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3.2.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year.

Session: 2023-2024

Sl. No.	Name of the teacher	Title of the book/chapters published	ISBN Number	Name of the publisher	Page No.
1	Dr. Vivek Keshri	Industrial Pharmacy-II	978-93-94882-31-7	Sarthak Publisher	1-2
2	Mr. Sachchidanand Pathak	In silico pharmacology	978-0-323-99137-7	Academic Press ELSEVIER	3-4
3	Dr. Vivek Keshri	Pharmaceutical biotechnology	978-81-964634-0-3	Gyan publication	5



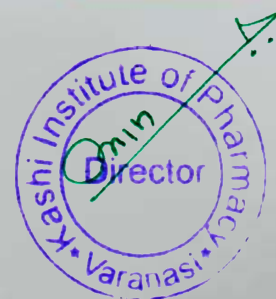


B. PHARM.
TEXT BOOK

According to the
Latest Syllabus & Pattern
of Bachelor of Pharmacy
(B. Pharm.)

Industrial PHARMACY-II

SEMESTER-VII



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Strictly According to the Latest PCI Syllabus of
Bachelor of Pharmacy (B. Pharm)

INDUSTRIAL PHARMACY-II

(Course Code : BP 702 T)

For Semester-VII (Fourth Year) Bachelor of Pharmacy
(B.Pharma)

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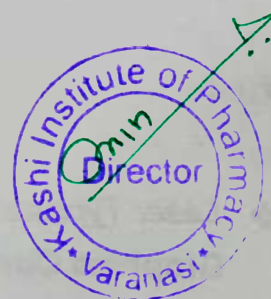
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Abstract



Computational Approaches in Drug Discovery, Development and Systems Pharmacology

2023, Pages 1-52



Chapter 1 - In silico pharmacology

Sachchidanand Pathak ^{a,f}, Anurag Mishra ^b, Ganesh Sonawane ^c, Kajal Sonawane ^c, Sarita Rawat ^{d,f}, Abhay Raizaday ^g, Santosh Kumar Singh ^e, Gaurav Gupta ^e

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Abstract

It has been a primary focus over the last 50 years to develop computational approaches for predicting the various pharmacodynamic (PD) and pharmacokinetic (PK) characteristics that characterize the interplay of medications with biomolecules. When it comes to in vitro drug testing, computational models have been utilized to identify and test many of the most significant biological targets in a short period. Most often, in

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CHAPTER 1

In silico pharmacology

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1 Introduction to in silico studies

In the drug development process, it is crucial to assess the medication's potential toxicological risk as quickly as feasible to save time and money. A wide range of in vivo and in vitro methods are used to evaluate a drug candidate's toxicological risk. Many alternatives in silico techniques for toxicity estimation have been developed since the 1970s. In silico approaches have been established and are extensively employed to develop and evaluate pharmacological hypotheses. Databases, quantitative structure-activity relationships (QSARs), molecular search engines, homology models, machine learning, and many more software programs are all used in digital simulation, also known as computer-based modeling. Computational pharmacology (also called computational therapeutics or in silico) refers to an extremely expansive discipline that focuses on developing new software tools to extract, analyze, and integrate the data produced by biological and medical experiments [1,2].

In silico techniques relate to methods or predictions that use computational methodologies. It is a computer component known as silicium that is referred to by the phrase in silico. The speed and high throughput of in silico methods allow for the rapid prediction of a huge number of molecules. An in silico experiment is carried out on a computer or through computer simulation in bioscience and another experimental discipline. In silico medical research can accelerate the speed of findings while eliminating the necessity for costly lab, labor, and clinical trials. One approach to accomplish this is to increase the efficiency with which drug candidates are produced and screened [3–5].

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B. PHARM Sixth Semester

According To The New Syllabus
as Prescribed by: Pharmacy Council of India

PHARMACEUTICAL BIOTECHNOLOGY

Dr. Vivek Keshri | Amol Tanaji Ubale
Dr. Anupam Singh Bhadouriya | Dr. Pratyush Jain
Sarika J. Patil



Dr. Vivek Keshri

Dr. Vivek Keshri has completed his B.Pharm from **Biju Patnaik University of Rourkela, Odissa**; M.Pharm (Pharmacology) with **Distinction** from **Annamalai University, Chennai, Tamilnadu** and Ph.D from **Shri J.J.T. University, Jaipur Rajasthan**. He is having an experience of **12 years** in Academics, Research and Administration. He has published 8 national and international research/ review papers. He has actively participated in 10 national and international Conferences. **Currently he is working as an Associate Professor at Kashi Institute of Pharmacy, Varanasi (U.P.)**. He is keenly interested in research on Herbal medicine, Pharmacological screening, Anti-osteoporotic Drugs and Phytochemistry.



Amol Tanaji Ubale

Amol Tanaji Ubale presently working as **Principal** at **SDNCRES Mahalaxmi Institute of Pharmacy (D.Pharm) Raigaon, Satara Maharashtra**. He has completed his Master of Pharmacy (Q.A.) from Shivaji University Kolhapur. He is pursuing his PhD in JJT University Rajasthan. He has 10 years of Academic experience. His research interests include nanoparticles & herbal formulations. He also applied for patents in India & South Africa. He also worked as evaluator for state level poster presentation competitions. He is life Member of Association of Pharmaceutical Teachers of India. He has published 3 research papers & 10 Review articles in reputed journals. His book PHARMACIST PRACTICAL TRAINING REPORT BOOK as per PCI ER 2020 is also published for D.Pharm Students. He is editorial board member in journal Biomedical Review. He is a Member of the Referral/Review Management System of the Esteemed TIJER- International Research Journal.



Dr. A. S. Bhadouriya

Dr. Anupam Singh Bhadouriya is an accomplished author of pharmacy books, with a Ph.D in Pharmaceutical Science and several patents to His name. He has over 10 years of experience in the pharmacy field, with a focus on drug discovery and development. He has served in various leadership roles. He has been writing books for over 10 years, and he specialize in Pharmaceutics and drug information. His books are designed to help pharmacists, pharmacy technicians, and health care professionals understand and apply the principles of pharmacy and drug information. His books provide comprehensive coverage of topics ranging from basic pharmacology and drug information to more advanced topics such as drug interactions and pharmacotherapeutics. He also provide an in-depth look at the history of pharmacy, the development of drug information, and the current state of pharmacy practice. His books have been praised by pharmacists and health care professionals alike for their accuracy, detail, and up-to-date information. He is proud to be an author of pharmacy books and he hope to continue to provide the best and most up-to-date information for health care professionals.



Dr. Pratyush Jain

Dr. Pratyush Jain is currently working as **Principal** and **Professor** at **R.K.D.F. Polytechnic Pharmacy, Bhopal (MP)**. He has done his D. Pharmacy from S.J.M. college of pharmacy, chitradurga (Karnataka). B. Pharmacy and M. Pharmacy (pharmaceutics) from R.K.D.F. college of pharmacy Bhopal, (M.P.), PhD. from Sarvepalli Radhakrishnan University Bhopal, (M.P.) He has awarded excellence in education research and innovations given by research innovations foundation. He has rich experience in academia, research and education administration for more than 13 years he has guided 05 doctorate research scholar and more than 30 post graduates students. He has published more than 15 research/review articles in various national and international journals of repute. Has more than 12 abstract in various seminar and conferences. He has also attended more than 50 seminar /conferences /workshop in various national /international levels. **Dr. Pratyush Jain** has also published 01 book. He is life time member of **APTI** and registered pharmacist in mp state pharmacy council.



Sarika J. Patil

Sarika J. Patil (M. Pharm) is currently working as a **Ph.D. research scholar** at **Krishna Vishwa Vidyapeeth, Karad**. She has 14 years of teaching and research experience. She has published 10 research and review articles in various reputed journals and owned 3 copyrights. She has worked as an NBA coordinator. Also delivered guest lectures on carrier opportunities for diploma students. She has worked as a judge for various state-level poster and paper presentation competitions.



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B. Pharm Sixth Semester **PHARMACEUTICAL BIOTECHNOLOGY**

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