MALLIGE COLLEGE OF PHARMACY

#71, Silvepura, Chikkabanavara post,
Bangalore 560090

NEWSLETTER

Pharmacia Renovatio

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MALLIGE COLLEGE OF PHARMACY

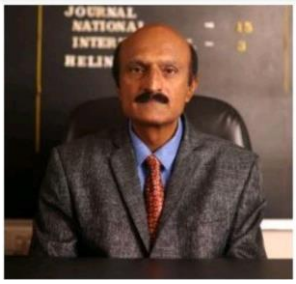
PHARMACIA RENOVATIO

THE QUARTERLY NEWSLETTER. DEC 2023

With the focus and direction dictated by the changes in the pharmaceutical industry, we at Mallige College of Pharmacy aim to develop the full potential of aspiring pharmacists.

Dr. A C Sreeram
Chairman
Mallige Education Foundation

In recent years, the health care industry has grown quickly. For pharmacy grads, this means that the opportunities are enormous. In order to provide medication information and improve healthcare, pharmacists play a crucial intermediary role between physicians and patients.



Dr. Shivakumar Swamy
Principal and Director
Mallige College of Pharmacy

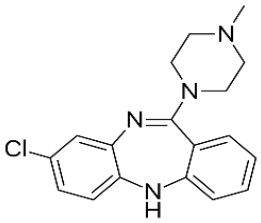
Education is a man's already-perfect expression.
We make an effort to support students' overall development by giving them the knowledge, tools, and opportunities that inspire creativity and innovation in our pupils.

Dr. S V Rajendra
Vice-Principal
Mallige College of Pharmacy

DRUG PROFILE

CLOZAPINE

Chemical Structure:



Introduction:

⇒ **Clozapine** is a medication primarily used for the treatment of schizophrenia in patients who have not responded adequately to other antipsychotic drugs. It has a unique pharmacological profile and is known for its effectiveness in managing treatment-resistant schizophrenia.

⇒ **Mechanism of action:** Clozapine acts as an antagonist at several receptors, including dopamine D1, D2, D4, serotonin 5-HT2A, 5-HT2C, 5-HT3, and adrenergic α1 receptors. Its potent antagonism of dopamine D4 receptors is believed to contribute to its unique efficacy.

⇒ **Effects on neurotransmitters:** Clozapine reduces excessive dopamine transmission in the mesolimbic pathway while having a weaker effect on dopamine in the nigrostriatal pathway. It also affects serotonin and norepinephrine neurotransmission.

Pharmacokinetics:

1. **Absorption:** Clozapine is well absorbed orally, with peak plasma concentrations achieved within 1 to 4 hours after administration. Food does not significantly affect its absorption**.**
2. **Distribution:** Clozapine has a high volume of distribution and extensively binds to plasma proteins (approximately 95%). It readily crosses the blood-brain barrier, contributing to its central nervous system effects.

3. Metabolism : Clozapine is extensively metabolized in the liver by the cytochrome P450 enzyme system, primarily CYP1A2, into several metabolites, including N-desmethylclozapine (norclozapine), which also has pharmacological **actions.**

4. Elimination: The elimination half-life of clozapine ranges from 6 to 27 hours, with an average of approximately 14 hours. Approximately 50-70% of the administered dose is excreted in the urine, primarily as metabolites, and a smaller fraction is excreted in feces.

Indication

Specific indications for clozapine include:

- Clozapine is considered the gold standard for treatment-resistant schizophrenia. It is recommended when other antipsychotic medications have been ineffective or poorly tolerated.
- Clozapine has shown efficacy in reducing the risk of suicidal behavior in patients with schizophrenia. It is often considered when there is a high risk of suicidal ideation or suicide attempts.

Adverse Drug Reactions (ADRs):

The most common side effects of Clozapine includes:

Common adverse reactions associated with clozapine include sedation, dizziness, hypersalivation, constipation, weight gain, tachycardia, and orthostatic hypotension. It can also cause potentially serious adverse effects such as agranulocytosis (a severe decrease in white blood cell count), myocarditis, seizures, and metabolic changes.

DRUG-DRUG INTERACTIONS

- **CYP1A2 Inhibitors:** Drugs that inhibit the CYP1A2 enzyme, such as fluvoxamine, ciprofloxacin, and fluoroquinolone antibiotics, can increase clozapine levels. This may raise the risk of side effects and require dose adjustments.
- **CYP1A2 Inducers:** CYP1A2 inducers, such as smoking and rifampin, may decrease clozapine levels, potentially reducing its efficacy. Dose adjustments might be necessary when initiating or discontinuing such drugs.
- **Other Central Nervous System Depressants:** Combining clozapine with other sedating drugs, including alcohol, benzodiazepines, and opioids, can increase the risk of sedation and respiratory depression.
- **Anticholinergic Drugs:** Concurrent use of anticholinergic medications with clozapine can potentiate anticholinergic side effects like dry mouth, constipation, and urinary retention.
- **QT Prolonging Drugs:** Clozapine has the potential to prolong the QT interval. Combining it with other medications that also have QT-prolonging effects (e.g., antiarrhythmics, certain antidepressants) may increase the risk of cardiac arrhythmias.

USE IN SPECIFIC PATIENT POPULATION

- **Geriatric Patients:** Elderly patients may be more susceptible to sedation, orthostatic hypotension, and anticholinergic effects.
- **Pediatric Patients:** Clozapine is not approved for use in children and adolescents due to an increased risk of adverse effects.
- **Pregnancy and Lactation:** Clozapine should be used during pregnancy only if the potential benefits outweigh the risks. It is excreted in breast milk, so caution is advised when used during breastfeeding

NEWLY APPROVED FDA DRUGS

Sl. no	Name of drug	Indication
1.	Fesoteroterodine Fumarate Extended Release Tablets 4mg and 8mg and Fesoteroterodine Fumarate Bulk	Indicated for the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency and frequency.
2.	Trifarotene 50 microgram/g (0.005% w/w) Cream	Indicated for the cutaneous treatment of Acne Vulgaris of the face and /or trunk in patients 12 years of age and older.
3.	Crisaborole Ointment 2%	Indicated for topical treatment of mild to moderate atopic dermatitis in adult and paediatric patients 2 years of age and older
4.	Prussian Blue Insoluble 340 mg and Magnesium Hydroxide 500 mg Capsule	As decorporation agent indicated for treatment of patients with known or suspected internal contamination with radioactive cesium and/or radioactive or non radioactive thallium to increase their rates of elimination.
5.	Prussian Blue Insolube 340 mg Capsule and Prussian Blue Insolube Bulk Drug	As decorporation agent indicated for treatment of patients with known or suspected internal contamination with radioactive cesium and/or radioactive or non radioactive thallium to increase their rates of elimination.
6.	Imeglimin Hydrochloride Tablet 500mg/1000mg	Type 2 diabetes Mellitus
7.	Crisaborole Bulk Drug	Indicated for topical treament of mild to moderate atopic dermatitis in adult and pediatric patients 2 years of age and older

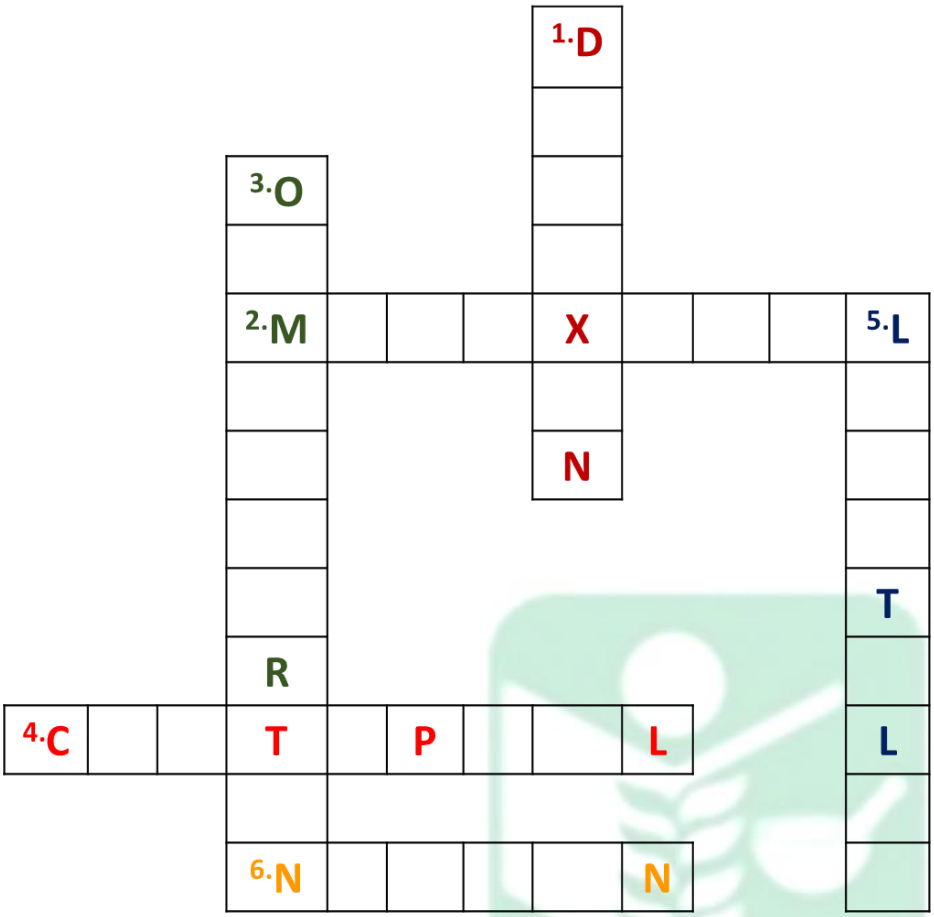
DRUG SAFETY ALERT

The preliminary analysis of Adverse Drug Reactions (ADRs) from the PvPI database revealed that the following suspected drug is associated with the ADRs are given below.

Sl. No.	Suspected Drug Indications	Indications	Adverse Drug Reactions
1.	Colistimethate Sodium	For the treatment of some serious infections caused by Gram-negative bacteria, including those of the lower respiratory tract and urinary tract, when more commonly used systemic antibacterial agents may be contraindicated or may be ineffective because of bacterial resistance.	Bartter's like Syndrome
2.	Levonorgestrel	Used as emergency Contraceptive. • For Control of Fertility. • For the treatment of Contraception, Menorrhagia & Endometrial Hyperplasia during Estrogen replacement therapy in women. •	Deep Vein Thrombosis
3.	Teneligliptin	For the treatment of Type-2 Diabetes Mellitus as a monotherapy adjunct to diet and exercise.	Bullous Pemphigoid
4.	Esomeprazole	• GERD, erosive reflux esophagitis, prevention of relapse of esophagitis & helps in eradication of H. Pylori associated peptic ulcer.	Hyperprolactinaemia

		• For the treatment of GERD, gastric and duodenal ulcer, Zollinger-Ellison syndrome.	
5.	Co-trimoxazole	• Indicated in the treatment of respiratory tract infection, urogenital infections,G.I. tract infections etc	Fixed Drug Eruption (FDE)
6.	Mefenamic Acid	• Treatment of rheumatoid arthritis,osteoarthritis, dysmenorrhoea, mild to moderate pain, inflammation, fever,dental pain.	Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) Syndrome

CROSSWORD (Drugs acting on CVS)



HINT:

➢ *Down*

1. Derived from Digitalis lanata
3. Angiotensin receptor blocker
5. DOC for the treatment of hypertensive emergency in pregnancy.

➢ *Across*

2. Drug used in the treatment of androgeneic alopecia
4. Drug used in the diagnosis of renovascular hypertension.
6. Nicotinic acid derivative used in the treatment of hypertriglyceridemia.

Answers:-

1. **Digoxin**
2. **Minoxidil**
3. **Olmesartan**
4. **Captopril**
5. **Labetalol**
6. **Niacin**

RESEARCH ARTICLE

Research Article published by Faculty in Various Journals

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Original article

3D QSAR study on substituted 1, 2, 4 triazole derivatives as anticancer agents by kNN MFA approach

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Keywords:
3D-QSAR
Genetic algorithm
Anticancer agents
1,2,4-Triazole

ABSTRACT

Background and objectives: Researchers have recently focused on the biological and synthetic effects of 1, 2, and 4-triazole fused heterocyclic molecules because they have tremendous medicinal value. The objective of the present study was to carry out the 3D QSAR evaluation on the substituted 1,2, and 4 triazole derivatives for anticancer potential using k-Nearest Neighbor-Molecular Field Analysis (kNN-MFA) method.
Methods: Using the molecular design suite, a three-dimensional quantitative structure–activity relationship (3D-QSAR) analysis was undertaken on a series of 4-amino-5-(pyridin3yl)-4H-1, 2, and 4-triazole-3-thiol anticancer drugs (Vlife MDS). This study used a genetic algorithm and a manual selection approach on 20 substituted 1, 2, and 4-triazole derivatives. Based on the genetic algorithm (GA), the 3D-QSAR model was generated. Statistical significance and predictive capacity were evaluated using internal and external validation.
Results: The most significant model has a correlation coefficient of 0.9334 (squared correlation coefficient r2 = 0.8713), showing that biological activity and descriptors have a strong relationship. The model exhibited internal predictivity of 74.45 percent (q2 = 0.2129), external predictivity of 81.09 percent (pred r2 = 0.8417), and the smallest error term for the predictive correlation coefficient (pred r2se = 0.1355). The model revealed steric (S 1047—0.0780—0.04616 927) and electrostatic (E 1002) data points that contribute remarkably to anticancer activity. A molecular field study demonstrates a link between the structural features of substituted triazole derivatives and their activities.
Conclusion: The good-to-moderate anticancer potential of compounds confirms the significant pharmacological role of 1,2,4-triazole derivatives. These results could lead to the identification of potential chemical compounds with optimal anticancer activity and minimal side effects.

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Original article

Phytochemical investigation and evaluation of *in vitro* anti-inflammatory activity of *Euphorbia hirta* ethanol leaf and root extracts: A comparative study

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Euphorbia hirta
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Albumin denaturation
Anti-proteinase
Anti-lipoxygenase

ABSTRACT

Background: Inflammation is an unpleasant complex biological condition that is with macrophages, leucocytes, and even mast cells. Many marketed effective chemical anti-inflammatory drugs are available but due to many disadvantages people are relying on the herbals with low health risk and toxicity.
Objective: The research was performed to carryout the phytochemical investigation and explore the *in vitro* anti-inflammatory activities of leaf and roots extracts of *Euphorbia hirta* (EH).
Methodology: Dried EH parts (viz. leaf and roots) were extracted with ethanol solvent using Soxhlet method and preliminary screened for presence of various phytochemicals. The extracts were also further tested for total alkaloids, flavonoids, and phenolics. After that, anti-inflammatory activity was measured *in vitro* using albumin denaturation, anti-proteinase, and anti-lipoxygenase activities against conventional anti-inflammatory agent, aspirin (100 g/ml). Finally, a correlation study was generated from the results for presence of the amount of flavonoid and phenolics in connection to the activity.
Results: The result revealed the yield was higher in ethanol root extract (48.2 g) than leaf extract. Bioactive compounds alkaloids, glycosides, flavonoids, tannins, and phenolics were reported in leaf and root extracts. Further, the number of total flavonoids and phenolics showed higher in ethanolic leaf extracts (87.53 mg QE/g and 143.20 mg GAE/g). Total alkaloids content was higher in ethanolic root extracts (13.01 mg atropine/g). Ethanol EH leaf extract exhibited significant anti-inflammatory activity than root by inhibiting albumin denaturation, proteinase, and the lipoxygenase activities with 87.51 %, and 51.2 % followed by 97.30 %, and 54.21 % followed by 94.43 % and 48.21 % respectively at 100 µg/ml concentration.
Conclusion: The results affirmed that ethanol EH leaf extract showed better anti-inflammatory activity than root extracts when evaluated with three different *in vitro* models and the dose dependency activity was recorded.

SHST Horticulture and Forestry Society of Transylvania

Baburaj R *et al.* (2023)
Notulae Scientia Biologicae
Volume 15, Issue 2, Article number 11488
DOI:10.15835/nsb15211488
Research Article

NSB Notulae Scientia Biologicae

Neuroprotective role of a protoberberine alkaloid against aluminum-induced neuroinflammation and excitotoxicity

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Abstract

The study was performed to investigate the possible neuroprotective role of palmatine, a protoberberine alkaloid against aluminum-induced aberration in neurotransmitter levels, excitotoxicity, neuronal inflammation, damage, and degeneration. 100 mg/kg of aluminum chloride served as the inducing agent and was administered orally to male Wistar albino rats for 42 consecutive days. Animals were divided into four groups, groups I, II, III, and IV which involve the normal group, the toxic control group receiving aluminum chloride, and two treatment groups administered orally with palmatine at a dose of 10 mg/kg and 20 mg/kg respectively followed by aluminum chloride. Expression of neuronal inflammatory markers like IL-6 and TNF-α were checked by the ELISA method. Deranged neurotransmitter levels of acetylcholine esterase and glutamate in rat brains were measured to determine the extent of excitotoxicity. The neuroprotective role of palmatine was determined based on histopathological studies and by determining BDNF expression by the immunohistochemistry method in rat brains. Palmatine treatment effectively regulated acetylcholinesterase levels and glutamate levels otherwise elevated by aluminum. It lowered excitotoxic damage induced by aluminum and lowered the degree of expression of inflammatory markers IL-6 and TNF- α. Improved expression of BDNF in palmatine-treated groups is indicative of the neuroprotective potential of palmatine in the restoration of neuroplasticity. Histopathology further confirms the neuroprotective potential of palmatine as the treatment significantly prevented neuronal damage degeneration and loss and restored healthy and viable neurons. The findings of the study confirm the neuroprotective potential of palmatine against aluminum-induced neuroinflammation and excitotoxicity.

Keywords: aluminum chloride; BDNF expression; excitotoxicity; neuroprotection; neurotransmitters; neuronal inflammation; palmatine

Abbreviations: AChE-acetyl choline esterase; CA- Cornu Ammonis; DG: Dentate Gyrus.

SHST Horticulture and Forestry Society of Transylvania

https://www.notulaebiologicae.ro/index.php/nsb/index

Das K and Singirikonda S (2023)
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DOI:10.15835/nsb15111409
Research Article

NSB Notulae Scientia Biologicae

Elemental impact on antibacterial study of hydroalcoholic leaves extract of *Belosynapsis vivipara*

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Abstract

Belosynapsis vivipara (Dalzell) C.E.C. Fisch. (F: Commelinaceae) is one of the rare plant species located throughout Western Ghats regions including Karnataka. Though the plant was described earlier but traditional uses and scientific evidences are still lacking. The aim of the present study was to identify the elemental content and to determine antibacterial potentiality of *Belosynapsis vivipara* (*Bv*) ethanol leaves extract. Shade dried powdered material of BV leaves was estimated for elemental content using Atomic Absorption Spectrophotometer (AAS) followed by extraction by ethanol solvent (80%) in Soxhlet apparatus for 13 hrs at 45 °C. Extract was further used for anti-bacterial screening. *In vitro* antibacterial studies on the leaf extracts (25, 50 and 100 µg/ml) were carried out on medically important micro-organisms of *Escherichia coli, Klebsiella pneumonia, Pseudomonas aeruginosa* (Gram negative) and *Staphylococcus aureus, Bacillus subtilis* and *Streptococcus pyogenes* (Gram positive) against standard Ampicillin (25 µg/ml). The powdered drug showed the presence of zinc, and Copper in high amount less content of iron, whereas very less content of Nickel and Cobalt and absence of lead, mercury, arsenic and cadmium. The preliminary phytochemical screening revealed the presence of chemical constituents like alkaloids, flavonoids, phyto sterols, saponins and phenolics. Furthermore, ethanol leaves extract of BV showed broad spectrum antibacterial efficacy against both Gram positive and Gram-negative microorganism along with the dose dependency effects. Antibacterial activity was correlated with the elements and showed positive correlation. Finally, *Belosynapsis vivipara* (Dalzell) C.E.C. Fisch. leaves were established as an effective source against strong bacterial infection.

Keywords: antibacterial studies; elemental analysis; *Belosynapsis vivipara;* MIC; MBC; microorganisms

Title	*Journal name*	*Author*
Neuroprotective potential of Cordia dichotoma in Parkinson's syndrome induced by haloperidol: An animal study	Saudi Pharmaceutical Journal	Keserla Bhavani, A. Muthukumar, Mansour Almuqbil, Kuntal Das, Yakshitha V., Moneer E. Almadani, Ahmed Alshehri, Adel Alghamdi, Syed Arif Hussain, Bader Hussain Alamer, Ebtesam Abdulrahman Jibreel, Syed Imam Rabbani, Turki Mohammed Alosaimi, Waleed Farah Alharbi, Sultan Mohammed Aldosari, Syed Mohammed Basheeruddin Asdaq
Novel ibuprofen prodrug: A possible promising agent for the management of complications of Alzheimer's disease		Anjali Nayak, Rashu Raju, Paramita Das, Kuntal Das, A. Suvitha, Biswa Ranjan Meher, Saad Alobid, Ali Ibrahim Almoteer, Moneer E. Almadani, Ahmed Alshehri, Adel Alghamdi, Fuzail Ahmad, Syed Imam Rabbani, Syed Mohammed Basheeruddin Asdaq, Naira Nayeem
3D QSAR study on substituted 1, 2, 4 triazole derivatives as anticancer agents by kNN MFA approach		Shailaja P. Desai, S.K. Mohite, Saad Alobid , M.G. Saralaya , Ashwini S Patil, Kuntal Das, Moneer E. Almadani, Syed Arif Hussain, Bader Hussain Alamer, Ebtesam Abdulrahman Jibreel, Ali Ibrahim Almoteer, Syed Mohammed Basheeruddin Asdaq
Elemental impact on antibacterial study of hydroalcoholic leaves extract of Belosynapsis vivipara	Notulae Scientia Biologicae	Kuntal Das, Sravani Singirikonda
Neuroprotective role of a protoberberine alkaloid against aluminium induced neuroinflammation and excitotoxicity		Ratna Baburaj, Rajendra Sandur V, Kuntal Das
Effective bioactive compounds and their antiviral properties from some selected aquatic plants through in silico and in vitro approaches	Aquaculture	Kuntal Das, Paramita Das, Supriya Mana
Phytochemical investigation and evaluation of in vitro anti-inflammatory activity of Euphorbia hirta ethanol leaf and root extracts: A comparative study	Journal of King Saud University – Science	Kuntal Das, Syed Mohammed Basheeruddin Asdaq, M. Saifulla Khan a, S. Amrutha, Abdulhakeem Alamri, Majid Alhomrani, Walaa F. Alsanie, Aparana Bhaskar, G. Chandana shree, P. Harshitha

PATENT APPLICATION PUBLICATIONS

TITLE OF INVENTION: **Molecular docking and invivo study of sequalene from Lantana camara for skin wound healing activity**

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Guide, Associate Professor

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OF
THE PATENT OFFICE

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PUBLICATION OF THE PATENT OFFICE

निर्गमन सं. 40/2023 **ISSUE NO. 40/2023**	**शुक्रवार** **FRIDAY**	**दिनांक: 06/10/2023** **DATE: 06/10/2023**

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(54) Title of the invention : MOLECULAR DOCKING AND IN VIVO STUDY OF SUQALENE FROM LANTANA CAMARA FOR SKIN WOUND HEALING ACTIVITY

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(57) Abstract :
ABSTRACT OF THE DISCLOSURE This invention belongs to the field of Pharmacy. Lantana camara(LC) leaves were evaluated for wound healing activity by determination of presence of bioactive components through phytochemical screening. The LC leaves were extracted with the ethanol solvent by Soxhlet method for 6 hrs and then concentrated extract was evaluated for presence of bioactive components through various chemical tests. Further confirmed with GC-MS analysis. Phytol was identified as one of the diterpene compound and docked with Matrix Metallopeptidase 12 (MMP12) as an enzyme. Binding affinity was found as -9.3. The study was novel and first time was carried out with molecular docking and further in vivo animal study also performed. Preliminary confirmation of wound healing was established through molecular docking study.Finally, in vivo animal experimentation showed remarkable skin wound healing result with squalane by increased per cent of wound contraction with decreased mean epithelialization period.

No. of Pages : 12 No. of Claims : 1

TITLE OF INVENTION: IN VITRO ANTITUBERCULAR ACTIVITY OF LEAVES ETHANOL EXTRACT OF BELOSYNAPSIS VIVIPARA

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शासकीय जर्नल

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(62) Divisional to Application Number Filing Date	:NA :NA

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2)Mr. Supriya Mana (PhD)
3)Mr. Hanumantharayappa Bylappa
4)Mrs. Sheeba FR (PhD)
5)Mrs. Poonam Saxena
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Kuntal Das
Address of Applicant :Professor and Research Director Department of Pharmacognosy and Phytochemistry Mallige College of Pharmacy #71, Silvepura, Chikkabanavara Post Bangalore- 560090. Bangalore ----------
2)Mr. Supriya Mana (PhD)
Address of Applicant :Assoc. Professor Department of Pharmacology Mallige College of Pharmacy #71, Silvepura, Chikkabanavara Post, Bangalore- 560090. Bangalore ----------
3)Mr. Hanumantharayappa Bylappa
Address of Applicant :Assoc. Professor Department of Pharmacology Mallige College of Pharmacy #71, Silvepura, Chikkabanavara Post, Bangalore- 560090. Bangalore ----------
4)Mrs. Sheeba FR (PhD)
Address of Applicant :Assoc. Professor Department of Pharmaceutics Mallige College of Pharmacy #71, Silvepura, Chikkabanavara Post, Bangalore- 560090. Bangalore ----------
5)Mrs. Poonam Saxena
Address of Applicant :Assoc. Professor Department of Pharmaceutical Chemistry, Mallige College of Pharmacy #71, Silvepura, Chikkabanavara Post, Bangalore- 560090. Bangalore ----------

(57) Abstract :
ABSTRACT OF THE DISCLOSURE This invention belongs to the field of Pharmacy and its utility is to enable In vitro antitubercular activity of leaves ethanol extract of Belosynapsis vivipara. Belosynapsis vivipara (BV) leaves were evaluated for anti tubercular activity by determination of presence of bioactive components through phytochemical screening. The BV leaves were extracted with the ethanol solvent and the study was carried out. The study was novel and first time was carried out with this plant. Beta sitosterol was identified by HPLC. Thereafter, In vitro anti tubercular activity was carried out against Mycobacterium tuberculosis using MTT assay and the result was compared with Isoniazid and Rifampicin. MIC and MBC were calculated as 100 and 320 µg/ml respectively. Very significant result was recorded after 6th days of study where extract gave 99% bactericidal activity at 100 µg/ml dose which was same as the standard drug. Finally, the whole result concluded that BV leaves ethanol extract showed significant anti tubercular activity. Standard Isoniazid and Rifampicin were used for result comparison. Furthermore, the presence of Beta-sitosterol was identified and estimated using TLC and HPLC studies respectively and estimated the amount present was 0.08% of Beta-Sitosterol in the BV leaves. Finally, all the data supported in vitro efficiency of strong antitubercular activity of BV ethanol leaves extract.

No. of Pages : 12 No. of Claims : 1

CAREERS IN CLINICAL RESEARCH FOR PHARMACISTS

The program "***Careers in Clinical Research***" was held on September 14, 2023, at the Mallige Auditorium. Students, Mr. C. S. Mujeebuddin Sir, and representatives from the university were present. Ms. Harshitha 2nd Pharm-D hosted this occasion. On this important occasion, Mr. C S Mujeebuddin Sir and the group were cordially welcomed to the program by Dr. S. V. Rajendra Sir, Vice-Principal of Mallige College of Pharmacy. All of the dignitaries lit a lamp to commemorate the event's launch.

Next, Ms. Shreya 2nd PharmD introduced Mr. C S Mujeebuddin Sir, the founder of ClinoSol Research Pvt. Ltd. He began by introducing clinical research, its goals, its scope, and career options available in India.

Unlocking New Horizons: Pharmacists shift from the past to the future for thrilling Job Opportunities was the main topic of discussion about him. When Sir spoke with the students, he shared excellent knowledge regarding clinical research and brilliant ideas.

After the meeting, the speaker and Mallige College of Pharmacy in

Bengaluru inked a Memorandum of Understanding titled ***"Breaking Barriers: Empowering Pharmacy Students through Collaborative Training and Research Exchange."***

A certificate of felicitation was then given to Mr. C.S. Mujeebuddin Sir by Dr. Kunthal Sir, Director of Research at Mallige College of Pharmacy.

Last but not least, Dr. S. V. Rajendra Sir, Vice-Principal of Mallige College of Pharmacy, concluded the program by thanking all of the attendees, speakers, organizers, guests, and students for their attendance and contributions to the event's success. By understanding more about Careers In Clinical Research In India, the event was ultimately successful.

Subsequently, Varun G. V. 4th PharmD Mallige College of Pharmacy was given the chance to attend the ISCR

Pharmacovigilance

Conference at the Vydehi Institute of Medical Sciences and Research Centre in Bengaluru by Mr. Mujeebuddin Sir.

He gave an introduction to pharmacovigilance, discussed how technology is changing the field, and discussed career options in pharmacovigilance.Following that, Sir talked about how technological advancements like artificial intelligence (AI) and machine learning (ML) can boost data collection and analysis, identify safety signals more successfully, and report adverse events more accurately and promptly.

The gentleman provided excellent knowledge regarding artificial intelligence, its applications in daily life, and job opportunities in pharmacovigilance.

Later, Mr. C S Mujeebuddin Sir presented a certificate of felicitation to Dr. Vijay MBBS MD of the Vydehi Institute of Medical Sciences and Research Centre, Bengaluru.

MALLIGE COLLEGE OF PHARMACY

APPROVED BY ACITE, PCI , RECOGNISED BY RGUHS, BENGALURU, KARNATAKA

NO 71, SILVEPURA, CHIKKABANAVARA POST, BENGALURU -560090

CERTIFICATE

OF APPRECIATION

GRANTED TO

Mr. C. S Mujeebuddin

for sharing his valuable knowledge as a Speaker on the topic "CARREIRS IN CLINICAL PHARMACY FOR PHARMACISTS " on 14th September 2023

Dr. Shailesh Yadav, Pharm.D	Dr. S. V Rajendra	Dr. Shivakumar Swamy
Coordinator	IQAC Head	Principal
Mallige College of Pharmacy	Mallige College of Pharmacy	Mallige College of Pharmacy
Bangalore	Bangalore	Bangalore

"I'm very appreciative that you gave me the chance to attend the ISCR Pharmacovigilance conference, Sir. I thank you for your inspiration, help, and advice very much, sir.
The Vydehi Institute of Medical Sciences and Research Centre in Bengaluru received an appreciation certificate from them at the end."

ISCR vydehi

Certificate of Participation

Awarded to

VARUN · G·V ·

In recognition of your Participation at the 10th Annual Pharmacovigilance Symposium

Evolving from Pharmacovigilance to Pharmaco-Intelligence & Pharmaco-Excellence - A Paradigm Shift in the Digital Era

Organized by
Indian Society for Clinical Research (ISCR)
on 15th & 16th September 2023 at Bengaluru

Dr. Sanish Davis, President, ISCR · Dr. Seema Pal, Hon. General Secretary, ISCR · Dr. Shrosdhar Venkatesh, Organizing Chairman · Dr Ananya Chakraborty, Organizing Secretary

CLINICAL RESEARCH IN INDIA, EVOLUTION AND FUTURE PERSPECTIVES

OBJECTIVES

To understand the drug development process

To understand the phases and components of the clinical research process

To appreciate the history behind the regulations in the clinical development process

To understand the current regulations involved with the clinical research process


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CERTIFICATE
OF APPRECIATION

GRANTED TO

Mr. Nanjaraje Urs. S

for sharing his valuable knowledge as a Speaker on the topic "CLINICAL RESEARCH IN INDIA, EVOLUTION AND FUTURE PERSPECTIVES " on 14th September 2023

Dr. Shailesh Yadav, Pharm.D — Coordinator, Mallige College of Pharmacy, Bangalore
Dr. S. V Rajendra — IQAC Head, Mallige College of Pharmacy, Bangalore
Dr. Shivakumar Swamy — Principal, Mallige College of Pharmacy, Bangalore

On September 14, 2023, the Clinical Research In India program took place in the Mallige auditorium. Students, Mr. Nanjaraje Urs S Sir, and representatives from the institution were there. The host of this event was Ms. Harshitha, Pharm-D.

Dr. S. V. Rajendra Sir, Vice-Principal of Mallige College of Pharmacy, gave a speech to begin this important occasion. He cordially welcomed Mr. Nanjaraje Urs S. Sir and the group to the program.All of the dignitaries lit the lamp to inaugurate the event when it was finished. The introduction to Mr. Nanjaraje Urs S Sir, CEO of Clinoquent Research Pvt. Ltd. was given by Ms. Shreya 2nd Pharm-D.

Sir, he began by introducing clinical research and outlining its scope in India. He then mostly discussed clinical trials, specifically Phase I, Phase II, Phase III, and Phase IV trials.

- Phase 0: Exploratory.
- Phase I: Tests the drug in healthy human subjects, primarily to assess safety and tolerability.
- Phase II: Tests the drug on larger groups and tests for safety and efficacy.
- Phase III: Multiple large trials testing for Safety and Efficacy.
- Phase IV: Tracks Adverse events and monitors effects in the world.

A certificate of felicitation was later given to Mr. Nanjaraje Urs S. Sir by Dr. S. V. Rajendra Sir, Vice-Principal of Mallige College of Pharmacy.

Last but not least, Dr. S. V. Rajendra Sir, Vice-Principal of Mallige College of Pharmacy, concluded the program by thanking all of the attendees, speakers, organizers, guests, and students for their attendance and contributions to the event's success.

After all, by gaining more knowledge about clinical research in India, the event was effectively conclu

ACTIVITIES

WORLD PHARMACIST DAY CELEBRATION 2023

Theme: "Pharmacists Strengthening Health Systems"

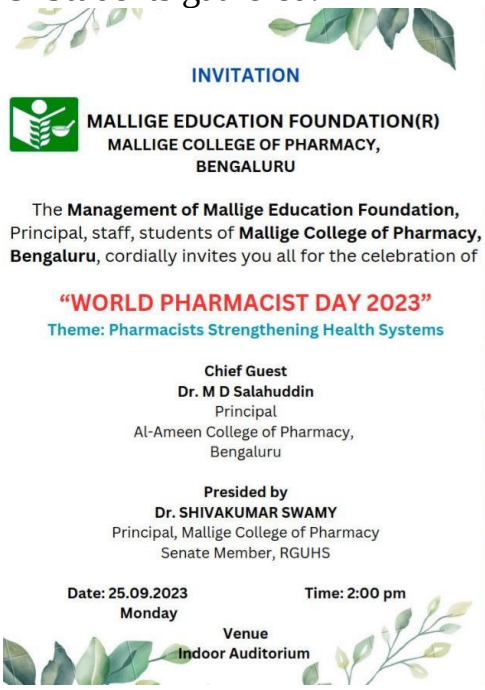
EVENT DETAILS

- **Chief Guest: Dr.M D Salahuddin, Principal at Al-Ameen College of Pharmacy**
- **Welcome Address by: Dr. S V Rajendra,Vice-Principal,MCP**
- **Presidential Remark: Dr. Shivakumar Swamy,Principal,MCP**
- **Master of Ceremony: Ms. Bhoomika. M.Pharma**
- **Date:** 25-09-2023
- **Venue:** Mallige College of Pharmacy, Auditorium
- **Timings:** 2.00 PM Onwards followed by various Events & Valedictory Function

EVENT REPORT

WORLD PHARMACIST DAY CELEBRATION was held on 25th September 2023 at Mallige auditorium in the presence of Chief Guest Dr. M D Salahuddin, Dr. S V Rajendra,Vice-Principal & Dr. Shivakumar Swamy, Principal along with Students.

To start celebrate the occasion Dr. S. V. Rajendra Sir Vice – Principal Mallige College of Pharmacy lighted the lamp to inaugurate the various event such as Quiz Competition, Speech, Poster Presentation & Drawing on same day & he also welcomed Chief Guest & Principal, Staffs & Students gathered.



PROGRAMME GLIMSE


MALLIGE COLLEGE OF PHARMACY
NO.71, SILVEPURA, CHIKKABANAVARA POST, BENGALURU -560090
AFFILIATED BY PCI, RGUHS, RECOGNISED BY GOVT. OF KARNATAKA
WORLD PHARMACIST DAY
2023
25TH SEPTEMBER 2023
CHIEF GUEST
Dr. M D Salahuddin
Principal
Al-Ameen College of Pharmacy
Bangalore
VENUE:- MALLIGE INDOOR AUDITORIUM


Mallige College of Pharmacy
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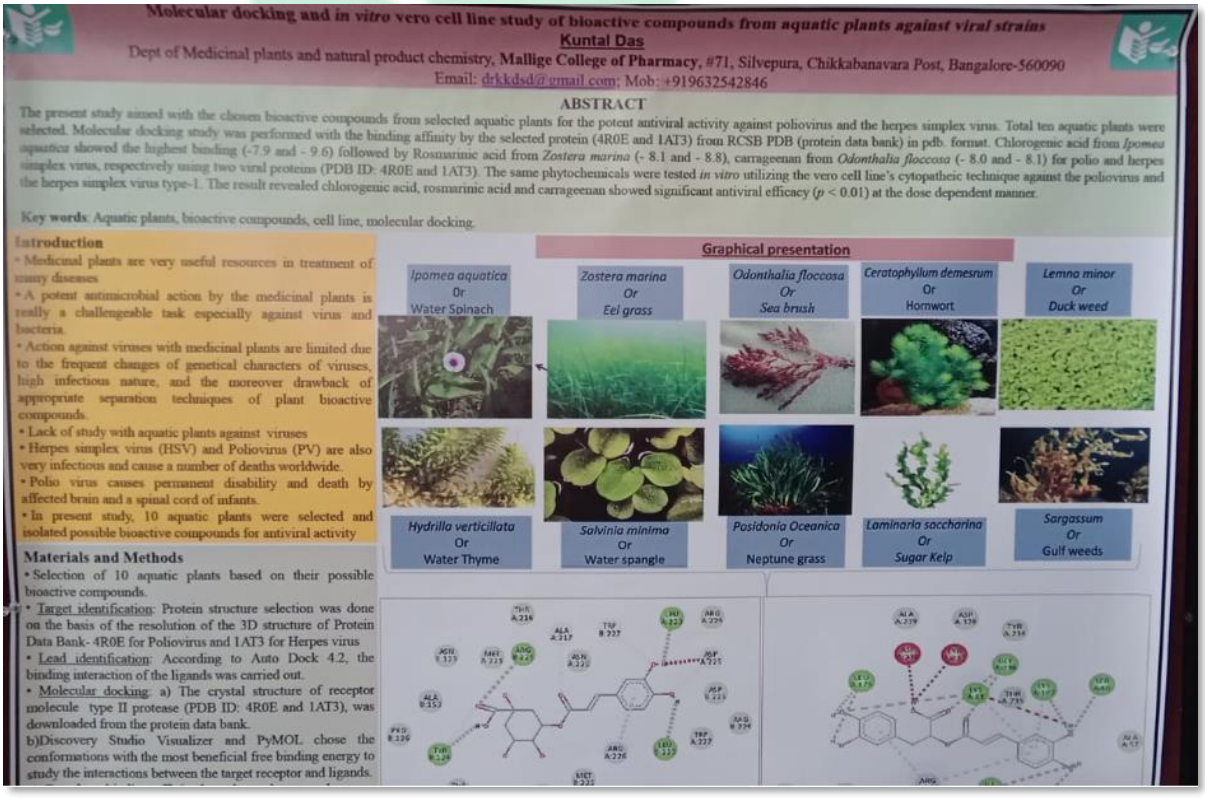
CERTIFICATE
OF APPRECIATION
THIS CERTIFICATE IS PROUDLY PRESENTED TO
Aaron Joseph
Social Media Designer
"SOCIAL MEDIA DESIGNER" OF MALLIGE COLLEGE OF PHARMACY.
"WORLD PHARMACIST DAY" HELD DURING 25TH SEPTEMBER 2023
Dr. Shailesh Yadav, Pharm.D
Coordinator
Mallige College Of Pharmacy
Banglore
Dr. S V Rajendra
IQAC Head
Mallige College Of Pharmacy
Banglore
Dr. Shivakumar Swamy
Principal
Mallige College Of Pharmacy
Banglore

Poster Presentation By Faculty

On 22nd - 23rd September 2023



Molecular docking and *in vitro* vero cell line study of bioactive compounds from aquatic plants against viral strains

Kuntal Das
Dept of Medicinal plants and natural product chemistry, **Mallige College of Pharmacy**, #71, Silvepura, Chikkabanavara Post, Bangalore-560090
Email: drkkdsd@gmail.com; Mob: +919632542846

ABSTRACT

The present study aimed with the chosen bioactive compounds from selected aquatic plants for the potent antiviral activity against poliovirus and the herpes simplex virus. Total ten aquatic plants were selected. Molecular docking study was performed with the binding affinity by the selected protein (4R0E and 1AT3) from RCSB PDB (protein data bank) in pdb. format. Chlorogenic acid from *Ipomea aquatica* showed the highest binding (-7.9 and - 9.6) followed by Rosmarinic acid from *Zostera marina* (- 8.1 and - 8.8), carrageenan from *Odonthalia floccosa* (- 8.0 and - 8.1) for polio and herpes simplex virus, respectively using two viral proteins (PDB ID: 4R0E and 1AT3). The same phytochemicals were tested *in vitro* utilizing the vero cell line's cytopathetic technique against the poliovirus and the herpes simplex virus type-1. The result revealed chlorogenic acid, rosmarinic acid and carrageenan showed significant antiviral efficacy ($p < 0.01$) at the dose dependent manner.

Key words: Aquatic plants, bioactive compounds, cell line, molecular docking.

Introduction

- Medicinal plants are very useful resources in treatment of many diseases
- A potent antimicrobial action by the medicinal plants is really a challengeable task especially against virus and bacteria.
- Action against viruses with medicinal plants are limited due to the frequent changes of genetical characters of viruses, high infectious nature, and the moreover drawback of appropriate separation techniques of plant bioactive compounds.
- Lack of study with aquatic plants against viruses
- Herpes simplex virus (HSV) and Poliovirus (PV) are also very infectious and cause a number of deaths worldwide.
- Polio virus causes permanent disability and death by affected brain and a spinal cord of infants.
- In present study, 10 aquatic plants were selected and isolated possible bioactive compounds for antiviral activity

Materials and Methods

- Selection of 10 aquatic plants based on their possible bioactive compounds.
- Target identification: Protein structure selection was done on the basis of the resolution of the 3D structure of Protein Data Bank- 4R0E for Poliovirus and 1AT3 for Herpes virus
- Lead identification: According to Auto Dock 4.2, the binding interaction of the ligands was carried out.
- Molecular docking: a) The crystal structure of receptor molecule type II protease (PDB ID: 4R0E and 1AT3), was downloaded from the protein data bank.
b)Discovery Studio Visualizer and PyMOL chose the conformations with the most beneficial free binding energy to study the interactions between the target receptor and ligands.

Graphical presentation

Ipomea aquatica Or Water Spinach
Zostera marina Or Eel grass
Odonthalia floccosa Or Sea brush
Ceratophyllum demesrum Or Hornwort
Lemna minor Or Duck weed
Hydrilla verticillata Or Water Thyme
Salvinia minima Or Water spangle
Posidonia Oceanica Or Neptune grass
Laminaria saccharina Or Sugar Kelp
Sargassum Or Gulf weeds

ONLINE CPR AWARENESS PROGRAMME

The Online CPR Awareness Programme conducted at Mallige College of Pharmacy aimed to educate and equip B.Pharm and PharmD students with comprehensive knowledge and practical skills in Cardiopulmonary Resuscitation (CPR). The primary goal was to enhance their understanding of CPR techniques, empowering them to respond effectively in emergency cardiac situations.

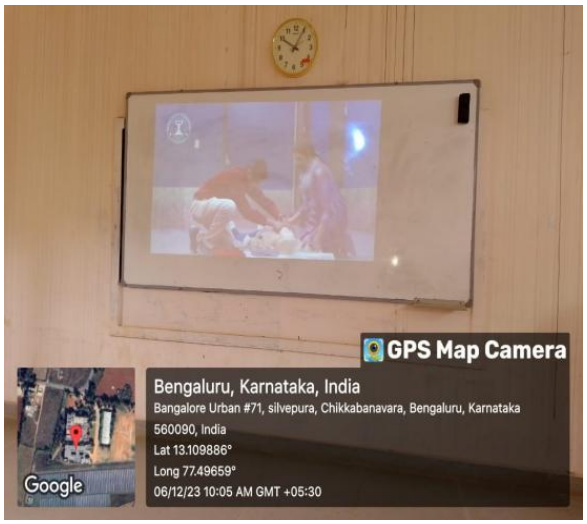
Event Highlights:

- **Theoretical Training Sessions:**
    - The seminar commenced with theoretical sessions elucidating the significance of CPR, its techniques, and its critical role in saving lives during cardiac emergencies.
- **Practical Demonstration and Training:**
    - Live demonstrations and interactive sessions were conducted to familiarize participants with practical CPR techniques. Students were guided through step-by-step procedures to administer CPR effectively.
- **Q&A and Discussion Forum:**
    - An interactive segment allowed students to ask questions, seek clarification, and engage in discussions regarding CPR procedures. This fostered a deeper understanding and addressed queries.
- **Role-playing Scenarios:**
    - Simulated emergency scenarios were enacted, encouraging students to apply their newly acquired CPR knowledge and skills in realistic situations.

Outcome:

- Enhanced Understanding: Students gained comprehensive knowledge about CPR, including its importance, correct techniques, and the critical role it plays in emergency healthcare.
- Practical Proficiency: Through live demonstrations and interactive sessions, participants developed practical skills in administering CPR, bolstering their confidence in emergency response situations.
- Engagement and Interaction: The seminar encouraged active participation, fostering discussions and a collaborative learning environment among the students.

Conclusion: The Online CPR Awareness Programme held at Mallige College of Pharmacy proved to be an enlightening and practical learning experience for B.Pharm and PharmD students. Led by the faculty coordinators, the seminar effectively achieved its objectives, equipping students with the theoretical understanding and practical skills necessary for effective CPR administration during emergencies.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Cardiopulmonary Resuscitation(CPR)
Awareness Video
GPS Map Camera
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NATIONAL PHARMACY WEEK

Mallige College of Pharmacy celebrated National Pharmacy Week from November 20th to December 24th, 2023, with an array of engaging activities focused on promoting awareness and understanding of the pharmacy profession among 1st-semester B. Pharm and Pharm D students. The event was orchestrated in collaboration with Mrs. Suma U S, Assistant Professor, aiming to highlight the theme, "Join Pharmacist to Ensure Patient Safety."

Objective: The primary aim of the National Pharmacy Week organized by Mallige College of Pharmacy was to enlighten and engage 1st-semester B. Pharm and Pharm D students on the pivotal role pharmacists play in ensuring patient safety. The week-long event, held from November 20th to December 24th, 2023, was meticulously designed to promote awareness, knowledge, and appreciation for the pharmacy profession, aligning with the theme, "Join Pharmacist to Ensure Patient Safety."

Event Schedule:

- **November 20, 2023 - Poster Presentation:** Students participated in a poster presentation showcasing their creativity and knowledge on various aspects of pharmacy, particularly emphasizing the role of pharmacists in ensuring patient safety.
- **November 21, 2023 - Essay Writing:** An essay writing competition was organized, allowing students to express their perspectives and insights into the significance of pharmacists in healthcare and patient safety.
- **December 22, 2023 - Drawing Competition:** The drawing competition encouraged artistic expression, enabling students to visually represent the theme and the critical role of pharmacists in ensuring patient well-being through their creative skills.
- **December 23, 2023 - Student Speeches:** Students had the opportunity to deliver speeches, sharing their thoughts, experiences, and aspirations regarding the pharmacy profession and its impact on patient safety.
- **December 24, 2023 - Valedictory Function:** The National Pharmacy Week culminated in a valedictory function, acknowledging the efforts and participation of students throughout the week-long event. A ceremony was held, recognizing outstanding contributions and achievements in the various competitions and activities.

Outcome and Impact: The week-long celebration successfully engaged students in multifaceted activities, fostering a deeper understanding of the pharmacy profession's significance in ensuring patient safety. It provided a platform for students to showcase their talents, knowledge, and passion for the field.

Conclusion: The National Pharmacy Week at Mallige College of Pharmacy served as a significant platform for students to celebrate the role of pharmacists in healthcare, emphasizing the imperative need for their involvement in ensuring patient safety. The collaboration and coordination with Mrs. Suma U S, Assistant Professor, facilitated a well-organized and impactful event, contributing to the students' comprehensive learning experience.


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Training and Placement Cell

The Training & Placement Office, facilitates the process of placement of students passing out from the Institute besides collaborating with leading organizations and institutes in setting up of internship and training program of students. The office liaises with various industrial establishments, corporate houses etc which conduct campus interviews and select graduate and post-graduate students from all disciplines. The Training & Placement Office provides the infra-structural facilities to conduct group discussions, tests and interviews besides catering to other logistics.

Shortlisted students

S.No	Name	Qualification	Feedback
1	Danny Dravidar	B. Pharm	Initial screening shortlisted
2	Shail Ansari	B. Pharm	Initial screening shortlisted
3	Vijayalakshmi	B. Pharm	Initial screening shortlisted
4	Vijaykant Thakur	B. Pharm	Initial screening shortlisted
5	Mariya Sanjana	B. Pharm	Initial screening shortlisted
6	Mahalakshmi	B. Pharm	Initial screening shortlisted
7	Nirusha	B. Pharm	Initial screening shortlisted
8	Sanjeev	B. Pharm	Initial screening shortlisted
9	Swathi	B. Pharm	Initial screening shortlisted
10	Archana	B. Pharm	Initial screening shortlisted

Name of Candidate	Qualification
Yashaswini G	Diploma
Asha Patil	Diploma
Nuthan C S	Diploma
Vaishnavi P	Diploma
Shilpa N	Diploma

Name of Candidate	Qualification
Ankita sahani	B Pharm
Vijayalakshmi A	B Pharm
Mariya Sanjana A	B Pharm
Sandhya B S	B Pharm
Y Manjusree	B Pharm
Bhuvana	B Pharm
Sahana A	B Pharm
Nishchitha Reddy MS	B Pharm
Pathak Saurabh	B Pharm
Sanjeev Kumar	B Pharm
Vipul Prabhu	B Pharm
Danny Dravidar	B Pharm
Sumit Debnath	B Pharm
Shekhar Sarkar	B Pharm
Vijaykant Thakur Hazam	B Pharm

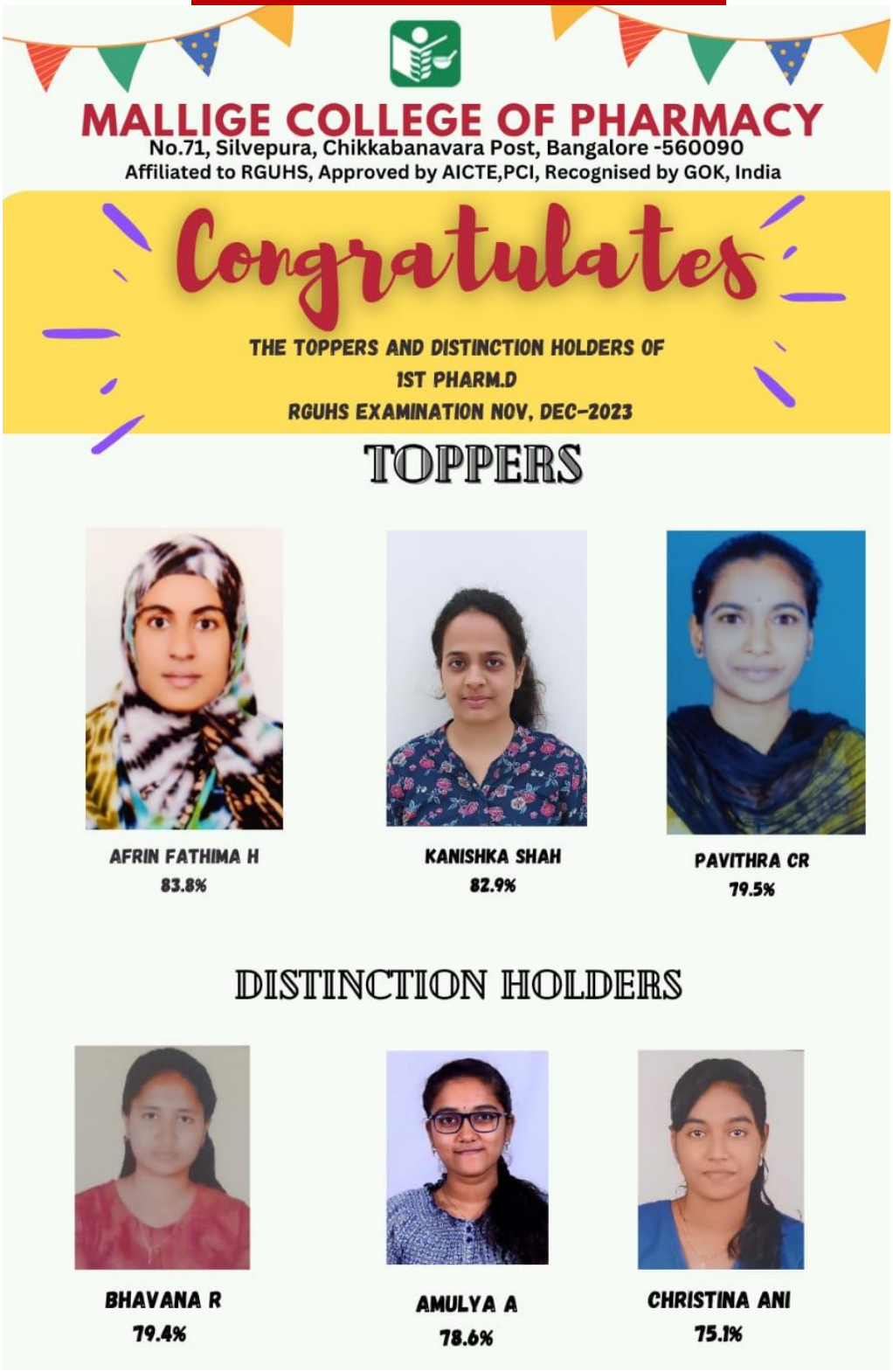
Student Achievements and Awards

Shri. Gaddeppa.B.Guttedar (Kannada Rajyotsava Puraskar 2023)

- **Awarded for** : Kannada Sahitya (Kannada Literature)
- **From**: Karnataka Samyukta Ranga trust in association with Kannada and Sanskriti Department Govt of Karnataka

Toppers and Distinction holders of RGUHS Examination Nov-Dec 2023

1st year Pharm.D



2nd year Pharm.D

MALLIGE COLLEGE OF PHARMACY

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Congratulates

THE TOPPERS AND DISTINCTION HOLDERS OF
2ND PHARM.D
RGUHS EXAMINATION NOV,DEC–2023

TOPPERS

SHREYA M S
86.7%

SMRITHI S B
86.5%

HARSHITHA A S
86.1%

DISTINCTION HOLDERS

ROHITH H M
85.3%

MEGHANA J
84.6%

BHUMIKA J
82.2%

PRATHIKSHA U
81.4%

RANI
79.5%

S K MD SALMAN
78.5%

MEGHANA B M
78.1%

SURAJ ALI KHAN
78.1%

DHINESH KUMAR S
77.6%

SONIKA G
77.2%

HARSHAVARDHAN RAJ G
75.7%

3rd year Pharm.D

MALLIGE COLLEGE OF PHARMACY

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Affiliated to RGUHS, Approved by AICTE,PCI, Recognised by GOK, India

Congratulates

THE TOPPERS AND DISTINCTION HOLDERS OF
3RD PHARM.D
RGUHS EXAMINATION NOV, DEC-2023

TOPPERS

APSARA T M
83.6%

SHREE VARSHA M S
82.9%

VINEETH J
82.3%

DISTINCTION HOLDERS

VARSHA K B
81.6%

KUNTAL NANDI
81%

ROHIT DANDAPAT
79.5%

S K JAMILUDDIN
79.4%

CHANDAN GOWDA G L
79.3%

VIDYASHREE R
79.2%

NIKHIL RAJ S K
78.4%

ARCHITA BHATTACHARJEE
78.1%

MUIZ AHMED SYED
77.9%

RAISUL ISLAM
76.2%

SANKET SINGH
75.9%

JIBI T SAJI
75.6%

LIYA ELZA LINSY
75%

4th year Pharm.D

MALLIGE COLLEGE OF PHARMACY

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Congratulates

THE TOPPERS AND DISTINCTION HOLDERS OF
4TH PHARM.D
RGUHS EXAMINATION NOV, DEC–2023

TOPPERS

PRIYA T K
86.4%

VARUN G V
86.3%

REMA RACHAL
85%

DISTINCTION HOLDERS

MEGHA GHOSH
84.6%

MIMANSA VERMA
84%

SUKANYA K
83.5%

JINCY SABU
82.6%

SHARON J
80.1%

VINAYAKA S KARLI
77.9%

DEBRUP DEY
75.7%

PRAVAS K P
75.4%

5th year Pharm.D

MALLIGE COLLEGE OF PHARMACY

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Congratulates

THE TOPPERS AND DISTINCTION HOLDERS OF
5TH PHARM.D
RGUHS EXAMINATION NOV,DEC–2023

TOPPERS

KARTHIK MOHANDAS
89.8%

SPURTHI B.S
89.2%

HARI NARAYAN SHAH
88.2%

DISTINCTION HOLDERS

MONIKA. L
87.6%

DAIAMON KHARLYNNAI
86%

CHRISTIL RAJAN
85.6%

K.U JANMITA
84%

SHIVLINGAYYA HIREMATH
83.2%

SARA SANDAL K.J
81.6%

GIRIDHAR K.S
79.2%

AARON JOSEPH
77.8%

IRENE THANKAM JOHNSON
75.8%

VARADA P.V
75.8%

SANDRA S
75.2%

2nd Sem B.Pharm

MALLIGE COLLEGE OF PHARMACY

71, Silvepura Chikkabanavara Post Bengaluru -560090
Affiliated to RGUHS Approved by AICTE PCI Recognised by GOK India

Congratulations

Toppers & Distinction Holders of 2nd sem B.Pharm
RGUHS EXAMINATION -NOV,DEC-2023

Toppers

PRIYA
83.1%

RAJKUMAR MANNA
83.17%

KEERTHANA
83.03%

Distinction Holders

RITHESH
82.20%

ADITYA BAG
81.7%

SHALINI C
81.51%

SUVAJITH PAHARI
80.82%

SUPTI GOSWAMI
80.56%

MANISHA KUMARI
80.55%

SHABANA MURTUJA
80.41%

RAKSHITHA C
80.13%

KHAN AMJAD RAZA
79.72%

VARUN D
79.32%

NEHA HAIT
79%

ADITINANDAN GIRI
78.3%

AJMAT SAI
78.51%

RAMYASRI
77.65%

MONIKA
77.24%

MARIYA JOSPHIN J
76.4%

NAYAN KABIR
76.82%

ARGHADEEP M
76.56%

SANTHOSHA B R
75.86%

ABHISHEK SINGH
75.59%

PRANBHANDU PAUL
75.56%

ARNAB KUMAR PANDA
75.18%

4th Sem B.Pharm

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Congratulations

Toppers and Distinction Holders of 4th sem B.pharm
RGUHS EXAMINATION-NOV DEC-2023

Toppers

GAYATRI HAMESH RATHOD
83.14%

MEGHANA K J
78%

SHIVAPRASAD KANJE
77.28%

Distinction Holders

LAKSHMI S
76.71%

ARCHITA
76.28%

SANTANU
76.14%

SUNIL N
75.28%

MEGHANA R
75.5%

SANJANA P
75.5%

6th Sem B.Pharm

MALLIGE COLLEGE OF PHARMACY

71, Silvepura Chikkabanavara Post Bengaluru -560090

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Congratulations

Toppers & Distinction Holders of 6th sem B.Pharm

RGUHS EXAMINATION NOV, DEC-2023

Toppers

NITHYASHREE M

82.26%

LAXMI PRASAD S

80.04%

RAKSHITHA PUTTU

79.6%

Distinction Holders

AMRUTHA V

79%

HARSHITHA S

78.9%

SOUNDARYA B G

78.8%

GAGANA H

78.6%

ASMITHA BHATTA

78.27%

YADAV KISHAN HARINATH

78%

AARYAN DAS

77.86%

LOHITH L

77.46%

BISHAL MAHATO

76.93%

MOHAMMED SUHAIL S

76.3%

VINAY S K

75.3%

ABHISHEK R

75.2%

SHABNAM D

75.06%

8th Sem B.Pharm

MALLIGE COLLEGE OF PHARMACY

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Congratulations

Toppers & Distinction Holders of 8th sem B.Pharm
RGUHS EXAMINATION NOV DEC-2023

Toppers

HARSHITHA S
85.81%

RAKSHITHA D M
84.9%

YASHASWINI C B
84.18%

Distinction holders

LAVANYA M
84%

MAHALAXMI M
83.45%

SUDHA R
83.09%

ANSU V
82.72%

SAHIL ANSARI
81.63%

BALARAM PATRA
81.45%

PRASHANTH E
81.25%

ARCHANA
80.09%

Y MANJUSREE
80.72%

NIRUSHA R
80.72%

SAHANI ANKITA
80.36%

CHANDANA R
80.18%

SWATHI
80.18%

ARKADIP DEY
80%

AISHWARYA R
79.81%

DRAVIDAR DANNY
79.45%

MARIYA SANJANA
79.27%

POOJA M
79.27%

BHUVANA
78.72%

YASHWANTH BHARADWAJ
78.36%

IMRAN AHAMAD
78.18%

SHRAVANI
78.18%

VIPUL V PRABHU
77.09%

ABDULSHUKOOR MULLA
76.09%

PATHAK SAURABH
76.54%

MONISHA D
76.54%

RAGHAVENDRA S
76.54%

CHAITHRA M
76.54%

NISHCHITHA REDDY
76.36%

SANJEEV KUMAR
76.36%

B LAKSHMI BHARGAVI
76.18%

SANDHYA B S
76.18%

SINGH NEERAJ
76%

RANJITH E
75.63%

AMAN KUMAR
75.45%

VIVEK KUMAR
75.09%

2nd Sem M.Pharm

MALLIGE COLLEGE OF PHARMACY

71 Silvepura Chikkabanavara Post Bengaluru 560090
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Congratulations

Toppers and Distinction Holders
Of 2nd SEM M.PHARM
RGUHS EXAMINATION NOV,DEC-2023

Toppers

SHREYA L
84.1%

NISHA N
81.2%

NAVYASHREE G
81.0%

Distinction Holders

MEGHANA S
79.5%

JEEVITHA K B
79%

DIVYASHREE M B
78.4%

GIRIJA
76.9%

SHASHANK
76%

4thSem M.Pharm(Pharmacology)

MALLIGE COLLEGE OF PHARMACY

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Congratulations

Toppers and Distinction Holders of 4th sem M.pharm(Pharmacology)
RGUHS EXAMINATION-NOV DEC-2023

Toppers

BHOOMIKA N JOSHI
96%

TAGARI MANNA
93.8%

KAISH ANSARI
92.8%

Distinction Holders

PANKAJ CHOUDHARY
92.4%

MAYA KRISHNAMURTHY
91.8%

BANLONGKHRAW DIENGDOH
91.2%

JAYANTH S
90.6%

JOB OPPORTUNITIES

1. Entrepreneurship opportunities in Pharmacy
2. Medical writers/scientific writers.
3. Jobs in Pharmacy regulatory affairs
4. Consultant pharmacist
5. Production, Quality control, Regulatory affairs, R & D in Pharma companies.
6. Pharma Marketing job.
7. Opportunities in Abroad as Pharmacist.
8. Teaching job in Pharmacy Colleges.
9. Can take up positions such as drug inspector, Clinical Researcher, Production Management Professional, Analyst, Intellectual property Promoter, etc or go onto become a pharma entrepreneur
10. Job in Drug's controller department (Drug Inspector)/Government Hospitals.
11. New avenues in Clinical trails/CRA/Health Insurance.

COURSES OFFERED:

D. Pharmacy – 2 years programme

B. Pharmacy – 4 years programme

Pharma D. - 6 years programme

M. Pharmacy-2 years programme
(Pharmacology and Pharmaceutics)

PARENT HOSPITALS:

Mallige Medical Centre:

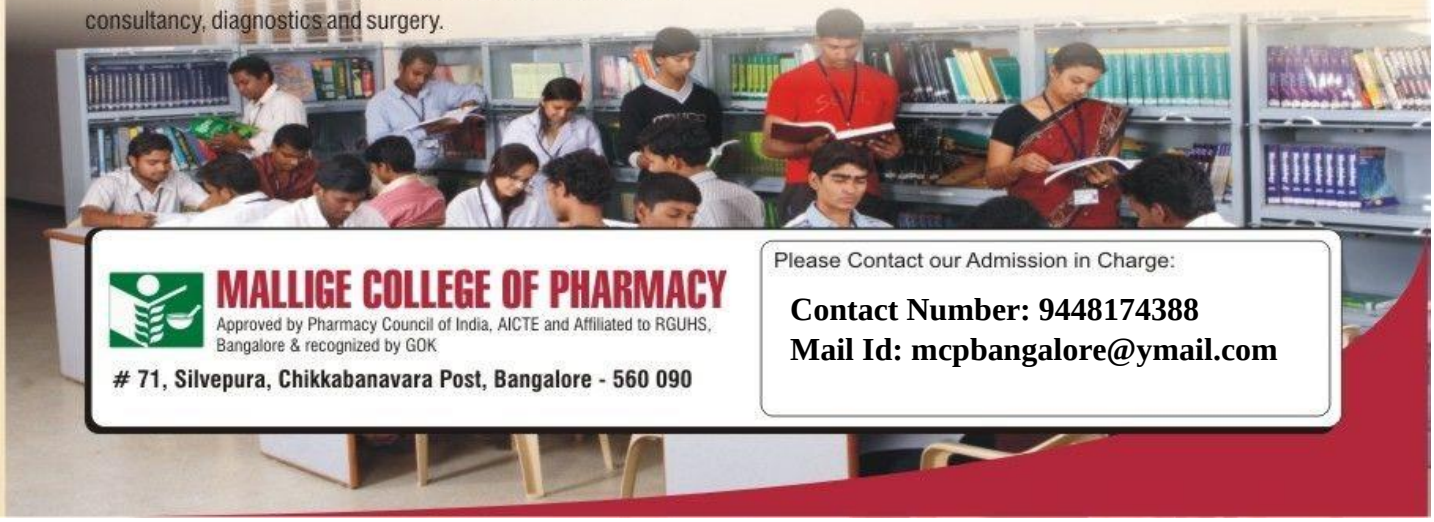
Mallige Medical Centre is multispecialty tertiary care hospital established in 1978 with 300 beds, conveniently located in the heart of Bengalore. Mallige Medical Centre is open 24 hours for Accidents and Emergencies like trauma, heart ailments, burns and other illnesses. The diagnostic facilities and pharmacy also provide services round the clock.

Mallige Medical Centre admits medico-legal cases. Our resolve is to provide high quality medical care to every patient at an affordable cost. We offer our patients the very best in consultancy, diagnostics and surgery.

Mahabodhi Mallige Hospital:

State of the art 250 Bed multi speciality tertiary care centre located opposite to Lalbagh in Jayanagar, is an offshoot of Mallige Medical Centre which has been rendering medical service for the past 25 years.

At Mallige we are known for our prompt and personalized attention, preventive adivices, screening protocols and prophylactic care. At Mallige, we take a holistic approach and care for the individual rather than just a disease.



MALLIGE COLLEGE OF PHARMACY
Approved by Pharmacy Council of India, AICTE and Affiliated to RGUHS, Bangalore & recognized by GOK

 # 71, Silvepura, Chikkabanavara Post, Bangalore - 560 090

Please Contact our Admission in Charge:

Contact Number: 9448174388
Mail Id: mcpbangalore@ymail.com

CLINICAL PHARMACY ACTIVITIES

DEPARTMENT OF PHARMACY PRACTICE
CLINICAL PHARMACY ACTIVITIES
AT
MALLIGE HOSPITAL
CRESCENT ROAD BANGALORE

✓ Pharm.D (Doctor of Pharmacy) Students activities at Hospital:

- Prescription Audit both OP/IP
- Ward round Participation
- Drug Dispensing for both In-patient & Out-patient
- Actively Participation for making Narcotics Drug Policy
- Case Study
- Case Presentation
- Medicine Reconciliation

✓ Clinical Activities:

- Drug Information Services
- Restricted Antimicrobial Monitoring
- For Making Poison Act Policy
- Patient Counselling Services
- Aids in clinical decision making
- ADR Monitoring & Reporting
- Dispensing & counselling Discharge Medication
- Drug Interaction Monitoring
- Health Awareness Programs
- Medical Camps
- Drug Therapy Monitoring
- Medication Management & Use
- Hemovigilance
- Discharge Medications
- Pharmacoepidemiologic & Pharmacoeconomics studies
- Community based clinical pharmacy activities
- Case Studies & Research Work

EDITORIAL BOARD

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MALLIGE COLLEGE OF PHARMACY

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DEPARTMENT OF PHARMACOLOGY
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MALLIGE COLLEGE OF PHARMACY

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PHARM.D. Intern
STUDENT COMMITTEE
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