

## Contact Us

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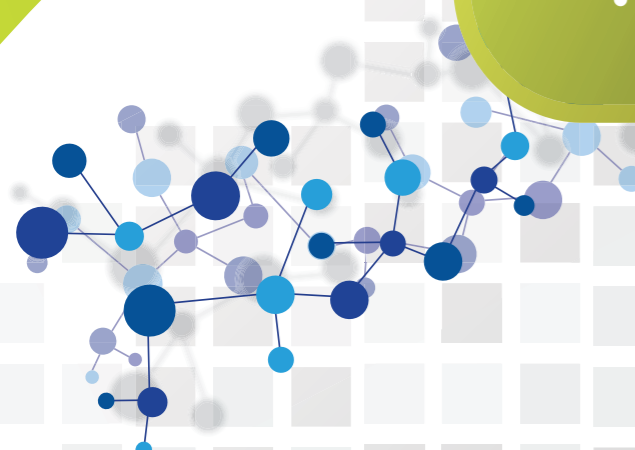


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## Courses Offered

- B. Pharmacy - 8 Semester (Bachelor of Pharmacy)
- D. Pharmacy - 2 years (Diploma in Pharmacy)



**Prime College of Pharmacy**

Approved by PCI, AICTE New Delhi & Govt of Kerala,  
 Affiliated to Kerala University of Health Sciences, Thiruvananthapuram &  
 Directorate of Medical Education, Thiruvananthapuram



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June 2018



# INTRUIZION

the insight

### Chief editor's Message



Dr. N. L. Gowrishankar  
 Principal

Dear Readers,  
 "Education is not solely an academic pursuit; it is a pursuit of moral wisdom."  
 It gives me immense pleasure to pen a few words as prologue to our Pharma news letter 'INTRUIZION'. This news letter foreground the essence and insight of our achievements and development in the field of pharmacy. The inevitable support and guidance of our management is the key to our success. Over the past four years, the institute have witnessed growth, aided by the extreme commitment of staffs who deliver quality professional education to our students. Empowerment of students for their all round development through education is our cherished motto. Today education means much more than merely acquiring knowledge. It is acquisition of knowledge and skills, building character and improving employability of young talent, the future leadership. I congratulate all the contributors and the editorial board for their efforts. Wishing you all the best.

Dear Readers,  
 With lots of positivity and optimism, we bring to you the first issue of Pharma News Letter 2018. We hope that this issue of INTRUIZION, our first endeavor rekindles many memories of past eventful years of our college. This inaugural issue is a brief account of campus news, placement scenario and significant achievements of our students. Prime College of Pharmacy continues to ascend to ever greater heights. We take immense pride in all aspects of the college and are focused on inculcating quality education, which will eventually transform the profession of pharmacy to new benchmarks. We are highly privileged to be a part of Prime family and grateful to our management for their indispensable motivation. We hope that this news letter would be intriguing, beneficial and thought provoking to our readers

### Editorial Board

- D. Deborah Evangeline, Assoc. Prof • Ranjith Kumar, D Asst. Prof, • Sumathy. A, Assoc. Prof, • Shyam. S. kumar, Asst Prof, • Pooja Poulouse, Asst Prof, • Aiswarya. A. T, Lecturer,



**Cell-like nanorobots clear bacteria and toxins from blood**

Engineers from university of California have developed tiny ultrasound-powered robots that can swim through blood, removing harmful bacteria along with the toxins they produce. These proof-of-concept nanorobots could one day offer a safe and efficient way to detoxify and decontaminate biological fluids. Researchers built the nanorobots by coating gold nanowires with a hybrid of platelet and red blood cell membranes. This hybrid cell membrane coating allows the nanorobots to perform the tasks of two different cells at once: platelets, which bind pathogens like MRSA bacteria (an antibiotic-resistant strain of Staphylococcus aureus), and red blood cells, which absorb and neutralize the toxins produced by these bacteria. The gold body of the nanorobots responds to ultrasound, which gives them the ability to swim around rapidly without chemical fuel. This mobility helps the nanorobots efficiently mix with their targets (bacteria and toxins) in blood and speed up detoxification. **Deborah Evangeline, D, Assoc. Profes-**

**Characterizing neuropeptide Y receptor to fight obesity at cellular level**

Scientists have characterized for the first time a complex, little-understood cellular receptor type that, when activated, shuts off hunger. The team determined the first crystal structure for a neuropeptide Y receptor, deciphering the thousands of carbon, oxygen, nitrogen and other atoms involved with it and how they bind to one another. Molecular-level research is target validation proved that the receptor really does control hunger. Past studies revealed that when the receptor is blocked from functioning in mice, they become obese. Once we eat this peptide is produced, it activates the receptor, and then we don't feel hungry anymore. The idea here is that we could upregulate this receptor with a small molecule and create this feeling of not being hungry so that you eat less. **- Shyam S Kumar, Asst. Professor**

**A combination of vitamin C or ascorbic acid and antibiotics (Doxycycline) could be a key for killing cancer stem cells.**

A new study finds, paving the way for a strategy that could combat cancer recurrence and treatment resistance. Researchers found that therapy was up to 100 times more effective than 2-DG, a molecule currently being tested as an anti cancer agent in clinical trials. **-Susha Antony, Lecturer**

**GS-5734- A Broad spectrum antiviral drug inhibits a range of emerging coronaviruses**

Researchers have long known that RNA viruses called coronaviruses cause the common cold and pneumonia. In the last two decades or so, though, researchers have found that these viruses can spread through animal and human hosts. In recent years, coronaviruses have caused lethal outbreaks of severe acute respiratory syndrome (SARS) and Middle East respiratory syndrome (MERS) that span multiple continents. Researchers report on GS-5734, a promising experimental broad spectrum antiviral drug. Previous studies have shown that the drug inhibits strains of SARS and MERS coronaviruses that infect human airways and the lower respiratory tract, as well as infection by the Ebola virus. The researchers now report that the drug also inhibits murine hepatitis virus, or MHV, which is closely related to several human coronaviruses that can cause respiratory tract infections, sometimes as severe as SARS. The researchers tested the drug on mini models of human lungs consisting of airway epithelial cells, collected from lung transplants. Because those cells express the genes and proteins of the airways that are targeted by coronavirus infections.

**- Pooja Poulose, Asst. Professor.**

**Probiotics could reduce need for antibiotics**

A startling new study has found that regular use of probiotics in infancy and childhood can significantly reduce the number of antibiotic prescriptions administered during this period. The indiscriminate and excessive use of antibiotics has been linked to the rise of antibiotic resistance in many parts of the world. Reducing antibiotic prescriptions is a major step in preventing antibiotic resistance. If this could be brought about by a simple and relatively inexpensive step such as regular probiotic consumption, it would signal an important advance in this battle. The probiotics used in these studies were Lactobacillus and Bifidobacteria strains. The review focused on finding evidence of a firm association between probiotic ingestion and lowered antibiotic use. In elderly, to see if sustained probiotic use is connected to an overall reduction in antibiotic prescriptions. If so, this could potentially have a huge impact on the use of probiotics in general medicine and consumers in general." **Sumathy, A, Assoc. Professor.**

**Incompatible' donor stem cells cure adult sickle cell patients**

Doctors at the University of Illinois Hospital have cured seven adult patients of sickle cell disease, an inherited blood disorder affecting the black community, using stem cells from donors previously thought to be incompatible, thanks to new transplant treatment protocol. **Ranjith Kumar, D, Asst. Prof.**

**PRIM APREZO THE STUDENT APPRECIATION CEREMONY**

The appreciation ceremony "PRIM APREZO 2017" was organized to honour first outgoing batch of D.Pharm



**PHARMOLSAVAM 2016-ALL KERALA INTER PHARMA COLLEGE CULTURAL FEST**

Our college was delighted to host the prestigious cultural fest "Pharmolsavam" the 4th Kerala State Pharmacy College Arts, Organized by KSSPCMA. The Pharmolsavam is an unsailable competition, conducted every alternative academic year that encourages thousands of students in various arts and literary forms. It was not just any other festival but was an event brimmed with multitude of events, which was scheduled for three days from March 16-18 and more than 2000 participants were accounted. The perfect time management, spot arrangements and co-ordinated work of our college faculties and students were the result of unconstrained incitement of our management and Principal, Dr N.L Gowrisankar.



**NATIONAL PHARMACY WEEK CELEBRATIONS**

Every year our college organises the national pharmacy week celebrations in the month of November. The major focus of NPW celebrations is to create awareness amongst the public, other healthcare providers and the authorities, about the NPW theme in specific and about the pharmacy profession and role of the pharmacist in general. We have conducted seminars, posters and rally related to themes in Pharmacy profession. NPW (2014-2017) was Inaugurated by various eminent personalities. Our students actively participate in the IPC quiz competition every year.



**SPORTS AND CULTURAL FEST**

Every event at Prime college of Pharmacy is an opportunity for students to showcase their talents and capabilities and learn new skills. The College functions are always quantum packed and they are celebrated with a lot of pomp and grandeur. Over the years, our college have celebrated many of such co-curricular activities, which include sports and cultural fest "ESPERANZA 2016 & PHARMA UTBAV 2017" and Annual day celebrations "PRIM VIDHYUDH 2018". We believe this will encourage our students to set new standards in organisation skills embedded in team spirit.





## Paper Publications

1. Polymeric Nanocarriers For Combined Drug Delivery And Targeting In Cancer Therapy. Pooja Poulouse\*, N. L. Gowrishankar, Fathimathul Mubashira. M, Silji T S. International Journal of Pharma Research & Review. 2017: Vol:6, Issue:5, Pg No:2278-6074
2. Clinical Symptoms, Investigation & Management Of Dengue Fever. Deborah Evangeline .D Dr.N.L.Gowrishankar , Poornima .G and Jamseena. M. International Journal Of Pharmacy And Pharmaceutical Analysis. 2017: Vol:1, Issue:3, Page num :01-12.
3. Analytical Techniques used in quality control of Drugs: Review. Lakshmi V V, Angali Nair G and Binu Vargese. World journal of Pharmacy and Pharmaceutical sciences. 2017: Vol:6, Issue:7, Page num :1830-1843.
4. A Review On Application of HIV Inhibition Using Carbon Nanotubes. K.K.Sumayya, N.L.GowriShankar, Raheesul Mubashireen, P.G.Ambily American Journal of Pharmacy and Research. 2017: Vol:5, Issue:5, Page num :2321-3647
5. An overview of comparative study of pyrazole & pyrimidine derivatives, Sumathy Arunachalam\* N. L. Gowrishankar, Ankitha K, Archana Akhileswaran, Tindu K.D. World journal of pharmacy and pharmaceutical sciences. 2017: Vol:6, Issue:6, Page num :436-446
6. A systematic review on diagnosis and management for Post menopausal Osteoporosis. Lakshmi V V Dr.N.L.-Gowrishankar , R.Sangeetha and , M.Jeejeena, International journal of Pharmaceutical sciences and Researchers. 2017: Vol:8, Issue:12. Page num :1000-1011.
7. Antibiotic resistance-reasons and the most common resistant Pathogens-A Review. Sreeja. M K, Gowrishankar N.L, Adisha. S, Divya. K.C. Research journal of Pharmacy and Technology. 2017: Vol:10, Issue:6. Page num :1886-1890.
8. A comparative study of anthelmintic activity of albendazole nano emulsion containing oregano essential oil. Sreeja. M.K\*, and Pooja Poulouse. International Journal of Recent Scientific Research. 2017: Vol:8, Issue:9. Page num :20111-20119.
9. A Review on plants Having Hepatoprotective Potential. Lakshmi.V V, Binu Vargese, Anjali Nair. G Inventi

## STUDENT ACCOMPLISHMENTS

- Mrs. Gopika.M apprehended First rank in D. Pharmacy at Prime College of Pharmacy with 82.6%
- Prime College of Pharmacy, first D. Pharmacy students scored an overall result of 93.22% in II D.Pharm examination March 2017
- Our First batch B. Pharmacy students (2014-2018 batch) secured 82 % in first year B. Pharm examination during the academic year 216-2017



## NATIONAL DAY CELEBRATIONS - THE SPIRIT OF ONE NATION

With the ideology of love and devotion to our homeland, we celebrate Republic day and The Independence Day every year in our campus. It is with the same pride and reverence; we cherish the history of our nation. The celebration begins with flag hoisting is done in the presence of the gathering of people comprising of students, faculties and the residents of the Institute. The speeches delivered by our students rekindle the memories of great freedom fighters.



## WORLD ENVIRONMENT DAY

Prime College of Pharmacy Organised programme of planting various plants and saplings having medicinal value in and around Prime College campus. The programme was inaugurated by our beloved principal Dr.N.L. Gowrishankar. Our NSS volunteers and students actively participated in the event.



## Pharma News

### Most popular vitamin and mineral supplements provide no health benefit

The most commonly consumed vitamin and mineral supplements provide no consistent health benefit or harm, suggests a new study led by researchers at St. Michael's Hospital and the University of Toronto. The study found folic acid alone and B-vitamins with folic acid may reduce cardiovascular disease and stroke. Meanwhile, niacin and antioxidants showed a very small effect that might signify an increased risk of death from any cause. These findings suggest that people should be conscious of the supplements they're taking and ensure they're applicable to the specific vitamin or mineral deficiencies they have been advised of by their healthcare provider. In the absence of significant positive data apart from folic acid's potential reduction in the risk of stroke and heart disease - it's most beneficial to rely on a healthy diet to get your fill of vitamins and minerals. So far, no research on supplements has shown us anything better than healthy servings of less processed plant foods including vegetables, fruits and nuts.

**Aiswarya A.T, Asst. Professor.**

### 2018 FDA Approved Drugs

FDA has approved the following drugs for treatment of various diseases. Ilumya, Aimovig, Lutathera, Crystvita, Andexxa, Doptelet, Lokelma, Tavalisse, Biktarvy, Trogarzo, Jynarque, Erleada, Lucemyra, Symdeko.

**Pooja Poulouse, Asst. Professor.**

### PET imaging agent could provide early diagnosis of rheumatoid arthritis.

A novel PET tracer can visualize joint inflammation and could provide early diagnosis of rheumatoid arthritis, a common auto immune disease that causes chronic inflammation of joints and can lead to deformity and dysfunction.

**Ranjith Kumar. D, Asst. Professor.**

### The National Institute for Health and Care Excellence has issued a preliminary decision rejecting first-line use of Ipsen/Exelixis'

Cabometyx in renal cancer on the NHS. Cabometyx (cabozantinib) is currently routinely available on the NHS as a treatment for adult patients with advanced RCC following prior vascular endothelial growth factor (VEGF)-targeted therapy.

**Ranjith Kumar.D, Asst. Professor.**

### India rejects US request on capping prices on medical devices.-

And India's National Pharmaceutical Pricing Authority (NPPA) has been pushing for more price controls.

**Ranjith Kumar. D, Asst. Prof.**

### Human Corneas Have Been 3d Printed By Scientists At Newcastle University, Uk.

This technique in future ensures an unlimited supply of corneas. Worldwide requiring surgery to prevent corneal blindness as a result of diseases such as trachoma, an infectious eye disorder. The human corneal stromal cells are mixed with a unique gel. By scanning a patient's eye, they could use the data to rapidly print a cornea which matched the size and shape.

**Sumayya.K.K, Asst Professor**

### Novel Angiotensin Type-2 Receptor Agonists And Stroke

The renin angiotensin system (RAS) is a hormonal cascade which has multiple roles throughout the body. We recently demonstrated that activating a particular subtype of angiotensin receptor, the angiotensin II type 2 receptor (AT2R) is neuroprotective during stroke.

**K.Ragavan. Asst. Professor**

### Nano Sensor probe

A "nano-needle" with a tip about one-thousandth the size of a human hair pokes a living cell, causing it to quiver briefly. Once it is withdrawn from the cell, this ORNL nanosensor detects signs of early DNA damage that can lead to cancer. This nanosensor of high selectivity and sensitivity was developed by a research group led by Tuan Vo-Dinh and his coworkers Guy Griffin and Brian Cullum. The group believes that, by using antibodies targeted to a wide variety of cell chemicals, the nanosensor can monitor in a living cell the presence of proteins and other species of biomedical interest.

**Revathy .C, Asst.Professor.**

### FDA takes action against 53 websites marketing unapproved opioids as part of a comprehensive effort to target illegal online sales

The U.S. Food and Drug Administration announced that it has warned nine online networks, operating a total of 53 websites, that they must stop illegally marketing potentially dangerous, unapproved and misbranded versions of opioid medications, including tramadol and oxycodone. Companies who fail to correct the violations, as outlined in the warning letters, may be subject to enforcement action, including product seizure or injunction.

**B.Nanthini, Asst. Professor.**

### NICE has published draft guidance

Recommending that Pfizer's Xalkori (crizotinib) to treat ROS1-positive advanced non-small-cell lung cancer is made available via the Cancer Drugs Fund (CDF). ROS1-positive lung cancer is a recently discovered subtype of the disease, and NICE said that the evidence for Xalkori's effectiveness in treating it is limited.

**Ranjith Kumar. D, Asst. Professor.**



## N. S. S Activities

### N. S. S Day Celebration



NSS Day was celebrated on 25th September in our Prime College of Pharmacy. Our institution has undertaken a regular activity with the help of our NSS student volunteers.



### World AIDS Day



In association with mobile medical unit of district hospital Palakkad, AIDS awareness programme was conducted at Meenakshipuram village and kollamkunnu, Malampuzha.



### Swatchh Bharat Abhiyan



As a part of Swatchh Bharat Abhiyan environmental cleanliness in Kanjiramkunnam Village in Kodumbu Panchayat, Palakkad District was implemented.



### Blood Donation Camp



Prime College of Pharmacy has undertaken Blood donation camps, in association with Palakkad district hospital.



### Anti- Polythene Campaign



Given the harmful effects of polythene. Volunteers from college helped in the campaign. The message of lessen our environmental footprint by minimizing the use of plastic bag was given



### World Disability Day



Jyothi Nilayam is a home for around 100 Mentally challenged Children situated at Pudupariyaram, Olavakode Palakkad. Our NSS volunteers spent one whole day with those children, conducted games and encouraged them by distributing prizes.



### Zero Addiction Campaign



Conducted a camp on Alcohol Tobacco deaddiction at Naripparachalla tribal colony, Muthalamada, Kollengode and Koulappara tribal colony, Kizhakkenchery.



### World Students Day



NSS volunteers paid tribute to former Indian President Dr.A.P.J Abdul Kalam by celebrating world students day in our campus.



### Anti- Polythene Campaign



Given the harmful effects of polythene. Volunteers from college helped in the campaign. The message of lessen our environmental footprint by minimizing the use of plastic bag was given



### Immunization Awareness Programme



Immunisation awareness campaign was conducted to educate the public regarding the significance of vaccines.



### Diabetes Awareness Programme



Conducted Diabetes awareness programme, distributed leaflets so as to promote early diagnosis of diabetes.



### Gardening Activity



Our college maintain.s a medicinal garden, with wide varieties of medicinal herbs.

