

भैषज संदेश
**BHAISHAJ
 SANDESH**



Newsletter Published By Columbia Institute of Pharmacy, Raipur, (C.G.), India

NBA Accredited UG Programme (B. Pharm.)
 CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals
 DST-FIST, GOI sponsored PG Programme

CONTENTS

- *Message from Editor's Desk*
- *Columbia Institute of Pharmacy*
- *Herbal Ganesh Making Competition*
- *Teacher's Day Celebration*
- *International Literacy Day*
- *World First Aid Day*
- *Hindi Divas*
- *World Pharmacist Day*
- *Raas Garba*
- *Agri- Carnival in IGKV*
- *Inspiring Quotes*
- *National Conference*
- *Achievements*
- *Causerie*
- *GPAT Quiz*
- *Students' Thought*
- *New drug approval 2020*
- *Less Known Facts about Traditional Food*
- *Plants with Health Benefits*
- *Upcoming Event*

Message from Editor's Desk

Welcome to all the readers.....

We are very happy to introduce volume V of 9th edition of our bimonthly news letter. As we all know, a newsletter mirrors a college- its vision and mission. It also highlights the event, activities, academic progress and achievements of students. Contribution of teachers and other crucial information related to Pharmacy field are also incorporated in it. In this edition, we have tried to capture the last two months activities. I do hope that the newsletter encourages many more including students to use it as a platform to express their creativity. Please feel free to offer any suggestion for improvement.

Sincerely

Dr. Ravindra Pandey

Editorial Board

1. Dr. Ravindra Pandey
Professor, CIP, Raipur
2. Disha Kesharwani
Assistant Professor, CIP, Raipur
3. Arushi Bhojwani
B. Pharm 7th Sem

Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

Columbia Institute of Pharmacy

It's a great pleasure to introduce Columbia Institute of Pharmacy, which is Synonymous to ultimate in Pharmacy education in the state of Chhattisgarh. Columbia Institute of Pharmacy, Raipur is run and managed by Jan Pragati Education Society (JPES), established in the year 2003. Innovation excellence & quality are the driving forces on the vision of Columbia Institute of Pharmacy which has a rich proud heritage of academic excellence. The campus is lavishly spread over acres of lush green land and situated 14 km away from the hustle bustle of the city and just 4 km away from Chhattisgarh state assembly setting unabated efforts to add value in Pharma, Engineering and Management education.



Columbia Institute of Pharmacy, Raipur

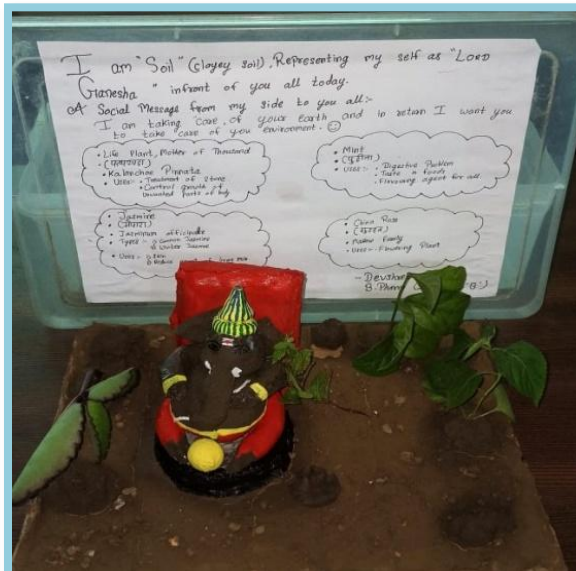
NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

Herbal Ganesh Making Competition

Columbia Institute of Pharmacy organized Herbal Ganesh Competition on 03rd September 2022. In this competition all the students of the college took part enthusiastically. Students made Herbal Ganesh with the use of medicinal plant, clay and eco-friendly materials.



Columbia Institute of Pharmacy, Raipur
NBA Accredited UG Programme (B. Pharm.)
CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals
DST-FIST, GOI sponsored PG Programme

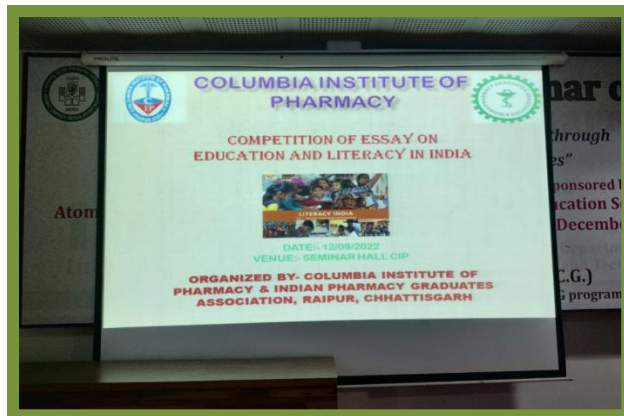
Teacher's Day Celebration [5th September 2022]

Students of Columbia Institute of Pharmacy organized a departmental celebration for the faculty members of the institution. The teachers expressed their joy and were pleased at the display of gratitude by the students. The festivity started with the cutting of a cake, and snacks enjoyed by all. All the faculty members actively participated in different activities organized by students for the teachers.



International Literacy Day 2022

International Literacy Day was celebrated on 08th September 2022. For the celebration of International Literacy Day, Essay Competition was organized, in which all the students of our institute took part enthusiastically.



Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

World First Aid Day

World First Aid Day was celebrated on 12th September 2022. For the celebration of World First Aid Day, the institute organized Quiz Competition. During the events Prof. Amit Roy, Principal, Columbia Institute of Pharmacy and Shri Harjeet Singh Hura, Secretary Columbia Institute of Pharmacy were present. Ms. Neha Dubey explained about the First Aid to all the students.



Hindi Divas 2022

Columbia Institute of Pharmacy celebrated Hindi Divas 2022 on 17th September 2022. For the celebration of Hindi Divas, Debate Competition was organized, in which all the students of our institute took part enthusiastically.



Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

World Pharmacist Day 2022

World Pharmacist Day 2022 was celebrated on 24th September 2022. World Pharmacist Day was celebrated to pay tribute to those entire pharmacists who are providing service with kindness and honesty on 25th September. For the celebration of World Pharmacist Day, 3 D Poster competition and Packaging for Various dosage forms was organized on the theme “Pharmacy United in Action for a Healthier World”, in which all the students of our institute took part enthusiastically. During the event Shri Kishor Jadwani, Chairman Janpragati Education Society, Shri Harjeet Singh Hura, Secretary Janpragati Education Society and Prof. Amit Roy, Principal, Columbia Institute of Pharmacy along with all faculty members were present. Oath’s taking ceremony was conducted by Mr. Gunjan Kalyani.



Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

Raas Garba 2022

Columbia Institute of Pharmacy organized “Raas Garba 2022” on 01st October 2022. For the celebration of Navratri, Garba Competition and Best Garba Dress competition was organized, in which all the students of our institute took part enthusiastically. Programme was started with Maa Durga Pooja. During the event Shri Harjeet Singh Hura, Secretary Janpragati Education Society, Prof. Amit Roy, Principal, Columbia Institute of Pharmacy and Dr. Ravindra Pandey, Vice Principal, Columbia Institute of Pharmacy along with all faculty members were present.



Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

Indira Gandhi Krishi Vishwavidyalaya for Agri- Carnival 2022

Columbia Institute of Pharmacy visited Indira Gandhi Krishi Vishwavidyalaya for Agri- Carnival 2022 on 15th October. Students of VII and V semester visited Medicinal and Aromatic plants identification and oil extraction area and get benefited. After that they visited mushroom Production and Agriculture exhibition. All the students went to the carnival and saw and understood the entire exhibition with great interest. This visit was very beneficial for all the students.



Inspiring Quotes:-

- ✓ “You can get everything in life you want if you will just help enough other people get what they want.”
- ✓ Courage is like a muscle. We strengthen it by use.
- ✓ You carry the passport to your own happiness.
- ✓ “Perfection is not attainable. But if we chase perfection we can catch excellence.”

Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

DBT SPONSORED NATIONAL CONFERENCE

Columbia Institute of Pharmacy organized two days national seminar sponsored by **Department of Biotechnology (DBT)** on virtual mode entitled “**Current Landscape on Novel Drug Delivery Systems for Infectious Disease: A Global Perspective**” on 17th – 18th October 2022. The chief guest of the inaugural function of the program was Prof. Shailendra Saraf. The scientific sessions were filled with various eminent speakers of the field. A lot of students have participated in oral and poster presentations under the program. Awards were distributed to the winner during valedictory function.

ACHIEVEMENTS

Paper Publication

1. **Dr. Shiv Shankar Shukla** published a paper titled “A Validated Method Development for Estimation of Bendamustine HCl in Bulk and Solid Dosage Form by 1st Order Derivative Spectroscopy” in INDIAN DRUGS, June 2022, along with **Dr. Ravindra Kumar Pandey, Ms. Swati Pandey and Ms. Himani Kanwar.**
2. **Dr. Shiv Shankar Shukla** published a paper titled "In vivo wound Healing Activity of Ointment based Formulation for Prunus amygdalus (Batsch.) on Rats" in Indian Journal of Pharmaceutical Education and Research, January 2022, 56(1) along with **Mr. Vikash Sharma, Ms. Diksha Singh and Ms. Karishma J. Gohil.**

Book Publication

1. **Dr. Shiv Shankar Shukla** published a book entitled **Pharmacy Exam - Expert Crackers**, under **Pharma Med Press**, along with **Dr. Ravindra Kumar Pandey, Ms. Swati Pandey, Ms. Monika Bhairam, and Dr. Amber Vyas.**
2. **Ms. Monika Bhairam** published books of subjects **Social Pharmacy, Pharmacy law and Ethics, and Biochemistry and Clinical pathology**, under **Probecell Press**, along with Suresh , Sheetal Mishra, Shakti Jaiswal, Durgadata Pravat, Rameshroo Kenwat, Tarun Chudhary, Vijyalaxmi Rathore, Akanksha Jain, Pritt Verma, Gajendra singh Thakur, Dharmendra Lal and Poonam Yadav

Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

Causerie

Kyasanur Forest Disease

Karnataka state, India, which also affected wild nonhuman primates. Collection of samples from dead animals and the use of classical virological techniques led to the isolation of a previously unrecognized virus, named Kyasanur forest disease virus (KFDV), which was found to be related to the Russian spring-summer encephalitis (RSSE) complex of tick-borne viruses. Further evaluation found that KFD, which frequently took the form of a hemorrhagic syndrome, differed from most other RSSE virus infections, which were characterized by neurologic disease. Its association with illness in wild primates was also unique. *Hemaphysalis spinigera* was identified as the probable tick vector. Despite an estimated annual incidence in India of 400–500 cases, KFD is historically understudied. Most of what is known about the disease comes from studies in the late 1950s and early 1960s by the Virus Research Center in Pune, India and their collaborators at the Rockefeller Foundation. A report in ProMED in early 2012 indicated that the number of cases of KFD this year is possibly the largest since 2005, reminding us that there are significant gaps in our knowledge of the disease, including many aspects of its pathogenesis, the host response to infection and potential therapeutic options. A vaccine is currently in use in India, but efforts could be made to improve its long-term efficacy.

Mrs. Kamini Verma
Assistant Professor, CIP, Raipur

Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

GPAT Quiz- 17

- Genetically modified species of Papaver namely Papaver bracteatum and Papaver orientale contain the predominant alkaloid.....
 - Morphine
 - Codeine
 - Thebaine
 - Narcotine
- Inhibition/induction of which of the following Cytochrome P450 enzyme system is most likely to be involved in important drug-drug interactions?
 - CYP3A4
 - CYP2D6
 - CYP2C9
 - CYP1A2
- Which of the followings used in the treatment of rheumatoid arthritis is NOT a biologic response modifier?
 - Anakinra
 - Leflunomide
 - Etanercept
 - Infliximab
- Which water is used for hand washing in a change room of pharmaceutical manufacturing plant?
 - Potable water
 - Purified water
 - Disinfectant water
 - Soap water
- The numbers of edition of the India Pharmacopoeia published till date are.....
 - 8
 - 9
 - 6
 - 7
- Which of the following isomeric dienes is chiral?
 - 2,3-pentadiene
 - 3-methyl-1,2-butadiene
 - 2-methyl-1,3-butadiene
 - none, all are achiral
- If two isomers have been classified correctly as epimers, they may also be called...?
 - Diastereomers
 - Enantiomers
 - Tautomers
 - conformer
- The disintegration time of soft gelatin capsule is.....
 - 30mins
 - 40mins
 - 60mins
 - 120mins
- What is the conc of NaCl required to make 1% solution of cocaine hydrochloride isotonic with blood plasma? Freezing point of 1% solution of NaCl : -0.576°C and freezing point of 1%w/v solution of cocaine HCl : -0.09°C
 - 0.746%
 - 7.46%
 - 0.0746%
 - 0.0074%
- How many 250mg capsules of Ampicillin are required to provide 30mg/kg/day for week for a man weighing 165 pounds?
 - 56
 - 49
 - 63
 - 70

Answer key Quiz 16: 1.(b) 2. (b) 3.(c) 4.(d) 5.(c) 6.(a) 7.(d) 8.(b) 9.(c) 10.(a)

Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme



Students' Thought

Learning

I'm learning to say thank you.
And I'm learning to say please.
And I'm learning to use Kleenex,
Not my sweater, when I sneeze.
And I'm learning not to dribble.
And I'm learning not to slurp.
And I'm learning (though it
sometimes really hurts me)
Not to burp.
And I'm learning to chew softer
When I eat corn on the cob.
And I'm learning that it's much
Much easier to be a slob.

Anamika Dutta

5th Sem B. Pharm

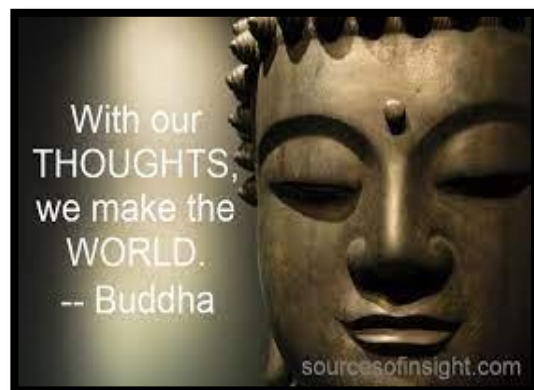
THE EAGLE

He clasps the crag with crooked hands;
Close to the sun in lonely lands,
Ring'd with the azure world, he stands.

The wrinkled sea beneath him crawls;
He watches from his mountain walls,
And like a thunderbolt he falls.

Khumesh Verma

5th Sem B. Pharm



Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

New Drug Approved in 2021

Omlonti

Company: Santen Pharmaceutical Co., Ltd.

Approval Status: Approved 22/09/2022

Specific Treatments: Omlonti® (omidinenepag isopropyl ophthalmic solution) 0.002% for the reduction of elevated intraocular pressure (IOP) in patients with primary open-angle glaucoma or ocular hypertension.

Mechanism of Action

Omidinenepag is a relatively selective EP2 receptor agonist which decreases intraocular pressure (IOP). The exact mechanism of action is unknown at this time. Elevated IOP represents a major risk factor for glaucomatous field loss. The higher the level of IOP, the greater the likelihood of optic nerve damage and visual field loss.

Side Effects

Conjunctival hyperemia, photophobia, vision blurred, dry eye, instillation site pain, eye pain, ocular hyperemia, punctate keratitis, headache, eye irritation, and visual impairment.

*“If anything is worth doing, do it with all
your heart.”*

Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

Less Known Facts about Traditional Food

PUMPKIN FLOWER FRITTERS

Squash blossoms called courgette flowers in Great Britain are the edible flowers of Cucurbita species. Though it contains a low amount of calories and fat per serving, pumpkin flower can help boost your intake of several important nutrients, including fiber, copper, folate, and vitamin A. Pumpkin flower is particularly rich in copper, an essential mineral that your body needs for energy production . It also contains a good amount of folate per serving, which is a B vitamin that plays a key role in protein metabolism and DNA synthesis .Additionally, pumpkin flowers provide approximately 13% of your DV for vitamin A, which supports the formation and function of the heart, eyes, and lungs.

Recipe: Remove the stems and stigma of the flowers. Wash and clean properly. In a bowl add gram flour, rice flour, turmeric powder, red chilli powder, salt and add water and make a semi thick batter. Add hot oil and mix again. Separately heat oil for frying in a pan. When oil start smoking that means it is hot enough then reduce the heat to medium. Take two flowers at a time. Dip these into the batter and put it in heated oil. Cook in medium flame until all sides are golden brown, with the spatula take them out of the oil and place them in a plate.

Nutritional value:

Nutrients Value	One cup (134 grams) of cooked pumpkin flower contains
Calories	20 grams
Protein	1.5 grams
Carbohydrates	4.5 grams
Fiber	1.2 gram
Folate	14% of the DV
Vitamin A	13% of the DV
Magnesium	8% of the DV
Vitamin C	7% of the DV
Iron	7% of the DV

Columbia Institute of Pharmacy, Raipur

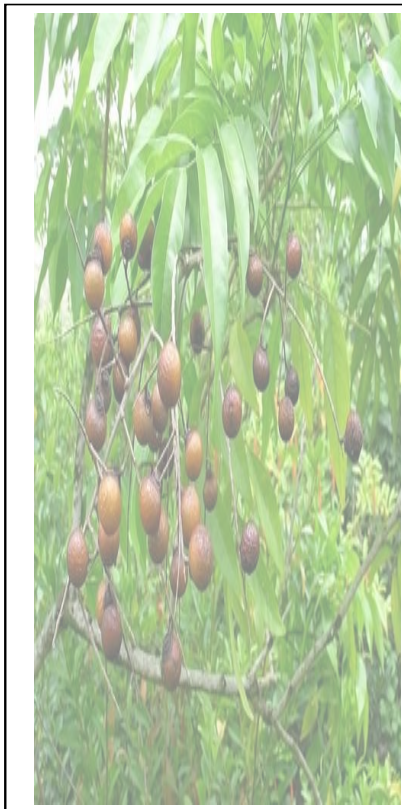
NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

Plants with Health Benefits Sapindus mukorossi (Ritha)

Synonyms: commonly known as Indian soapberry, washnut, Dodan, rishtak, aritha, phenil or ritha.



Family:	Sapindaceae
Kingdom:	Plantae
Order:	Sapindales
Genus:	<i>Sapindus</i>
Species:	<i>S. mukorossi</i>

Nutritional value per 100 g (3.5 oz)

Dietary fiber	9.55
Total Fat	3.45
Cholestrol	Nil
Total Carbohydrate	1.87
Protein	8.75
Vitamin A	0.1
water	57.6
Calcium	98
Iron	NA

Morphology:

Sapindus is medium-to-large size, deciduous tree and few species of Sapindus exist as shrub too. This tree is an important forest tree species. Generally, Sapindus tree usually grows up to a height of 12–25 m, but sometimes it attains a height 18–35 m with 1.8 m girth; however, height of tree differs in various species. The bark of this plant is dark to pale yellow, fairly smooth, having many vertical lines of lenticels and fine fissures exfoliating in irregular wood scales. Leaves are compound, 30–50 cm long. Flowers are about 5 mm across. Seeds are globose, smooth, black and loosely present in dry fruit. During ripening, fruit colour changes from yellow orange to dark brown.

Chemical Composition:

The main chemical constituents of the soapberry pericarp are terpenoids (especially triterpenoid saponins and sesquiterpenoid glycosides), phenylpropanoids, steroids, and saccharides.

Uses:

Ritha fruit used as Prevents contraception , Hysteria, Heals Psoriasis and Eczema, Prevents Dandruff, Helps in preventing bad habits, Treats Asthma, Stops hair fall, Anti-Venom, Tumor Cells, Smooth blood circulation, Treats Hair Split Ends, Face Wash, Prevents many skin related Diseases, Fight against Skin and Scalp infections.

Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

Upcoming **EVENTS**

1. DST - STUTI training on analytical instruments in the month of December.
2. Education tour and industrial visit of VII Sem students
3. Zonal sports of CSVTU

Columbia Institute of Pharmacy, Raipur

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme