Offline Campus Recruitment Drive by

AKSHAYA MEDICALS

Pharmacist Job for D.Pharm Candidates Only

Register before 9:15 AM

Date	Time	Convener
05.05.2022	10 AM	Prof. Dr. Sapna Srinikumar (M.Pharm, MBA, Ph.D)
Venue		Dean - Academics, Research & Placements
IV B.Pharm Classroom		Mob: 9495944044

Coordinators:
Mr. Jithin Mathew, Asst. Professor
Mrs. Arya Jayakumar, Asst. Professor
Mrs. Rajasree S, Assoc. Professor
Mr. Mejo Joseph, Assoc. Professor

Co-Coordinator:
Mrs. Divya Gupta P.K, Assoc. Professor
Ms. Soorya Shankar, Asst. Professor


Register @ <https://forms.gle/6d7vDbhDymyMjP7R> 13:42




OFFLINE CAMPUS PLACEMENT DRIVE CONDUCTED BY AMRITA INSTITUTE OF MEDICAL SCIENCE AND RESEARCH, KOCHI



OFFLINE PLACEMENT DRIVE CONDUCTED BY APOLLO HOSPITAL



NEHRU COLLEGE OF PHARMACY
An ISO Certified Institution
(Approved by PCI, New Delhi and Affiliated to KJVS, DME and GC-R.Pharm accredited with NBA)
Pampady, Thiruvithwamala, Thrissur Dist. 680 588



PROSPER⁴PHARMA
2022 Series 22

Placement & Alumni Committee
is organizing

Offline Campus Recruitment Drive by

RELIANCE NEMED PHARMACIES & APOLLO RETAIL PHARMACIES

Pharmacist Job for D. Pharm, B.Pharm & M.Pharm Candidates Only.....

12.05.2022 @ 10 AM

Venue: Seminar Hall

Convenor
Prof. Dr. Sapna Shrikumar
Dean - Academics, Research & Placements
Mob.9495944044

Coordinator Mr. Jithin Mathew Mrs. Arya Jayakumar Mrs. Rajasree S Mr. Mejo Joseph Ms. Reshma B V	Co-Coordinator Mrs. Divya Gupta P K Ms. Sooriya Shankar
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Register before 9:15 AM
Register @ <https://forms.gle/6d7vDbhDymyMjPj78>




TEXTBOOK PUBLICATIONS

Hearty Congratulations to Mr. Jithin Mathew, Assistant Professor, Department of Pharmacology for Publishing Textbook on Experimental Pharmacology



A TEXTBOOK OF



EXPERIMENTAL PHARMACOLOGY

[Beneficial for IVth, Vth, VIth & VIIIth Semester B. Pharm Programme, IIIrd Year Pharm. D, D. Pharm Part II and M. Pharm (Pharmacology) Course] (Strictly as per the Syllabus of Pharmacy Council of India (PCI), New Delhi)



● Mr. Jithin Mathew

About Author



Mr. Jithin Mathew has obtained M. Pharm degree in Pharmacology from Department of Pharmaceutical Sciences, Centre for Professional and Advanced Studies (CPAS), Cheruvandoor Constituted by Government of Kerala, affiliated to Kerala University of Health Sciences (KUHS). He is an eminent Academician in the field of Pharmaceutical Science. At present He is working as Assistant Professor, Department of Pharmacology, Nehru College of Pharmacy, Pampady, Thrissur, Kerala. He has qualified Graduate Pharmacy Aptitude Test (GPAT) in the year 2017 and recipient of Vidyasammunathi scholarship in the year 2019 for his academic excellence and continuously received Merit cum means scholarship during the period of 2013- 2017 from Ministry of Human Resource and Development, Government of India. He had received research grant from Kerala State Science and Technology, Thiruvananthapuram. He has been published research articles in various National and International journals and presented his research work in various international conferences and symposium. Presently he is an authentic reviewer of Research journal of Pharmacy Technology (RJPT) and Walailak Journal of Science and Technology (WJST). His thrust area of research is Rheumatoid and Inflammation Biology. He had selected as a Resource person sponsored by Indian Initiative for Management of Antibiotic resistance (IIMAR) and World Health Organization (WHO).

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Pritam Publications
Publisher of Reference and Competitive Exam Books

INDUSTRIAL VISIT

INDUSTRIAL VISIT FOR M. PHARM STUDENTS

ABSTRACT:

Nehru College of Pharmacy organized an industrial visit for the students M. Pharm, II Semester on 30/03/2022 at CARE KERALAM, Thrissur, Kerala. Industrial visit is part of the curriculum. The visit started with presentation by Dr. Sarath, Manager, Research & Development, CARE KERALAM about company growth and status. About 15 students were enrolled for the trip which includes 13 girls and 2 boys and accompanied by 2 faculty members, Prof. Dr. C. Senthil Kumar and Mrs. Arya Jayakumar. Industrial visit was started at 9.00 am from Nehru College of Pharmacy, Thrissur and we reached at CARE KERALAM by 11am. It was a highly informative industrial visit which provided us enormous knowledge about the pharmacy culture existing in industries. After the completion of admirable explanation by the trainer, we completed the session by 3.00 pm. Finally, we reached Nehru College of Pharmacy safely at around 7.00 pm. This made our students to correlate their theory with practical application in CARE Keralam. The student was very happy and felt enriched after visiting CARE Keralam.



Batch one visited Research and development department at Oushadhi pharmaceuticals, Thrissur



Batch one visited Research and development department at Oushadhi pharmaceuticals, Thrissur



NEWLY ESTABLISHED - IIC

PROUD MOMENT!

NEHRU COLLEGE OF PHARMACY, Thrissur, Kerala has established an Institution's Innovation Council at our campus by Ministry of Education, Govt. of India.



Institution's Innovation Council meeting was held on 14/06/2022 at our campus, Nehru College of Pharmacy and all the IIC members attended and the decisions are taken for the work plan for upcoming quarter.



NCP UPSHOTS





N C P PHARMA PRODUCTS

S.no	Project Guide	Title	Students	Product name
1	Dr.N. Tamilselvan	Formulation and Evaluation of Passiflora edulis cream as a facial mask	Mrs. Chaithanya P, Ms. Dereena Davis, Ms. Divya KS, Ms. Dona Haris, Ms. Keerthana V	LILIKOI
		Development And Evaluation of Medicated Scalp Serum	Mrs.Hind TP, Ms. Jisna, Ms. Joiy T Thomas, Ms. Mufeeda Farshana C , Ms. Nishana Parvin MT	RAIZ
2	Mrs. Jincy V Varghese	Formulation And Evaluation of Poly Herbal Anti-Acne Face Wash	Ms. Athira P, Ms. Sandra T S, Ms. Sruthi K B, Ms. Stella Jose	DERMACLEN
		Formulation And Evaluation of Poly Herbal Antifungal Cream	Ms. Krishnapriya E P, Ms. Megha H, Mrs. Mubashira P M, Mr. Rejin Jose, Ms. Shana P K	BOTANICA
3	Divya Gupta PK/Nihala Nazer	Formulation And Evaluation of Herbal Derived Bath bomb	Mrs. Tasni KS, Mr Sreekumar CN, Ms Silpa V. S	VEINUST



NEHRU COLLEGE OF PHARMACY

Nila Gardens, Pampady, Thiruvilwamala, Thrissur Dist - 680 588, Kerala, INDIA
(SPONSORS: NEHRU COLLEGE OF EDUCATIONAL AND CHARITABLE TRUST)

(An ISO 9001-2015 Certified Institution)

Approved by Pharmacy Council of India (PCI), New Delhi
Affiliated to Kerala University of Health Sciences (KUHS)
& Directorate of Medical Education (DME), Kerala
UG-B.Pharm Program accredited with NBA, New Delhi
Recognized by UGC under section 2(f) of the UGC act 1956

About us

Better educated than wealthy...

One child...
One teacher...
One pen...
One book can change the world...

Nehru College of Pharmacy was established in the year 2003 with B.Pharmacy degree courses by late Chairman Sri. P. K. Das. Nehru college of Pharmacy is one of the finest pharmacy college in the state of Kerala accredited by NBA for B. Pharmacy which is dedicated to intensify patient-centric pharmacy professionals competent in an interprofessional environment. We promote a crew health care environment tied with optimizing health through discovery. Nehru College of Pharmacy (ISO 9001: 2015) is under the umbrella of Nehru Group of Institutions which is one among the prestigious institution in south India situated in Gods own country on the banks of river Nila (Bharathapuzha) and at the foot hills of the vilwadri hill shrine, Thiruvilwamala in a 40 acre vibrant lush green educational complex. It is centrally located in Pampady, Thiruvilwamala, Thrissur Dt, Kerala. The Campus enjoys the serenity of pure countryside as well the luxuries and convenience of just 34 kilometers away from Palakkad city. We have our own reputable hospital infrastructures (750 bed super specialty hospital) of P K Das Institute of Medical Sciences, Vaniyankulam, Ottapalam, The milestone of our development are, In 2010, M.Pharm (Pharmaceutics, Pharmacy Practice and Pharmacognosy) was started. In 2013, Pharm. D course was started. and in 2015, D.pharm course was commenced. We have a focus on student wellness, which is promoted via protected time for students to proactively engage in self-care. We focus less on frequent high-stakes examinations and more on periodic low-stakes assessments to help alleviate stress and better contribute to an environment of learning. The world class infrastructural, instructional facilities, steadfast planning, perpetual guidance and relentless inspiration of our chairpersons have advanced the trust and its allied institutions as one of the recognized groups in the state.

Salient Features:

- Outcome-Based Education for Teaching-Learning & Assessment.
- Strong academic delivery system and streamlined assessment mechanisms.
- Classroom with ICT based interactive teaching learning using modern tools & web resources
- Wi-Fi facility. State-of-the-art laboratory with high-end instruments.
- Funding and guidance for innovative idea-based projects.
- Young, dynamic and dedicated faculty and staff members.
- Community dedicated National services Scheme (NSS) for extending whole heartedly services to society as a Pharmacist.
- Regular industry visits for students.
- Medicinal garden with numerous plants.
- Institute is certified by ISO 9001:2015 for effective management of resources.
- Engagement with industry experts for enhancing academic quality.
- Dedicated student support system through anti-ragging, internal complaint committee, Grievance Redressal cell, SC - ST Cell and Ragging free campus.
- Excellent placement at MNC and reputed companies.
- Mentor-mentee system for effective counselling of students.
- A proud alma mater whose alumni are working globally with international and national organization and are connected to the institute.

VISION

- To emerge as a centre of excellence that moulds students into professionals and researchers who are socially committed with strong ethics and environmentally conscious.

MISSION

- Inculcating quality pharmacy education through competent faculty and state of art infrastructure.
- Providing learning environment to impart needed knowledge for pharmacy professionals and provide opportunities to enhance research abilities.
- Developing personalities to recognize values and commitment towards better healthcare of society with strong ethical principles.

N-PEN Correspondence ✉ nehru2@gmail.com

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✉ ncp@nehrucolleges.com

ADMISSION HOTLINE
9656 000 005



APPROVALS

