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3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years.

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3.3.2 List of chapter/books along with the links redirecting to the source website

Sr. No.	Name of the Teacher	Title of the book/chapters published/edited	Year of publication	ISBN number of the proceeding	Name of the publisher with link
1.	Ms. R. R. Shah	Communication Skill	2021	ISBN 978-81-947993-37	Technical Publication Pune https://technicalpublications.in/collections/pharmacy/products/9788194799337-1
2.	Mrs. P. R. Adnaik	Pharmaceutical Chemistry	2023	ISBN 978-81-967701-6-7	Brilliant Publication House
3.	Dr. R. S. Adnaik	Human Anatomy and Physiology	2023	ISBN:978-81-967701-1-2	Brilliant Publication House
4.	Ms A. A. Varne	Concept Of Novel Drug Delivery System (NDDS) And Future Approaches	2023	ISBN:978-93-6252-647-2	Futuristic Trends in Pharmacy & Nursing https://www.iipseries.org/searching.php?type=title&key=Concept%20Of%20Novel%20Drug%20Delivery%20System%20(NDDS)%20And%20Future%20Approaches#resultsection

CONFERENCE PROCEEDING

Sr. No.	Name of the Teacher / Student	Title of the paper	Year of publication	Name of the publisher with link
1.	Ms.P.S.Gavarkar Ms.R.S.Chavan	CURRENT REVIEW ON PHARMACOLOGICAL ACTIVITIES OF CITRULLUS COLOCYNTHIS (FRUIT, ROOT & SEED)	2022	International Journal of Pharmacy and Pharmaceutical Research https://ijpr.humanjournals.com/wp-content/uploads/2022/10/1.-CURRENT-REVIEW-ON-PHARMACOLOGICAL-ACTIVITIES-OF-CITRULLUS-COLOCYNTHIS-FRUIT-ROOT-SEED.pdf
2.	Ms.R.R.Shah Mr.A.Khedekar	An Overview on Ajwain	2022	International Journal of Pharmacy and Pharmaceutical Research https://ijpr.humanjournals.com/wp-content/uploads/2022/10/4.-AN-OVERVIEW-ON-AJWAIN.pdf
3.	Ms.A.A.Varne Mr.V.M.Chothe	A Review on Action of Phytochemicals on Protease Enzyme as Antiviral Agents	2022	International Journal of Pharmacy and Pharmaceutical Research https://ijpr.humanjournals.com/wp-content/uploads/2022/10/5.-A-Review-On-Action-Of-Phytochemicals-On-Protease-Enzyme-As-Antiviral-Agents.pdf
4.	Ms.A.A.Varne Mr.R.S.Mane	A Systematic Review on Chemical Actives from Natural Sources for Cancer Treatment	2022	International Journal of Pharmacy and Pharmaceutical Research https://ijpr.humanjournals.com/wp-content/uploads/2022/10/6.-A-SYSTEMATIC-REVIEW-ON-CHEMICAL-ACTIVES-FROM-NATURAL-SOURCES-FOR-CANCER-TREATMENT.pdf
5.	Mr.R.S.Adnaik Ms.P.S.Ghorpade	A Systematic Review on Nephroprotective Plants	2022	International Journal of Pharmacy and Pharmaceutical Research https://ijpr.humanjournals.com/wp-

				content/uploads/2022/10/7.-A-SYSTEMATIC-REVIEW-ON-NEPHROPROTECTIVE-PLANTS.pdf
6.	Ms.R.R.Shah Ms.S.N.Shah	Formulation And Evaluation of Piper Betel Leaf and Trachyspermum Ammi Leaf Foot Spray.	2022	International Journal of Pharmacy and Pharmaceutical Research https://www.ijprjournal.com/wp-content/uploads/2022/10/10.-Formulation-and-Evaluation-of-Piper-Betel-leaf-and-Trachyspermum-ammi-Leaf-Foot-Spray.pdf
7.	Mr.S.Salokhe Mr.V.Varpe	Magnetic Nanocarriers as A Potential Targeted Therapeutic Drug Delivery System	2022	International Journal of Pharmacy and Pharmaceutical Research https://www.ijprjournal.com/wp-content/uploads/2022/10/15.-MAGNETIC-NANOCARRIERS-AS-A-POTENTIAL-TARGETED-THERAPEUTIC-DRUG-DELIVERY-SYSTEM.pdf
8.	Ms.P.S.Gavarkar Ms.R.S.Chavan	Medicinal Plants Used in Rheumatoid Arthritis	2022	International Journal of Pharmacy and Pharmaceutical Research https://www.ijprjournal.com/wp-content/uploads/2022/10/16.-MEDICINAL-PLANTS-USED-IN-RHEUMATOID-ARTHRITIS.pdf
9.	Mr.S.Salokhe Mr.S.Suryawanshi	Review On Artificial Intelligence in Pharmacy and Medicine	2022	International Journal of Pharmacy and Pharmaceutical Research https://www.ijprjournal.com/wp-content/uploads/2022/10/23.-REVIEW-ON-ARTIFICIAL-INTELLIGENCE-IN-PHARMACY-AND-MEDICINE.pdf
10.	Ms. P.S.Gavarkar Dr.R.S.Chavan	Lagerstroemia Speciosals	2022	International Journal of Pharmacy and Pharmaceutical Research https://www.ijprjournal.com/wp-content/uploads/2022/10/35.-Lagerstroemia-Speciosa-L.pdf

11.	Ms.R.R.Shah Ms.P.Patil	Post Covid Calamity- Mucormycosis: An Overview	2022	International Journal of Pharmacy and Pharmaceutical Research https://ijpr.humanjournals.com/wp-content/uploads/2022/10/40.-Post-covid-calamity-Mucormycosis-An-overview.pdf
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17.	Ms.P.R.Adnaik Dr.R.S.Adnaik	Novel Innovation of Nanodiamond in Medicine Field	2020	International Journal of Pharmacy and Pharmaceutical Research https://ijpr.humanjournals.com/wp-content/uploads/2020/04/6-NOVEL-INNOVATION-OF-NANODIAMOND-IN-MEDICINE-FIELD.pdf
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21.	Ms.P.R.Adnaik Dr.R.S.Adnaik	Current Review on Herbal Pharmaceutical Binders	2020	International Journal of Pharmacy and Pharmaceutical Research https://ijpr.humanjournals.com/wp-content/uploads/2020/04/12-CURRENT-REVIEW-ON-HERBAL-PHARMACEUTICAL-BINDERS.pdf

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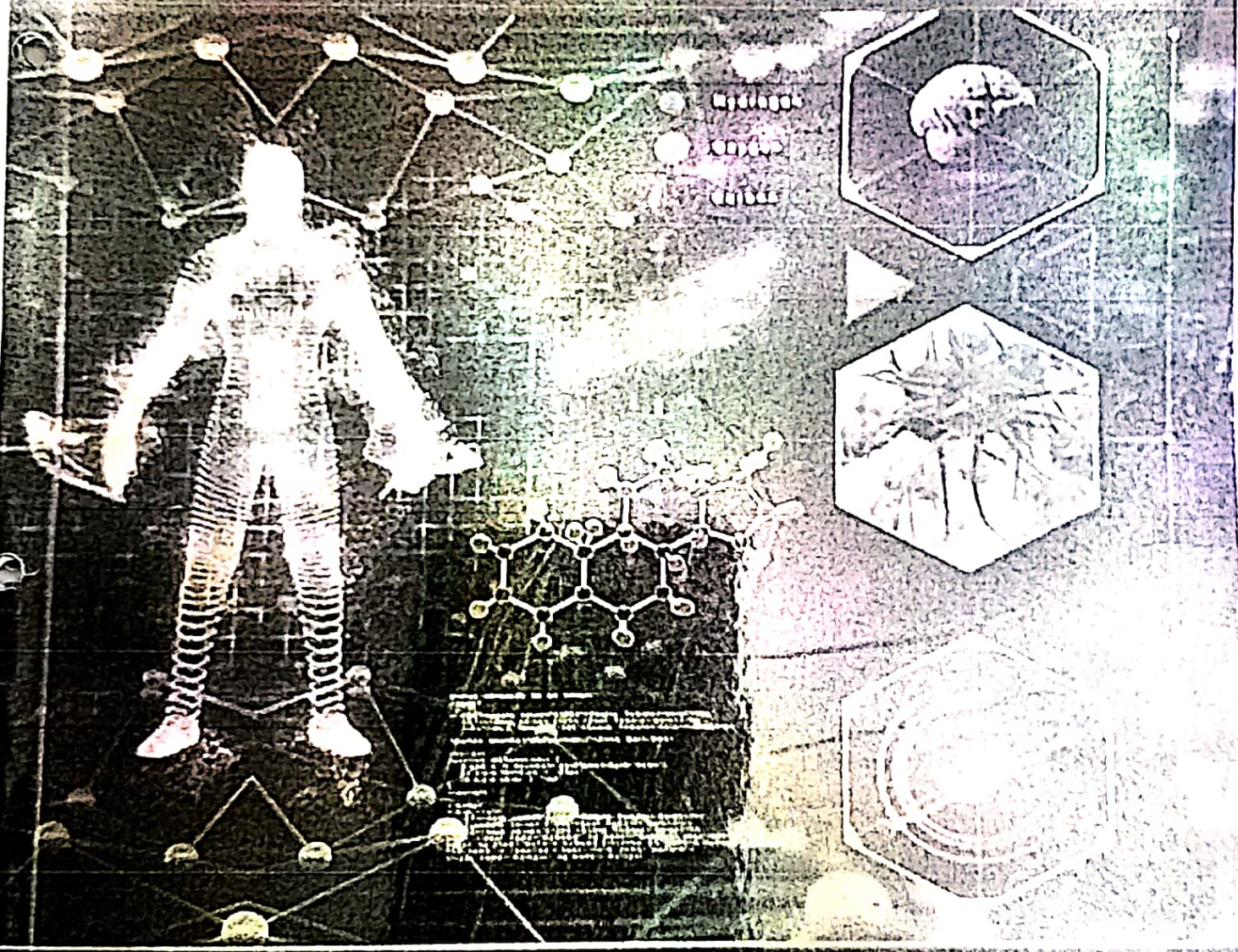
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Authors Profile



Mr. Praful N. Giradkar, a distinguished pharmacy professional. Graduating in 2009, he holds a B.Pharm (2012) and M.Pharm (2024), currently pursuing a Ph.D. at Sardar Patel University. Serving as the Principal at Shri M. S. Kowase College of Pharmacy, Gadchiroli, with 8 years in Diploma in Pharmacy, his impactful contributions span 15+ publications, 25+ conferences, and securing an Indian Patent. A recognized figure, Mr. Giradkar received the "Best Paper Award" in Chhattisgarh and is also an accomplished author with contributions to multiple books, showcasing his dedication to advancing pharmaceutical knowledge.



Dr. Rahul Adnalk, an Associate Professor in Pharmacology at Anand Pharmacy College, Kalambe taluk Kale, Kolhapur, holds a rich academic background. Graduating from Bharati Vidyapeeth College of Pharmacy, Kolhapur, with a B. Pharm and earning an M. Pharm from Appasaheb Birnale College of Pharmacy, Sangli, he completed his PhD at Shivaji University, Kolhapur. With 16 years of teaching and research expertise, he imparts knowledge to D. Pharm, B. Pharm, and M. Pharm students. Dr. Adnalk, a prolific researcher, has numerous publications, 5 book contributions, and 2 Indian patents. Active in academia, he has engaged in 30 conferences and workshops, also serving as a distinguished journal reviewer, affirming his significant role in advancing pharmaceutical knowledge.



Prof. Suraj B. Nanaware, currently serving as the Principal at S.B.N.M. College of Pharmacy, Alani-Dharashiv (Osmanabad), brings an extensive 20 years of experience to the realm of Pharmacy Education. Acknowledged for his innovative contributions, Prof. Nanaware holds 5 plus patents globally. His impactful presence extends to over 20 published research papers and presentations at numerous national and international conferences. A dedicated educator, he has delivered numerous guest lectures on the future prospects and career opportunities in Pharmacy, highlighting his commitment to advancing pharmaceutical knowledge. Prof. Nanaware's wealth of expertise establishes him as a valuable asset in the dynamic field of Pharmacy.



Mr. Chandrakant M. Alone M. Pharmacy (Pharmacology) having 04 years of experience as a teacher in Pharmacy Profession. At present working as an Assistant professor at KVPS's Institute of Pharmaceutical Education, Boradi. Shri. Mr. Alone has published 01 research paper and attend 10 conference and workshop. His extensive experience establishes him as a valuable asset in the field of Pharmacy.

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PREFACE

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In these pages, we'll guide you through the wonders of the human body, from the grandeur of organs to the elegance of cells, presenting a holistic narrative that connects structure to function.

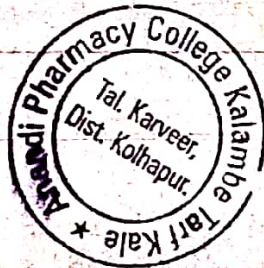
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Clarity and Simplicity: Complex concepts are presented with clarity for easy understanding.

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Whether you're a student navigating coursework or an educator seeking a comprehensive resource, this book aligns with educational standards, making it a valuable companion.

Join us in unraveling the marvels of Anatomy and Physiology. Happy reading!



Mr. Praful N. Giridhar

Mr. Suraj B. Nanaware

Dr. Rahul Adnaik

Mr. Chandrakant Alone

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Pharmaceutical Chemistry

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PREFACE

Welcome to the world of Pharmaceutical Chemistry – a dynamic blend of chemistry, biology, and medicine. This book is your gateway to understanding the fundamental principles and applications that drive the discovery and development of medicinal compounds.

Designed for students, researchers, and professionals in pharmacy and medicinal chemistry, this concise guide covers molecular structures, mechanisms of action, and the stages of drug development. Real-world examples and the latest advancements ensure the content remains both relevant and practical.

Whether you're starting your journey in pharmaceutical sciences or expanding your expertise, this book aims to be your go-to resource. Let it be a source of inspiration, guiding you through the intricate processes that lead to the creation of life-changing pharmaceuticals.

Happy reading!

Mr. Kalpeshkumsar S. Wagh
Mr. Uday Bachhav
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Ms. Mahima Gujarathi



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CONCEPT OF NOVEL DRUG DELIVERY SYSTEM (NDDS) AND FUTURE APPROACHES

Abstract

It is possible to greatly improve the performance of an existing therapeutic molecule by transforming it from its traditional form into a unique delivery method. This can lead to considerable gains in patient compliance, safety, and efficacy. It is possible for an existing drug molecule to be given a new lease on life in the shape of a Novel Drug Delivery System. An correctly designed Novel Drug Delivery System can be a significant step forward in the process of problem-solving when it comes to issues with the release of the drug at a particular site and at a certain pace. Pharmaceutical companies are working on the creation of innovative drug delivery systems because there is a growing demand for medications to be administered to patients in a manner that is both effective and causes fewer adverse effects. This page covers the fundamentals of novel drug delivery systems as well as the various subcategories of such systems.

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**CURRENT REVIEW ON PHARMACOLOGICAL ACTIVITIES OF CITRULLUS
COLOCYNTHIS (FRUIT, ROOT & SEED)****Gavarkar Pratibha S^{*1}, Chavan Rajshri S², Patil Suraj R¹***1. Anandi B. Pharmacy College, Kalambe Tarf Kale, Dist. Kolhapur, India.**2. PDEA's SGR Sable College of Pharmacy, Saswad, Pune, India.***ABSTRACT**

Citrullus colocynthis (L.) Schrad (*C. colocynthis*), often known as Colocynth, is a wild species of the Cucurbitaceae family. The goal of today's research is to look at the phytochemical composition, pharmacological properties, cytotoxicity, and antioxidant activity of various plant elements. Traditional remedies have a higher level of interest as a result of increased health awareness and knowledge of the side effects of synthetic capsules. Medicinal plants provide remedies for a wide range of ailments, as well as basic to advanced living requirements. This has increased demand for herb-based medications by bringing ethnomedicinal studies into the forefront. *Citrullus colocynthis* is an herbaceous plant that contains a variety of nutrients that are important for overall health. in which the anti-diabetic activity is exceptional It appears that more research is needed to evaluate these findings.

Keywords: - *Citrullus colocynthis*, health aspects, traditional uses, herbal medicine



A SYSTEMATIC REVIEW ON CHEMICAL ACTIVES FROM NATURAL SOURCES FOR CANCER TREATMENT

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ABSTRACT

Cancer, a severe metabolic syndrome, is the leading cause of mortality and morbidity worldwide and the numbers of cases are continuously rising. A natural product in chemoprevention is beneficial, because of fewer side effects and low toxicity profile compared to compounds of synthetic origin. In the present review, we summarize natural products with chemo preventive activities against cancer target. We also covered targets of cancer Vascular endothelial Growth factor Receptor (VEGFR), epidermal growth factor receptor (EGFR) and Poly(ADP-ribose) polymerase-I and their mechanism of action. The present review may provide information on the use of these compounds for the prevention of cancer.

Keywords: - Phytochemicals; Chemotherapy; Targets





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A REVIEW ON ACTION OF PHYTOCHEMICALS ON PROTEASE ENZYME AS ANTIVIRAL AGENTS

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ABSTRACT

Recent worldwide outbreaks of viral infections have increased the thirst to discover and introduce antiviral agents to combat it. The bioactive compounds obtained from plant sources, especially flavonoids have protease inhibition activities so these may be most effective for control of viral infections. A natural product used in prevention of viral infection is beneficial, because of fewer side effects and low toxicity profile compared to compounds of synthetic origin. In the present review, we summarize natural products with preventive activities against viral infection. In addition, we also covered conventional therapy used for treating viral diseases with their mechanism of action. The present review may provide information on the use of these compounds for the prevention of viral diseases

Keywords: - Antiviral agents; Protease enzyme; phytochemicals; targets



**A SYSTEMATIC REVIEW ON NEPHROPROTECTIVE PLANTS**

Pragati S. Ghorpade, Shivani S. Khade, Prajakta A. Kamble, Rahul S. Adnaik

Anandi Pharmacy College, Kalambe Tarf Kale, Tal. Karveer, Dist. Kolhapur, India.

ABSTRACT

Nephrotoxicity is one of the most common kidney issues and occurs when body is revealed to a drug or toxin. A numeral of therapeutic agents can adversely act on the kidney resulting in acute renal failure, chronic interstitial nephritis and nephritic syndrome because increasing numeral of potent therapeutic drugs like aminoglycoside antibiotics, chemotherapeutic agents and NSAIDS. Nephroprotective agents are the substances which have protective activity against nephrotoxicity. Because of various complex chemical substances present in medical plants, they have curative properties. This review is concerning the some of the medicinal plants have nephroprotective activity on Cisplatin and Gentamicin produced nephrotoxicity.

Keywords: - Nephrotoxicity, nephroprotective drugs, traditional drugs, cisplatin



**FORMULATION AND EVALUATION OF PIPER BETEL LEAF AND
TRACHYSPERMUM AMMI LEAF FOOT SPRAY****Surabhi N. Shah*, Rutuja R Shah, Anita B. Bishnoi***Anandi Pharmacy College, Kalambe Tarf Kale, Tal. Karveer, Dist. Kolhapur, India.***ABSTRACT**

The most common problem nowadays is related to the Foot odour, which is one of the things that is quite disruptive to appearance. One of the causes of foot odour is the presence of bacteria, especially the bacteria *Bacillus subtilis*. Present work was focused on developing herbal antibacterial foot spray. Presently we have used ethanol extract of Piper betel leaf and *Trachyspermum ammi*, commonly known as khaupan and Ajwain Leaf, as the traditional Indian ayurvedic document describes several of its medicinal properties including as an effective antibacterial agent. The spray form was chosen because of its easy and pleasant use. This study aims to make a foot odor control product in the form of a spray with 3 concentrations of Betel leaf and Ajwain ethanol extract, 0.5%, 1.0% and 1.5% to study the antibacterial activity. The results showed that this ethanolic extract can be formulated into foot spray preparation with the results of the organoleptic examination of the three formulas are clear liquid and yellow slightly green color. This formula had a good appearance, fast-drying, non-greasy and thin coating on the skin surface after application. The pH of the preparation is in the range 5.10-5.92. In formula-3 (F3) with a concentration of 1.5% Betel and Ajwain ethanol extract, it has a strong bacterial inhibition zone with an average inhibition zone diameter of 12.5 mm.

Keywords: - Foot Spray, Ajwain, Odour Control, Betel Leaf

**GREEN SYNTHESIS OF NANOPARTICLES****Rushikesh Chougale, Deepak Durgule, Tushar Patil***Anandi Pharmacy College Kalambe Tarf Kale, Tal. Karveer, Dist. Kolhapur, India.***ABSTRACT**

The nanotechnology and biomedical sciences open the possibility for a wide variety of biological research topics and medical uses at the molecular and cellular level. The biosynthesis of nanoparticles has been proposed as a cost-effective and environmentally friendly alternative to chemical and physical methods. Plant-mediated synthesis of nanoparticles is a green chemistry approach that connects nanotechnology with plants. Novel methods of ideally synthesizing NPs are thus thought that are formed at ambient temperatures, neutral pH, low costs and environmentally friendly fashion. Keeping these goals in view nanomaterials have been synthesized using various routes. Among the biological alternatives, plants and plant extracts seem to be the best option. Plants are nature's "chemical factories". They are cost efficient and require low maintenance. The advantages and disadvantages of nanotechnology can be easily enumerated. This study attempts to review the diversity of the field, starting with the history of nanotechnology, the properties of the nanoparticle, various strategies of synthesis, the many advantages and disadvantages of different methods and its application.

Keywords: - Green Synthesis, Nanoparticles, Eco-friendly



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GREENHOUSE EFFECT AND THEIR IMPACT ON GLOBAL WARMING

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ABSTRACT

The Greenhouse effect is a leading factor in keeping the Earth warm because it keeps some of the planet's heat that would otherwise escape from the atmosphere out to space. The study report on the Greenhouse gases and their impact on Global warming. Without the greenhouse effect the Earth's average global temperature would be much colder and life on Earth as we know it would be impossible. Greenhouse gases include water vapor, CO₂, methane, nitrous oxide (N₂O) and other gases. Carbon dioxide (CO₂) and other greenhouse gases turn like a blanket, gripping Infra-Red radiation and preventing it from escaping into outer space. The clear effect of the greenhouse gases is the stable heating of Earth's atmosphere and surface, thus, global warming. The ability of certain gases, greenhouse gases, to be transparent to inbound visible light from the sun, yet opaque to the energy radiated from the earth is one of the best still events in the atmospheric sciences. The existence of greenhouse effect is what makes the earth a comfortable place for life. The study also reveals the importance of greenhouse gases to the warming of the planet earth.

Keywords: Greenhouse gases; global warming; greenhouse effect; global temperature; atmosphere.





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**IMMUNITY IN MALIGNANCY AND HERBAL DRUGS USED IN
MALIGNANCY**

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ABSTRACT

Cancer is the second major cause of deaths worldwide. Probably 16 million patients will die by the year 2040. But the major problem of cancer patients is their immune system. They do not have better immune power as compared to healthy one. It is very important to study the immune system of cancer patients while cancer is growing inside them. This article mainly focuses on problems and remedies in the immune system while malignancy. It is important to use herbal origin drugs to support immunity of cancer patients and also due to their small possibility of side effects.

Keywords: - *Citrullus colocynthis*, health aspects, traditional uses, herbal medicine



**INSULIN PLANT: *CHAMAECOSTUS CUSPIDATUS*****Shekhar Shahaji Nalawade***Anandi Pharmacy College, Kalambe Tarf Kale, Dist. Kolhapur, India.***ABSTRACT**

Chamaecostus cuspidatus (*Costus igneus* Nak) is commonly known as fiery costus, it is a member of costaceae, and it is a newly introduced plant in India from South-central America. In India, it is known as insulin plant for its purported anti-diabetic properties. The leaves of this plant are used as directly supplement in treatment of diabetes mellitus type -2. It has been proven to possess various pharmacological activities on Anti-diabetic, antioxidant, antimicrobial and anti-cancerous. Present review focuses on the pharmacological activities of *Chamaecostus cuspidatus*.

Keywords: - Insulin Plant, Antidiabetic Activity, Chemical Constituents, Spiral Flag



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**MAGNETIC NANOCARRIERS AS A POTENTIAL TARGETED
THERAPEUTIC DRUG DELIVERY SYSTEM**

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Anandi Pharmacy College, Kalambe Tarf Kale, Dist. Kolhapur, India.

ABSTRACT

Targeted therapeutic delivery system aims to target the therapeutics to the site of action. A number of targeted therapeutic delivery system has been studied for targeting of various drugs but researchers have shown keen interest in magnetic targeting now a days. Magnetic targeted drug delivery, based upon magnetic particles under the action of an external magnetic field, is an effective technique for drug therapy. It is aimed at concentrating drugs at target site, with the help of a magnetic field, to direct the drugs away from reticuloendothelial system. These systems improve the therapeutic efficacy of associated chemotherapeutic agents, by altering their distribution in the body.

Keywords: - Magnetic nanoparticles, Drug delivery, Biomedical applications



MEDICINAL PLANTS USED IN RHEUMATOID ARTHRITIS

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2. Dept. of Pharmaceutical Chemistry, Seth Govind Raghunath Sable College of Pharmacy, Saswad, Tal- Purandar, Dist- Pune, Maharashtra, India.

ABSTRACT

Rheumatoid arthritis is a chronic, inflammatory disorder that can affect numerous tissues and organs, but predominantly attacks synovial joints. The activity develops an inflammatory response the sheath around the joints and the inflammation of synovial cells. The aim in this review is to assemble all obtained data on anti-arthritis activity of plants and natural products. Different plant species have been recognized as active services of phytochemicals with anti-arthritis properties.

Keywords: - Rheumatoid arthritis, anti-arthritis activity, herbal plant, inflammatory



**OVERVIEW ON CLINICAL TRIALS****Patil Amit Ashok, Patil Shweta Dhulagonda, Shirdhone Shradha Dilip***Anandi Pharmacy College, Kalambe Tarf Kale, Kolhapur, India.***ABSTRACT**

In the current review, we have focused the introduction, multidisciplinary nature of clinical trials, different phases of clinical trials, applications of clinical trials. In that have focused on principle of trials development, human element, multidisciplinary nature of clinical trials etc. Clinical research is an important part of drug discovery process to ensure the safety and efficacy of any new drug. In today's global scientific era, clinical trials are the compulsory for bringing newer and better drugs to market. India stood as global hub for clinical trials in past years due to various factors.

Keywords: - Clinical trial, preclinical studies, phases, clinical research

**PHARMACOVIGILANCE: A KEY FOR DRUG SAFETY AND MONITORING**

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*Anandi Pharmacy College, Kalambe Tarf Kale, Dist. Kolhapur, India.***ABSTRACT**

Pharmacovigilance idea given by the global Health Organization (World Health Organization) because the science and series of activities about the detection, evaluation, understanding rejection of adverse impact and a clinical test could be an analysis study in human volunteers to answer specific health queries. The aim of pharmacovigilance is to improve patient care and safety in relation to the use of medicines and all medical and paramedical interventions. They detect problems related to the use of medicines and communicate the finding in a timely. The Pharmacovigilance has been recognizing to play a crucial role in the rational use of the drug by providing data concerning the adverse impact. The information of Adverse Drug Reaction (ADRs) is often increased by numerous suggests that such information studies, intensive observation, spontaneous reportage and different new method at dictatorial and scientific level square measure being developed with the intention of step-up Pharmacovigilance. As a result of assessment strategies are not entirely void of individual judgments, integrator dependence is often low. In conclusions, there's still no methodology universally accepted for casualty assessment of ADRs.

Keywords: - Adverse Drug Reaction, Clinical test, Pharmacovigilance, Treatment



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REVIEW ON ARTIFICIAL INTELLIGENCE IN PHARMACY AND MEDICINE

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Anandi Pharmacy College, Kalambe Tarf Kale, Dist. Kolhapur, India.

ABSTRACT

Artificial Intelligence (AI) is a stream of science related to intelligent machine learning, mainly intelligent computer programs, which provides results in the similar way to human attention process. Recently, AI technology becomes a very fundamental part of pharmaceutical industry for the useful applications in many technical and research fields. There are two key classes of AI technology developments. The first one comprises the conventional computing methodologies including expert systems. The second one comprises the systems, which can model the mode of brain functioning employing the artificial neural networks (ANNs). As computers are far quicker compared to traditional human analysis and laboratory experiments in uncovering new data sets, new and effective drugs can be made available sooner, while also reducing the operational costs associated with the manual investigation of each compound. Due to this there are lot of application of AI in the drug discovery and pharmaceutical industries those all are discussed in this article.

Keywords: - Artificial intelligence, drug discovery, applications, robot pharmacy



**A COMPLETE REVIEW ON NANOSUSPENSIONS: A NOVEL DRUG DELIVERY SYSTEM AND FENOFIBRATE AS A MODEL DRUG**

Alkhata A Patil, Trupti M Naik, Komal B Sutar

Anandi Pharmacy College, Kalambe Tarf Kale, Tal Karveer, Dist Kolhapur, India.

ABSTRACT

Nanosuspension is defined as very finely colloid; biphasic dispersed solid drug particles in aqueous vehicle, a size below 1 micron methods for stabilized by suitable drug delivery application. Solubility is the crucial factor for drug absorption it depend on route administration. Nanosuspensions technology provide efficient delivery of hydrophobic drug it increase the bioavailability. Production techniques such as media milling and high

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Keywords: Nanotechnology, particle size, homogenization, Polymer, drugs, surfactant





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A COMPLETE REVIEW ON NANOSUSPENSIONS: A NOVEL DRUG DELIVERY SYSTEM AND FENOFIBRATE AS A MODEL DRUG

Akshata A Patil, Trupti M Naik, Komal B Sutar

Anandi Pharmacy College, Kalambe Tarf Kale, Tal Karveer, Dist Kolhapur, India.

ABSTRACT

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A MINI-REVIEW ON PLANTS PHYTOFRAGMENT HAVING ANTI-TUBERCULAR PROPERTIES

Pooja Dalavi , Rushikesh Patil, Swapnil Khot

Anandi Pharmacy College, Kalambe Tarf Kale Tal- Karveer, Dist- Kolhapur, Maharashtra, India.

ABSTRACT

Mycobacterium tuberculosis causes tuberculosis, which is an infectious disease. After HIV, tuberculosis is the second biggest cause of death among infectious diseases. Numerous anti-TB synthetic medicines have been created over time, but the majority of resistance has been seen in these drugs. As a result, using plant Phytofragment to cure the ailment is beneficial. Furthermore, these medications have less negative effects. As a result, finding more effective and less toxic drugs to battle fatal tuberculosis is critical.

Keywords: Tuberculosis, Phytofragment, enzymes, Target





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A REVIEW ON TRANSDERMAL PATCHES

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Sayali Sunil Jadhav, Bhumika Pravin Patil

Anandi Pharmacy College, Kalambe Tarf Kale, Tal Karveer, Dist Kolhapur, India.

ABSTRACT

Many changes are made in the first metabolic pharmacy that passes into the liver. Marine drug delivery system is underway. Drug control of the local delivery system does not provide continuous administration, but allows continuous input of drugs with short biological half-life. The normal dermal patch uses a special membrane on which fluid-containing patches can pass through the reservoir and into the bloodstream. The first advantages of using this system are such as metabolic testing, targeted delivery in low doses. TDDS consists of several groups in front of membrane permeation controlled TDDS, adhesive diffusion type TDDS, polymer matrix diffusion controlled TDDS, mini reservoir type TDS. In this article we will discuss the Transdermal Drug Delivery Patch.

Keywords: - Transdermal, physiology, advantages, disadvantages, components



**A SYSTEMIC REVIEW ON ANTITUBERCULAR PHYTOCHEMICALS****Pallavi Namdev Patil*, Ms. Rutuja Hanmant Nanaware, Mr. Swapnil S. Patil***Anandi Pharmacy College, Kalambe Tarf Kale, Tal. Karveer, dist. Kolhapur, India.***ABSTRACT**

Within the search for a hit antitubercular remedies, investigators have often become their efforts to ethnobotany, ethnopharmacology, and phytochemistry. considering that most of the global's peoples have well-developed systems of traditional remedy with flowers and their extracts as a major issue and a lot of those vegetation had been used to treat tuberculosis, indigenous herbal remedy is a logical starting point for a research application. The most important intention on this review is to phytochemicals used to deal with tuberculosis and their mechanism towards selected targets. Traditional medicines using phytochemicals has shown to provide remarkable capacity in TB remedy, also phytochemicals have fewer side effects specifically inside the eradication of Mycobacterium tuberculosis, growing herbal immunity, and dealing with the side outcomes of anti-TB tablets.

Keywords: Antitubercular, phytochemicals, mycobacterium tuberculosis, multi drug resistance (MDR)





AN OVERVIEW OF HERBAL BINDER EXCIPIENT

Shweta B.Kamble, Aniket H.Ombase, Pankaj R. Garad

Anandi Pharmacy College, Kalambe Tarf Kale, Tal Karveer, Dist Kolhapur, India.

ABSTRACT

The excipient is defined as a substance which is used as a medium for giving a medicament; this is to say that easy function of inert assist of the energetic precept or standards 1. it is derived from the Latin phrase excipients it mean to acquire, to the out , toghther.the same old of the product relies upon at the manufacturing tactics, lively pharmaceutical factor (API) & the excipients which are used inside the components.

Keywords: - Herabl excipients, binders, Natural source, Gelatin, Xanthane



**GLOBAL WARMING IMPACT ON HUMAN HEALTH****Ajay Digambar Thorat, Harsh Shrinivas Tanage, Sumit Mohan Magade***Anandi Pharmacy College, Kalambe Tarf Kale, Tal Karveer, Dist Kolhapur, India.***ABSTRACT**

Global warming today has become a major problem. The continuous rise in temperature of the planet is really upsetting. The root cause for this is global warming. To understand global warming, it is first necessary to become familiar with the greenhouse effect. The trade of incoming and outgoing radiation that heats up the Earth is often referred to as the greenhouse effect. The greenhouse effect, combined with increasing levels of greenhouse gases and the resulting global warming. The major cause of global warming is the greenhouse gases. They include carbon dioxide, methane, nitrous oxides and in some cases chlorine and bromine containing compounds. Global warming can severely affect the health of living beings.

Keywords: - Rheumatoid arthritis, anti- arthritic activity, herbal plant, inflammatory

**LAGERSTROEMIA SPECIOSALS****Ms. Pratibha S. Gavarkar¹, Dr. R. S. Chavan²**

1. Anandi Pharmacy College, Kalambe Tarf Kale, India.
2. Seth Govind Raghunath Sable College of Pharmacy, Saswad, India.

ABSTRACT

Sumatra, especially in the northern Liverworts family Lepidoziaceae variety Sumatra Inadequate Report. Therefore, the aim of this study is to explore diversity Taman Eden 100 Natural Tourist Park, Lepidoziaceae in North Sumatra. Was explored the study runs along the hiking trails of the site. Species identification is based on these Morphological characters. Thirteen species of Lepidoziaceae were identified, of which 2 are Genus: Bazania (11 species), and Lepidozia (2 species). There were species of Lepidoziaceae found as epiphyte on tree trunks, decaying wood and soil. The most common species are found the study found Bazaniatridans, while Bazaniapectinata was a rare species.

Keywords: - Bazzania, Marchantiophyta, Diversity, Central Java.





MEDICINAL PLANTS HAVING ANTI-INFLAMMATORY ACTIVITY

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Anandi Pharmacy College Kalambe Tarf Kale, Kolhapur, India.

ABSTRACT

Inflammation is a healthy process of body which results from some disturbance or diseases. Herbal plants play a very essential role in the discovery of new drugs with less adverse effects. Herbal plants have played very essential role in human health care system since ancient times. To overcome these types of problems new drugs are very important and in plants have many of phytochemical constituents are present such as polyphenols, lignans, anthraquinones, flavonoids, alkaloids, terpenoids, saponins, polysaccharides and peptides. These phytochemical constituents are very helpful in inflammation and have very fewer side effects. In this article we have include some Herbal medicinal plants which has inflammatory activity which can be helpful in inflammation

Keywords: - Inflammation, Anti-inflammatory activity, herbal plants.



**MICROSPONGES FOR DERMATOLOGICAL APPLICATIONS****Sourabh S. Khot, Karuna K. Kambale, Aishwarya B. Bhosle***Anandi B. Pharmacy College, Kalambe Tarf Kale, Dist. Kolhapur, India.***ABSTRACT**

Dermatological disorders have an infinite psychosocial impact, causing significant impairment of patient's life. Topical therapy plays an important role in management of such disorders. Conventional topical delivery systems in overmedication / undermedication, resulting in adverse effects and reduction in therapeutic efficacy. Consequently, researchers are striving towards the event of other delivery systems for dermatological applications. From a last decade, microsponges emerged as an option for topical delivery. Their characteristic flyspeck size offers enhanced benefits, making them superior to the contemporary microcarriers. This review furnishes a comprehensive account of state of the art, important factors affecting the successful performance and mechanism of drug release from topically applied microsponges, along with characterization techniques. Then a list of marketed products and their applications for common dermatological disorders has been presented. In all, this paper is an attempt to a bibliographic foundation for researchers working during this field and foster further investigations during this arena.

Keywords: Microsponges, Acne, Salicylic Acid, Eudragit RS 100, etc.

**POST COVID CALAMITY-MUCORMYCOSIS: AN OVERVIEW****Poonam Patil¹, Rutuja Shah², Smita Nayak¹**

1. *Anandi B. Pharmacy College, Kalambe Tarf Kale, Dist. Kolhapur, India*
2. *Gahlot Institute of Pharmacy, Koparkhairne, Navi Mumbai, India*

ABSTRACT

Corona virus disease (Covid-19) it had declared an emergency global pandemic that cause terrible effects on respiratory system and killing more than half billion lives. Diabetes has been reported as a risk factor for Mucor mycosis in 73.5% of cases in India. People with diabetes and obesity tend to develop more severe Covid-19 infections. This means they're more expected to take corticosteroids, which are frequently used to treat Covid-19. But the corticosteroids along with diabetes increase the risk of Mucor mycosis because it has been observed that peoples are affected with Mucor mycosis due to weekend immunity. Even a short course of steroid (5-14 days) results in Mucor mycosis. Mucor mycosis, colloquially known as black fungus, is an infection from the mucoromycetes group of fungi. The virus that causes Covid-19 can damage lung tissue and blood vessels, which could also increase susceptibility to different fungal infection. brain, causing headaches or seizures. So, damage to tissue and blood vessels from Covid-19 infection, treatment with corticosteroids, high background rates of diabetes in the population most brutally affected by the coronavirus are also getting affected by life threatening fungal infection called as Mucor mycosis. Several methods have deferred the mortality but still have a challenge in curing Mucorales.

Keywords: - Covid-19; Mucor mycosis; diabetes; corticosteroids; immunity. etc.





**DOCKING A TOOL FOR EVIDENCE BASED HERBAL FORMULATION
DEVELOPMENT: A REVIEW**

Sachin A. Pishawikar, Aarti A. Varne, Kajal K. Mohite

Anandi Pharmacy College, Kalambe Tarf Kale, Dist. Kolhapur, India

ABSTRACT

Markets are getting flooded with numerous herbal formulations based on ethno information. Major problem with these formulations is extensive use of herbs is done but there is lack of information related to their probable mechanisms of action. Virtual screening methods can play significant role in design and development of authentic new herbal formulations to satisfy the numerous clinical needs with known mechanism of action. The aim of the present review is, how molecular docking of active constituents identified in the studied herbs can be done on selected targets, by which identification of probable mechanism of action by which they show desirable pharmacology activity can be done. If mechanism is known naturally authenticity of herbal formulation is going to increase.

Keywords: Herbal formulations, Virtual screening, molecular docking, pharmacology activity





WATER SYSTEM VALIDATION

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ABSTRACT

The purpose of carryout water system validation is to ensure that the remedy process Produce An executive quality of water systemically. The main goal of this discussion is to see the Numerous Factors Of validation that include the treatment of water, qualification of equipment, Documentation, validation, Phase of qualification.

Keywords; Validation, water purification





ROLE OF PHYTOCHEMICALS ON CYCLIN DEPENDENT KINASE AND HISTONE DEACETYLASE AS CANCER TARGET

Omkar S. Patil, Bhushan J. Patil, Pratibha R. Adnaik.

Anandi Pharmacy College, Kalambe Tarf Kale, Tal. Karveer, dist. Kolhapur, India.

ABSTRACT

cancer is a sickness, which involves odd increase of cells with the capability to invade and metastasize to different parts of the body. A natural product in chemoprotective and have less side effect. In the present review, we summarize natural products like luteolin, kushinol T, etc. this review also covered targets of cancer like cyclin dependent kinase and histone deacetylase. The present review may provide information on the use of these compounds for the prevention of breast cancer. Plants and plant-products have been in use by means of humans during the arena for centuries as conventional cure and as homeopathic remedies for various sicknesses. In latest years, vitamins as well as non-nutrient phytochemicals are being extensively explored for potential preventive outcomes against most cancers. A big selection of phytochemicals, found in edible as well as medicinal plant life or plant merchandise, has been pronounced to widespread antioxidant, anti-mutagenic and anti-carcinogenic activities. Additionally, there are several epidemiological studies which indicate defensive effect of veggies and fruits intake against cancer. Hence, in latest years, isolation, identity, characterization and quantification of phytochemicals, and evaluation of their potential advantages to people have become an essential location of pharmaceutical sciences. up to now, approximately 30 lessons of phytochemicals have been isolated and examined for their anticancer potential.[1]

Keywords: - cancer; phytochemicals; chemotherapy; targets; Cyclin dependent Kinase and Histone deacetylase



**STUDY OF IMPURITIES IN NEW DRUG SUBSTANCE****Pratiksha Badam Patil, Vrishubh Pandurang Patil, Sujeet Vinayak Salokhe***Anandi Pharmacy College, Kalambe Tarf Kale Tal- Karveer, Dist- Kolhapur, Maharashtra,
India.***ABSTRACT**

In pharmaceutical world, an impurity is generally considered as any other organic material besides the drug material or active pharmaceutical ingredient (API) that arises out of synthesis. This definition of impurity is broad enough to include degradation products as impurities. The term degradation product is defined as International Conference of Harmonization of technical requirement for registration of Pharmaceuticals for human use. Degradation product: a molecule resulting from a change in the drug substance (bulk material) brought about over time. For the purpose of stability testing of products in this guidance, such changes should occur as a result of processing and storage (e.g., deamidation, oxidation, aggregation, & proteolysis.)

Keywords: Deamidation, oxidation, aggregation, proteolysis etc.

**TINOSPORA CORDIFOLIA****Kajol Hanchate*, Sahil Patil, Mahesh Pachakate***Anandi Pharmacy College, Kalambe Tarf Kale, Tal Karveer, Dist Kolhapur, India.***ABSTRACT**

Tinospora cordifolia is a popular plant that has number of beneficial effects mentioned in Ayurvedic system and used traditionally with combination with other drugs or sometimes used alone to get desired effect. Tinospora cordifolia in Ayurvedic medicines is quoted to treat fever, skin problems, immunomodulatory, anti-stress, treatment of jaundice, in diabetes as anti-diabetic agent, hepatoprotective, anti-oxidant, anti-arthritis, anti-periodic and anti-neoplastic agents. Our current study in this review encompasses active component in plant Usage of these active compound in the treatment on various medical conditions. The future scope of review remains in exploiting biochemical and signalling pathway affected by isolating the compound from Tinospora cordifolia so as to enable more research as well as effective formulation in disease eradication.

Keywords: - Ayurvedic, Tinospora cordifolia, Herbal, Plant, Herbs, Research, medicinal use.



**REVIEW ON MEDICINAL PLANTS USED IN DIABETES MELLITUS****Dipak Ananda Sankpal, Ranjit Balu Jadhav, Sanket Sanjay Patil***Anandi Pharmacy College, Kalambe Tarf Kale, Tal Karveer, Dist Kolhapur, India.***ABSTRACT**

Diabetes mellitus is one of most occurring systemic metabolic disorders in the world. The characteristics of this disorder includes increased blood sugar level(hyperglycemia) inefficient insulin level and improper glucagon level which cause lever to use glucose by the cell as energy source. There are two types of diabetes mellitus type -1 and type -2. Prevalence of type-1 diabetes is less as it occurs in children bellow age 15 but the major problem is type-2 diabetes. Large number of populations now days suffering from this disease. There are number of oral hypoglycemic agents and other synthetic drug therapies for the same. But to overcome the side effect due to such synthetic medicines researches on the natural medicines continues to happen. There is large number of medicinal plants worldwide in those most of having the antidiabetic properties. This article is aimed to collect the information of the different medicinal plants having antidiabetic activity.

Key words: Diabetes mellitus, Medicinal plants, hypoglycemic, extract, chemical constituent

**STEM CELL TECHNOLOGY FOR RETINAL DISEASES****Sakshi Dattatraya Bhopale, Sabiha Firoz Mulla, Renu Ranjit Ghatage***Anandi Pharmacy College Kalambe Tarf Kale, Kolhapur, India.***ABSTRACT**

Stem cells are undifferentiated cells which have the ability to self-renew and differentiate into mature cells. They are highly proliferative, implying that an unlimited number of mature cells can be generated from a given stem cell source. On this basis, stem cell replacement therapy has been evaluated in recent years as an alternative for various pathologies. Degenerative retinal diseases cause progressive visual decline which originates from continuing loss of photoreceptor cells and outer nuclear layers. Theoretically, this therapy will enable the generation of new retinal cells from stem cells to replace the damaged cells in the diseased retina. In addition, stem cells are able to perform multiple functions, such as immunoregulation, anti-apoptosis of neurons, and neurotrophin secretion. With recent progress in experimental stem cell applications, phase I/II clinical trials have been approved. These latest stem cell transplantation studies showed that this therapy is a promising approach to restore visual function in eyes with degenerative retinal diseases such as retinitis pigmentosa, Stargardts' macular dystrophy, and age-related macular degeneration. This review focuses on new developments in stem cell therapy for degenerative retinal diseases.

Keywords: Stem cell, retinal diseases, recent developments



**AN OVERVIEW ON AJWAIN (*TRACHYSPERMUM AMMI*):
PHARMACOLOGICAL ACTIVITY AND MEDICINAL BENEFITS**

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ABSTRACT

Trachyspermum ammi L. (Apiaceae) is a crucial medicinal, aromatic and spice plant commonly called ajwain. Ajwain with its characteristic aromatic smell and spicy taste is widely used as a spice in curry. Several studies have already been done to validate its various activities. This study was conducted to validate the anti-bacterial and anti-fungal properties of methanolic and hexane seed extracts of two ajwain genotypes commonly grown in India. The findings showed significant antimicrobial activity in seed extract. The fruit has stimulant, antispasmodic and carminative properties and is employed as a vital remedy for flatulence, atonic indigestion, diarrhea, abdominal tumors, abdominal pain, hemorrhoids, bronchial problems, loss of appetite, galactogog, asthma and amenorrhea. Medically, it's been shown to own various medicinal properties like antifungal, antioxidant, antibiotic, antihypertensive, antispasmodic, broncho-dilating actions, ulcers.

Keywords: *Trachyspermum amm* , Ajwain, Thymol, Antimircobial, Antifungal





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**NOVEL INNOVATION OF NANODIAMOND IN MEDICINE FIELD**

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²Pratibha Adnaik, ²Rahul Adnaik

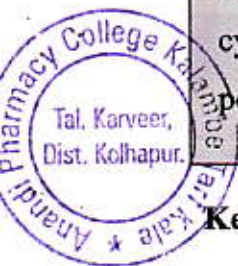
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ABSTRACT

Utilize diamonds in medicine is a novel novelty in the medical field. The exclusive nanodiamond properties have established excellent presentations in assorted fields mainly in pharmaceutical as a drug delivery system and biotechnology. To its superior biocompatibility Nanodiamonds provide as flexible Platforms that could be used enclosed inside microfilm systems based on polymers. Nanodiamonds are complex with a medication that allows the drug to be released sustainably / slowly for at least one month, with a substantial amount of drug in reserve. Nanodiamonds are relatively inexpensive, allowing the broad effect of these devices on a variety of physiological disorders, e.g. Use as a local chemotherapy patch, or as a pericardial tool to restrain inflammation after open-heart surgery. Nanodiamond patch could be used to take care of a localized region where residual cancer cells might stay after a tumor is removed. Nano-diamonds can be used to explore a broad range of therapeutic classes, including additional tiny molecules, therapeutic antibodies, proteins, RNAi. Nanodiamond relevance in biotechnological and medical fields is currently in constant progress. Biocompatibility, condensed dimensions, and high surface chemical interaction are the specific description that makes nanodiamonds ideal intracellular carriers of bioactive compounds. With confocal microscopy, it was established that nanodiamonds were capable to enter in cell cytoplasm but they remained entrenched in nuclear membrane just exposing a few little portions into the nuclear area.

Keywords: - Nanodiamond, diamond lattice, Structure, synthesis, insulin administration





NOVEL LIGAND -BASED DOCKING STUDIES OF GINGER TO ANALYZING POTENTIAL ACHE INHIBITORS FOR ALZHEIMER'S DISEASE

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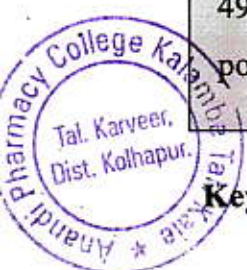
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ABSTRACT

Ginger (*Zingiber officinale*), despite being a regular dietary Nutritional supplement adding to the taste and aroma of foods, contains several potentially bioactive photochemical having valuable medicinal properties. Even if modern studies have emphasized their benefits in Alzheimer's disease. Hence the current research work seeks to utilize molecular docking studies for investigation of binding interactions between active ginger components i.e. Gingerol, Shagoal and Ginerol for various anti-Alzheimer drug targets. All the bioactive photochemical that show predicted activity and follows rules were docked into the receptor of 1QWC, 4ey5 downloaded form (WWW.RCSB.COM). The structures were drawn using Vlife2D Draw software based on the 1QWC, 4ey5E receptor by altering the ligands. After that, they were converted to 3D structures using the same Vlife 3D Modules software by which they were subjected to energy minimization using the Compute menu and then saved as Mol extension files which can be accessed using the docking interface. Vlife MDS 4.6.1 software version was used for molecular docking study. The docking results evaluated on basis hydrogen bonds (H-bond) and Vander Waals (VDW) Interaction and Hydrophobic bond, Aromatic Ligand's relationship with the receptor. The study result that Gingerol showed the maximum activity against the 1QWC (acetylcholine esterase) with the binding affinities of -49.72 and for 4ey5 protein, it predicts -49.44 respectively. This helps in identifying the best possible molecular target for AD.

Keywords: - *In-silico* Molecular Docking, *Zingiber officinale*, Alzheimer's disease



**OVERVIEW: GENERIC DRUGS VS. BRANDED DRUGS****¹Priyanka S. Gawarkar*, ²Pratibha R. Adnaik, ²Rahul S. Adnaik***¹Smt. Kashibai Navale College of Pharmacy, Kondhwa (BK), Pune**²Anandi Pharmacy College, Kalambe Tarf Kale, Tal Karveer, Dist Kolhapur***ABSTRACT**

A Generic Drug (GD) is a pharmaceutical drug that contains the same chemical substance as a drug that was originally protected by chemical patents. GDs are allowed for sale after the patents on the original drugs expire. Because the active chemical substance is the same, the medical profile of generics is believed to be equivalent in performance. GDs must be equivalent to brand name drugs in terms of active ingredients but it may differ in some characteristics such as the manufacturing process, formulation, excipients, color, taste, and packaging. Branded medicines are medicines, which have a name given to them by a company for advertising. The names of branded medicines are different from the International Nonproprietary Name (INN). Branded medicines may be the original medicine developed by a company or several companies may make the same generic medicine, to which each company gives its own brand name.

Keywords: - Generic, Branded, Drugs, Active Pharmaceutical Ingredients (API).



IMPACT OF E-PRESCRIBING IN 2020

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ABSTRACT

The past several years have witnessed an explosion in the automation of healthcare practices and medicine. Efforts to modernize the health care system have accelerated over the last few years. Today, prescribers (physicians and others who have the authority to write prescriptions) make their prescribing decisions using whatever medical, medication, and eligibility information are known or available to them. The current system of prescribing and dispensing medications has widespread problems with safety and efficiency. Experts predict that a shift to electronic prescribing (e-prescribing) systems could avoid adverse drug events, which is life-threatening. Electronic prescribing (e-prescribing) is one such technology whose time has come. Electronic prescribing is the use of computing devices to create, modify, review, and/or transmit medication prescriptions from a healthcare provider to a pharmacy. It replaces pen and paper with automated, cutting-edge technology. Clinical decision-support tools improve patient safety by alerting prescribers to drug allergies and harmful drug interactions. And e-prescribing not only improves the process of medication dispensing, having formulary information from a patient's insurer at the point of care allows prescribers to reduce costs by choosing the most cost-effective treatment. E-prescribing has the potential to provide a bridge that will facilitate a transformation in health care delivery, which will have a remarkable impact on quality, safety, efficiency, and ultimately the value delivered by the health care system. To put it simply, e-prescribing improves quality and reduces costs simultaneously.

Keywords: - E-prescribing, healthcare, prescriptions.





CURRENT REVIEW ON HERBAL PHARMACEUTICAL BINDERS

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ABSTRACT

Binders are agents employed to impart cohesiveness to the granules. The researchers are trying to the new excipients for potential use binding agents in table formulation continue to the interest. They have natural binders like starches, gum, mucilage and dried fruits possess binding capacity as well as some other properties like disintegrant, filler, sustain release, modify performance of dosage form, and increase patient compliance. They are very important for the formulation of tablets.

Keywords: - Excipient, Binders, Natural and Synthetic Binders, Chitin, Agar, Tragacanth.

HUMAN





CONFLICT BETWEEN GENERIC DRUGS VS BRANDED MEDICINES

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ABSTRACT

A Generic Drug (GD) is a pharmaceutical drug that contains the same chemical substance as a drug that was originally protected by chemical patents. (GDs) are allowed for sale after the patents on the original drugs expire. Because the active chemical substance is the same, the medical profile of generics is believed to be equivalent in performance. A generic drug has the same Active Pharmaceutical Ingredient (API) as the original, but it may differ in some characteristics such as the manufacturing process, formulation, excipients, color, taste, and packaging. Branded medicines are medicines which have a name given to them by a company for the purpose of advertising. The names of branded medicines are different from the International Nonproprietary Name (INN), also known as the generic name. Branded medicines may be the original medicine developed by a company or several companies may make the same generic medicine, to which each company gives its own brand name.

Keywords: - Generic, Branded, Drugs, Cost.





LIFESTYLE DISEASE: AN OVERVIEW

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ABSTRACT

In the current review, we have focused on day to day changing lifestyle which leads to a different disorder. In that, we have discussed COPD, CVD, cancer and diabetes mellitus and peripheral arterial disease. We have discussed its causing factor and preventive measures to be taken. Lifestyle disease is alimented that is primarily based on the day to day habits of people. Habits that detract people from the activity and push them towards a sedentary routine can cause several health issues that can lead to chronic non-communicable diseases that can have near life-threatening consequences.

Keywords: - Changing lifestyle' non-communicable diseases, preventive measures





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NEED FOR REGULATORY ASPECTS OF COSMECEUTICALS

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ABSTRACT

Nowadays a new hot topic in the cosmetic industry is 'Cosmeceuticals', which is the fastest growing segment of the natural personal care industry. Cosmeceuticals are the future generation of skincare. Cosmeceuticals have become the fastest-growing segment of the personal care industry. Cosmeceuticals are cosmetic products with biologically active ingredients purporting to have medical or drug like benefits. This paper will give information regarding current and future trends of cosmeceuticals.

Keywords: - Cosmeceuticals, Active ingredients, Personal Care, Skin Care.

HUMAN





FORMULATION AND EVALUATION OF ANTIMICROBIAL CREAM FROM *PHYLLANTHUS RETICULATUS*

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ABSTRACT

Medicinal plants have therapeutic properties due to the presence of the different complex chemical substances of different composition, which are have been discovered as secondary plant metabolites in one or more parts of these *Phyllanthus reticulatus* is a type of leaves in the Euphorbiaceae family(1). Phytoconstituents in the seed extracts may be organized for the antimicrobial activity of the plant. The reason for the study was to prepare and judge the antimicrobial herbal cream from extracts of the seeds of *Phyllanthus reticulatus*(2). The prepared ointments containing oleaginous-based displayed the best formulation co-related to the emulsion water in oil type, the ointment and cream bases in various types of concentration 1%, 5%, and 10%. The prepared ointment and cream of MI L. Were chanced to measured Uniformity of Weight, measurement of pH, viscosity, Spreadability, Acute skin irritation study, stability study, and antimicrobial activity. As per our analysis or inquiry, MI has high potential as compared to an antimicrobial agent when prepared as ointment and creams for topical use. Hence, our study shows that prepared formulations of the MI are a safe and active agent, with dynamic antimicrobial activity.

Keywords: - *Phyllanthus reticulatus*, Euphorbiaceae, Formulated ointments, Antimicrobial activity.





GENERIC VS. BRANDED DRUGS –A MARKET REVIEW BY QUESTIONNAIRE

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ABSTRACT

A generic medicine is chemically equivalent with a brand name, and generic medicine has lower-cost as compared to brand drug, costing is 30-80% less. A branded drug and generic drug has the same active ingredient, dose, safety, strength, usage, quality, and use. In 2008 the average price for branded drugs was \$137.90 and the price for generic drugs was \$35.22. When new drugs developed by any company they submit it for approval, and the patent is issued for 20-years and they prevent other companies from selling the same drug during the patent period. As patent licenses come near to expiry manufacture can apply to FDA to sell its generic version. Because they did not the same development costs so they can sell it at a discount price. As the once generic version is allowed because of competition they keep the price low. Nowadays, almost 50% of prescriptions are filled with generic medicine. Generic medicines are tested to make sure its performance & its ingredients to meet all the FDA's standards. A survey was conducted in the Science background, Non-science background population, and Pharmacists. For a collection of data, questionnaires were prepared and results were analyzed statistically. The results explain the variable percentage of peoples knows the effectiveness of generic medicines. Only 45% of the science background peoples acknowledge that generic medicines follow FDA guidelines as branded medicines. Thus, if common unity made by physicians and pharmacists it effects on effective medicines may be made at affordable prices.

Keywords: - Generic medicines, Branded medicines, chemically equivalent medicines.





HEART FAILURE IN YOUTH

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ABSTRACT

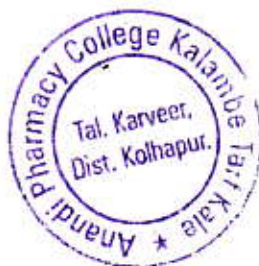
The youth of today is fearless, not afraid of the choices they make, an attitude that is reflected in their approach towards their health also. Most of them tend to believe that they will stay strong and fit, irrespective of their lifestyle choices. With a variety of food ordering mobile apps and large pocket money, young people are easily ordering all types of food to fulfill their desire for having global cuisines, as it suits their lifestyle, and helps them fit in their peers. This new trend of unhealthy food habits among youth in India has put them at risk of developing obesity, diabetes, heart attack. These diseases are the silent killers of our generation. When we talk about young people in India, more than 19% of children in the country are overweight or obese and 45% of youth are addicted to bad habits like smoking, alcohol consumption, drug addiction, etc leading to an increase in the risk factor of CVD.

Keywords: - Obesity, Diabetes, Heart Attack, CVD, Addiction.



**GREEN ANTICANCER DRUGS****Sahil Patil, Pranav Aundhkar, Rutuja Shah, Pratibha Adnaik, Rahul Adnaik***Anandi Pharmacy College, Kalambe Tarf Kale, Tal Karveer, Dist Kolhapur***ABSTRACT**

Cancer is a frightful disease and represents one of the biggest health-care issues for the human race and demands a proactive strategy from cure. Plants are reservoirs for novel chemical entities and provide a promising line for research on cancer. Nevertheless, plants and the plant-derived product is a revolutionizing field as these are simple, safer, eco-friendly, low cost, fast and less toxic as compared with conventional treatment methods phytochemicals are selective in their functions and especially on the tumor cells without affecting normal cells. Phytochemicals are considering suitable candidates for anticancer drug development due to their pleiotropic action on the target event with multiple manners. The research is in progress for the developing potential candidates (those can block or slow down the growth of cancer cells without any side effects) form these phytochemicals furthermore; drugs for cancer treatment and their limitations have also been discussed.

Keywords: - cancer, phytochemicals, pleiotropic actin, tubulin,

**OVERVIEW ON EMERGING CHALLENGES OF ANTIBIOTIC RESISTANCE****Pallavi N. Patil *, Akshata A. Patil, Rutuja R. Shaha***Anandi Pharmacy College, Kalambe Tarf Kale, Tal Karveer, Dist Kolhapur***ABSTRACT**

Increasing the resistance of bacteria to antibiotics is a major problem. The most serious problem is the worldwide emergence of antimicrobial resistance in our common Gram-positive cuckoo pathogen. Another serious problem is that the specific gram negatively causes resistance in the basil due to the expanded spectrum. Antibiotic therapy is difficult for many infectious diseases due to this antibiotic resistance in common pathogens. In particular, the current strategies do not take into account the effects of the use of enhanced antibodies for terrestrial food animals and aquatic production, inadequate food security, and widespread environmental pollution.

Keywords: - Antibiotic resistance, infection, bacteria, public health, antiviral drugs,

**FORMULATION AND DEVELOPMENT OF POLYHERBAL HAIR OIL****Shinde Megha B, Patil Rutuja J.***Anandi B. Pharmacy College, Kalambe Tarf Kale, Dist. Kolhapur***ABSTRACT**

Herbs are used as an integral part of health care system. In present work, we have formulate Antifungal Antibacterial constituent containing polyherbal hair oil. The aim of present study involves preparation of polyherbal hair oil using fresh leaves of various plants. The prepared herbal oils were subjected to phytochemical screening, General characterization, Physical and Biological evaluation. Prepared oil was evaluated and confirmed to be free from sensitivity reaction and good for hair growth. The values in the evaluation of finished product showed that they are within the acceptable limits.

Keywords: - Antifungal, Antibacterial, Polyherbal Hair Oil.

**FORMULATION AND EVALUATION OF HERBAL LIPSTICKS****Dalavi Pooja S, Nanaware Rutuja H, Shah Rutuja R, Adnaik Rahul S***Anandi Pharmacy College, Kalambe Tarf Kale, Tal Karveer, Dist Kolhapur***ABSTRACT**

Herbal lipsticks are becoming popular these days because natural cosmetics are safe to use and easy to handle by women. Synthetic coloring agents can cause an allergic reaction and were found to be carcinogenic. The purpose of our study is to produce and evaluate herbal lipstick using natural edible coloring matter such as watermelon and beetroot as a coloring agent. Bees were used to making herbal lipsticks with various natural ingredients like wax, butter, coconut oil, olive oil, castor oil, vanilla, and rose essence and lemon juice. Herbal lipsticks prepared for different evaluation tests such as color, texture, pH, liquid point, breaking point, softening point, surface anomaly, aging and perfume stability were evaluated and compared with the marketing standard formulation. The results proved that the different evaluation parameters of herbal lipsticks produced look similar to standard values and marketing formulas. Studies have shown that a natural edible coloring material can be a great alternative to herbal lipsticks.

Keywords: - Herbal lipstick, Natural coloring matter, Essence, Bee wax, olive oil, coconut oil.





GLOBAL WARMING: IMPACT ON HUMAN HEALTH

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ABSTRACT

Global warming today has become a major problem. The continuous rise in temperature of the planet is really upsetting. The root cause for this is global warming. To understand global warming, it is first necessary to become familiar with the greenhouse effect. The trade of incoming and outgoing radiation that heats up the Earth is often referred to as the greenhouse effect. The greenhouse effect, combined with increasing levels of greenhouse gases and the resulting global warming. The major cause of global warming is the greenhouse gases. They include carbon dioxide, methane, nitrous oxides and in some cases chlorine and bromine containing compounds. Global warming can severely affect the health of living beings.

Keywords: - Global Warming, Human Health, radiation, greenhouse gases





A GLOBAL COMPARISON BETWEEN BRAND-DRUGS AND GENERIC DRUGS

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ABSTRACT

While the utilization of cheaper bioequivalent generic drugs over brand-name drugs has been widely mentioned in the literature, their market valuation and sequent use are largely shaped by government political additionally as shopper and company decision-making. Analysis of literature shows that drug development and testing costs, degree of health care privatization, and pharmaceutical compensation all impact the profit of brand-name drugs among and on the so much facet their patent quantity. Furthermore, jurisdiction-specific government controls and policies influence the affordability and accessibility of every drug variants.

Keywords: - Global Comparison, Brand-Drugs, Generic Drugs



**A REVIEW ON ROLE OF PHARMACY IN 21ST CENTURY****Shivani Sivaji Khade*, Sayali Sunil Jadhav***Anandi Pharmacy College Kalambe Tarf Kale, Kolhapur***ABSTRACT**

A better life quality global health and safety in the major goal of the 21st century and to achieve that great span of roles the pharmacy profession involves now. The roles of pharmacists were transformed throughout history and modern pharmacists as we know now besides providing products and playing in the best of medicine has a crucial role in ensuring the efficacy and safety of applied drugs. The supply of medicines to the populations is undertaken by privately owned community pharmacies and some time also by hospital pharmacies. The provision of patient care pharmacy education. The pharmaceutical market. Health care delivery, community pharmacy services. The professional role of community pharmacists and future developments. Medications improve health and save, live but they are not risk-free. The modern pharmacist is largely responsible for helping patients.

Keywords: - Pharmacist, Public Health, Professional Role, Pharmacy Education, Pharmaceutical services





GREENHOUSE EFFECT: GREENHOUSE GASES AND THEIR IMPACT ON GLOBAL WARMING

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ABSTRACT

The greenhouse effect is a leading factor in keeping the earth warm because it keep some of the planet's heat that would otherwise escapes form the atmosphere out to space .the study report on the Greenhouse gases and their impact on global warming. Without the greenhouse effect the earth as we know it would be impossible. Greenhouse gases include water vapor, CO₂, methane, nitrous oxide (N₂O) and other gases carbon dioxide (CO₂) and other greenhouse gases turn like a blanket, garpping infra-red radiation and preventing it form escaping into outer space .the clear effect of the greenhouse gases is the stable heating of Earth's atmosphere and surface, thus, global warming, The study also reveals the importance of greenhouse gases to warming of planet earth

Keywords: - Greenhouse Effect, Greenhouse Gases, Global Warming





**COMPARATIVE EVALUATION STUDY OF SOLUBILITY ENHANCEMENT
FOR BICALUTAMIDE BY SLN AND SOLID DISPERSION METHOD**

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ABSTRACT

The present study was carried out to comparative evaluation of solubility enhancement of Bicalutamide. Method for solid lipid nanoparticle preparation is a precipitation method and solid dispersion prepared by the hot plate method. Result expressed as an *in-vitro* release and drug content of Bicalutamide effectively gives by solid lipid nanoparticles than solid dispersion method. So Solid lipid nanoparticle is an effective method for Bicalutamide than solid dispersion.

Keywords: - Bicalutamide, Solubility enhancement, Solid-lipid nanoparticle

HUMAN





OVERVIEW ON APPLICATION OF SWEET FLAG

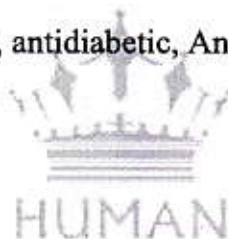
Shweta Dhulagonda Patil, Shradha Dilip Shirdhone

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ABSTRACT

In the present article, we have reviewed the application of sweet flag commonly known as Vekhand. It has an application in inhibitory action against *Salmonella typhi*, Staphylococcus and hence acts as an antibacterial agent. It is also used as Cytoprotective, Bronchodilatory, Antidiabetic and Antidiarrheal activity.

Keywords: - Sweet flag, antibacterial, antidiabetic, Antidiarrheal





MOLECULAR DOCKING ASSESSMENT OF *CISSUS QUADRANGULAR* FOR ANTI MALARIAL ACTIVITY

*¹Swapnali A. Thorat, ¹Vyankatesh R. Dharanguttikar, ¹Mayur P. Sarode, ²Pratibha R. Adnaik, ²Rahul S. Adnaik

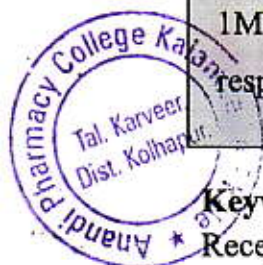
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ABSTRACT

Introduction: *Cissus quadrangularis* is a herb of phytosanitary origin. It has been used to treat inflammatory diseases. The local name *Cissus quadrangularis* is harbhanga. Photochemical probably bioactive, with useful medicinal properties. Even if modern studies, their benefits in anti-malarial have been emphatic. The bioactive phytoconstituents of *Cissus quadrangularis* Linn are studied *in silico* docking for different anti-malarial drug targets against the target Human Dihydrofolate Reductase (HDR) i.e. Saponin, Pallidol, and Quercetin. **Methods:** All the bioactive photochemical that showed expected activity and followed rules were docked into 1MVT and 1u5n protein receptor downloaded form (WWW.RCSB.COM). The structures were drawn using Vlife2D Draw software by modifying the ligands based on the 1MVT and 1u5n protein receptors. Using the same Vlife 3D Modules program, they were subjected to energy minimization using the Compute menu and then saved as Mol extension files which can be accessed via the docking interface. Software version of Vlife MDS 4.6.1 was used for study of molecular docking. **Result:** The docking findings were analyzed on the basis of interaction and hydrophobic relation between hydrogen bonds (H-bond) and Vander Waals (VDW), Aromatic interaction between ligand and receptor. **Conclusion:** Result of the study shows that saponin displayed the highest activity against 1MVT (HDR) with binding affinities of -68.82 and for 1u5n protein it predicts -61.71 respectively, helping to identify the best possible molecular target for malaria virus.

Keywords: - *In-silico* Molecular Docking, *Cissus quadrangularis* Linn, Anti-malarial Target Receptor.





REVIEW ON EXTRACTION, CHARACTERIZATION AND MEDICINAL ACTIVITY OF OKRA MUCILAGE

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ABSTRACT

Okra (*Abelmoschus esculentus* L.) is a flowering plant of the Malvaceae family which is also known as lady's finger, gumbo, banya or bania or commonly known as bhindi. Natural polymers have been used in different pharmaceutical formulations. They are easily available, non-toxic, biodegradable and cost effective to be used as pharmaceutical excipients. In present investigation, we have reviewed about method for extraction and characterization of mucilage (*Hibiscus esculentus*) and further characterized to be used as pharmaceutical excipient. Main focus of review was to study about anti cancer activity of okra mucilage. Different methods for isolation and physicochemical method for characterization was focused. Antioxidant activity as well as IR spectra determination was noted. Okra is rich in phenolic compounds with important biological properties like quercetin and Flavonol derivatives, Catechin Oligomers and hydroxycinnamic derivatives. Okra is also known for being high in antioxidants activity. Okra has several potential health beneficial effects on some of the important human diseases like cardiovascular disease, type 2 diabetes, digestive diseases and some cancers.

Keywords: - Okra, Excipients, Antioxidant and Anticancer





CURRENT REVIEW ON GENERIC VERSUS BRANDED DRUGS

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ABSTRACT

The concept of the generic prescribed drug is widely accepted in various parts of the world. Despite that, it has failed to gain popularity in India due to factors such as nonavailability and distrust of product quality. The cost of medicines is becoming a major regard today. Generic drugs provide a major saving opportunity in healthcare expenditure since they usually have lower prices. Physicians and patients are concerned about their quality although they are bioequivalent of a brand product. We must consult our doctors before deciding if a generic is right for us. This brochure gives you the information you need to help you decide what's right for you in your treatment and recovery. Our paper is focused on the comparison between the brand and generic drugs and also shows the generic drugs are beneficial to human use and what are the pros and cons of generic and branded drugs.

Keywords: - Generic– branded, cost of medicines and regulatory standards.





IMPACT OF CLINICAL PHARMACIST TOWARDS POLYPHARMACY

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ABSTRACT

Polypharmacy is a common practice in old patients with many chronic conditions. It is the reason for problems like an increase in the incidence of drug-related consequences and their adverse drug reactions and their quality of living. The proper way of prescribing medicines through clinical pharmacists by giving them proper strategies may decrease the dangers of Polypharmacy. Proper doses of medication can be taken from time to time through patients by arranging the medication therapy management services or any other interventions for patients through clinical pharmacists can reduce the side effects of Polypharmacy.

Keywords: - Clinical pharmacist, polypharmacy, drug-related problems





RECENT TRENDS IN PHARMACEUTICAL INDUSTRY

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ABSTRACT

The pharmaceutical packaging market is steadily progressing and has experienced at least five percent growth annually in the last few years. Now the market is worth \$ 5 billion a year. As with other packaged goods, pharmaceuticals require reliable and quick packaging solutions that combine product safety, quality, tamper-proof, patient comfort and safety requirements. Continuous innovations in pharmaceuticals themselves, such as blow fill seal (BFS) couplings, anti-counterfeiting solutions, plasma impulse chemical vapor deposition (PICVD) coating technology, snap of ampoules, unit dose wires, two-in-prefilled vial design, prefilled syringes, and Child-resistant packs have a direct effect on packaging. The review details the recent pharmaceutical packaging trends affecting the packaging industry and offers some forecasts for the future.

Keywords: - Pharmaceutical packaging, packaging materials, recent trends, future





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OVERVIEW OF *OCIMUM SANCTUM* (TULSI): WONDER HERB

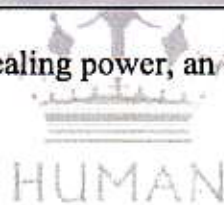
Pratiksha Badam Patil, Arati Maruti Patil

Anandi Pharmacy College, Kalambe Tarf Kale

ABSTRACT

In the current review, we have focused on the medicinal activity of plant tulsi (Holy basil). There is a great role of Tulsi in reducing fever. Along with fever, we have a review of other medicinal health benefits of the plant. The species of tulsi, its general information with cultivation and collection are discussed. The decoction of tulsi leaves, neem leaves, powder of ginger and powder of long pepper can reduce fever and its symptoms considerably.

Keywords: - Tulsi, Fever reducing, healing power, an eye disorder.





OVERVIEW ON ARTIFICIAL INTELLIGENCE IN HEALTHCARE

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ABSTRACT

Artificial intelligence (AI) is more useful in solving the problematic challenge in health care by using computers and other software for the diagnosis of various chronic disease Alzheimer's, various types of cancer like breast cancer, etc. By using AI which reduces the economic burden and severity of the disease. AI can perform tasks in health care better than humans. But some ethical issues of AI in healthcare discussed below.

Keywords: - Artificial intelligence, robots, neural network, the footer of medicine





IMPACT AND APPLICATIONS OF CHITOSAN POLYMER IN VARIOUS DRUG DELIVERY SYSTEMS

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ABSTRACT

Chitosan is a versatile natural polymer. Many polymers have been used for delivery systems among them chitosan seems to be a better polymer because of remarkable properties such as non-toxic, biocompatible, biodegradable, high charge density, mucoadhesive properties, nonimmunogenic and noncarcinogenic. Therefore, chitosan has wide applications in biomedicine, wastewater treatment, cosmetics, and pharmaceuticals. This review highlight that research on chitosan-based systems containing various drugs for various therapeutic applications has increased in recent years. This short review is an attempt to emphasize the pharmaceutical applications of chitosan polymer in brief and satisfied the requirement of a review on this naturally derived polymer in the present scenario.

Keywords: - Chitosan, Natural polymer, Delivery systems, Therapeutic applications.





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REVIEW ON ARTIFICIAL INTELLIGENCE IN PHARMACY AND MEDICINE

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ABSTRACT

Artificial Intelligence (AI) is a stream of science related to intelligent machine learning, mainly intelligent computer programs, which provides results in the similar way to human attention process. Recently, AI technology becomes a very fundamental part of pharmaceutical industry for the useful applications in many technical and research fields. There are two key classes of AI technology developments. The first one comprises the conventional computing methodologies including expert systems. The second one comprises the systems, which can model the mode of brain functioning employing the artificial neural networks (ANNs). As computers are far quicker compared to traditional human analysis and laboratory experiments in uncovering new data sets, new and effective drugs can be made available sooner, while also reducing the operational costs associated with the manual investigation of each compound. Due to this there are lot of application of AI in the drug discovery and pharmaceutical industries those all are discussed in this article.

Keywords: - Artificial intelligence, drug discovery, applications, robot pharmacy

