



GURUNANAK COLLEGE OF PHARMACY
NAGPUR

INDOCTRINATE



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IQAC NEWSLETTER - 18 16 December 2018

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EDITORIAL BOARD

Dr. Vinita Kale Mr. Krishnakant Bhelkar Dr. Subhash Yende

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Technical Article

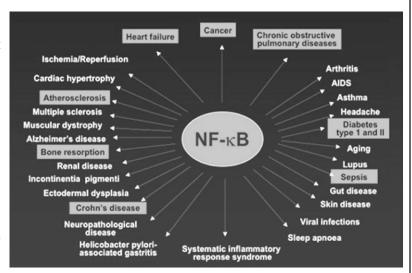
Targeting NF-κB as an innovative strategy to overcome disease associated with dysregulated inflammation

Dr. Sumit Arora Assistant Professor

Nuclear transcription factor (NF κ B), discovered by David Baltimore in 1986, is a ubiquitous factor that resides in the cytoplasm but, when activated, is translocated to the nucleus, where it induces gene transcription. NF κ B is activated by free radicals, inflammatory stimuli, carcinogens, tumor promoters,

endotoxin, gamma radiation, ultraviolet (UV) light and X-rays. On activation, NFκB induces the expression of more than 200 genes that have been shown to suppress apoptosis, induce cellular transformation, proliferation, invasion, metastasis, chemoresistance, radioresistance and inflammation.

The activated form of NF κ B has been found to mediate cancer, atherosclerosis, myocardial infarction, diabetes, allergy, asthma, arthritis, crohn's disease, multiple sclerosis, Alzheimer's, osteoporosis, psoriasis, septic shock, AIDS and other inflammatory diseases. NF κ B has been linked to this wide variety of diseases is not too



surprising because most diseases are caused by dysregulated inflammation.

The transcription factor NF κ B has attracted widespread attention among researchers in many fields based on the following:

- ✓ Its unusual and rapid regulation
- ✓ The wide range of genes that it controls
- ✓ Its central role in immunological processes
- ✓ The complexity of its subunits and
- \checkmark Its apparent involvement in several diseases.

A primary level of control for NFkB is through interactions with an inhibitor protein called IkB. Recent evidence confirms the existence of multiple forms of I kappa B that appear to regulate NFkB by distinct mechanisms. NFkB can be activated by exposure of cells to LPS or inflammatory cytokines such as TNF or IL-1, viral infection or expression of certain viral gene products, UV irradiation, B or T cell activation, and by other physiological and nonphysiological stimuli. Activation of NFkB to move into the nucleus is controlled by the targeted phosphorylation and subsequent degradation of IkB. Exciting new research has elaborated several important and unexpected findings that explain mechanisms involved in the activation of NFkB. In the nucleus, NFkB dimers bind to target DNA elements and activate transcription of genes encoding proteins involved with immune or inflammation responses and with cell growth control.

Natural products and traditional medicines are rich source of leads for pharmaceutical industry. The compounds derived from medicinal extracts are often stereochemically complex, multi- or macrocyclic molecules and tend to have interesting biological properties. Despite these advantages, the path from traditional medicines/natural products to western pharmaceuticals poses with challenges along the key steps of development such as western discovery, isolation or synthesis of active component, elucidation of molecular mechanism, and pharmaceutical development.

Moreover, the future perspective of NF- κ B targeting as an innovative strategy to overcome the various diseases.

HALL OF FAME

Dr. Subhash Yende



Dr. Subhash R. Yende was awarded PhD in Pharmaceutical Sciences by Jawaharlal Nehru Technological University, Hyderabad. He has completed his research work under the guidance of Dr. Uday N. Harle, Clinical Research Consultant, Mumbai on the topic "Neuropsychopharmacological Evaluation of Some Marine Macroalgae in Laboratory Animals."

Dr. Govind Lohiya



Dr. Govind K. Lohiya awarded PhD in Pharmaceutical Sciences by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. He has completed his research under the guidance of Dr. Mrs. J. G. Avari, HOD & Professor, Dept. of Pharmaceutical sciences, RTM Nagpur University, Nagpur on the topic "Targeted Delivery of Probiotics: Studies on Processing Parameters towards Viability and Stability."

ACCOLADES

- Science and Engineering Research Board (SERB), a statutory body under the Department of Science and Technology, Govt. of India, sanctioned 48 lakhs for the project under the category Industry Relevant Research and Development (IRRD) titled "To develop and establish medicine printing technology for printing of medicines on Oral Thin Films" submitted by **Dr. Nidhi Sapkal** as a Principal Investigator and **Dr. Vaishali Kilor** as a Co-Principal Investigator on 03/12/2018.
- **Ms. Priya Dule**, Ph.D scholar of GNCP has been awarded 2nd Prize in poster competition at Young Scientist Conference, under the theme 'Swastha Bharat', during **India International Science Festival** 2018, held at Lucknow on 5-8 Oct, 2018.
- Mr. Rajat Pahwa, M. Pharm II (Pharmaceutics) has been awarded with Consolation prize for his poster on 'Chewable Lozenges Formulation For Alertness During Driving'; at National Conference on Integrative Approach Towards Ayurved Practice held on 29 30 Sep, 2018



Independence Day Celebration

GNCP celebrated 72nd Independence Day on 15th Aug, 2018 with zeal. The national flag hoisting was carried out by Sardar Gurbux Singh Lamba, President of the Sikh Education Society. S. Sarabjeet Singh Kalsi General Secretary and CEO of the Sikh Education Society and other eminent members of The Sikh Education Society were also present on this event.

On this occasion felicitation of Dr. S. R. Yende, Asst. Professor, GNCP, for Nagpur being awarded with Ph. D. and other academic achievers of session 2017-18 was done at the hands of dignitaries. Release of GNCP's first research Booklet and 17th issue of newsletter 'Indoctrinate' was also done in the same. The function was followed by cultural programme and refreshment for staff and students.

SPORTS NEWS

- Students of GNCP had enthusiastically participated in Intercollegiate various sport activities viz. Football, Table Tennis, Swimming (men), Kho Kho and Chess organized by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur during session 2018-19.
- GNCP students also participated in Intercollegiate Dr. Panjabrao Deshmukh Krida Mahostav organized by Dhanwate national college, Nagpur dated 18th to 20th Sep. 2018.

ACADEMIC ACHIEVEMENTS RTM Nagpur University Results 2017-18 M. Pharm Result: Pharmachemic Pharm				
Branch	%	Topper	industry,	
M. Pharm - IV	Result	(% Score)	No. of	
Pharmaceutics		Ms. Kalyani Khune (78.4)	Students	
Filarmaceutics	100.0	Ms. Deepa Singh (76.6)		
Ovality		Ms. Amandeepkaur Dhillon (80.0)	2	
Quality assurance	100.0	Ms. Kalyani Thombre (81.6)		L
	1000	Ms. Payal Shahu (79.2)	3	١
P. Chemistry	100.0	Ms. Nidhi Jaiswal (75.8)	1	ŀ
M. Pharm - III	Sem.	1/25/11/2211 (4/27)	3	ŀ
Pharmaceutics	78.57	Ms. Harshita Jain (74.0)		L
1 Harmaccatics	/8.37	Ms. Kalyani Khune (73.5)	2	ļ
Quality		Ms. Amandeepkaur Dhillon (74.0)	1	ŀ
assurance	100.0	Ms. Kalyani Thombre (68.5)	1	
0.550101100	100.0	Ms. Payal Shahu (70.0)	2	ľ
P. Chemistry	100.0	Ms. Trupti Waghmare (65.0)		ļ
M. Pharm - II	Sem	Titel Truph (vuginime (eeve)	2	
Pharmaceutics	1	Ms. Shraddha Shahu (74.92)	7	ŀ
Filarmaceutics	93.30	Ms. Shalakha Sahare (68.15)	/	ı
Ovality		Ms. Rakhi Sarpate (73.07)		L
Quality assurance	100.0	Mr. Swapnil Dudhkhokar (73.07)	2	Г
assarance		Ms. Mansi Kanchanwar (71.38)	3	ı
P. Chemistry	100.0	Mr. Mujahid Ansari (69.23)		ŀ
·		Mr. Swapnil Deshmukh (62.76)	1	١
M. Pharm - I S	Sem.		2	r
Pharmaceutics	84.61	Ms. Shraddha Shahu (77.23)		L
		Ms. Shubhangi Mohije (69.84)	1	ļ
Quality	100.0	Ms. Rakhi Sarpate (73.53)	1	
assurance		Mr. Swapnil Dudhkhokar (70.46)	1	ŀ
P. Chemistry	33.33	Mr. Mujahid Ansari (64.3)	1	ı
J	B. Ph	narm Result :	1	ŀ
Year	%	Topper		١
ieai	Result	(% Score)	1	Ī
B. Pharm.	84.5	Ms. Farheen Bano (75.54)		L
VIII Sem	01.5	Mr. Pranav Kulkarni (71.81)	1	
B. Pharm. VII Sem	86.11	Ms. Farheen Bano (74.0)	Alumni	
B. Pharm. VI		Mr. Pranav Kulkarni (70.0) Ms. Esha Jain (75.81)	Alullilli	
Sem	93.0	Ms. Durga Bansod (74.0)	students	Ī
B. Pharm. V	00.5	Mr. Hasan Hussain (74.0)	alumnus	
Sem	80.7	Ms. Esha Jain (73.0)	4 th Aug,	
B. Pharm. IV	65.15	Ms. Mavia Hussain (77.63)	Pharm (
Sem	05.15	Ms. Shivani Darbhe (73.72)	of Chem	
B. Pharm. III Sem	71.21	Ms. Mavia Hussain (75.81)	four go	
B. Pharm, II		Ms. Shifa Shiekh (72.90)	Nagpur l	
Sem	62.5	Ms. Vidhi Dugar (76.68) Mr. Kapil Dholwani (75.58)	guided	
B. Pharm. I	60 5	Ms. Vidhi Dugar (74.07)	clarified	
Sem	60.7	Ms. Adiba Khan (72.41)	Jacob ma	1

PLACEMENT ACTIVITY

Following students of B. Pharm and M. Pharm final year 2017-18 are placed in Pharma industry, Academics and Marketing.

No. of Students	Department and Organization placed		
B. Pharm			
2	Production, Mylan Laboratories		
	Ltd., Aurangabad		
3	Production, Zim Laboratories		
	Ltd., Nagpur		
1	Pharmacovigilence, TCS Ltd., Mumbai		
3	Marketing, Sun Pharmaceuticals,		
2	Mumbai		
1	Marketing, Lupin Pharma, Mumbai		
1	Marketing, Tablets India Ltd., Mumbai Marketing, Gebbs Health Care Solutions,		
1	Navi Mumbai		
2	Marketing, Centercon Pharma Ltd,		
	Mumbai		
2	Hospital Pharmacist at Maya Hospital		
	Ltd and Triveni Hospital, Nagpur		
7	Rergistered Pharmacists at various		
	establishments		
M. Pharm			
3	Production, Alembic Pharma Ltd,		
-	Vadodara		
1	Formulation & Development, Oniosome		
1	Health Care Pvt Ltd., Mohali		
2	Analytical R & D, Hetero Pharma Ltd.,		
2	Hyderabad		
1	Pharmacovigilence, TCS Ltd., Mumbai		
1	Pharmacovigilence, Cognizant Ltd.,		
-	Mumbai		
1	Quality Assurance, Dipti Pharma Ltd.,		
-	Nagpur		
1	Marketing, Aurobindo Pharma Ltd.,		
	Hyderabad		
1	Quality Assurance, Innova Pharma Ltd.,		
	Nagpur		
1	Asst. Professor, Modi University, Jaipur		
	, , , , , , , , , , , , , , , , , , , ,		

Alumni Interaction with Abhishek Sharma

An interaction of B. Pharm final year students with Mr. Abhishek Sharma, GNCP alumnus (B. Pharm, 2014-18) was organized on 4th Aug, 2018. He is currently a student of M. Pharm (Pharmaceutical Chemistry), at Institute of Chemical Technology, Mumbai. He also won four gold medals and one prize from RTM Nagpur University, Nagpur. In this interaction he guided students for GPAT preparation and clarified queries raised by the students. Mrs B. A. Jacob made this event successful.

EVENTS

'IPCS Championship 2018' Vidarbha Level Inter Pharmacy Collegiate Sport Tournament

"IPCS Championship 2018" Vidharbha level Inter pharmacy collegiate sport tournament was organized by Gurunanak college of Pharmacy with Me2We foundation, Nagpur on 2nd October 2018. Whooping 104 participants took part in various sport events like Badminton, Carrom, Chess and Table Tennis. Mr. Arvind Agrawal, Dr, P. M. Ballal, Mr. Amalendu Datta, Dr. Vinita Kale from Me2We Foundation and Mr. G. A. Gurunani and Mr. V. B. Pande from Gurunanak College of Pharmacy took efforts for the event in coordination with the staff members of GNCP





Winners of the tournament are as follows:

Name of Event		Name of Student	Name of College
Table Tennis (Mens Singles)	Winner	Harish Kawade	UDPS, Nagpur
	Runner	Abhay Bhosle	UDPS, Nagpur
Table Tennis (Womens Singles)	Winner	Pranita Kale	GNCP, Nagpur
	Runner	Shradha Shahu	GNCP, Nagpur
Badminton (Mens Singles)	Winner	Manmay Makkad	GNCP, Nagpur
	Runner	Akash Vaishnav	GNCP, Nagpur
Badminton (Mens Doubles)	Winner	Manmay Makkad & Swapnil Deshmukh	GNCP, Nagpur
	Runner	Akash Vaishnav & Akshay Loya	GNCP, Nagpur
Badminton (Womens Singles)	Winner	Pratiksha Bramhe	GNCP, Nagpur
	Runner	Chetna Shelote	GNCP, Nagpur
Carom Singles (Men)	Winner	Sushil Shelke	UDPS, Nagpur
	Runner	Dhanraj Dhawade	SSCOP, Koradi
Carom Doubles	Winner	Sushil Shelke & Dinesh Masram	UDPS, Nagpur
	Runner	Yashwant Nadekar & Shubham Arsod	SSCOP, Koradi
Chess	Winner	Sushil Shelke	UDPS, Nagpur
	Runner	Tasneem Ashraf	KRPCOP, Nagpur

Campus Placement Interview by Genetek Life Sciences Ltd.



The campus placement interview was organized by Training and placement cell and Alumni Institution Interaction Committee, Gurunanak College of Pharmacy in association with Genetek Life Sciences, Wardha.

The interview was conducted by Mr. Rahul Dugane, Production manager, Genetek Life Sciences, Wardha (GNCP Alumnus, B. Pharm 2008-12) for production and quality control departments. Total 10 students appeared for the campus interview and were shortlisted for further recruitment. Dr. S. B. Waikar took efforts to make the event successful.

Brain Storming Sessions

Seminar on Pharmaceutical Validation and GMP



To upgrade the knowledge of pharmacy students for development of their skill in the field of validation in pharmaceutical industry Gurunanak College of Pharmacy organized one day National Seminar on Pharmaceutical Validation and GMP.

In this event Dr. Rakesh Tirpude, Joint Director, Food and Drug Administration, Nagpur delivered a talk on Pharmaceutical Validation. This was followed by the session on Validation and cGMP by Dr. Shashank Lulay, Experts Club Consultants, Nagpur. Dr. Ravi Wankhede, CEO, MOHAN Foundation, Nagpur and Dr. Samir Jagirdar, Cosmetic Surgeon, Nagpur were also present for the seminar. About 200 delegates from B. Pharm final year and M. Pharm and faculties of central India institutions benefited from this event. The seminar was coordinated by Dr. S. P. Padmane, Dr. M. M. Bodhankar and Dr. S. R. Walde.

Seminar on 'Study: Abroad Opportunities, IELTS and Scholarship'



Committee for Higher Education and Career Guidance, Gurunanak College of Pharmacy, organized an interactive seminar for final year students on the topic 'Study Abroad opportunities, IELTS and Scholarship'by Mr. Shishir Upadhyay from Massachusetts College of Pharmacy and Health Sciences (MCPHS), Boston on 3rd Aug, 2018.

In this special emphasis on IELTS, entry criteria, visa regulations, scholarship options, fees, course options and upcoming courses for students was given by speaker. The program was coordinated by Dr. S. K. Arora.

Workshop on 'Fluidized Bed Dryer-Coater: Working and Troubleshooting'



A one day workshop on 'Fluidized Bed Dryer-Coater Working and Troubleshooting' was organized for the M. Pharm students. In this event Mr. Pradip Dugane, Production Chemist, Nicholas Piramal India Ltd., Mahad (M.S.) (GNCP alumnus 2012-16, UG and 2016-18 PG) guided hands on training on working and troubleshooting of fluidized bed processor. M. Pharm students of phamraceutics and quality assurance branch were present for the event.

The workshop was coordinated by Training and Placement Cell, Dr. V. V. Kale and Dr. S. B. Waikar.

GUEST LECTURES

- **Dr. Vilas Patil** and **Dr. Yogesh Ukey,** from Maharashtra Rural Health Service Organisation, Nagpur delivered the awareness talk on "How to cure chronic illness by naturopathy on 11th Jul, 2018.
- Mr. Mohan Hardas and Mr. Vaibhav Chaudhary from Job plus Career, have delivered a lecture on 'CPM (Certified Pharma Marketing) Training and PEEP (Pharma Employability Enhancement Program)' on 14th Jul, 2018.
- Shri Bal Kulkarni, Ex-editor, Punyanagri delivered guest lecture on the topic Self motivation on 28th Aug, 2018.
- **Mr. Vaibhav Chaudhary** from Job plus Career, have delivered a lecture on 'Various job opportunities in the field of phamracy after graduationa and postgraduation' on 29th Aug, 2018.
- Mr. Parag Charde and Mr. Nitin Dayani, Project managers at central india clinical research services delivered the talk on Opportunities in Clinical Research on 8th Sep, 2018.
- Mr. Sambhaji Chavan from PCRA conducted training programme for staff and students on the topic conservation, consumption and reduce dependence of petroleum resources on 3rd Oct, 2018.

Blood Donation Camp



On the occasion of World Pharmacist Day, National Service Scheme Unit, Gurunanak College of Pharmacy, Nagpur conducted 'Blood Donation Camp' in Sardarni Paramjeet Kaur Kalsi Auditorium, GNCP Nagpur on 25th Sep, 2018. The event was held in association with Indian Pharmaceutical association (IPA), Nagpur branch and Dr. Hedagewar Blood Bank, Nagpur.

Faculties and students of various pharmacy colleges in region participated voluntarily and 90 units of blood were donated. The occasion was graced by Dr. A. M. Ittadwar, Principal, GNCP Nagpur and dignitaries of IPA, Nagpur branch. The event was coordinated by Mr. Vipinchandra Pande and Dr. Subhash Yende.

Diabetes Awareness and Blood Testing Camp



Diabetes awareness and a blood testing camp was organized by Gurunanak College of Pharmacy, Nagpur on 23rd Oct, 2018 at Sugat Nagar Buddha Vihar, Nari, Nagpur. More than 100 persons were examined in this camp. In this blood testing for sugar was carried out and the persons found with higher sugar concentration were counselled by Dr. Ratnakar Walde, General Physician and Surgeon and proper treatment was given. Informative literature about diabetes was also distributed to the needy persons. With support of Secretory, Kapil Nagar Buddha Vihar, Dr. S. R. Walde & Dr. V. V. Kale coordinated for smooth conduction of the camp.

Vaachan Din Celebration



To commemorate birth anniversary of Former President Dr. APJ Abdul Kalam, Gurunanak College of Pharmacy, celebrated Vaachan Din (Reading Day) on 15th Oct, 2018. On this occasion, books on history of Nagpur City like 'Nagpur Nagri, Trishatabdi Granth', and 'Adhunik Nagpur' were exhibited for the students. Mr. D. P. Dharkar delivered an influential talk on History of Nagpur and also motivated students and faculties in audience to read such books.

Tree Plantation Program



Tree plantation was carried out in Gurunanak College of Pharmacy campus in the third week of July, 2018. In this week 90 plants of medicinal importance were planted at different sites in the premises. Students and staff enthusiastically participated in this event coordinated by Dr. S. B. Waikar

Swachh Bharat Abhiyaan

On the occasion of birth anniversary of Rashtrapita Mahatma Gandhi and Shri. Lal Bahadur Shastri GNCP celebrated Swachh Bharat Abhiyan. Students and staff enthusiastically cleaned the college campus and nearby area. The program reflected increasing awareness about cleanliness, health and hygiene among students and staff.

Dr. S. K. Tilloo took efforts to make this drive successful.



Jignyasa - 2018: "Paint My Wall Competition"





Jignyasa - 2018: "Paint My Wall Competition" was held with the theme of 'Hygiene & Sanitation' on World Pharmacists Day i.e. 25th September 2018.

The competition witnessed healthy participation with teams from diploma (GNTI), degree as well as post graduation. Total 7 teams prepared posters related to personal as well as hygiene in society, involving social and health related aspects. The posters represented and highlighted current status of general hygiene and sanitation at personal and societal level. The competition was conducted by Mr. K. S. Moharir

The winners of the event are as follows –

Winner	B. Pharm II Year	Ms. Kajal Kesare Ms. Manali Barai
		Ms. Sakshi rathi
		Ms. Ekta Tiwari
		Mr. Sumit Pranjale
	B. Pharm III Year	Ms. Simran Lakhanpal
		Mr. Tanay Shahu
		Ms. Ragini Amarnani
		Mr. Aniket Gawale
		Ms. Sakshi Rathi
Runner	B. Pharm IV	Mr. Abhishek Bapat
	Year	Ms. Payal Dhande
		Mr. Nikhil Sonkusare
		Ms. Tejal Raut
		Ms. Suhasini Chaurasia
Runner- up	D. Pharm II (GNTI)	Ms. Janhvi Padole
		Ms. Apurva Gofane
		Ms. Ankita Pande
		Ms. Sushmita Hedau
		Ms. Snehal Dhok
1	1	

International Yoga Day Celebration

International yoga day was celebrated with utmost enthusiasm in college auditorium on 21st Jun, 2018. Dr. M. M. Bodhankar Briefed about the importance of health and exercise in life to the gathering. She insisted for well being in all directions of health i.e. physical, mental, social and spiritual. The yoga practice was conducted under guidance of Mr. K. S. Moharir. The various 'Asanas' and 'Pranayam' were practiced in this event.

Induction Programme

In order to welcome the newly admitted students of B. Pharm I yr. students and to make them aware about various college activities and general code of conduct, an Induction program was organized on the very first day of their session i.e. on 1st Aug, 2018. In this Dr. A. M. Ittadwar welcomed all students and congratulated their parents. He with the faculties of B. Pharm I Year guided students on general code of conduct and other details. Mrs. M. K. Bhurchandi and Dr. S. K. Tilloo coordinated the event.

Freshers Party

Freshers party was organized for a formal welcome of newly admitted students of B. Pharm I Year, B. Pharm II year (direct admitted) and M. Pharm first year in college auditorium by B. Pharm II and M. Pharm II year students on 9th Sep, 2019. In this event new comers introduced themselves to the audience and also group activities and games were arranged for them. Entertainment activity by B. Pharm II year students was also performed in this event. Students with best performance were awarded with Mr. Fresher and Ms. Fresher. The event was coordinated by Mrs. M. K. Bhurchandi in association with Mrs. S. A. Ubgade and Mr. D. P. Dharkar.

Teachers Day Celebration

Students expressed their sincere gratitude towards their teachers by organizing teachers day on 5th Sep, 2019. Teachers were welcomed with flowers and Dr. A. M. Ittadwar addressed students about importance of teachers in life and history of Teachers Day. All the faculty members expressed their views on this occasion. In the end cake was cut at the hand of Principal Dr. A. M. Ittadwar in presence of all faculty members. Mrs. M. K. Bhurchandi in association with Mrs. S. A. Ubgade and Mr. D. P. Dharkar look after the event for smooth conduction.

Digvijay Divas Celebration

125th anniversary of the day on which Swami Vivekanand delivered a world famous speech at the parliament of world's religion in Chicgo was celebrated as Digvijay Divas in college auditorium on 11th Sep, 2018.

The program started with traditional lamp lighting by Dr. A. M. Ittadwar. Mr. S. R. Manapure delivered a speech on 'life of Swamiji from childhood to enlightenment and contribution of him to Indian society' followed by recitation of Swamiji's speech. Mr. S. R. Manapure coordinated the event.

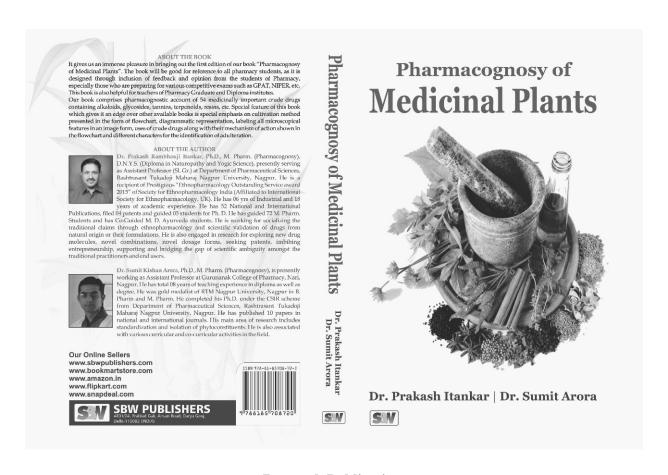
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RESEARCH & DEVELOPMENT ACTIVITIES

Book Publication

Dr. Sumit Arora and Dr. Prakash Itankar published first edition of their book "*Pharmacognosy of Medicinal Plants*". The book will be good for reference to all pharmacy students, because it is designed through inclusion of feedback and opinion from the students of Pharmacy, especially those who are preparing for various competitive exams such as GPAT, NIPER, etc. This book is also helpful for teachers of Pharmacy Graduate and Diploma institutes.

The book comprises of pharmacognostic account of 54 medicinally important crude drugs belonging to the categories of alkaloids, glycosides, tannins, terpenoids, resins, etc. Special feature of this book which gives it an edge over other available books is special emphasis on cultivation method presented in the form of flowchart, diagrammatic representation labelling all microscopical features in an image form, uses of crude drug along with their mechanism of action shown in the flowchart and different characters for the identification of adulteration.



Research Publications

- Nidhi Sapkal, Anwar Daud. Oral Thin Films: Novel Manufacturing Technology & Its Challenges.; Drug Delivery. 2018; Issue 89: 66-68.
- Mitali M. Bodhankar and Shubham Chikhale. Various approaches towards enhancement of bioavailability of Curcumin-A potent Phytochemical, World Journal of Pharmaceutical Research. 2018, 8 (1), 606-626.
- M K Bhurchandi, A M Ittadwar, J G Chavan; 'Sub chronic exposure to Radio frequency electromagnetic radiation affects the biochemical, physiological, behavioral functions: A Review.' International Journal of Pharmacy and Pharmaceutical Research. September 2018 Vol.: 13, Issue: 2. 166-183.
- Tirupati Rasala, Shivani Dani, Shekhar Waikar, Abhay Ittadwar; 'Formulation and Evaluation of Aloe Vera Gel and Film from Fresh Pulp of the Leaves of Aloe Barbadensis.' American Journal of Pharmacy and Health Research 2018, 6 (11), 1-9.
- **Sumit Arora**, Prakash Itankar. 'Extraction, isolation and identification of flavonoid from *Chenopodium album* aerial parts.' Journal of Traditional and Complementary Medicine 2018 8; 476 -482.

Presentations

- Priya Dule, Vaishali Kilor, Nidhi Sapkal, Minal Bonde, Anwar Daud; Development of PEO drug loaded filaments using Hot Melt Extruder for 3D printing of pharmaceuticals presented poster at Young Scientist Conference held during India International Science Festival held at Lucknow during 5th to 8th Oct, 2018.
- Priya Dule, Vaishali Kilor, Nidhi Sapkal, Minal Bonde, Anwar Daud. Preparation and evaluation of drug loaded polymer filaments for 3D printing of tablets. Presented poster at NBRcom -2018, held at Rishikesh on 15th Oct, 2018.
- Vinita Kale, Pooja Yadav, Shalakha G. Sahare, Rajat S. Pahwa*, A.M. Ittadwar; Chewable lozenges formulation for alertness during driving; presented poster at National Conference On Integrative Approach Towards Ayurved Practice (29th 30th Sep 2018).
- Vinita Kale, Rohini Rakshak, Pradeep Dugane; Modified starch as film forming material for pharmaceutical/cosmetic application; presented poster at International Conference On Multifunctional Advanced Material Icmam-2018, organized by Kamla Nehru Mahavidyalaya, Nagpur and Dharampeth M. P. Deo Memorial Science College, Nagpur held at Kamla Nehru Mahavidyalaya, Nagpur during 5th to 7th October, 2018
- Vinita Kale, Shubhangi Mohije, Ashish Zanvar; Development of Chitosan-Gelatin composite as film forming excipient presented poster at International Conference On Multifunctional Advanced Material Icmam-2018, organized by Kamla Nehru Mahavidyalaya, Nagpur and Dharampeth M. P. Deo Memorial Science College, Nagpur held at Kamla Nehru Mahavidyalaya, Nagpur during 5th to 7th October, 2018

Guest Lecture Delivered/ Resource Person

- **Dr. Nidhi Sapkal** on "Advances in New drug delivery systems" in NIMACON-2018 organized by Indian Medical Association, Nagpur on 20thOct, 2018
- **Dr. Nidhi Sapkal** delivered a guest lecture on topic "How to make diploma holders employable?"In MSBTE sponsored QIP program at JLC College of Pharmacy, Nagpur on 25thOct, 2018.
- **Dr. Nidhi Sapkal** delivered a guest lecture on "Levocetirizine oral thin films: Benefits over existing products". In CME program of Medical Practitioners jointly organized by CBS Global Pharma and Zim Laboratories Limited in Hotel Ambassador, Tbilisi, Georgia on 17th Nov, 2018
- **Dr. Subhash R. Yende** participated as chairperson of paper presentation competition in National Conference on Integrative Approach towards Ayurveda Practice (NIMACONF-2018) held at Hotel Naivedyam Nagpur organized by NIMA Nagpur and Bhausaheb Mulak Ayurvrda College and research center, Butibori, Nagpur during 29th -30th Sep, 2018.
- **Dr. Mitali M. Bodhankar** Delivered a seminar on "Business/ Entrepreneurial opportunities in Pharmaceutical field" in Entrepreneurship development program organized by Smt. Kishoritai Bhoyar College of Pharmacy, Kamptee (3-31 Dec, 2018) on 10th Dec, 2018.

Seminar/workshop/SDP/QIP/ Training program attended

- **Dr. Vaishali A. Kilor** participated in TEQIP workshop on "3D Printing in Medicine" organized at IIT, Hyderabad on 16^t-21Jul, 2018.
- Mrs. Shobha A. Ubgade attended three days deminar on hands on training for HPTLC based on phytopharmaceuticals and natural products analysis organized by Priyadarshini J. L. chaturevedi college of pharmacy from 9-11 Aug, 2018.
- **Dr. Nidhi Sapkal** attended pharma expo CPHI Worldwide held at Madrid on 9-11 Oct, 2018
- Dr. Nidhi Sapkal attended pharma expo CPHI India, held at Greater Noida on 12-14 Dec, 2018
- **Dr. Mitali M. Bodhankar** Attended a one day seminar "Nagpur start up fest" on 6th october 2018, held at Kavivarya Suresh Bhat Sabhagruha, Reshimbagh, Nagpur organised by Indian Council For Technical Reasearch And Development.
- **Dr. Mitali M. Bodhankar** Attended one day Skill development program in Dr. G.M. Taori Central India Institute of medical Sciences.

Technical Article by Student

Digitalized Healthcare At Your Fingertips- Mobile Phone Apps

Mr. Tanay shahu
B.Pharm III Year

In today's era of globalization, we are living in electronic age. There are a lot of new technologies invented which have madeour life simple and easy going. Mobile phone is a revolutionarystep in the field of telecommunication. The greatest advantage of the mobile phone is that it can be used anywhere, anytime. the world has become a smaller place with everything at your fingertips. Withthe advent of healthcare apps it is easy to reduce the distance between patient and doctor through online consultation. It is easy for husband to take care of pregnant wife with help of app which provides information about pregnancy. It is easy for the busy working woman tokeep track of her periods. it is easy to keep track of your health through diet informative apps, Fitness apps etc. The encyclopaedia of healthcare is just a click away.

Different Smartphone Applications

1. 1 mg- Medicines, tests & consultation

1 mg app is one of the app which assists common people to search medicines at lowered priced medicine substitutes and save up to 90%. Generics are an effective therapeutic alternative to branded medications and can offer a 30% to 80% cost cutbacks. In the ongoing battle to contain rapidly escalating healthcare costs, switching from brand-name to generic drugs can helppatients dramatically lessen their expenses. The app offers othermedicine information like treatment uses, side effect, safety and suggestion and answers topatient.

https://play.google.com/store/apps/1mg

2. PRACTO-Book doctor's appointment online

Who knew there would be a day where we would be booking doctor appointments online? This app helps you get doctor appointments, bookdiagnostic tests and order medicines online. It also helps you take careof yourself better by getting an online consultation. https://play.google.com/store/appss/practo

3. ASTHMATRACKER

Asthmatracker is an app which tackles asthma by actively tracking asthmaof the patient and related symptoms in details and by efficientlymanaging the patient's medication according to their symptoms up-to-date record by making it easy to track the peak flow values and by patient's medication intake. This app also reminds the patient totake daily based medication and to trace the indications.

https://play.google.com/store/appss/asthamatracker

4. DIABETES:M

Diabetes is a chronic and widespread disease in the wholeworld. Management of diabetes is a task. So, here's an app tomake it all easy whether you are type 1 or type 2 diabetes havegestational diabetes or just want to help and monitor a familymember or friend this is the logbook for you. This app tracks all aspects of treatment and provides with a detailed report it also hasan insulin bolus calculator and can analyse data from glucometers and insulin pumps. It also helps you take care of food intake and nutrition as well as exercise.

https://play.google.com/store/appss/diabetes:m

5. MY CALENDER-Period tracker

Period Calendar is an extremely chic and easy-to-use applicationthat helps women keep track of periods, cycle, ovulation, and fertiledays. The app helps the women about conceiving, birth control, contraception or regularity of period cycles. It also helps to trackirregular periods, weight, temperature moods, blood flow.

https://play.google.com/store/appss/mycalender

6. FOODUCATE-Calories counter

This app counts all the calories present in food and will give a categorized breakdown of contents in food consumed or presence in packaged food. Also, if unhealthy food is consumed it will suggest healthier options. The app helps all those food enthusiasts.

[II]

https://play.google.com/store/appss/fooducate

1. HEADSPACE: Learn to meditate

This appprovides a personal meditation guide which is readily accessiblealong with hundreds of themed sessions on everything fromstress to sleep. For busy people it provides bite-sized guides for meditation. https://play.google.com/store/appss/headspace

News from Entrepreneurship Development (ED) Cell:

Guest Lecture on Entrepreneurship and Management Mantras to be implemented in Business



Ms. Swaima Ahmad, a good orator and an influential personality delivered a guest lecture on Entrepreneurship and Management Mantras to be implemented in Business, taking into consideration the Mumbai Dabbawalas.

In her address she insisted on business communication skills and basic management fundamentals and how to master them. She explained importance of advertisement, complementary services and changing

business plans. She said everyone must think of value he/she wants to create in society. She further insisted on self MBA to be done in areas of Volume Creation, Right

branding/marketing, Sales, Value Delivery and Finances

Students well received her words and the event was coordinates by Dr. M. M. Bodhankar and Mr. S. R. Manapure

Awareness Program on Government Policies about Women Entrepreneurship

An awareness program on changed Maharashtra State Government Policies about Women Entrepreneurship was undertaken on 8th Dec, 2019. A detailed information of capital grant, interest rates, subsidies, marketing benefits for micro, small and medium enterprises of various lucrative schemes under skill development were introduced by Dr. M. M. Bodhankar to the students of Entrepreneurship development cell of the college especially from B. Pharm III and B. pharm Final Year. Brief aspects of all benefits were also discussed in a program on 15th Dec, 2019 by Maharashtra Centre of Entrepreneurship Development (MCED) and Vidarbha Industries Association (VIA). Dr. M. M. Bodhankar and Mr. S. R. Manapure coordinated the events.



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GURUNANAK COLLEGE OF PHARMACY

(NAAC Accredited)

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