

# PHARMA QUEST

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Shri Vile Parle Kelavani Mandal's  
Institute of Pharmacy, Dhule



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## From the Desk of Principal

SVKM's Institute of Pharmacy, Dhule is one of the premier institute in the region of North Maharashtra for quality education and has been progressing at an exponential rate since 2017. The ways we teach and the ways our students learn are unique and creative. The knowledge base and adaptability is high among today's students. The entire calendar of events was diligently followed with complete effective execution. Each festival and occasions of importance to pharmacists were celebrated in a big way. Many notable achievements have been recorded since then. These merits and credits have seldom been known to public and the authority due to the lack of showcasing or projecting through a medium. This E-bulletin is a medium which will bridge the gap between achievements and publicity.

**Dr. Sameer Goyal**

## Form Editor

Dear Friends,

We, the Editorial committee have great privilege to welcome our first E-Bulletin from SVKM's Institute of Pharmacy, Dhule. It highlights the events, activities academic skills achievements of the students and staff of this college and other updates in the field of Pharmacy which are of common interest to the Pharma family. We extend our sincere thanks to our beloved Principal Dr. Sameer Goyal and all faculties for their valuable suggestions and encouragement for release this E- bulletin which will serve as a platform for today's pharmacists to share the knowledge and recent advances pertaining to the pharmacy profession. We are planning to publish this bulletin quarterly and we would very much welcome your input for each issue.

Best wishes....

**Dr. Manoj Gadewar**

## Bio-automation in Drug Design and Discovery

Failure of the drug design and discovery increases the economic burden on researcher. The complex and an interdisciplinary drug design and discovery is long term and expensive process, that costs billions of dollars. The analysis of cost associated with drug discovery process in 2014 by Tufts Center for the Study of Drug Development showed the 150% increase in the last decade. The increased cost is mainly due to high failure rate during drug discovery and sometimes in clinical trials the candidate fails to get the FDA approval to reach the market. The failure in drug discovery process contribute the 75% cost of drug design and discovery project. Pharma companies are now looking for rejection of initial phase screening of non-drug like molecules. The application of robotic automation in biochemical processes reduces the materialistic requirement such as man power and biochemical material & can screen the thousands of molecules within short span of time. High throughput Virtual Screening used to avoid the screening of large number of ligands that involve the costly biological screening. Hence bio-automation got an attention in Pharma industries.

Computer Aided Drug Design helps to reduce the number of ligands which are going to be used for biological screening. In-silico or virtual screening of ligands gives the best or possible drug like candidate that should enter the preclinical or clinical studies. In addition to cost of the project the CADD also reduces the time or duration of drug design and discovery process. Various approaches such as Structure Based Drug Design, Ligand Based Drug Design, HTVS, QSAR, 3D QSAR, Molecular modeling & Molecular Dynamics Simulation are now used for generation of more validated in-silico data. Certain CADD tools also predict the side effects, bio availability, toxicities, alteration in the physico-chemical properties or lead optimization of molecules etc. Thus from the drug design to lead identification and then lead optimization, CADD has the influential effect on development of new chemical entity.

**Dr. Mohd. Usman Mohd. Siddique, Asst. Professor**

## Professional courses vs Conventional courses - The present scenario!

When students complete intermediate/ 12th, some of them think that it is better to choose professional courses than conventional one whereas some think that conventional courses increase the basic knowledge level. The conventional bachelor degree needs the students to study a wide variety of topics which are useful not just in professional life but are also in their personal life. They enable a person to think from different angles. The scope for a student in post graduate courses is wider if he passes out his graduation with a traditional degree. People usually choose between traditional and specialized courses with money as their yardstick. An advantage of professional courses is that students get practical exposure where students get to learn new things related to practical fields, they get to understand how an organization works. There exists a difference between quick earning and good earning. The choice of course should be based on interest in a particular subject and not it's earning potential. Rather than wanting to start earning right after bachelor degree, the students should aim to specialize in their post-graduation and take up some paid internships, which will further help them to increase their value in the market. Although the Indian mentality leans towards how quickly can money be made while selecting the course to be pursued and the choice of course to pursue is personal depending on the long term goals, interest, potential, time factor and financial resources. In professional courses theoretical knowledge is imparted to the students when compared with conventional courses. So in a hurry to start earning quickly, one may take up professional course, but an early bird need not necessarily fear for taking a conventional course.

**Dr. Manoj Gadewar, Asst. Professor**

## Radio protective natural products in disease management

Radiation protection is an area of great significance due to its wide applications in planned radiotherapy as well as unplanned radiation exposure. Treatments that reduce the risk and severity of damage to normal tissue or those that facilitate the healing of radiation injury are being developed. An alternative for currently available radiopharmaceutical is to develop a novel approaches and exploring experimentally with proven therapeutic benefits; and have been utilized since ancient times for curing various diseases and disorders.

More than 70% of the world's population depends on plant-based remedies to meet their health care needs. Plants are naturally gifted with the ability to withstand the harmful radiations from the sun and protect from the radiation. The use of phytochemicals in radioprotection has received much attention in the last decade owing to certain discoveries with special properties as antioxidants. The radioprotective activity of phytochemicals may be mediated through several mechanisms such as free radical scavenging, improvement in the antioxidant status, and anti-lipid-peroxidation potential, conferred due to the presence of variety of phenolic hydroxyl groups attached to the ring structure. Polyphenols especially flavonoid glycosides, iso-flavones and their derivatives like quercetin, catechin, myricetin, luteolin, orientin, naringin, apigenin, etc. The polyphenols may up-regulate mRNAs of antioxidant enzymes such as catalase, glutathione transferase, glutathione peroxidase and superoxide dismutase, thus counteracting the oxidative stress induced by ionizing radiations and restore the disturbed equilibrium during radiation injury, in a collective and holistic manner owing to their varied phytochemical spectrum.

The enormous heritage of vast natural dietary and time tested medicinal resources in this planet is the motivation behind exploring the possibility of developing efficient, economically viable and clinically acceptable radioprotectors for human application from these resources. However, the scope in the field of herbal formulations lies in characterisation of the responsible phytoconstituent(s) followed by structural elucidation. Further, studies may be required to bring new lead molecules from herbal resources

**Dr. Raju Ratan Wadekar, Asst. Professor**

## How to Safely Dispose Expired Medicine

Irrespective of whether expired medicines have desired potency or not, they are toxic or not, it is legally and ethically not favorable to use them in clinical practice. The following disposal methods have been recommended by the international authorities.

**Returning to the manufacturer:** Landfill: The waste materials are directly placed into a land disposal site without prior preparation or treatment. This is the oldest and most practiced method for solid waste disposal. Untreated waste must be rapidly covered with other municipal waste to prevent scavenging. Care should also be taken to prevent contamination of ground water.

**Waste immobilisation (encapsulation):** Expired drugs are immobilized in a solid block within a plastic or steel drum. After filling these substances into the drum to about 75 per cent of the capacity, the drum is filled with a mixture of lime, cement and water in appropriate proportion. The sealed drums may be placed at the base of the landfill and covered with a fresh municipal solid waste.

**Waste immobilisation (inertisation):** In this method the products are removed from the package like removing pills from blister. The products are then ground and made a paste with a mixture of water, cement and lime. Then they are taken to landfill and decanted into normal urban waste.

**Sewer:** Some liquid medicines like syrups, intravenous fluids can be flushed into sewer after dilution. Small quantities of liquid medicines including antiseptics can be disposed off if they are well diluted before flushing.

**Burning in open containers:** Burning of medicines in open containers at low temperature cause release of toxic pollutants to the environment. Though not a preferred method, small quantities of waste medicines can be disposed off this way.

**Incineration:** Incineration of expired medicines is recommended only when absolutely necessary.

**Chemical decomposition:** It is useful only for small quantities of medicines when appropriate incineration method is not available.

The procedure must be in place for safe disposal of expired medicines. In retail practice, when it is not feasible to return the expired medicines to the supplier, they should be separately stored in cupboard or shelf or any other designated area with adequate marking "expired good – not for sale". The following procedure is suggested for safe disposal of unwanted pharmaceuticals in and after emergencies, WHO, 1999.

Cutting the package in such way that the label is also cut. Tablets and capsules can be destroyed disposing them in a bucket of water.

Using landfill procedure as per medical waste disposal method.

Pouring the liquids into the sink and washing away with sufficient water.

Keeping a record of all such disposal with full details of medicines destroyed.



Most expired medicines become less efficacious and few may be toxic, but the defective disposal of them poses serious threat to the public health. Standard operating procedures for good disposal practice of expired medicines may be developed and made available to the all concerned starting from retailers to manufacturers, and the regulating authorities.

**Dr. Nitin Nema, Asst. Professor**

### PASSION FOR LIFE

The path in our life, may never be straight.  
Contain bumps & curves, where many are great.  
Accept all the challenges, and just tap on our point.  
Success calls by fits & starts,  
burn the midnight oil utter.  
Your personal experiences, have shaped who you are.  
Embrace your mistakes, and each unique scar.  
Come off with flying colors, in the life we may learn,  
Always pretty new things.  
Chapter we turn, With every page.  
There's just one simple, But very important rule.  
Your passion for life, should be used as your fuel.

**Sayali Baviskar**  
(S.Y. B. Pharm)

### ॥ स्त्री ॥

अंधारलेल्या कोठीत डांबायचय मनाला  
अंगभ्र कपडयात गुंडाळायचय स्वतःला,  
थांबवायचय घात केवळ आपना-या घडयाळयाला..  
स्त्रित्वाच लेण परत कराचय त्या देवाला  
रोज खचुन मरण्यापेक्षा  
निधडया छातीने कवटाळायचय मरणाला...  
नष्ट कराचय पाप्यची हव्यास जागवणा-या शरीराला  
कृष्ण नसे माझी लाज झाकायला  
म्हणुन आतच भूगर्भात परतायचय मला..  
नजरांचे काटे टोचताय माझ्या कोमल कायेला  
फुलण्या आधीच कोमेजायचय माझ्या मनाच्या कळीला  
गर्दीचा फायदा घेत तयारच असता छेडायला..  
म्हणुनच पाठी असलेला समाज बघुनच होतय घाबरायला  
छाटायचय नात्यांना जोडणा-या मुळाला  
भस्म कराचय भळवणा-या स्त्री सौंदर्याला..  
हात घालणारे मागे सरतिल तर तयार आहे मी केशवपनाला  
अंतिम क्षणी पत्करेल पतिच्या चितेला  
बाटले जाइल सौभग्य माझे तर कुंकु लावनार नाही माथ्याला  
कौडी मोल ही भाव नसेल फुटक्या काळया मण्याला  
लाथसडायचय मातृत्वाच्या देणगीला  
का घालु बलात्कारी जन्माला  
कौमार्य चिरडतील तिचे  
तर बढावा देईल स्त्री भ्रुणहत्येला  
कायम चारा राम घालेल तुमच्या पुरुष प्रधान संस्कृतीला..

**Sakshi Wagh**  
(T. Y. B. Pharm)

### College Events



World Hepatitis Day (WHD) was celebrated on 28 July 2019 under the theme "Invest in Eliminating Hepatitis". On the occasion of World Hepatitis Day, the students of Third Year B. Pharm were participated in various activities by making the posters of hepatitis information. They gave awareness regarding hepatitis to all the teaching and non-teaching faculty of institute.



"World Patients Safety Day" was organized on 17th September 2019 to spotlight patient safety in order to increase public awareness and engagement; enhance global understanding and spur global solidarity and action. On this occasion students of B. Pharmacy were participated in various activities by making posters of hygiene and safety awareness information. Principal Dr. Sameer Goyal addressed the students regarding patient safety and various measures to be taken for the same. Mr. Abdullah Sherikar, Asst. Professor coordinated the event.



On the occasion of "World Mental Health Day", which was conducted on 10.10.2019, the students of Second Year & Third Year B. Pharm were participated in various activities by making posters of mental health awareness information and addressed to the students, teaching staff, non-teaching staff, administration staff as well as cleaning workers of Shri Vile Parle Kelavani Mandal's Institute of Pharmacy, Dhule.



Institute organized Induction and orientation programme for newly admitted first year B. Pharmacy students on 10th Aug 2019. On the occasion of induction programme Dr. K. B Patil was invited as a chief guest while Dr. Nilesh Salunke, principal SVKMIOT, Dhule and CA Kunal Pasari, faculty In-charge NMIMS, Dhule campus were guest of honor. Dr. Sameer Goyal, Principal, SVKMIOP gave brief introduction of college infrastructure, amenities and facilities provided to students. He also explained various funds and grants received by the college for last two years along with introduction to academic curriculum. All the teaching and non-teaching staffs were actively participated in the programme.



National Librarian's Day was celebrated on 14th August 2019 in remembrance of national professor of library science, Dr. S. R. Ranganathan (1892-1972). Principal Dr. Sameer Goyal inaugurated the event and worshiped the photo of Goddess Sarasvati and of Dr. S. R. Ranganathan. Principal Dr. Sameer Goyal and faculty members then expressed their thoughts about Role of Librarians in libraries: Then and Now to the participated B. Pharmacy students. The event was coordinated by Dr. Hitendra Patil, Librarian SVKM's Institute of Pharmacy, Dhule.



World pharmacist day was celebrated on 25 Sept 2019. All the students of B. Pharmacy were actively participated the programme. To create general awareness regarding use of safe and effective medicine rally was organized along with some street act. All the faculties were actively participated the event.



As an initiative of Govt. of Maharashtra, Tree plantation drive was conducted in college. All The Third Year Pharmacy students were participated.





Fresher's party was organized on 31st Aug 2019 by S.Y. Pharmacy students for the newly admitted B. Pharmacy first year students, all the students actively participated and gave their performance.



Teachers' Day on 5th September was celebrated to commemorate the birth anniversary of Dr. Sarvepalli Radhakrishnan. Principal Dr. Sammer Goyal worshiped the photo of Dr. Sarvepalli Radhakrishnan. Students felicitated faculties by presenting the buke to faculty members.



The invited guest lecture was conducted on 19th Aug 2019 by Dr. Nandkumar Bedse (Additional District Collector, Dhule). He was felicitated by Principal Dr. Sameer Goyal, with buke; He delivered a lecture on importance of competitive exam and its preparation along with career guidance to the third year pharmacy students. All the faculties were actively participated and attended the lecture.



In first year D. Pharmacy department level quiz competition was conducted on 13th Sept 2019. All the first year students were encouraged to participate in the event. Ms. Nikita Patil and Ms. Bhavana Sonawane declared as winner of the competition.



Poster presentation event was organized for newly admitted F.Y.D. Pharmacy students on 14th Sept 2019. Students actively participated the event. Mr. Nilesh Bagul, Mr. Sachin Ahire, Ms. Bhagyashri and Mr. Rahul Badgajar were selected for best poster.

### Faculties Achievement

- DBATU has recommended and approved Dr. Sameer Goyal, Dr. Manoj Gadewar, Dr. Kiran Aher and Dr. Bhushan Dravyakar as a PhD research supervisor.
- Mr. Kunal Bachhav, Mr. Mahesh More and Ms. Mrunalini Patil has attended BioTecNika Schrodinger Joint Workshop on Computer-Aided Drug Discovery organized by Biotechnika Info Labs Pvt Ltd from 22nd July to 2nd August 2019 in R C Patel Institute of Pharmaceutical Education and Research Shirpur.
- Institute awarded Mr. Raju Wadekar (Faculty) and Mr. Jitendra Patil (Non teaching staff) with Employee of the Year Award for their outstanding performance and dedicated service.
- Dr. Hitendra Patil Librarian of SVKM IOP has qualified NET exam on 12th July 2019 and published three research papers scopus indexed journals
- Mr. Rajiv June has completed online course, "Feminist Writing" under NPTEL-AICTE faculty development programme and ARPIT online refresher course for Career Advancement Scheme (CAS) conducted by Gujarat University, Ahmedabad.
- Mr. Raju Wadekar awarded 'Doctor of Philosophy' from KLE University Belgaum.
- Dr. Mohd. Usman got the best performance certificate of AICTE Sponsored one week STTP at SVKM's NMIMS Shirpur.
- Dr. Girija Bhawar, Asst. Professor received seminar grant form Maharashtra State Women's Commission, Mumbai for the topic digital literacy for women's.

### Students Achievements

Students of B. Pharmacy Second Year Payal Gajghate, Sakshi Wagh and Rachi Agrawal secured 84, 83 and 82% respectively in university exam conducted by Dr. Babasaheb Ambedkar Technological University, Lonere. Students of B. Pharmacy First Year Prerna Patil, Mohit Kevlani and Rachita Sharma secured 8.66, 8.34 and 8.31 SGPA respectively in University exam conducted by Dr. Babasaheb Ambedkar Technological University, Lonere.



# Shri Vile Parle Kelavani Mandal's Institute of Pharmacy, Dhule

Approved by AICTE, PCI, New Delhi, DTE (Govt. of Maharashtra), Mumbai,  
Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere and MSBTE, Mumbai

## Courses Offered

**B. Pharma** (Intake 100)

**D. Pharm** (Intake 60)

### Silent Features

- Highly qualified and dedicated faculty
- Well Equipped laboratories
- State of art infrastructure and library resources
- Wi-Fi enabled campus
- State of art classrooms with smart boards
- Air conditioned classrooms
- Co-curricular activities within and outside the institute
- Counseling to students for curricular activities



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