



# PHARMA MONARCH

## DEPARTMENT OF PHARMACEUTICS - NEWS LETTER

An Official Publication of

### DEVAKI AMMA MEMORIAL COLLEGE OF PHARMACY

(Affiliated to Kerala University of Health Sciences, Thrissur and Approved by AICTE & PCI, New Delhi)

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Volume 05

Issue 01

August 2022

#### INSTITUTION VISION

To be the ultimate destination for training, practice and research in pharmacy education to cater the health needs of the society.

#### INSTITUTION MISSION

To provide state-of-art infrastructure, research facilities with eminent faculties to disseminate advanced knowledge in pharmacy education through innovative teaching-learning process with human and ethical values.



#### FROM THE EDITOR'S DESK .....

*A warm welcome to all the Members and Dear Readers!*

We bring the current issue of "Pharma Monarch" in this academic year with great pleasure and honour, as well as a lot of positivity and optimism.

"Pharma Monarch" will provide an ample opportunity to our students to exhibit their academic activities and explore the new creativity and pragmatic trends in the pharmaceutical industrial development.

All major pharmaceutical companies have joined forces to help one another by sharing knowledge and resources, which is critical in continuing the fight against Corona virus and Monkeypox virus. So keeping up with technological trends is essential, and we must maintain a positive attitude toward developing such pandemic prevention and new innovations as part of a noble profession.

Based on the foregoing, we have committed to providing the best quality training and knowledge to our aspiring pharmacists in order to develop and enhance holistic personalities for the betterment of health care society.

We are brimming with effective energy and enthusiasm to provide the positive opportunities for learning, thriving, and becoming a natural force! And by maintaining the same level of energy, we ensure that new efforts will spark our success.

We are pleased to learn that our department will be publishing a newsletter with information on professional activities, research projects and industrial training, as well as academic news. In addition, we are pleased to inform that the few of activities attended by our department students and faculties, as well as much more, will be included in this circular.

We extend our sincere thanks to our beloved Management and Principal, for generous support and grant us permission to release this newsletter.

Only a few numerous activities taking place have been highlighted in this bulletin which encourages a lot more including students, to use it as a venue for creative expression.

To learn extra and refresh your memory, keep scrolling.

We are looking forward to new ideas and continued success.

*Wishes and Happy Reading!*

Best Regards,  
**Prof. Dr. R. Nethaji,**  
Editor-in- Chief

**IN THIS ISSUE**    ☞ Department Activities    ☞ Internship Industrial Training

*"Academic Success Depends on Research and Publications."~ Philip Zimbardo*



*In the remembrance of*  
**Shri. K.V. Sankaranarayanan**  
(01.01.1948 - 12.07.2013)  
Founder, Devaki Amma Memorial Institutions

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## DEPARTMENT ACTIVITIES

### RESEARCH ACTIVITIES

#### Completed Research Projects

The Department has successfully completed the following research projects of PG and UG students recently and they are listed as follows:

Project Title	Students Name	Guided by
Formulation and Evaluation of Neem Seed Oil Suppositories Adapting Novel Bases	Ms. Akshaya P	Dr. R. Nethaji
Formulation Development and Evaluation of Herbal Floating Tablets using Natural Mucilage	Ms. Anjima K.K.	Dr. R. Nethaji
Development and Evaluation of Herbal Cream for Anti-inflammatory activity	Ms. Anusha P	Mrs. S. Sudha
Development and Evaluation of Polyherbal Formulation for Insect Bite	Mr. Harikrishnan N	Mr. Vimal K.R.
Novel Approach of Herbal Microsponges: Design, Formulation and Characterization	Ms. Lakshmi K.U.	Dr. R. Nethaji
Organic Mosquito Repellent Formulations; Development Evaluation and Comparative Study with the Marketed Formulations	Mr. Mohammed Hasif M.P.	Mr. Vimal K.R.
Development and Evaluation of Herbal Ethosomal Formulation for the Treatment of Acne	Mrs. Noosila M.K.	Mrs. S. Sudha
Preparation and Evaluation of Antibiotic nano-fibrous scaffold by Electrospinning technique for skin tissue regeneration in wound	Mr. Vivek M.C.	Mrs. S. Sudha
Development and Evaluation of Herbal Lipstick Formulations: A New Approach	Mrs. Fathima Swafwah Mr. Mohammed Shabeeb Ms. Prabhamol Sunny Mrs. Thaskeena Thasneem	Dr. R. Nethaji
Formulation and Evaluation of Polyherbal Shampoo for Anti-Frizz Activity	Ms. Fathima Jabin C.K Ms. Hiba Hasna C Ms. Kadeeja Jumailath V.H Mr. Navaneeth S. Sunil Ms. Shabarin Jouhara	Mrs. Mishahal T.M.
Development and Evaluation of Herbal Cosmetic Formulations for Skin Care	Ms. Jinsha T.M Ms. Mubashira N Ms. Mufeeda M Mr. Muhammad Shahan K.P. Ms. Rasla Noor	Mrs. Mishahal T.M.
Formulation and Evaluation of Herbal Blend containing Manjistha and Red Sandalwood for the Improvement of Skin Conditions	Ms. Anutha Ms. Dilrubah Abdu Nazer Ms. Gayathri T.K Mr. Jasi Muhammed K Ms. Nadeena Farsana	Mrs. Neethu K.
Pharmaceutical Development and Evaluation of Polyherbal Formulation for Natural Remedy of Grey Hairs.	Mr. Abdul Majid Nadammal Puthiyakath Ms. Hasna P Ms. Inshira Fiyosiya M.K Mr. Mohammed Irshad T Ms. Roobi Fathima K	Mrs. Neethu K.

*"You Discover Yourself Through The Research of Your Work." ~ Carine Roitfeld*



### Ongoing Research Projects

The department is inspired by identifying future needs of human resources to be felt by fast developing academics and scientific research in the area of Pharmaceutics. The following research title in the pipeline:

Project Title	Students Name	Guide by
Anti-Hypercholesterolemic Herbal Tablets: Formulation and Characterization using Plant Derived Mucilages	Ms. Aishwarya Jith	Dr. R. Nethaji
Design, Development and Evaluation of Polyherbal Tablets for Uterine Myomas Treatment	Ms. Fathima Thahsin T	Dr. R. Nethaji
Formulation Development and Evaluation of Novel Herbal Medicinal Lozenges: A Systematic Approach For Oral Stomatitis	Mrs. Finu Sherin A.P.	Dr. R. Nethaji
Investigation into the Possibility of Drug Delivery via Menstrual Cups and Sanitary Pads	Mrs. Fathima Rabwa P.T.	Dr. Vimal K.R.
Development of Traditional Wound Healing Potential of Polyherbal Formulation	Ms. Niyuktha S	Dr. S. Sudha
Development and Characterization of Polyherbal Formulation for the Treatment of Haemorrhoids	Mrs. Swathi H	Dr. S. Sudha
Investigation and Development of An Organic Herbal Formulation that Aims at Type 2 Diabetes Mellitus	Ms. Anagha H	Dr. Vimal K.R.
Development and Evaluation of Effective Topical Formulation for Insect Bite with Anti Inflammatory, Analgesic, Anti Histaminic Properties	Ms. Cristy S Joseph	Dr. Vimal K.R.

### RESEARCH PUBLICATIONS

The faculties and students are encouraged to involve in the research activities. They too involved in research and carried out various activities, which are evidenced by their paper publications and communication in reputed international journals.

#### Dr. R. Nethaji *et al.*

Study on Formulation Development and Characterization of Floating Tablets using *Mentha Piperita* extract. Technological Innovation in Pharmaceutical Research. BP International, India & UK, July 2021; 9 (19): 57-71 (Book Chapter).

Organogel-A Topical Drug Delivery Approach. *SSRG International Journal of Pharmacy and Biomedical Engineering*, Jan-April 2021; 8 (1): 1-3.

Design and Characterization of Antibiotic Emulgel for Topical Drug Delivery, *Saudi Journal of Medical and Pharmaceutical Sciences*. (Publication in progress).

Preparation and Characterization of Nanoparticles Containing Cefuroxime Axetil, *Saudi Journal of Medical and Pharmaceutical Sciences*. (Communicated).

#### Sudha S *et al.*

Preparation of Antimicrobial Nano-Fibrous Scaffold by Electrospinning Technique for Skin Tissue Regeneration Wound. *European Journal of Biomedical and Pharmaceutical Sciences*, 2021, Vol.8, Issue.12, 99-108.

Anti-inflammatory Potentials of Topical Polyherbal Cream - Review. *European Journal of Biomedical and Pharmaceutical Sciences*, 2021, Vol.8, Issue.11, 114-122.

Ethosomes Novel Vesicular Carriers for Enhanced Transdermal Delivery of Herbal Drugs. *European Journal of Biomedical and Pharmaceutical Sciences*, 2021, Vol.8, Issue.11, 99-105.

#### Krishna Prasad K *et al.*

Variations in the Composition, Cytoprotective and Anti-Inflammatory Effects of Natural Polyphenols of Edible Oils Extracted from Fresh and Dried Coconut Testa. *Physiological and Molecular Plant Pathology*, 2022, Vol.117, 101742, 1-6.



Analysis of the Chemical Composition of Root Essential Oil from Indian Sarsaparilla (*Hemidesmus Indicus*) and its Application as an Eco-Friendly Insecticide and Pharmacological Agent. *Saudi Journal of Biological Sciences*, 2021, Vol.28,7248-7252.

**Cristy S. Joseph et al.**

A Concise Review on the Scope, Therapeutic and Cosmetic Applications and the Future of Hyperbaric Oxygen Therapy. *International Journal of Pharmaceutical Research and Applications*, Nov-Dec 2021; 6 (6): 685 - 692.

**Fathima Thahsin T et al.**

Misuse of Prescription and the Over the Counter Medicines - A Literature Review. *International Journal of Pharmaceutical Research and Applications*, Nov-Dec 2021; 6 (6): 456 - 461.

**Anagha A et al.**

A Review on Dissolvable Micro-needle Patches to Enable Increased Access to Vaccines against Sars-Cov-2 and Future Pandemic Outbreaks. *International Journal of Pharmaceutical Research and Applications*, Nov-Dec 2021; 6 (6): 146-155.

**Aishwarya Jith et al.**

Factors Affecting Covid Virus Disease -2019 (Covid-19) based on the Cases from Different Countries. *International Journal of Pharmaceutical Research and Applications*, Nov-Dec 2021; 6 (6): 140-145.

**Fathima Rabwa P.T et al.**

PCOS: A 20<sup>th</sup> Century Phenomenon - A Literature Review. *International Journal of Pharmaceutical Research and Applications*, Sep-Oct 2021; 6 (5): 1209 - 1213.

**Finu Sherin A.P et al.**

A Review on the Environmental Impact Due to Face Mask Disposal and to Explore Methods to Recycle and Reuse Them. *International Journal of Pharmaceutical Research and Applications*, Sep-Oct 2021; 6 (6): 1106-1115.

#### SCIENTIFIC EVENTS PARTICIPATION

Our department faculties and M.Pharm students were sponsored to take part as delegates in various scientific events in order to stay upto date on the latest trends and developments in the pharmaceutical province. As evidenced by the following, our pharmaceutics teams have participated in some series:

**Mrs. Finu Sherin A.P** (III<sup>rd</sup> Sem M.Pharm), has participated in the MoE's sponsored impact lecture series (Phase II) session 2, organized by KMP College of Pharmacy, Perumbavoor, on 29<sup>th</sup> July 2022.

**Ms. Aishwarya Jith, Mrs. Fathima Rabwa PT, Ms. Niyuktha S, Ms. Anagha A & Ms. Cristy S Joseph** (III<sup>rd</sup> Sem M.Pharm), has participated Two days "Scientific Writing Program" organized and conducted by Alshifa College of Pharmacy, Perinthalmanna, Kerala, held on 16<sup>th</sup> & 17<sup>th</sup> June 2022.

**Dr. R. Nethaji**, Professor & Head, has attended 5<sup>th</sup> Annual Healthcare Summit - AHS 2022 (Theme : To focus on Early Disease Detection, Personalized Treatment and Prevention - Integrating Technology, Patients and Doctors & Healthcare Awards), on 11<sup>th</sup> June 2022, organized by Centre for Health and Medical Sciences, Venus International Foundation, Chennai, India.

**Ms. Aishwarya Jith, Ms. Fathima Thahsin T, Mrs. Finu Sherin AP, Mrs. Fathima Rabwa P.T, Mrs. Swathi H, Ms. Anagha A & Ms. Cristy S Joseph** (III<sup>rd</sup> Sem M.Pharm), has participated in the webinar on "Integrated Approach in Science & Technology for Sustainable Future" organized on the occasion of National Science Day, on 28<sup>th</sup> February 2022, by the Education Forum of the Indian Pharmaceutical Association (IPA), Kerala State Branch, Kerala.

**Mrs. Geethika G.K**, Asst. Professor, has successfully participated in IP Awareness/Training Program under National Intellectual Property Awareness Mission (NIPAM), held on 16<sup>th</sup> March 2022, organized by Intellectual Property Office (IPO) of Controller General of Patents, Designs and Trade Marks, India.

**Mrs. Mishalal T.M**, Asst. Professor, has participated in the National Webinar entitled "Pharmacy Career - Galaxy of Job and Business Opportunities" held on 30<sup>th</sup> August 2021, organized by Caritas College of Pharmacy, Ettumanoor, Kottayam, Kerala.



**Mrs. Mishalal T.M. & Mrs. Neethu K**, Asst. Professor, has successfully completed online "Refresher Course on Medical Education Technology" for Entry Level Faculty conducted from 2<sup>nd</sup> to 30<sup>th</sup> August 2021, under Academic Staff College, Kerala University of Health Sciences (KUHS), Thrissur, Kerala.

**Mrs. Mishalal T.M**, Asst. Professor & **Mrs. Devi Sneha M**, Lecturer, has participated as a delegates in AICTE Sponsored Two Days National E-Conference, from 9<sup>th</sup> to 10<sup>th</sup> August 2021, organized by Acharya & BM Reddy College of Pharmacy, Bengaluru, Karnataka.

**Mrs. Devi Sneha M**, Lecturer, has participated in the online workshop on "Reference Management Software in Scientific Writing" held on 31<sup>st</sup> July 2021, organized by Department of Pharmaceutics, Sankaralingam Bhuvanewari College of Pharmacy, Sivakasi, Tamilnadu.

**Mr. Krishna Prasad**, Lecturer, has participated as Delegate in AICTE sponsored one week online STTP on "New Horizons in Pharmaceutical Industry and Health Care: Rediscovering Indian Traditional System of Medicine through Novel Approaches" from 26<sup>th</sup> April to 01<sup>st</sup> May 2021, organized by Department of Pharmaceutics, Alshifa College of Pharmacy, Perinthalmanna, Malappuram, Kerala.

**Mr. Krishna Prasad**, Lecturer, has participated in the International Webinar on "Nanoparticles as Delivery System for Vaccine" on 18<sup>th</sup> February 2021, organized by Department of Pharmaceutics, KTN College of Pharmacy, Ottapalam, Palakkad, Kerala.

### DOCTORAL DEGREE AWARDED

**Dr. Sudha S**, Professor, has been awarded with the degree of Doctor of Philosophy (Ph.D) in Pharmaceutical Sciences by Bundelkhand University Jhansi, Uttar Pradesh, on 23<sup>rd</sup> September 2021. She carried out her research work on the topic "Evaluation of Human Bloom Syndrome Helicase by Systemic Purification" under the Guidance of **Prof. Dr. Ranjeeth Singh**, Department of Biotechnology, Institute of Engineering & Technology, Bundelkhand University (IET-BU). She has over 14 years of teaching and research experience, as well as numerous research publications in prestigious Pharma journals.



**Dr. Vimal K.R**, Associate Professor, has been awarded with the degree of Doctor of Philosophy (Ph.D) in Pharmacy by Sri Sathya Sai University of Technology and Medical Sciences, Madhya Pradesh, on January 2022. He carried out his research work on the topic entitled "Preparation and Evaluation of Dutasteride Niosomal and Proniosomal Gel for Treating Androgenic Alopecia" under the Guidance of **Prof. Dr. R. Nethaji**, Department of Pharmaceutics, Devaki Amma Memorial College of Pharmacy, Malappuram, Kerala. He has been a teacher and researcher for over 9 years and has published 13 research papers in peer-reviewed national and international journals.



### FACULTY PROMOTIONS

**Dr. Sudha S**, has been promoted to Professor from Associate Professor, and **Dr. Vimal K.R** has been promoted from Assistant Professor to Associate Professor, both effective from 1<sup>st</sup> April 2022.

### FACULTY ACHIEVEMENTS

**Dr. Nethaji Ramalingam**, have received the following honours in recognition of his achievements and commitment to professional advancement.

- Outstanding Researcher in Pharmaceutics Awards (VIHA 2022), June 2022, organized by Centre for Health and Medical Sciences, Venus International Foundation, Chennai, India.
- Distinguished Professor Award, July 2021, conducted by Novel Research Academy (NRA), Puducherry, India.
- SAS Best Academician Awards (Category: Pharmaceutical Sciences), 2021, declared by Scholars Academic and Scientific Society (SAS Society), Assam, India.

*"Research is The Highest Form of Adoration." ~ Pierre Teilhard De Chardin*





During Award Ceremony



Accompanying with Prof. Farhan Jalees Ahmad,  
Jamia Hamdard University

### MEMBERSHIP IN EDITORIAL BOARDS

**Dr. Nethaji Ramalingam**, has been appointed as an Advisory Editorial Board Member & Associate Editor of the following prestigious International Journals:

- Asian Journal of Biological and Life Sciences.
- Asian Journal of Pharmaceutical and Health Sciences.
- Global Journal of Research in Medical Sciences.
- International Journal of Current Science Research and Review.
- Novel International Journal of Science and Technology.

### INTERNSHIP INDUSTRIAL TRAINING

A regular training programme for the students in pharmaceutical industry is arranged as a part of curriculum industry interaction. Our Third Semester M. Pharm Pharmaceutics students **Ms. Aishwarya Jith**, **Ms. Fathima Thahsin T**, **Mrs. Fathima Rabwa P.T**, **Ms. Niyuktha S**, **Ms. Anagha A** & **Ms. Cristy S. Joseph** have successfully completed industrial training from **Dr. Reddy's Laboratories Ltd**, Srikakulam District, Andra Pradesh, India, from 18<sup>th</sup> to 30<sup>th</sup> July 2022. During this training, the students were interacted with industry personnel's and gained some practical experience in formulation plants. This industrial training was a fantastic learning and fruitful experience for our students, and it gave them more exposure.



Industrial Training  
Dr. Reddy's Laboratories Ltd



Accompanying with HR Mr. KVMK Raju,  
(PU-02, Special Economic Zone)



Industrial Visit  
Sangrore Laboratories Pvt Ltd

Our Department has also been arranged one day industrial visit for PG students on 07<sup>th</sup> January 2022. **Ms. Aishwarya Jith**, **Ms. Fathima Thahsin T**, **Mrs. Finu Sherin A.P**, **Mrs. Fathima Rabwa P.T**, **Ms. Niyuktha S**, **Mrs. Swathi H**, **Ms. Anagha A** & **Ms. Cristy S Joseph**, have visited to **Sangrore Laboratories Pvt Ltd**, Mavelikara, Kerala. These visits are extremely beneficial to our students in terms of future employment and gaining an understanding of the actual guidelines related to production and allied units in the Pharma company.

*"Imagination is The Highest Form of Research."* ~ *Albert Einstein*

**NEW FACE**

Pharmaceutics department is pleased to announce new faculty to our family. **Mrs. Geethika, GK**, has joined as Assistant Professor from 3<sup>rd</sup> January 2022 onwards. She was earned her B.Pharm from Malik Deenar College of Pharmacy, Kasaragod and her M.Pharm (Pharmaceutics) from College of Pharmaceutical Sciences, Govt. Medical College, Kozhikode. Modernized Novel Drug Delivery Systems, Nano-particle Formulation, and Therapeutic Bioengineering are among her research interests. Appointed faculty will teach in the Pharmaceutics sequence and devote the first year of her career to continuing their service. Welcome **Mrs. Geethika, GK**, to our wing.



**GLIMPSES OF PHARMA INDUSTRIAL TRAINING & VISIT**  
**Industrial Training - Dr. Reddy's Laboratories Ltd, Andra Pradesh**



Industrial Trip - Sangrore Laboratories Pvt Ltd, Kerala




**"Science and technology coupled with improved human capital have been powerful drivers of positive change in the performance and evolution of small holder system"**

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**If Four things are followed - having a Great aim, Acquiring knowledge, Hard work and Perseverance - then anything can be achieved.**



**- APJ ABDUL KALAM**



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