



**RKGIT**  
**(Pharmacy)**



# Pharmaware

*A quarterly e-News Letter*

**Issue Sept2021; Volume 23**

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*Ms Kamini*

*Ms Anushka jain*

*Ms. Farha*

## **Student coordinators**

*Adarsh Pathak*

*Ishika Tyagi*

## **VISION**

To be recognized as a foremost institution imparting quality pharmacy education to aspiring pharmacists with right competencies, attitude, skills and knowledge, for the greater benefit of mankind.

## **MISSION**

To produce highly qualified and motivated graduates possessing fundamental knowledge and soft skills, who can provide sustainable solutions to health care problems.

To develop partnerships with industries, eminent institutes and government agencies in the field of pharmaceutical sciences.

To serve the community, at local, national and international levels, with a deep awareness of our ethical responsibilities towards profession and society.

## **PROGRAM EDUCATIONAL OBJECTIVES**

OUR GRADUATES SHOULD HAVE:-

1. Have quality theoretical knowledge and practical skills on all core and allied fields of pharmaceutical sciences, so that they can face the challenges of the globalized scenario and contribute to the progress of the nation.
2. Enjoy successful careers in all settings of Pharma sector, by engaging themselves in professional development through leadership, communication, skills, teamwork and entrepreneurship.
3. Function ethically and lawfully in professional environment and exhibit good competency in their work culture.
4. Act as a link between healthcare system and community, so as to serve the society by the transmitting their knowledge, with a sense of social responsibility.
5. Participate in lifelong learning through advanced degrees, continuing education and/or professional activities.

**ALL INDIA 29<sup>TH</sup> RANK IN NIRF-2016**

**AKTU APPROVED PHD RESEARCH CENTRE**

## COVID SECTION

### FUTURE OF PANDEMIC IN 2021 AND BEYOND

COVID-19 is here for the long haul and continues to spread like a slow burn with intermittent lockdowns being the new normal. The novel Coronavirus is continuing its spread across the world with over 81 million confirmed cases in 191 countries. Looking at the forecasts, it seems clear that COVID-19 is here to stay, and that the future is dependent on a number of unknown factors, including whether people develop lasting immunity to the virus, whether seasonality affects its spread, and — perhaps most importantly — the choices made by governments and individuals. The pandemic has not been playing out in the same way from place to place. While nearly every country has been affected by COVID-19, some countries are faring much better than others when it comes to managing outbreaks. Wearing a mask, regular hand washing, and social distancing measures have helped curb the virus spread to a large extent. An approved vaccine does offer protection but huge challenges in terms of storage and distribution remain before it can be rolled out across the world. It is not known whether people do build immunity against the Coronavirus, and if so, how long that immunity may last. There are theories that people could be developing permanent immunity to the novel coronavirus; if this is true, the transmission of the virus could burn out and nearly vanish by 2021. This series showcases essays from across the globe on the future of the pandemic in 2021 and beyond and tries to answer burning questions: What is needed right now, is it to build resilience, is it to strengthen the public health system.

*Reference:* <https://www.orfonline.org/series/the-future-of-the-pandemic-in-2021-and-beyond/>

### COVID-19 VIRUS: DIFFERENT VARIANTS AND MECHANISM OF INVASION

Viruses are known to alter throughout time due to mutation, which can result in the creation of new variants. There are four variants globally namely B.1.1.7 (UK, or Kent variant), P.1 (Brazilian variant), B.1.351, (South African variant), B.1.617.2, (Indian Variant). When a virus, such as the one that causes COVID-19, enters the body, it invades human "host cells" and utilizes them to make more virus. Viruses persist by replicating (creating more copies of them with the help of a host cell) and spreading across humans. When a virus replicates itself, it may vary slightly. Mutations are the term for these alterations. A virus that has mutated is known as a variant, which means it is a different version of the original virus. It's sometimes referred to as a genetic variant because the genetic material of the virus has changed. The SARS-CoV-2 virus has a sluggish rate of change, or mutation, compared to the flu virus, which is around four times slower. However, because the virus is so prevalent, multiple variations have emerged and are rapidly spreading over the world, with more on the way. There are currently four types of variants, each of which is named after the country where it was first identified. The UK, South African, Brazilian, and Indian versions are among them. There are mutations in each of these variants that are thought to make them more transmissible. The most successful technique for combating variants is to stop COVID-19 from spreading. Variants thrive when virus transmission levels are high, so we need to lower them. Antibodies to recognize the spike protein on the surface of the SARS-CoV-2 virus are created as part of the immune system's reaction to the virus or after vaccination. The current vaccines are expected to provide some protection against new variants. Different vaccine techniques are expected to be used in the future to combat new variants as they emerge. Changing the vaccine dose, adding booster doses, combining vaccines, or altering the vaccines themselves to target variants are all possibilities.

*References:* Emary, Katherine RW et al. Efficacy of ChAdOx1 nCoV-19 (AZD1222) Vaccine Against SARS-CoV-2 VOC 202012/01 (B.1.1.7). Pre-print available at: <http://dx.doi.org/10.2139/ssrn.3779160> Last accessed May 2021. Dejnirattisai, W et al. Antibody evasion by the Brazilian P.1 strain of SARS-CoV-2. Pre-print available at: [Antibody evasion by the Brazilian P.1 strain of SARS-CoV-2 \(biorxiv.org\)](https://www.biorxiv.org/). Last accessed May 2021.

**Ms Kamini (Assistant Professor)**

**Ms Anushka Jain (Assistant Professor)**

# HERBAL INFORMATION

## SWEET WORMWOOD (JWAR RODH)

**Botanical name:** *Artemisia annua*,

**Family:** Asteraceae

**Kingdom:** Plantae



Scientists demonstrated the plant extracts had antimalarial activity in primate models, and in 1972, the active ingredient, artemisinin, was isolated and its chemical structure described.

**WHO** (World Health Organization) recognizes that traditional, complementary and alternative medicine has many benefits and Africa has a long history of traditional medicine and practitioners that play an important role in providing care to populations.

**Medicinal plants** such as *Artemisia annua* are being considered as possible treatments for COVID-19 and should be tested for efficacy and adverse side effects. Africans deserve to use medicines tested to the same standards as people in the rest of the world. Even if therapies are derived from traditional practice and natural, establishing their efficacy and safety through rigorous clinical trials is critical.

**WHO** is working with research institutions to select traditional medicine products which have been investigated for clinical efficacy and safety for COVID-19 treatment? In addition, the Organization will continue to support countries as they explore the role of traditional health practitioners in prevention, control, and early detection of the virus as well as case referral to health facilities.

### USES

*Artemisia annua* is an herb traditionally used in Chinese medicine to treat fever, inflammation, and malaria. A compound from artemisia is used in combination with other drugs to treat malaria.

### Marketed Formulations:



**Reference:** <https://www.wpi.edu/news/early-research-finds-extracts-sweet-wormwood-plant-can-inhibit-covid-19-virus>



## **STUDENT CORNER**

### **COVID-19: An Update On The Effective Drugs And Vaccines**

The whole world faced the deadliest pandemic of Corona virus disease 2019 caused by SARS-CoV-2, which presented unprecedented health and socio-economic consequences. Novel corona virus induced pneumonia and mild to severe respiratory disorders. People suffered through it a lot and millions of people lost their lives, still this is not over yet.

Corona viruses are relatively large virus containing a single stranded positive sense RNA genome encapsulated within a membrane envelope. The membrane is studded with glycoprotein spikes containing receptor binding domain that binds to human angiotensin-converting enzyme and promotes membrane fusion into human cell by endocytosis. It attacks the lower respiratory system to cause viral pneumonia and damage to our heart, kidney, liver and CNS.

Our scientists in entire world worked really hard to deal with this real pandemic. During, a public health emergency such as COVID-19, authorities like FDA and WHO can issue an emergency use authorization (EUA) to make new medications and medical products more available to patients. Some medications which got approved and later on seen effective are **Remdesivir**, an antiviral given by IV infusion to the patients; **Dexamethasone**, a common corticosteroid medication; **Convalescent plasma**, plasma collected from people who are recovered from this infection; **Monoclonal antibodies** which are antibodies made in a lab like Bamlanivimab(LY-CoV555) and Casirivimab(REGN-CoV2) .The treatment that NIH recommended against COVID-19 is **Hydroxychloroquine, Ivermectin, Azithromycin, tocilizumab and kinase inhibitors**.

After research and developments by scientists all over the world, we got some effective vaccines. The first vaccine known to be FDA approved is **Pfizer-BioNTech's Vaccine**.

Later on, **Covaxin**, an Indian vaccine by Bharat Biotech developed by collaboration of ICMR and NIV. Covaxin is included along with immune-potentiators i.e. vaccine adjuvants which increases and boosts its immunogenicity. It is proven to neutralizes alpha, gamma zeta, kappa , beta and also delta variants .Thus, a huge success for India and for world's mankind too.

**Covishield**, ChAdOx1 nCoV-19 Corona Virus Vaccine (recombinant) , an another success manufactured by Serum Institute of India and by Oxford- astraZeneca together. It is administered in the highest numbers. Overall antibodies towards the spike protein are higher in covishield than covaxin.

Five vaccines have been approved in India, includes Covaxin, Covishield, Sputnik V , Moderna and Zydus Cadila's vaccine(ZyCoV-D) . These vaccines are effective but they don't block transmission completely. So, its still not an end to this unfortunate pandemic. Keep taking all precautions and get your jabs done for the protection of yourself, for your family and for this whole world.

**We can end this pandemic together only.**

**Ms. Ishika Tyagi**

**B.Pharm 4th year**

## NEWS AT A GLANCE

### **WELCOME of PROF. UMESH KUMAR SINGH**

RKGIT (Pharmacy) welcomes Dr. Umesh Kumar Singh as Professor & **Director, Research and Development (Pharmacy)**.

### **WELCOME of NEW FACULTIES**

RKGIT (Pharmacy) welcomes newly joined faculties ;Dr M.A. Sheela (Associate Professor), Ms Kamini (Assistant Professor), Ms Anushka Jain (Assistant Professor), Ms Farha (Assistant Professor) & Mr Surya Goel (Assistant professor)

### **PATENT GRANTED/ PUBLISHED**

- An Innovation patent (Patent no. 2021104207) by inventors Ms Pankaj Sharma (Assistant Professor), Mr Abhinav Agarwal (Associate Professor), on the topic: Halloysite Nanotubes for Modified Drug Release has been granted by Australian Govt. on 25<sup>th</sup> Aug 2021.
- A Indian patent (Application no. 202111038601 A) published on System For Monitoring And Enhancing Well Being Of A Person on Smart Bed by inventor Dr Manish Kumar Mishra (Associate Professor) in the patent office journal no. 36/2021 on 03/09/21.

### **FACULTY ATTENDED FDP/WORKSHOP**

- Dr Munendra Mohan Varshney and Ms. Avantika Sharma Participated in one week virtual FDP on the theme of “current trends in clinical research and regulatory affairs: reforming pharmacy education” organized by K. R. Manglam University sponsored by IPGA, from 26<sup>th</sup> July to 30<sup>th</sup> July 2021.
- Ms Geetika Mehta (Assistant Professor), Ms Rashmi Tripathi (Assistant Professor) participated and completed online AICTE Training and learning (ATAL), online elementary FDP on drug engineering challenges and innovation from 13/9/21 to 17/9/21.
- Ms Archana Ojha (Assistant Professor) participated in workshop on Breeding Practice For Commonly Used Laboratory Animals: Methods And Practices, organized by school of pharmacy, CPU, Kota on 30<sup>rd</sup> Sept 2021.

### **PHARMACIST DAY CELEBRATION**

RKGIT (Pharmacy) celebrated world pharmacist day virtually from 17<sup>th</sup> Sept to 25<sup>th</sup> Sept 2021. The theme for this year was “**Pharmacy, always, trusted for your health**”. Various events like story carving competition, short video making, poster making competition, oral presentation competition and creative writing competition were held. All the students participated with great zeal and enthusiasm. Dr Monika Sachdeva, Principal Pharmacy welcomed the distinguished guests on 25<sup>th</sup> Sept, Mr. P. K. Jaggi (Ex Head of office and licensing authority, drugs control department, New Delhi), the guest of honor and Dr. Gita Pandey (Senior Scientist, Novartis India Ltd, and Alumnus RKGIT, Pharmacy 2007-11 batch) on this occasion. Respected dignitaries Dr. Laxman Prasad (Group Advisor RKG Group), Dr. D.K Chauhan (Executive Director, RKG Group), Dr Umesh Kumar Singh (Director, R and D Pharmacy) motivated the students. Ms Rituparna Palit (Assistant Professor) and Ms Anjali Singh (Assistant Professor) were the faculty coordinators. Winners of events and meritorious students were honored by respected guests. The winners are listed below.



# PHARMACIST DAY CELEBRATION

## WINNERS

### 1. Story Carving

Winner- Ila Tyagi 3rd Year

### 2. Short Video Making

Winner- Tushar Sharma 4th Year

Runner-up- Anshika Niranjana 4th Year

### Poster Making

Winner- Jhalak Gupta 2nd Year

Runner-up- Neha Tyagi and Shubhanshi Singh 3rd Year

Naiya Khandelwal and Navneet Srivastava 3rd Year

### 4. Oral PPT

Winner- Manan Bhasin 4th Year

Runner-up- Mamta Yadav 4th Year

### 5. Creative Writing

Winner- Tannu Priya 2nd Year

Runner-up- Ila Tyagi 3rd Year

## आरकेजीआईटी कॉलेज में धूमधाम से मना विश्व फार्मेसी दिवस

गाजियाबाद (करंट क्राइम)। कोरोना महामारी के बीच 25 सितंबर को दुनियाभर में विश्व फार्मेसी दिवस मनाया गया। गाजियाबाद के राज कुमार गोयल इंस्टीट्यूट ऑफ टेक्नोलॉजी (आरकेजीआईटी) के फार्मेसी विभाग में भी इस अवसर पर शनिवार को कार्यक्रम का आयोजन हुआ। कार्यक्रम में मुख्य अतिथि के रूप में ऑनलाइन मौजूद दिल्ली स्टेट कैसर इंस्टीट्यूट के पूर्व चीफ फार्मेसी एक्जक्यूटिव डॉ. पीके जग्गी ने कार्यक्रम में मौजूद छात्र-छात्राओं को संबोधित करते हुए कहा कि फार्मेसी क्षेत्र से जुड़े लोग जन स्वास्थ्य के लिए लगातार काम कर रहे हैं। कोरोना महामारी के बीच उनकी जिम्मेदारी और बढ़ गई है। उन्होंने फार्मेसी पाठ्यक्रम के अवसरों से छात्रों को अवगत किया। कार्यक्रम में निजीफार्मा क्षेत्र की वैज्ञानिक एवं कॉलेज की पूर्व छात्रा डॉ. गीतू पांडे ने कहा कि दुनिया इस वक्त संकट के दौर से गुजर रही है लेकिन फार्मेसी क्षेत्र से जुड़े वैज्ञानिक, फार्मासिस्ट और नौजवान मजबूती से खड़े होकर लोगों को जानलेवा कोरोना वायरस से बचाने की मुहिम में लगे हैं। कार्यक्रम में

चेयरमैन दिनेश कुमार गोयल, वाइस चांसलर अश्वत गोयल, समूह सलाहकार डॉ. लक्ष्मण प्रसाद, एक्जक्यूटिव डायरेक्टर डॉ. डीके चौहान के साथ डायरेक्टर रिसर्च एंड डेवलपमेंट फार्मेसी डॉ. उमेश कुमार समेत सभी फैकल्टी मेंबर एवं छात्र-छात्राएँ उपस्थित रहे।

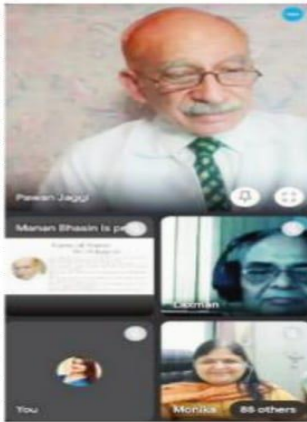
### प्रतियोगिताओं में छात्र-छात्राओं ने बाजी मारी

कॉलेज में इस मौके पर विभिन्न तरह प्रतियोगिताओं का भी आयोजन हुआ। इसमें स्टोरी कार्विंग में इला त्यागी, शॉर्ट वीडियो मेकिंग में तुषार शर्मा, पोस्टर मेकिंग में झलक गुप्ता, ओरल प्रेजेंटेशन में मनन भसीन, क्रिप्टिव राइटिंग में तनुप्रिया ने बाजी मारी। इस अवसर पर समूह सलाहकार डॉ. लक्ष्मण प्रसाद ने छात्रों को सम्बोधित करते हुए समाज में फार्मासिस्ट के महत्व पर प्रकाश डाला। फार्मेसी विभाग की प्रिंसिपल डॉ. मोनिका सचदेवा ने छात्रों के हुनर की सराहना करते हुए कहा कि आप देश के स्वास्थ्य क्षेत्र के भविष्य हैं, मेहनत और लगन से आपको आगे बढ़ना है।

## आरकेजीआईटी कॉलेज में मना विश्व फार्मेसी दिवस

गाजियाबाद (सच कहें न्यूज)। कोरोना महामारी के बीच 25

सितंबर को दुनियाभर में विश्व फार्मेसी दिवस मनाया गया। राज कुमार गोयल इंस्टीट्यूट ऑफ टेक्नोलॉजी आरकेजीआईटी के फार्मेसी विभाग में भी इस अवसर पर शनिवार को कार्यक्रम का आयोजन हुआ। कार्यक्रम में मुख्य अतिथि के रूप में ऑनलाइन मौजूद दिल्ली स्टेट कैसर इंस्टीट्यूट के पूर्व चीफ फार्मेसी एक्जक्यूटिव डॉ पीके जग्गी ने कहा कि फार्मेसी क्षेत्र से जुड़े लोग जन स्वास्थ्य के लिए लगातार काम कर रहे हैं। कोरोना महामारी के बीच उनकी जिम्मेदारी और बढ़ गई है। उन्होंने फार्मेसी पाठ्यक्रम के अवसरों से छात्रों को अवगत किया। कार्यक्रम में निजीफार्मा क्षेत्र की वैज्ञानिक एवं कॉलेज की पूर्व छात्रा डॉ गीतू पांडे ने कहा कि दुनिया इस वक्त संकट के दौर से गुजर रही है लेकिन फार्मेसी क्षेत्र से जुड़े वैज्ञानिक, फार्मासिस्ट और नौजवान मजबूती से खड़े होकर लोगों को जानलेवा कोरोना वायरस से बचाने की मुहिम में लगे हैं। कार्यक्रम में



## आरकेजीआईटी कॉलेज में धूमधाम से मना विश्व फार्मेसी दिवस

प्रमुख अतिथि दिनेश कुमार गोयल, वाइस चांसलर अश्वत गोयल, समूह सलाहकार डॉ. लक्ष्मण प्रसाद, एक्जक्यूटिव डायरेक्टर डॉ. डीके चौहान के साथ डायरेक्टर रिसर्च एंड डेवलपमेंट फार्मेसी डॉ. उमेश कुमार समेत सभी फैकल्टी मेंबर एवं छात्र-छात्राएँ उपस्थित रहे।

कॉलेज में इस मौके पर विभिन्न तरह प्रतियोगिताओं का भी आयोजन हुआ। इसमें स्टोरी कार्विंग में इला त्यागी, शॉर्ट वीडियो मेकिंग में तुषार शर्मा, पोस्टर मेकिंग में झलक गुप्ता, ओरल प्रेजेंटेशन में मनन भसीन, क्रिप्टिव राइटिंग में तनुप्रिया ने बाजी मारी। इस अवसर पर समूह सलाहकार डॉ. लक्ष्मण प्रसाद ने छात्रों को सम्बोधित करते हुए समाज में फार्मासिस्ट के महत्व पर प्रकाश डाला। फार्मेसी विभाग की प्रिंसिपल डॉ. मोनिका सचदेवा ने छात्रों के हुनर की सराहना करते हुए कहा कि आप देश के स्वास्थ्य क्षेत्र के भविष्य हैं, मेहनत और लगन से आपको आगे बढ़ना है।

कार्यक्रम में मुख्य अतिथि के रूप में ऑनलाइन मौजूद दिल्ली स्टेट कैसर इंस्टीट्यूट के पूर्व चीफ फार्मेसी एक्जक्यूटिव डॉ. पीके जग्गी ने कार्यक्रम में मौजूद छात्र-छात्राओं को संबोधित करते हुए कहा कि फार्मेसी क्षेत्र से जुड़े लोग जन स्वास्थ्य के लिए लगातार काम कर रहे हैं। कोरोना महामारी के बीच उनकी जिम्मेदारी और बढ़ गई है। उन्होंने फार्मेसी पाठ्यक्रम के अवसरों से छात्रों को अवगत किया। कार्यक्रम में निजीफार्मा क्षेत्र की वैज्ञानिक एवं कॉलेज की पूर्व छात्रा डॉ. गीतू पांडे ने कहा कि दुनिया इस वक्त संकट के दौर से गुजर रही है लेकिन फार्मेसी क्षेत्र से जुड़े वैज्ञानिक, फार्मासिस्ट और नौजवान मजबूती से खड़े होकर लोगों को जानलेवा कोरोना वायरस से बचाने की मुहिम में लगे हैं। कार्यक्रम में

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मुख्य अतिथि दिनेश कुमार गोयल, वाइस चांसलर अश्वत गोयल, समूह सलाहकार डॉ. लक्ष्मण प्रसाद, एक्जक्यूटिव डायरेक्टर डॉ. डीके चौहान के साथ डायरेक्टर रिसर्च एंड डेवलपमेंट फार्मेसी डॉ. उमेश कुमार समेत सभी फैकल्टी मेंबर एवं छात्र-छात्राएँ उपस्थित रहे।

अंग्रेजी शगब के टेके

# CONGRATULATIONS PHARMACY ACHIEVERS

(Session: 2020-21)

## B.Pharm-1<sup>st</sup> Year

Position	Name of Student	% of Marks
1st Position	JHALAK	91.72%
2nd Position	BHOOMIKA VARSHNEY	89.27%
3rd Position	PIYUSH GOEL	88.07%

## B.Pharm-2<sup>nd</sup> Year

Position	Name of Student	% of Marks
1st Position	NEHA TYAGI	82.82%
2nd Position	SHUBHANSHI SINGH	82.41%
3rd Position	MEENAKSHI	81.72%

## B.Pharm-3<sup>rd</sup> Year

Position	Name of Student	% of Marks
1st Position	MAMTA YADAV	82.14%
2nd Position	SAKSHI GUPTA	82.07%
3rd Position	AKARSHIKA SRIVASTAVA I	80.85%

## B.Pharm-4<sup>rd</sup> Year

Position	Name of Student	% of Marks
1st Position	ADITI TYAGI	86.88%
2nd Position	AVANISH SHARAN SINGH	86.22%
3rd Position	PRINCE TRIPATHI	85.03%
3rd Position	SHUBHAM SHUKLA	85.03%

## M.Pharm-1<sup>st</sup> Year

Position	Name of Student	% of Marks
1st Position	MUKESH BANSAL	85.07%
2nd Position	MANSI AGARWAL	81.07%
3rd Position	VASU CHAUHAN	79.53%

*For Views and Suggestions*

*Connect*

*[epharmaware@gmail.com](mailto:epharmaware@gmail.com)*

*Raj Kumar Goel Institute of Technology (Pharmacy),  
5<sup>th</sup> KM Stone, Delhi-Meerut Road, Ghaziabad, U.P. 201003, Ph. 9582945609*