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Number of Books and Chapters In Edited Volumes/Books Published and Papers Published In National/ International Conference Proceedings

Sl. No.	Name of The Teacher	Title of The Book/Chapters Published	Title of The Paper	Title of The Proceedings of The Conference	Calendar Year of Publication
1	Sachchidanand Pathak	In silico pharmacology	NA	NA	2023
2	Dr. Vivek Keshri	Pharmaceutical biotechnology	NA	NA	2023
3	Sachchidanand Pathak	Microbiome in Idiopathic pulmonary fibrosis	NA	NA	2022
4	Sneha Yadav		Studies on the antidiabetic and antihyperlipidemic activity of prunusdulcis seed extract in streptozotocin induced diabetic rat	Emerging trends in nanotechnology and biotechnology	2022
5	Sachchidanand Pathak		Chronoc toxicity study of temazepam on rat	Emerging trends in nanotechnology and biotechnology	2022
6	Sachchidanand Pathak		GYMNEMA SYLVESTRE, NEUROPROTECTIVE EFFECT IN ALLOXAN INDUCED DIABETIC NEUROPATHIC IN ALBINO RATS	Fostering high quality clinical researchfor a healthier world	2022
7	Sneha Yadav		STABILITY STUDIES AND ITS CONSIDERATION IN DRUG PRODUCT DESIGN: AN UPDATED REVIEW	Fostering high quality clinical researchfor a healthier world	2022
8	Ms. Riya Singh		Science Models	National Pharmacy Week	2022
9	Mr. Prateek Mishra		Up-cycled Art	National Pharmacy Week	2022
10	Ms. Prachi Rai		How to prepare Pla Card	National Pharmacy Week	2022
11	Mr. Dheeraj Dubey		Pharmacy Trusted for your Health	Pharmacist Day	2021
12	Ms. Priyanka Keshari		Pharmacist: A Profession of notion and trust	Pharmacist Day	2021



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].

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.



GYAN PUBLICATIONS

978819646340-3

ISBN : 978-81-964634-0-3



9 788196 463403

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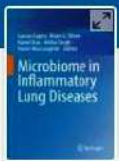
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Microbiome in Inflammatory Lung Diseases pp 227–239 | [Cite as](#)

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Microbiome in Idiopathic Pulmonary Fibrosis

[Sachchidanand Pathak](#), [Anurag Mishra](#), [Gaurav Gupta](#), [Abhay Raizaday](#), [Santosh Kumar Singh](#), [Pramod Kumar](#), [Sachin Kumar Singh](#), [Neeraj Kumar Jha](#), [Dinesh Kumar Chellappan](#) & [Kamal Dua](#)

Chapter | [First Online: 26 March 2022](#)

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Abstract

It is believed that Idiopathic Pulmonary Fibrosis (IPF) is an age-related chronic, progressive, and histopathologically associated fibrosing interstitial lung disorder which primarily affects the elderly. Despite tremendous progress in our knowledge of pathophysiology of diseases, we still do not know the possible causes of IPF. According to current research evidences, it is proposed that IPF may develop genotype as a result of repeated alveolar damage causing an

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these results were similar to those previously reported for oxazepam although meaningful effects on neoplasia did not regard to human safety evaluation.

Studies on the Anti-diabetic and Anti-hyperlipidemic activity of Prunusdulcisseed extract in streptozotocin induced diabetic rats.

Sneha Yadav

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Amygdaline is naturally occurring chemical compound, it also known as laetrile or vitamin B17 Best known for being falsely promoted as a cancer cure. Amygdaline is a bitter substance and most found in the seed of apples, apricots, peaches, bitter almond and plums. In Indian cultural system of medicine, the herbal remedies are prescribed for the treatment of various diseases including diabetes mellitus. In recent year plant are being effectively tried in a variety of pathophysiological state, Bitter Almond is one of them. PDWA extract is prepared by sox halation extraction process with 50% of ethanol and characterized by High Performance Thin Layer Chromatography and Infra-Red Spectroscopy. Non-insulin dependent diabetes mellitus was induced in Wister albino rats by intraperitoneal administration of streptozotocin(60mg/kg). At the end of experiment period of 21 days' reduction in the fasting blood glucose level, serum insulin, serum lipid parameter and renal function biomarker were estimated in the controlled and treated rats. PDWA extract were given (250mg/kg and 500mg/kg) orally for the duration of 21 days as per protocol oftreatment. Blood glucose level and various biochemical parameters were measured by glucometer and respective diagnostic kit. Such as cholesterol, triglyceride, LDL, HDL, VLDL and antioxidant parameter by using diagnostic kits.On administration of PDWA seed extract, studied blood glucose level of animal showed a significant decrease ($P<0.001$) in elevated blood glucose level along with biochemical parameter it shows significant to antihyperlipidemic activity and Antioxidant effects. The result showed promising effect of PDWA seed extract treatment as compared to treatment with the standard drug Metformin for Antidiabetic.

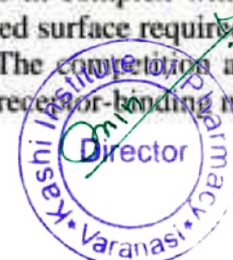
A broadly neutralising monoclonal antibody overcomes antigenic shift of b.1.1.529 bytargeting a new site of vulnerability on sars-cov2 receptor binding domain

¹Sonal Garg, ^{1,2}Rajesh kumar

¹Translational health science and technology institute, NCR Biotech Cluster, Faridabad

²Institute of Advanced Virology, Bio 360 Life Science Park, Thiruvananthapuram

SARS-CoV-2 epidemic control is challenged by the development of viral variants that are more proficient in transmission, resistant to commercially available therapeutic antibodies, and less susceptible to vaccine-induced immunity. In this study, we isolated two highly potent and broadly neutralising murine monoclonal antibodies having picomolar neutralising efficacy against SARSCoV-2 and its variants of concerns (VOCs) reported so far. Structural characterization of P4A2 Fab in complex with the receptor-binding domain (RBD) defined a, substantially overlapped surface required for human angiotensin converting enzyme-2 (hACE2) interaction. The competition assay revealed that these two mAbs target overlapping epitopes on the receptor-binding motif





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Chronic toxicity/carcinogenesis study of temazepam in mice and rats

Sachchidanand Pathak

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The benzodiazepine temazepam was given to rats for 1 years in the diet at dosages of 10, 40, and 160 mg/kg day. An 12-month study was performed in Charles River CD-1 mice via dietary admixture at dosages of 10, 80, and 160 mg/kg/day. Mean body weights were significantly decreased for high dose rats of both sexes from Treatment Week 39 until termination. All drug treated male groups had a higher rat of mortality when compared to the male control groups, primarily due to deaths occurring between 8 to 12 months. Compound-related hepatic lipidosis accompanied by an increase in liver weights was observed at the high dose level in the 6- and 10-month and terminal sacrifices, as well as the middle dose level at the 10-month interim sacrifice. No evidence was found of compound induced carcinogenicity at any time period. Mortality for male mice was significantly higher in the two higher dose groups; this resulted from bite wounds associated with a drug-related increase in fighting behavior. An isolated finding of borderline statistical significance ($p = 0.0556$) was noted for hepatocellular adenomas in high dose female mice at the 11-month terminal sacrifice. This incidence is well within the reported historical control range (0–14%). Minimal hepatoproliferative (hyperplastic nodules) and vascular effects (telangiectasis) were seen in the high dose male and female mice at the 11-month terminal sacrifice. Thus,



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