



PA COLLEGE OF PHARMACY

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A QUARTERLY NEWS BULLETIN

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Editorial Insight

Message From Chief Editor

The 2nd batch of B. Pharm and 4th batch of D. Pharm students are all set to complete their respective programs and move out in the real world looking for opportunities. Opportunities in the Pharmaceutical Industries are growing owing to the fact that the Pharmaceutical market in India is very fertile and growing fast with an expectation to reach \$65bn by 2024. It is further estimated to cross \$130bn by the end of 2030. The growth rate is achieved by constant and rigorous quality improvement in the manufacture of drugs in India which led India to become one of the major exporters. India is exporting its pharmaceutical products to 200+ countries across the globe. About 50% of African countries' pharmaceutical demand is met by our produce, about 40% generic demand of the US and approximately 25% of medical requirements of the UK is satisfied by India. India also accounts for ~60% of global vaccine demand, and is a leading supplier of DPT, BCG and Measles vaccines. 70% of WHO's vaccines (as per the essential Immunization schedule) are sourced from India. The Govt. of India is intensifying the manufacture of Key Starting materials, Drug Intermediates and Active Pharmaceutical Ingredients (APIs) by offering various Production Linked Incentives (PLIs). The objective of these PLI schemes was to grow domestic production in the said areas. PLI scheme for bulk drugs aimed at boosting production of 41 selected critical bulk drugs in the country. 51 projects have already been selected for the 34 notified bulk drugs. Of which, 22 projects have been commissioned till 31st January 2023 leading to an investment of INR 2019 crores and an employment of about 1900 professionals and unskilled labourers. Under the PLI scheme for Pharmaceuticals, 55 applicants have been selected, including 20 Micro, Small & Medium Enterprises (MSMEs). As of 31st January 2023, sales of about INR 36,000CR have been reported by the selected applicants. The scheme has garnered an investment of INR 16,199 crores by these applicants in the first year of implementation while employing 23,000 persons in the same period. Thus there are several opportunities for the professionals for employment and entrepreneurship. Students must wisely choose their way out.

The students must also think about continuing their studies. There are different areas in which the pharmacy students can venture into having Pharmacy as a basic degree apart from Masters in Pharmacy. Health and Hospital Management, HR Management, Production Management. Patent and Intellectual property rights law and many more. I would like to wish all the best to the outgoing students.

Dr. Saleemulla Khan

Principal, PA College of Pharmacy

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AI is playing a significant role in drug discovery and has the potential to revolutionize the field. Traditional drug discovery is a complex and time-consuming process that involves identifying potential drug candidates, understanding their effects on biological systems, and optimizing their properties for safety and efficacy. AI technologies can expedite this process in various ways:

Data Analysis: AI can analyze vast amounts of biological and chemical data quickly and efficiently. This includes genomic data, clinical trial results, and information about the structure and function of proteins and other biological molecules.

Drug Target Identification: AI can help identify potential drug targets by analyzing biological data to understand the role of specific proteins, genes, or pathways in diseases.

Compound Screening: AI can predict the biological activity of chemical compounds, allowing researchers to prioritize and screen potential drug candidates more effectively.

Drug Design: AI can assist in the design of new drug molecules by predicting their likely interactions with biological targets and optimizing their chemical structures for better efficacy and reduced side effects.

Personalized Medicine: AI can analyze patient data to identify subpopulations that may respond better to certain treatments, leading to the development of more personalized and effective drugs.

Repurposing Existing Drugs: AI can identify existing drugs that may have potential for treating new diseases or conditions by analyzing their known pharmacological properties and interactions.

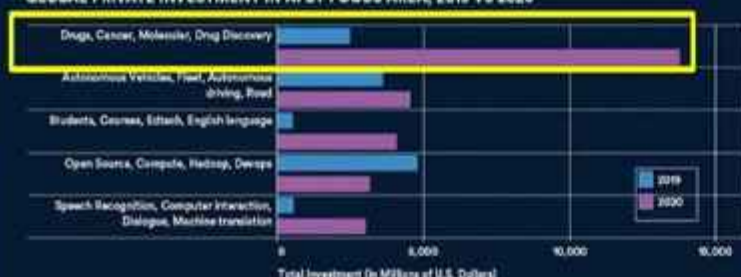
Clinical Trial Optimization: AI can help optimize clinical trial design by predicting patient responses, identifying potential risks, and improving the efficiency of recruitment and monitoring.

Several pharmaceutical companies and research institutions are already leveraging AI in their drug discovery efforts. The use of machine learning, deep learning, and other AI techniques can significantly reduce the time and cost involved in bringing new drugs to market, ultimately benefiting patients by providing faster access to innovative treatments.

AI Industry Shifts Focus to Drug Discovery

Global investment spikes in reaction to pandemic.

GLOBAL PRIVATE INVESTMENT IN AI BY FOCUS AREA, 2019 VS 2020



Drug Name	Active ingredient	Approval Date	FDA Approved Use
Voydeya	Danicopan	3/29/2024	To treat extravascular hemolysis with paroxysmal nocturnal hemoglobinuria
Vafseo	Vadadustat	3/27/2024	To treat anemia due to chronic kidney disease
Winrevair	Sotatercept-csrk	3/26/2024	To treat pulmonary arterial hypertension
Duvyzat	Givinostat	3/21/2024	To treat Duchenne muscular dystrophy in individuals aged 6 years and older Press Release Drug Trials Snapshot
Tryvio	Aprocitentan	3/19/2024	To treat hypertension
Rezdiffra	Resmetirom	3/14/2024	To treat noncirrhotic non-alcoholic steatohepatitis with moderate to advanced liver scarring Press Release
Tevimbra	Tislelizumab-jsgr	3/13/2024	To treat unresectable or metastatic esophageal squamous cell carcinoma Drug Trials Snapshot
Letybo	LetibotulinumtoxinA-wlbg	2/29/2024	To temporarily improve the appearance of moderate-to-severe glabellar lines Drug Trials Snapshot
Exblifep	Cefepime, Enmetazobactam	2/22/2024	To treat complicated urinary tract infections
Zelsuvmi	Berdazimer	1/5/2024	To treat molluscum contagiosum Drug Trials Snapshot



National Youth Day

On 31st January 2024, in commemoration of National Youth Day, the Institutional Innovation Council (IIC) of P A College of Pharmacy orchestrated a vibrant celebration in the seminar hall during the afternoon hours. The event aimed to invigorate the spirit of innovation and knowledge enhancement among our young student community. The festivities comprised a series of engaging competitions designed to stimulate intellectual growth and foster creativity. These included Essay Writing, E-Poster Presentation, Quiz Competition, and Debate. Each competition served a distinct purpose, ranging from honing writing skills and critical thinking to updating knowledge and fostering teamwork. The Essay Writing competition, held in the B Pharm 3rd-semester classroom at 11 AM, was facilitated by Mr. Anup Kumar V S and Mr. Muhammed Jamshad. Concurrently, the E-Poster presentation, focusing on fostering innovative ideas and promoting awareness about novel innovations, was supervised by Mr. Muhammed Jamshad. The participants exhibited remarkable prowess in presenting their E-Posters, with Mohammed Mahshuk from the final year B Pharm clinching the first prize, followed by Ibrahim Khaleel Jisthin securing the second position. Formal proceedings commenced promptly at 2 PM, with Mr. Muhammed Jamshad, the IIC Convenor, delivering an insightful introductory speech on the significance of National Youth Day and the pivotal role of the IIC in nurturing entrepreneurial spirit among students. The subsequent Quiz Competition, conducted by Mr. Anup Kumar V S and adjudicated by Mr. Muhammed Jamshad, witnessed Mohammed Rizwan and Adil Aboobacker from the first year B Pharm securing the top position, while Mohammed Zaiyan Ekkeri and Mohammed Raihan from the third year B Pharm claimed the second prize. The Debate, hosted by Mr. Muhammed Jamshad and judged by Mr. Faizal from P A First Grade College and Dr. Ismayil Sharif, HOD of Physics from P A College of Engineering, delved into the intriguing topic of the future implications of artificial intelligence. The team advocating against artificial intelligence emerged victorious, with Mohammed Mazin from the first year B Pharm being recognized as the best debater. The event culminated with a gracious acknowledgment by Mr. Faizal and the announcement of results by Dr. Ismayil Sharif.



FRESHERS DAY

P.A College of Pharmacy celebrated fresher's day for B.Pharm & D.Pharm 1st year Batch 2023-2024 on Feb-03-2024. Third year B.Pharm students conducted fresher's day for 1st B.Pharm and D.Pharm. Dr.Saleemulla Khan, Principal, PACP was chief guest of the programme. All the HODs were also present. Mr. Sahil Ismail of 4th B.Pharm started the program with the blessing of almighty. Principal spoke few words about pharmacy importance in future. Games were conducted for 1st year B.Pharm and D.Pharm Student.



Events

INSTITUTIONAL NEWS

GRADUATION DAY

Graduation day was celebrated on 01.02.2024 for 2nd batch of B. Pharm and 3rd batch of D. Pharm. The main guest and honoree of the event was Mr. Vinayak Hegde, vice president of global infosys; the managing trustee, Mr. Abdulla Ibrahim, was also present. Dr. U.T. Ifthikar Ali, a syndicate member of RGUHS, was the guest of honour. The event was hosted by an educational trust, and Mr. Abdul Lathif Ibrahim, Mr. Muhammad Ameen Ibrahim, and Mr. Ahmed Kutty were in attendance.

India is acknowledged as a front-runner in the domains of technology, education, and human resources. India will have fantastic opportunities over the next 20 to 30 years. Since then, Mr. Vinayak Hegde has said that students and the young community should advance with knowledge and humanitarian principles and seize possibilities by working hard.

As a guest speaker, Dr. Farhad from Yenepoya University said, "We should dream to create our beautiful life." To make it a reality, time and opportunity must be taken. No matter how far we go, he remarked, we must never forget the road we have travelled.

Dr. Ifthikar Ali, a member of the Rajiv Gandhi University of Health Sciences Syndicate, congratulated the graduates.

Mr. Abdulla Ibrahim is P's managing trustee. A trust for education presided over the meeting and said that although science and technology are progressing, there are still many obstacles to overcome. He claimed that a strong foundation for life is provided by education.



ANNUAL DAY

The annual day of the P.A. College of Pharmacy, "Episteme – 2024," was conducted on February 2, 2023, at the PACE Auditorium. The esteemed Chief Guest for the event was Dr. Mohammed Gulzar Ahmed, Principal of Yenepoya Pharmacy College and Research Centre. Dr. Surfraz J Hasim, Principal of PAFGC, Dr. Sajeesh Reghunathan, Principal of PAIP, Prof. K.P. Soofie, Principal of PAPT, and Dr. Sayyad Ameen Ahammad, Dean of Student Affairs at PAET, were among the other dignitaries in attendance. Dr. Muhammad Gulzar Ahmed, the Principal of Yenepoya College of Pharmacy, stated that a student can achieve a high position if they embrace the challenges they face in life as a challenge and proceed forward with confidence, graduate, and receive a quality education. Additionally, he published the annual magazine "Pharma Ace."



SPORTS DAY

The Annual Sports Day was held on 06.03.2024 and 07.03.2024 at PAET campus ground. The Sports day began with march past and flag hoisting followed by sports day oath.

The meet was inaugurated by Dr.Surfraz J. Hashim Principal, P.A first grade college .He explained Physical Exercise in an integral part of life and sports are very helpful in maintaining physical and mental health. Prof. K.P.Soojie, Principal, P.A Polytechnic College spoke and said "It is not important to participate. Presided over by P.A Vice principal of college of Pharmacy Dr. Muhammed Mubeen said that health is a great gift given by god and it is everyone's duty to preserve it sports keep people away from all kinds of bad habits.

P.A Campus Assistant General Manger Sharfuddin P K, Dean of Student Affair Dr.Sayyed Amin Ahmed, Campus Supervisor Rudresh, Physical Education teacher Dr. Iqbal ,Sundar and Ibrahim were present.

College Sports Association Secretary Ms.Amnaz took the oath. The sports pledge Nizba Welcomed. Ms.Asiya Najfath presented the program



WOMENS DAY

P.A.College of Pharmacy celebrated International Women's Day on 14th March 2024 in PACE Auditorium. Dr. Geetha D Kulkarni, Assistant Commissioner of Police, Central crime branch Mangalore division was the chief guest of the event. other guest include Dr. Ruksana, Psychologist, Dr Sharmila Kumari, Vice Principal of PAET, Dr.Aysha L V ,Vice Principal, P.A. Institute of Physiotherapy, Ms. Shafinaz Ismail, Admission officer, Dr. Saleemulla Khan ,Principal of P.A.College of Pharmacy, Dr. Muhammad Mubeen, Vice Principal of P.A.College of Pharmacy were present in the programme.



ACHIEVEMENTS

Faculty Corner

Patent

ROTAROD APPARATUS FOR MONITORING MUSCLE RELAXANT ACTIVITY IN MICE

Awarded For
Dr. Manohar Naik Kokala
Head
Department of Pharmacology
PA College of Pharmacy

Congratulations!

