3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during year										
Sl. No.	**Name of the teacher**	**Title of the book/chapters published**	**Title of the paper**	**Title of the proceedin**	**Name of the conference**	**National / International**	**Year of publication**	**ISBN/ISSN number of the proceeding**	**Affiliating Institute at the time of publication**	**Name of the publisher**
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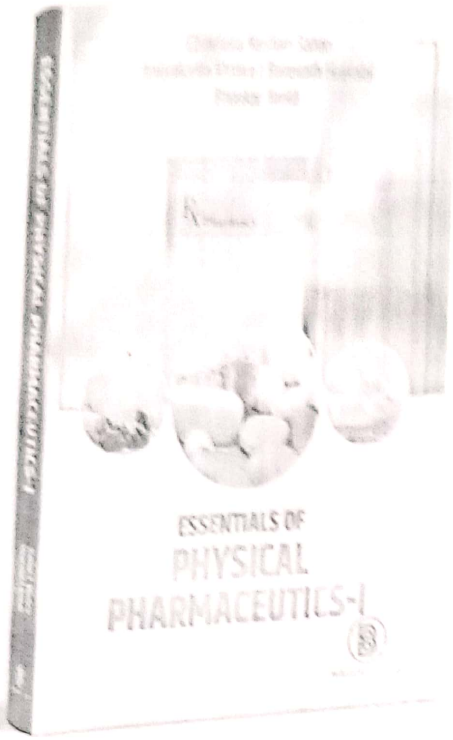

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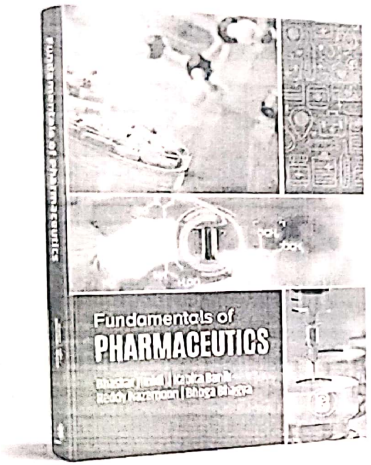

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This book talks about one of the most important branches of Pharmaceutical Sciences i.e Pharmaceutics. Pharmaceutics as we know deals with the science and art of developing a pharmaceutical product which is often called as dosage forms. Some of the popular dosage forms which we witness during our day to day life are tablets, creams, powders and syrups etc. This book has covered most of the dosage forms with their definitions, formulation details, advantages and disadvantages associated with them. This book has these chapters; Pharmacopoeias, Liquid Dosage Forms, Powders, Emulsions, Suspensions, Suppositories and Semisolid Dosage Forms. Each chapter has provided basic as well as practical details along with relevant examples with suitable diagrams, classification charts and previously asked questions based on University final exams which makes it very useful and handy to the student. In addition to this, the book has included several references and rich bibliography which makes it a condensed presentation

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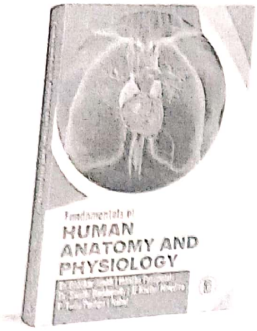

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A REVIEW ON SUPPOSITORIES

Author

Dr. Bhaskar Jimidi
Associate Professor
Department of Pharmaceutics
JNTU Hyderabad
Bharat Institute of Technology
Hyderabad, India.
bhaskarbehappy@gmail.com

I. SUPPOSITORIES

Suppositories are semisolid dose forms of medication intended for insertion into cavities of the body other than the mouth. They can be placed into the vagina, ear, nose, or rectum. To release the medication, they will either melt or dissolve in the bodily fluid.

II. TYPES OF SUPPOSITORIES

1. Rectal suppositories: These have a systemic impact and are intended to be inserted into the rectum. These are typically manufactured from Theobroma oil and come in a range of sizes to suit the need of babies, kids, and adults. They have a torpedo or cone form.

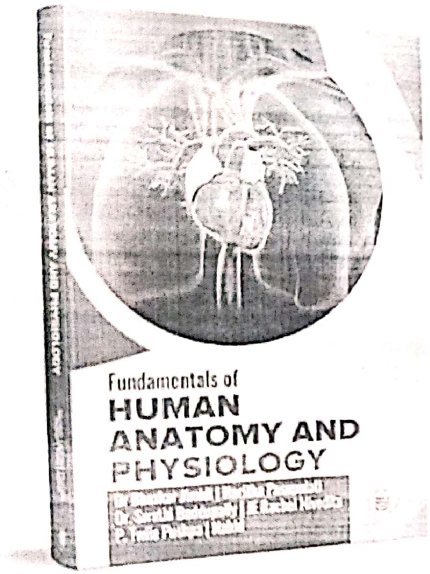
2. Vaginal suppositories are intended to be inserted into the vagina. The term "Pessaries" also refers to these suppositories, which can be conical, rod-shaped, or wedge-shaped and weigh between 4 and 8 grams. Vaginal pills and vaginal capsules are available these days. replaced the suppositories used vaginally.

3. "Urethral bougies" are urethral suppositories, which are intended to be inserted into the urethra. These are cylindrical forms that are long, thin, and have a rounded end to make insertion easier. They range in weight from 2-4g.

4. Nasal suppositories, also referred to as "Nasal Bougies" and similar to urethral suppositories, are intended for insertion into the nasal cavity. These always have a glycero gelatin foundation and are thin and cylindrical in shape. They weigh about 1g and are roughly 9–10 cm long.

5. Ear suppositories (sometimes referred to as "Aurinaria") are inserted into the ear. Theobroma oil is typically used as the basis instead of these. These weigh roughly 1g and have a thin, long, cylindrical shape.

6. Shell suppositories: shell suppositories also known as Rectal capsules are generally similar to soft capsules except that they may have lubricating coatings. Shel suppositories have the characteristics of shell Pessaries. During manufacturing, storag and distribution of suppositories, suitable means shall be taken to ensure their microbi quality.



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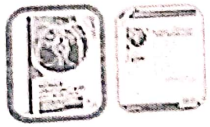

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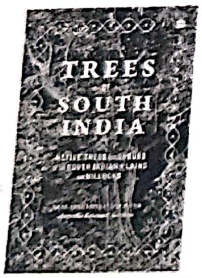

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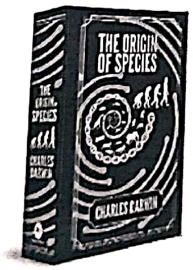

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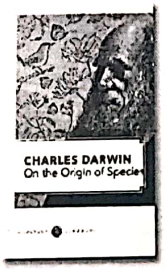

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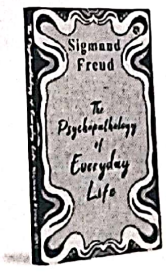

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Herbal Drug Technology Practical Lab Manual

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Description

The present practical book entitled "Herbal Drug Technology Practical Lab Manual" was aimed to provide the knowledge of herbal drugs, their industrial production and their commercial applications for the benefit of the society. The book covers the syllabus of 6th semester B Pharm as prescribed by the pharmacy council of India, New Delhi.

Overall an attempt was made in the practical book to bring together all the knowledge and information from various sources and present it in a simplified manner such that it becomes helpful to the students, faculty and all others who are interested in the industrial field of herbal drugs.

We hope this book will leave the desired impression and look forward to receive the comments from the readers.

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About author : Dr. Asra Jabeen is working as a Professor, Department of Pharmacognosy at Bharat Institute of Technology, Mangalpally, Hyderabad. She was awarded her PhD from Annamalai University in the year 2022. She has completed her M.Pharm from VELS University, Chennai and B. Pharm from Deccan School of Pharmacy, Hyderabad. She holds an academic experience of 13 years and presented many papers at various conferences. Guided students at UG/PG levels and have over 22 scientific publications to credit. She is a Life member of Indian Pharmaceutical Association (IPA), Indian Pharmacy Graduate Association (IPGA) and Association of Pharmacy teachers, India (APTI). She has 3 Indian patents granted.

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Chapter

Repurposed Drugs: Current Trends in Drug Discovery

Gatadi Srikanth, Durga Prasad Beda and Niggula Praveen Kumar

Abstract

Drug repurposing is a drug discovery strategy that involves identifying new therapeutic uses for existing drugs. Drug repurposing relies on the idea that a limited number of genes or gene products mediate biological processes and that several biological entities—such as transcripts, proteins, and genes—have pleiotropic effects and mediate similar tasks. Recently, drug repurposing has gained attention as a different approach that looks for novel uses for previously approved or rejected commercial medications to address conditions other than those they were designed for. It offers numerous benefits, such as faster development timelines, reduced costs, established safety profiles, and the potential for novel treatments for unmet medical needs. This chapter explains the current trends in drug discovery and future perspectives on repurposed drugs.

Keywords: drug repurposing, repurposed drugs, diseases, drug discovery, future perspectives

1. Introduction

Drug repurposing (DR) is also termed as drug repositioning, drug re-tasking, drug reprofiling, drug rescuing, drug recycling, drug redirection, and therapeutic switching. This drug discovery strategy aims to find new therapeutic uses for previously investigated, already marketed, FDA-approved, old, existing, failed drugs or pro-drugs. The newly developed drugs are then applied to treat diseases other than the original or intended therapeutic use. It entails finding novel therapeutic applications for previously approved, stopped, abandoned, and experimental medications [1–3]. The process of finding new drugs by traditional means is risky, costly, time-consuming, and labor-intensive. It may be a more effective strategy because medication repositioning reduces the high financial cost, longer development time, and higher failure rate associated with traditional drug discovery programs. It has the added benefit of saving up to 5–7 years in average drug development time. In conventional drug discovery programs, failure rates of approximately 45% are linked to safety or toxicity issues. This reduces the likelihood of failure. Around

Chapter 6
Print ISBN: 978-81-19039-34-0, eBook ISBN: 978-81-19039-37-1

Quantitative Estimation Preservative Paraben and Niolone 950 Content in Herbal Skin Unguent

Kabita Banik [a#*], Namratha Sunkara [a#], P. Twila Pushpa [a#] and Nahid [a#]

DOI: 10.9734/bpi/rpst/v3/17595D

ABSTRACT

A new analytical method was developed and validated for the quantitative estimation of the preservatives, such as Paraben, by High-Performance Liquid Chromatography (HPLC) and Neolone 950 by High- Performance Thin Layer Chromatography (HPTLC), in dermatological unguent [1]. Skin creams typically contain a number of ingredients, including preservatives. The primary reason for including preservatives as antimicrobial additives in skin cream formulations is to protect consumer health and safety. Preservatives are frequently used in multi-component mixtures to broaden the spectrum of antimicrobial properties. 1. Cosmetic product ingredients are labelled in accordance with (European Union) EU legislation. We developed a quantitative method for estimating the preservative concentration in herbal skin cream. The methods described above are based on High-Performance Liquid Chromatography (HPLC) analysis and UV spectroscopy, and they are carried out under various conditions. With minimal sample preparation, the suggested method was applied successfully to the assay of methyl paraben, propyl paraben, and neolone 950 in cosmetic products [2].

Keywords: Herbal cosmetics; paraben; preservative; HPLC; HPTLC.

1. INTRODUCTION

Cream is a semi-solid emulsion composed of oil and water in the presence of an emulsifying agent [1]. They are divided into two types: oil-in-water (O/W) creams which are composed of small droplets of oil dispersed in a continuous phase, and water-in-oil (W/O) creams which are composed of small droplets of water dispersed in a continuous oily phase. Oil-in-water creams are more comfortable and cosmetically acceptable as they are less greasy and more easily washed off

[a] *Bharat Institute of Technology, Hyderabad, India.*
[#] *Assistant Professor;*
**Corresponding author: E-mail: banikkabita64@gmail.com;*

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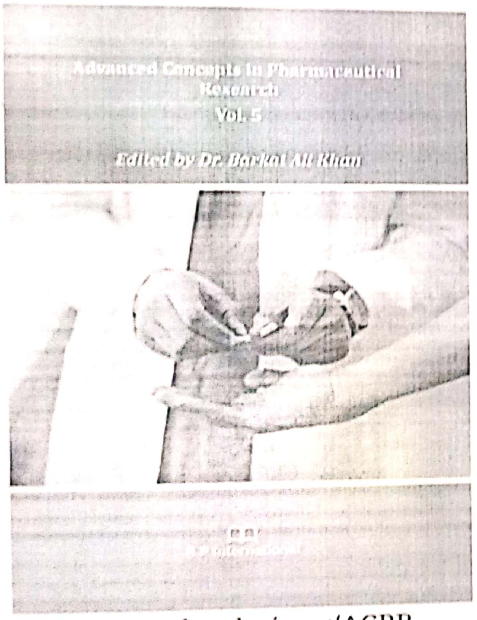

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In silico and in vitro Antimitotic Activity of Some Novel 6-Fluoro-1, 2, 4-Triazolo-Benzothiazole Analogues

Rajashekar V. ; Risy Namratha Jamullamudi ; Prasada Rao Manchineni ;

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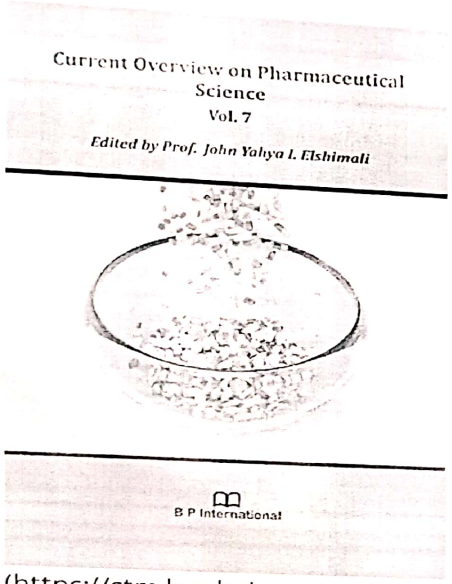
Published: 2024-01-30

Advanced Concepts in Pharmaceutical Research Vol. 5, 30 January 2024, Page 67-89
https://doi.org/10.9734/bpi/acpr/v5/7097E (https://doi.org/10.9734/bpi/acpr/v5/7097E)

Abstract

Worldwide, cancer is a leading cause of death in both developed and developing countries. Numerous natural and manmade anticancer drugs treat solid tumors, lymphomas, and leukemias in different forms. In this work, nine 6-fluoro-triazolo-benzothiazole derivatives were prepared and evaluated for *in vitro* antimitotic activity. In addition, an *in-silico* study was also done using tubulin protein (PDB: 6QQN) by molecular docking method. Thin-layer chromatography (TLC) was used to monitor the progress of the reaction progress. Results revealed that TZ2 and TZ9 were the most active compounds with antimitotic action opposing the standard drug, aspirin. Results of molecular docking exhibited the inhibitory potential of triazole-benzothiazole against tubulin protein. The mitotic study indicates the efficacy of triazole-benzothiazole analogues in inhibiting the proliferation of cancer cells either by promoting microtubule formation or affecting microtubules, thereby preventing microtubule breakdown. The obtained results suggest that germinated mung beans may be a useful tool for quickly and affordably evaluating new medicines' cytotoxic effects.

Keywords: Benzothiazole; 1,2,4-triazole; cancer; antimitotic activity; aspirin; mung beans



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Evaluation of Novel-Designed Isatin Derivatives Compounds against a Few Fungal Species

Jyoti Sahu ; Pushpendra Kumar Patel ; JE Rachel Nivedita ; J. Ravali

Current Overview on Pharmaceutical Science Vol. 7, 23 February 2023, Page 163-184
https://doi.org/10.9734/bpi/cops/v7/4016B (https://doi.org/10.9734/bpi/cops/v7/4016B)

Abstract

Isatin is an organic compound called tribulin, indanedione, and indole quinone which is derived from indole (1H-indole-2,3-dione). Its various derivatives typify an important class of heterocyclic compounds that can be mostly used for drug synthesis as a predecessor. It was reported that its various derivatives have many important biological activities such as anti-cancer, anti-bacterial, anti-diabetic, and others. In this research article, some new spiro derivatives of isatin were synthesized by two different pathways. The chalcones were prepared by the reaction of different acetophenones and isatins via base-catalyzed condensation followed by the addition of acid. The compounds have been characterized by UV-Vis, FT-IR, 1H-NMR,13C-NMR, and Mass spectra. The main objective of the present investigation is to design, synthesize and evaluate isatin derivatives for their possible antimicrobial activities subjected to in vitro antifungal activity against various fungal spores like Aspergillus nigrum and in vitro antioxidant activity. It was found that the compounds exhibited moderate to significant antibacterial, antifungal, and antioxidant activities.

Keywords: Fungal species; heterocyclic compounds; synthesize; antifungal

Recent Advances in Nanoemulsion for Drug Delivery

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Abstract

Submicron-sized emulsions known as nanoemulsions (NE) are being studied in great detail as drug carriers to enhance the delivery of therapeutic agents. With the use of the proper surfactants, two immiscible liquids (oil and water) are combined to form a single phase in NEs, which are thermodynamically stable isotropic systems. Nanoemulsions are stable against creaming or sedimentation because of their small droplet size; the primary mechanism of nanoemulsion breakdown is Ostwald ripening. The typical range of nanoemulsion droplet sizes is 20–200 nm. The size and surface characteristics of the nanoemulsion's droplets have a significant impact on how the formulation behaves biologically. Future developments in drug therapy, cosmetics, diagnostics, and biotechnologies appear to be greatly enhanced by nanoemulsion.