



BANSAL COLLEGE OF PHARMACY NEWSLETTER



BUILDING PHARMACIST

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Late Shri K.C. Bansal
(Jan. 1936 – Aug. 2007)

"Yesterday is but a dream, tomorrow but a vision. But today well lived, makes every yesterday a dream of happiness and every tomorrow a vision of hope."

Every year, Bansal Group of Institutes celebrates its Founder's Day on 3rd January to mark the birthday, renew the commitment and realize the vision of our founder Late Shri K.C. Bansal.

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PHARMACY EDUCATION: VISION 2030

The foundation stone of pharmaceutical education in India was laid by Prof. M. L. Schroff at the Banaras Hindu University in 1925; from there it has been a long journey of 94 years. At the time of independence, the pharmacy institutions in the country were very few in number and pharmacy profession had no face. Pursuits and dedicated efforts of stalwart pharmacy teachers led to pharmacy gaining its independent identity and recognition as an important discipline of technical and professional education with no dearth of competent pharmacists in the country. The regulatory authorities in the country are now putting a moratorium on opening of new pharmaceutical educational institutions as availability of degree and diploma holders is more than sufficient to place them at proper places and if not stopped, this continuous generation of pharmacist may threaten employment opportunity and compromising quality of the profession. Presently approximately 1985 D.Pharm and 1439 B.Pharm institutes have an annual intake of approximately 2,19,279 students. On the other hand, post graduate studies have ample opportunities within the government and private sectors. Currently six national institutes of pharmaceutical education and research (NIPER) cater the need of highly qualified and well trained professionals and research scientists in the country. Additionally, Pharm. D. degree has also been introduced by pharmacy council of India to strengthen the clinical and patient care aspects, and the program is approved in about 258 institutions.

As the Indian pharmaceutical industry enters its next phase of growth, it's necessary to build a strong collaboration between industry, regulatory agencies & education sector for the upliftment of the profession. As the pharmaceutical industry continues to evolve, pharmacy education in the country will have to transform itself to help Indian Pharmaceutical Industry leverage emerging



—Dr. V.K. Dixit
Retd. Head & Professor
Deptt. Pharm. Sciences
Dr. HariSingh Gour University
Sagar (MP) India

opportunities and nullify the challenges. In the current curriculum, interaction with the pharmaceutical industries is hard to witness, which ultimately creates a gap between the academia and industries. This gap can be narrowed down by taking few effective steps acknowledged in this article.

Special funds could be provided to such colleges where R & D cells have been established and they can be used to solve problems of small scale pharmaceutical industries through the students. On the other hand Pharmaceutical companies willing to develop their research centers should come forward to collaborate with highly ranked institutes to conduct and explore joint research projects in drug delivery which may lead to novel patents and technology transfer as per future needs.

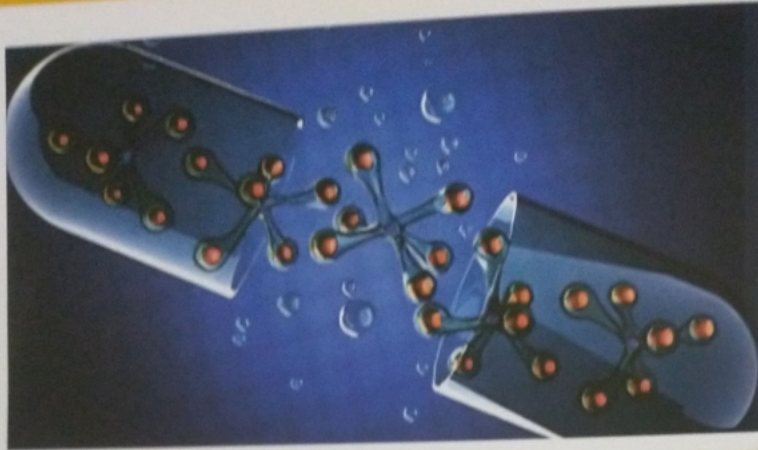
Government also needs to draw out priorities for next 3- 5 years and align them with industry. Funds should be directed to such projects which have commercial value and are of national importance.

Academia should also inculcate the culture of lifelong learning in students. They should adopt novel means of teaching such as group based learning, project based study along with modern information & communication tools to achieve maximum student engagement.

Lastly, as we enter the era of 4th industrial revolution it's high time to provide leadership in innovation & scientific research in conjugation with upholding the ethical values of the profession.

"If you can't do great things, do small things in a great way" – NAPOLEAN HILL

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NOVEL DRUG DELIVERY SYSTEMS



Atesh Dubey
B.Pharm-VIII Sem.
BCP

Novel drug delivery systems are intended to achieve a constant delivery of drugs at predictable and reproducible kinetics over an extended period of time in the circulation. The advantage of this perception include minimization of drug related side effect due to controlled therapeutic blood levels instead of oscillating blood levels, improved patient compliance due to reduced frequency of dosing and the reduction of the total dose of drug administered. The traditional and conventional dosage forms offer drug release immediately and it causes fluctuation of drug level in blood depending upon dosage form. Thus to maintain the drug concentration within therapeutically effective range we need novel drug delivery system.

Novel drug delivery system include Targeted Drug Delivery System, Controlled Drug Delivery System, Modulated Drug Delivery System, etc and they depend on physicochemical properties of a drug, Route of a drug, Route of administrations, acute/chronic therapy, target sites and the biological conditions of the Patient.

By the developments of NDDS, new ideas on controlling the pharmacokinetics, pharmacodynamics, non-specific toxicity, immunogenicity, biorecognition and efficacy of drugs were generated. These new strategies, often called drug delivery System (DDS) are based on interdisciplinary approaches that combine polymer science,

pharmaceutics, bioconjugate chemistry and molecular biology.

Current efforts in the area of drug delivery include the development of targeted delivery in which the drug is only active in the target area of the body (example in cancerous tissues), sustained release formulations in which the drug is released over a period of time in a controlled manner from a formulation and methods to increase survival of oral drugs which must pass through the stomach's acidic environment unharmed. Few examples of sustained release formulations include liposomes, drug loaded biodegradable microspheres and drug polymer conjugates. One research area has been around the utilization of lipid isolates from acid-resistant archaea *Sulfolobus islandicus*, which confers on the order of 10% survival of liposome-encapsulated agents

It can be concluded that NDDS is a combination of advance technique and new dosage forms which are far better than conventional dosages forms. Advantage of Novel Drug Delivery System are : Optimum dose at the right time and right location, Efficient use of expensive drugs, reduction in production cost, Beneficial to Patients, better therapy, improved comfort and standard of living.



NEW DRUG APPROVALS

- **Xcopri (Cenobamate) Tablets**
Date of Approval: November 21, 2019
Company: SK Life Science, Inc.
Treatment for: Seizures
- **Exservan (riluzole) Oral Film**
Date of Approval: November 22, 2019
Company: Aquestive Therapeutics, Inc.
Treatment for: Amyotrophic Lateral Sclerosis
- **Oxbryta (voxelotor) Tablets**
Date of Approval: November 25, 2019
Company: Global Blood Therapeutics, Inc.
Treatment for: Sickle Cell Anemia
- **RediTrex (methotrexate) Injection**
Date of Approval: November 27, 2019
Company: Cumberland Pharmaceuticals Inc.
Treatment for: Rheumatoid Arthritis, Juvenile Idiopathic Arthritis, Psoriasis
- **Avsola (infliximab-axxq)**
Date of Approval: December 6, 2019
Company: Amgen Inc.
Treatment for: Crohn's Disease -Maintenance, Ulcerative Colitis, Rheumatoid Arthritis, Ankylosing Spondylitis, Psoriatic Arthritis, Plaque Psoriasis

EVENTS

BANSALOTSAV 2019



This annual festival of Technical, cultural and sports activities was organised by BGI group from 26 March to 29 March 2019 and inaugurated by Mr. Sharad Dwivedi, chief editor, Bansal News. The students participated in various events such as Tech poster, short film making, treasure hunt, outdoor & indoor games, athletic events and cultural events. The winners were felicitated on the last day of the fest with medals and certificates.

VISION & MISSION

VISION :

To emerge as a premier pharmacy institute, imparting education of high standards where the faculty and students will be innovators and leaders in transforming health care to create positive patient outcomes through the discovery and translation of research.

MISSION:

- To foster pharmacy profession by synergizing knowledge, skill & technology to transform lives through the advancement of patient-centered care and healthcare delivery by providing differentiated health care professional & ethical pharmacist
- To create a centre of excellence for education and research in the field of pharmaceutical sciences.
- To raise & nurture our student through innovative solution based learning, and inter professional collaboration and Foster entrepreneurial spirit in students
- Fulfill the national obligation through Rural Health Mission.

EXCELLENCE AWARD TO OUTSTANDING FACULTY



Faculty with outstanding performance in RGPV Exams (more than 95% results) in their respective subjects were awarded with a cash prize of Rs. 50,000 and certificate by Er.Sunil Bansal, Secretary, BGI on 26 April 2019. Mr. Shobhit Shrivastava, Mr. Abhinay Dwivedi, Mr. Ajay Tiwari, Mrs Shilpa choubey, Mr.Shashank chourasiya, Mrs. Priyanka Singh, Ms. Ankita Khare, Mrs. Sana Iram and Mrs.Ritu Sharma received the award.

SEMINAR ON "ENTREPRENEURIAL OPPORTUNITIES IN PHARMA INDUSTRY & HEALTH CARE SECTOR"



A One day seminar on "Entrepreneurial opportunities in pharma industry & health care sector" organised by PRISAL in collaboration with Bansal college of pharmacy was held on 15th July 2019. Experts from the industry shared their insight.

NATIONAL CONFERENCE ON INNOVATION IN DRUG DELIVERY THROUGH ACADEMIC AND INDUSTRY COLLABORATION"



National conference on "Innovation in drug delivery through academic and industry collaboration" was organised by Bansal college of pharmacy and supported by pharmaceutical royal international society

(PRISAL) on 8 September 2019. Event witnessed the presence of Dr.S Saraf, honourable Vice President, PCI, New Delhi as chief guest and Dr. Sunil Kumar, Vice chancellor, RGPV, Bhopal as guest of honour. Around 700 students and staff of various pharmacy institutes attended the program. Guest speaker Dr. Krishnamurthy, chief scientific officer, NHU China gave his insight about innovation in the world of pharmacy and encouraged the students to opt for a career in research. Poster presentation was also held for students and winner were awarded with certificates.

BHOPAL VIGYAN MELA 2019 VISIT

Students and faculty members of first year visited the vigyan mela 2019 on 14 Sept. 2019.

The vigyan mela was organized by the MPCST and VIGYAN BHARTI, M.P

The latest technology of basic science was presented using science working model. It was a showcase science, its development over the last decade and future innovation.

PRAGATI PATH 2019 IN PRESENCE OF MP CHIEF MINISTER MR. KAMAL NATH



Bansal college of pharmacy was awarded as the Best institute in Madhya Pradesh on 17th Sept. 2019 by honorable CM Shri Kamal Nath. Dr. S. Nayak, Director of the institute received the award and expressed his gratitude and dedicated the award to the students and alumni of the college.

PHARMACIST DAY CELEBRATION



The institute celebrated World Pharmacist Day on 25 Sept. 2019. The theme for this year was "safe and effective medicine for all". Students and faculty members participated in a dengue awareness program in nearby Kokta village, Bhopal.

FACULTY EVENTS



Expert Lecture by Dr. S. Nayak in STTP Short term training program on Recent laboratory techniques in biotechnology held at LNCT pharmacy, Bhopal on 30/09/2019



Entrepreneurship development lecture was delivered by Dr. S Nayak in SIRT Bhopal on 04 Oct. 2019



Two Week Faculty Development program (FDP) at IPS College, Indore attended by Ms. Mamta Yadav from 15 July to 28 July 2019

Mrs. Shilpa Choubey, Mrs. Priyanka Singh & Mrs. Purnima attended a 6 day STTP Short term training program on Recent

laboratory techniques in biotechnology from 30 Sep to 5th Oct 2019 at Lakshmi Narain College of Pharmacy, Bhopal.

Mr. Shobhit Shrivastava and Mr. Ajay Tiwari attended a national seminar on application of high throughput screening methods based on molecular markers in new drug delivery. The event took place on 14th September 2019 at the Truba institute of Pharmacy, Bhopal.

Mr. Shobhit Shrivastava & Mr. Ajay Tiwari attended a workshop on 5th Oct 2019. The workshop was themed on sensitization & implementation of Practice school as per new scheme & syllabus in UG Curriculum of Pharmacy held at the School of pharmacy & research, People's University, Bhopal.



A One Day workshop on Awareness on NBA Accreditation under TEQIP-III was held on 24th Dec. 2019 at BIST, Bhopal. All the staff attended the event.



A Two Week Faculty Development Programme was organized by Lakshmi Narain College of Pharmacy, Bhopal from 16th Dec. to 28th Dec 2019 on Quality by Design: Needs exploration in pharmacy profession. Mr. Shobhit Shrivastava, Mr. Ajay Tiwari, Mr. Abhinav Dwivedi & Mr. Sushil Mhaske attended the event.

PHARMA NEWS

1. Indoco receives EU GMP from UK-MHRA for its Sterile facility in Goa

Indoco Remedies announced that its sterile manufacturing facility (Plant II) at Verna, Goa, has received EU GMP certification from the UK Health Regulator. This is an outcome from the last successful inspection conducted by UK MHRA from 16th to 20th September 2019.

2. FDA clears first fully disposable duodenoscope, eliminating the potential for infections caused by ineffective reprocessing

The U.S. Food and Drug Administration cleared for marketing in the U.S. the first fully disposable duodenoscope. The EXALT Model D Single-Use Duodenoscope is intended to provide visualization and access to the upper gastrointestinal (GI) tract to treat bile duct disorders and other upper GI problems.

3. NIH launches first U.S. clinical trial of patient-derived stem cell therapy to replace dying cells in retina

Researchers at the National Eye Institute (NEI) are launching a clinical trial to test the safety of a novel patient-specific stem cell-based therapy to treat geographic atrophy, the advanced "dry" form of age-related macular degeneration (AMD), a leading cause of vision loss among people age 65 and older. The geographic atrophy form of AMD currently has no treatment.

4. Researchers identify drug targets for the dreaded Nipah virus

Taking the fight against the dreaded Nipah disease to a new level, researchers at Pune-based Indian Institute of Science Education and Research (IISER) have developed drug targets for the virus that causes the disease, using the molecular modeling approach.

From:



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