

BALAJI INSTITUTE OF PHARMACEUTICAL SCIENCES

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<u>S.No</u>	NAME OF THE BOOK/ CHAPTER/CONFERENCE	<u>LINKS</u>
	<u>PROCEEDINGS</u>	
1	Application of Machine Learning in Analytical	https://www.amazon.in/Applications-Machine-Learning-Analytical-
	Chemistry	Chemistry/dp/9357043373/ref=sr_1_1?qid=1690791318&refinements=p_27%3AManish
		+Kumar+Thimmaraju&s=books&sr=1-1
2	Scientific services committee	http://www.scientificipca.org/
3	International Science and Art Research	https://en.isarconference.org/dicle-1
4	GANUD International Conference on Gastronomy,	https://www.gastrodiet.org/ files/ugd/614b1f af2ceeecee854107be4cb4e2bb83dc5c.pdf
	Nutrition and Dietetics-IV	
5	2nd International Black sea Modern scientific	file:///C:/Users/BIPS/Downloads/YAHWEHCONFERENCEPAPERreleased%20(2).pdf
	Research Congress	
6	Current approaches in Drug Discovery	Amazon: https://www.amazon.in/dp/9395632828?ref=myi_title_dp
		Flipkart : https://www.flipkart.com/futuristic-trends-pharmacy-
		nursing/p/itm397b3483765df?pid=9789395632829
		Google Books
		: https://books.google.co.in/books/about?id=1zPKEAAAQBAJ&redir_esc=y
7	Role of Machine Learning in Pharmaceutical industry	https://www.amazon.in/Role-Machine-Learning-Pharmaceutical-
		industry/dp/9355151098/ref=sr 1 2?qid=1690791318&refinements=p 27%3AM
		anish+Kumar+Thimmaraju&s=books&sr=1-2
8	Emerging applications of bionanomaterials in	https://www.sciencedirect.com/science/article/abs/pii/B9780128239155000125
	medicine and drug delivery	

9	ICECAA	https://ieeexplore.ieee.org/document/9936219
10	ICECAA	https://ieeexplore.ieee.org/document/9936165
11	ICISCS	file:///C:/Users/BIPS/Downloads/TOKYO_SUMMIT_2_International_Conference.pdf
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13	Fabrication of Nanofibers: Electrospinning and Non-	https://link.springer.com/referenceworkentry/10.1007/978-3-319-53655-2 6
13	electrospinning Techniques	<u>πττρs.//ππκ.springer.com/referenceworkentry/10.1007/978-3-319-33033-2_6</u>
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		=p 27%3AManish+Kumar+Thimmaraju&s=books&sr=1-5
17	Practical Instrumental Analysis	https://www.amazon.in/Practical-Instrumental-Analysis-Manish-
		Thimmaraju/dp/1535094214/ref=sr 1 4?qid=1690791318&refinements=p 27%3 AManish+Kumar+Thimmaraju&s=books&sr=1-4
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3.3.2 Number of books and chapters inedited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year

S.No	Number of books and chapters inedited volumes/books published and papers published in national/ international conference proceedings	Academic year
1	07	2018-19
2	23	2019-20
3	01	2020-21
4	13	2021-22
5	29	2022-23

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80	Emerging applications of bionanomaterials in medicine and drug delivery	ochtos://www.sciencedirect.com/science/article/abs/pii/89780128	larsan 506 33

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10	ICECAA	https://ieeexplore.ieee.org/document/9936165
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APPLICATION OF MACHINE | earning IN ANALYTICAL CHEMISTRY

Dr Manish Kumar Thimmaraju Dr. Mohammed Asif Hussain Dr. Arjun Goje

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Chemistry/dp/9357043373/ref=sr 1 1?qid=1690791318&refinements=p 27%3AManish+Kumar+Thimmaraju&s=books



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First Published in March 2023

ISBN: 978-93-5704-337-3

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www.BlueRoseONE..com info@bluerosepublishers.com +91 8882 896 898

Cover Design: Yash Typographic Design: Tanya Raj Upadhyny Distributed by: BlurRose, Assazon, Flipkert



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Dr Manish Kumar Thimmaraju pursued M.Pharm (2004-2006), Pharmaceutical Analysis as Specialization from Dr MGR Medical University. He obtained PhD in 2014 from Acharya Nagarjujna University. He received research grants from SERB, DST-NIMAT, TAS and TBAI. He published 52 scientific research papers in reputed national and international peer reviewed journals (Scopus &WOS). He is an elected Fellow of Young Academy of India (YAI) and Associate Fellow of Telangana Academy of Sciences (TAS-2019) and Andhra Pradesh Acade-

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reviewed journals and presented more than 20 abstracts in National and International scientific conferences. To his credit 4 patent grants. He is the life member of Association of Pharmacy Teachers of India (APTI) Dr.ArjunGoje is serving as Head of the Department of Pharmaceutics Tee gala Ram Reddy College of Pharmacy. Hyderabad Telangana.





Publisher: Bluerose Publishers Pvt. Ltd.; First edition (9 March 2023)

ISBN-10: 9357043373

ISBN-13: 978-9357043373

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Indian Pharmaceutical Congress Association 72nd Indian Pharmaceutical Congress 20th to 22nd January 2023

Theme: Access to Quality and Affordable Medical Products

Venue: Rashtrasant Tukadoji Maharaj Nagpur University Campus, Amravati Road, Nagpur-440033

Acceptance of Paper for Poster Presentation at 72nd Indian Pharmaceutical Congress.

Dear Dr.MANISH KUMAR THIMMARAJU,

We are pleased to inform you that your paper entitled "DEVELOPMENT AND VALIDATION OF HPLC METHOD FOR THE ESTIMATION OF LEVOFLOXACIN IN HUMAN PLASMA" has been accepted for presentation as "Poster No:F-94" in Poster Session at the 72nd Indian Pharmaceutical Congress.

As a presenter, you must be a registered delegate for the 72nd IPC. However, only the Abstracts of those presenters, who are registered by 25th December, 2022, will be published in the final abstract CD. You should have your registration badge at the poster venue in order to present the poster.

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The area provided for poster presentation will be about 0.95 meter (95 cm) wide by 1.2 meter height (120 cm). For more detail about poster specifications, kindly look into http://www.scientificipca.org/posterspec.php

Note: Poster presenter have to bring their necessary stationery (Adhesive tape, Pins etc.,) since there will not be any facility available in the venue.

We look forward to meet you at 72nd IPC.

Kind regards,

Dr.Roop K.Khar Convener-SSS, IPCA

Dr.Brijesh G.Taksande Member-SSS, IPCA Dr.Dadasaheb M.Kokare Chairman-Local SSC-IPC

The scientific service committee IPC Nagpur

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Iksad Publications - 2022€

ISBN: 978-625-6380-15-8

Cover Design: İbrahim KAYA November / 2022

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26.11.2022 Saturday / 15:30-18:00

SESSION-3 HALL-3 MODERATOR: Dr. Öğretim Üyesi Pelin BARAN

Africa:14:30-17:00/ Algeria: 13:30-16:00/ Australia: 23:30-01:00/ Azerbaijan: 16:30-19:00 Belarus:15:30-18:00 / Brazil:07:30-10:00 / China:20:30-23:00/ Ethiopia:15:30-18:00 / India: 18:00-20:30/Indonesia:19:30-22:00 Kyrgyzstan:18:30-21:00 / Kingdom of Eswatini:14:30-17:00/ Iran: 15:30-18:00 / Malaysia: 20:30/23:00/

Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ / Romania Serbia:13:30-16:00/ Tunisia:13:30-16:00/ Ukraine/14:30-17:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	TOPIC TITLE
Garip Dala Fikret Îpek	Dicle University	Mobilite Olan Dişlerde Diş Eti Çekilmesinin Serbest Diş Eti Greftiyle Tedavisi: Olgu Sunumu
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Lûtfiye GENÇER	Cumhuriyet University	Chalcidoidea (Hymenoptera) Ve Adli Entomolojideki Önemi
SAKA, Sule Ajibola: Eze Ify, Uchenna:	Olabisi Onabanjo University	Herbal Medicine Use Among Older Patients With Chronic Diseases In Southwest Nigeria
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VALIDATED UV SPECTROSCOPIC METHOD OF ZAFIRLUKAST

Manish Kumar Thimmaraju ¹, Naveen Singh .T ¹, Vanamala Mounika ¹, Kotthapally Tejashwini Sharma ²

Department of Pharmaceutical Analysis, Balaji Institute of Pharmaceutical Sciences

Department of Pharmaceutical Quality Assurance, Balaji Institute of Pharmaceutical Sciences

Abstract:

A simple, new and advantageous UVspectroscopic method for Zafrilukast was estimated in bulk formulations. Zafirlukast was estimated at 240 nm in 25% acetonitrile. Limits for range of linearity (2-10 μ g/ml -1) (r 2 = 0.078 x + 0.046; r 2 =0.999), Molar absorptivity noticed to be (5.7×10 5 mol- 1 cm- 1) in 25% ACN. According to ICH guidelines and USP this method was tested and validated for various validation parameters. Range for quantitation limits was noticed as 0.0740 μ g/ml -1 and 0.0244 μ g/ml in 25% ACN, respectively. By demonstrating the results method was found to be precise, reproducible (related standard deviation 2%) and accurate.

Keywords: Zafirlukast, Acetonitrile, UV Spectrophotometry, Validation



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CERTIFICATE

of participant

Manish Kumar Thimmaraju This is to certify that

In oral and technical presentation, recognition and appreciation of research contributions to

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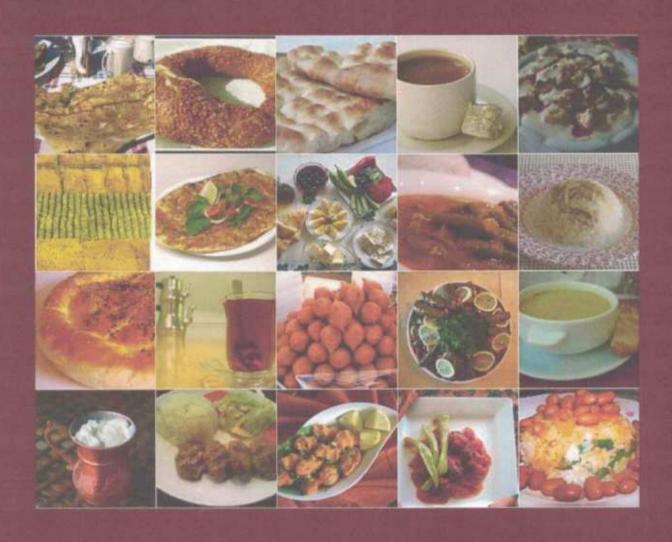
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December 16-18, 2022 Istanbul, Türkiye

GANUD-4 INTERNATIONAL CONFERENCE ON GASTRONOMY, NUTRITION AND DIETETICS

PROCEEDINGS BOOK



PROF. DR. OSMAN ERKMEN

ISBN - 978-625-6955-61-5



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INTERNATIONAL CONFERENCE ON GASTRONOMY, NUTRITION AND DIETETICS-IV

December 16-18, 2022 / Istanbul, Türkiye

Editor

Prof. Dr. Osman ERKMEN

Institute Of Economic Development And Social Researches Publications®

(The Licence Number of Publicator: 2014/31220)

TÜRKİYE

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ISBN - 978-625-6955-61-5

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QUANTIFICATION OF FOSAMPRENAVIR IN SPIKED HUMAN PLASMA USING LIQUID CHROMATOGRAPHY—ELECTROSPRAY IONIZATION—TANDEM MASS SPECTROPHOTOMETRY—APPLICATION TO PHARMACOKINETIC STUDY	Manish Kumar Thimmaraju, Sayyed Sameena, Gandham Bhavana, Reddy Rajesh	Balaji Institute of Pharmaceutical Sciences,Telangana, India
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GANUD INTERNATIONAL CONFERENCE ON GASTRONOMY, NUTRITION AND DIETETICS-IV

QUANTIFICATION OF FOSAMPRENAVIR IN SPIKED HUMAN PLASMA USING LIQUID CHROMATOGRAPHY-ELECTROSPRAY IONIZATION-TANDEM MASS SPECTROPHOTOMETRY-APPLICATION TO PHARMACOKINETIC STUDY

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Department of Pharmaceutical Analysis,
Balaji Institute of Pharmaceutical Sciences
Lakenepally, Narsampet, Warangal ,Telangana, India

Abstract

Fosamprenavir (FSV) is used for the treatment of HIV infections. It is a prodrug of the protease inhibitor and antiretroviral drug amprenavir.

Aim

This research work described about the estimation of FSV in spiked human plasma using electrospray ionization, LC-MS/MS technique, and its application to pharmacokinetic study in rabbits.

Materials and methods

Liquid-liquid extraction technique was used for the extraction of FSV in spiked human plasma. The separation was achieved using ZORBAX SB-C18 column with 4.6 mm internal diameter with 5 μm particle size using acetonitrile: 5 mmol/l ammonium acetate in water (85: 15, v/v) as a mobile phase. Positive ion mode was selected for the product ion mass spectra, m/z 585.6–418.2 for FSV and m/z 589.2–469.1 for FSV-deuterated (internal standard), The US Food and Drug Administration guidelines were adopted for successful validation of the developed method.

Results

The retention time of FSV was found to be 1.51 min, for FSV-deuterated it was 1.62 min, with a runtime of 2.5 min. The present method exhibits excellent intraday and interday accuracy with %nominal 95–98.4% and precision percentage coefficient variation up to 3% in all quality control (QC) levels. The developed method demonstrated excellent matrix and analyte selectivity (%interference=0), matrix effect (matrix factor 2.09 at lower quantitation limit and 1.14 at high QC level) and satisfactory stability study results in all types (%nominal 94.03–100.80%). The linearity range was found to be 0.510–200.185 ng/ml with a correlation coefficient (r 2) of 0.998. The calculated accuracy and precision values in the ruggedness study were within 15–20% in all QC levels. The percentage coefficient variation of the pharmacokinetic study on rabbit plasma samples was also conducted and the parameters of FSV showed Tmax of 2 h and the mean Cmax, AUC0→t and AUC0→α for test formulation were 98.6, 351.3, and 354.9, respectively.

Conclusion

This method was successfully optimized, validated, and applied favorable for the pharmacokinetic study of marketed formulation in rabbit blood samples in a single oral human-equivalent dose. The applicability of the developed method undoubtedly can further extend during preclinical and clinical trials.

Keywords: fosamprenavir, LC-MS/MS, method development, pharmacokinetics

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GANUD INTERNATIONAL CONFERENCE ON GASTRONOMY, NUTRITION AND DIETETICS-IV

DESALINATION OF WATER

Manish Kumar Thimmaraju ¹, Parbhesh Musaraf Alom ¹, Sahabuddin Ahmed ¹, Fulchan Ali Khan ¹, Firdasur Rahman ¹

Department of Pharmaceutical Analysis,
Balaji Institute of Pharmaceutical Sciences
Lakenepally, Narsampet, Warangal ,Telangana, India

Abstract

Water is very essential for all living beings. It covers nearly 70% of earth's surface. Even though the major portion of earth is covered by water, there is severe shortage of drinking water in most of the countries across the world. Safe drinking water is vital for all forms of life though it does not provide any calories. Desalination of sea water appears as a solution for this problem. Advanced desalination technologies that are applied to seawater and brackish water prove to be effective alternatives in a variety of situations. This study mainly focuses on upcoming trends in modern desalination technologies and emphasizing the options offered by them. Desalination is a technique where the excess salts are removed from sea water or brackish water converting it into safe potable or usable water. Desalination methods are categorized into thermal processes and membrane processes. In this chapter we discuss about different thermal processes like multistage flash distillation, multiple effect distillation, vapour compression evaporation, cogeneration and solar water desalination. We also discuss about various categories of membrane processes like reverse osmosis, electro dialysis and membrane distillation methods. This chapter also concentrates on advantages and disadvantages and economical parameters involved in each of these methods.

Key words: Desalination, Emphasizing, Distillation, Osmosis, Dialysis

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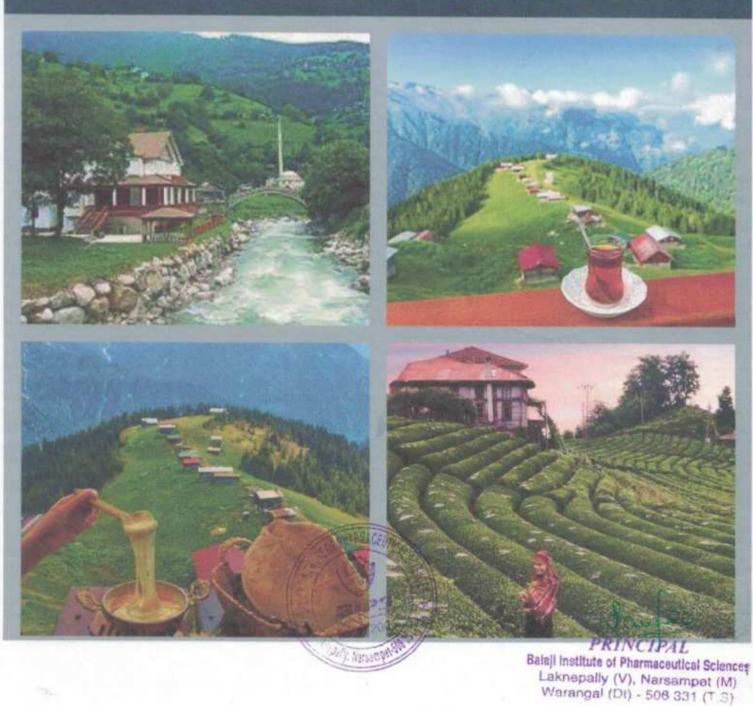
 International Black Sea Modern Scientific Research Congress

PROCEEDINGS BOOK

EDITOR:

Dr. Nihayet KOÇYİĞİT

ISBN: 978-625-6404-16-8



CONGRESS ID

TITLE OF CONGRESS

2. INTERNATIONAL BLACK SEA MODERN SCIENTIFIC RESEARCH CONGRESS

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2. INTERNATIONAL BLACK SEA MODERN SCIENTIFIC RESEARCH CONGRESS

December 21-22, 2022 / Rize, TÜRKİYE

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Issued: 30.12.2022

ISBN - 978-625-6404-16-8

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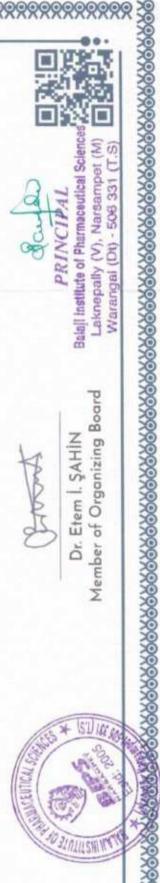
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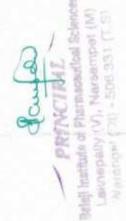
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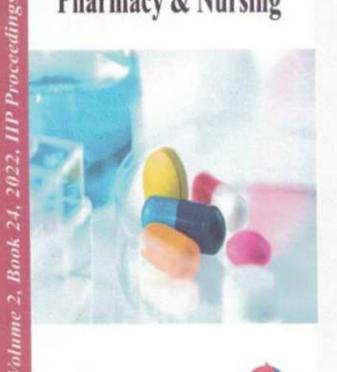


Volume 2, Book 24, 2022, HP Proceedings



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Title of the Book: Futuristic Trends in Pharmacy & Nursing

Edition: Volume 2, Book 24, 2022, IIP Proceedings

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ISBN: 978-93-95632-82-9

Publisher, Printed at & Distribution by:

Selfypage Developers Pvt. Ltd., Pushpagiri Complex, Beside SBI Housing Board, K.M. Road Chikkamagaluru, Karnataka.

Tel.: +91-8861518868 E-mail: info@iiponline.org

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CURRENT APPROACHES IN DRUG DISCOVERY

Abstract

Computer-Aided Drug Design (CADD) evolved as an efficient method for finding prospective lead compounds and facilitating the creation of potential medications for a wide variety of ailments. Numerous computer methods are currently employed to find potential lead compounds from vast compound libraries. applications of the CADD technique to development drug are advancing constantly. Recent trends in drug design emphasize the rational design of effective therapies with multi-targeting effects, increased efficacy, and fewer side effects. particularly in terms of toxicity. In this chapter, we present a brief overview of CADD and describe structure-based drug design (SBDD) and ligand-based drug design (LBDD), as well as their applications in identifying viable therapeutic candidates.

Keywords: Computer aided drug design, Structure based drug design, and Ligand based drug design

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Chikmagalur, Karnataka-577102, India Paisley Circle, Novi, Michigan-48377, USA ISO 9001:2015 certified, registered as Publisher with imprint HP under Raja Ram Muhan Roy National Agency, Ministry of Education, Government of India and also under Bowker ISBN Agency, USA

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Certificate of Publication

This is to certify that

Manish Kumar Thimmaraju

Balaji Institute of Pharmaceutical Sciences Warangal, Telangana, India

has published a chapter titled "CURRENT APPROACHES IN DRUG DISCOVERY" in the edited book Futuristic Trends in Pharmacy & Nursing, IIP Proceedings, Volume 2, Book 24, Part 1. ISBN: 978-93-95632-82-9

> Nanjesh Bennur Director, IIP Proceedings

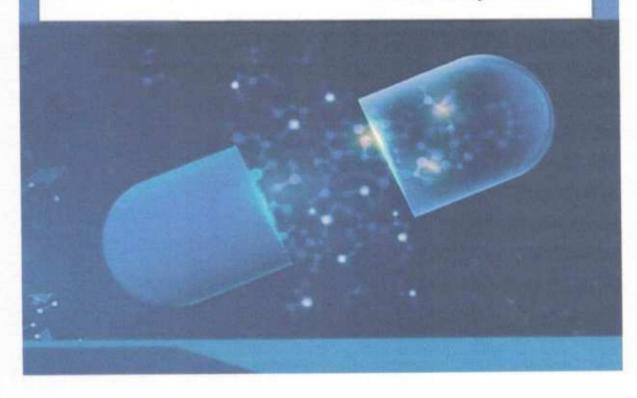


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ROLE OF MACHINE LEARNING IN

PHARMACEUTICAL INDUSTRY

Dr. Manish Kumar Thimmaraju Dr. Anil Kumar Garige Dr. Vijitha Chandupatla Dr. Basawaraju Macha



Publisher: Book Rivers; 1st edition (12 July 2022)

ISBN-10: 9355151098
ISBN-13: 978-9355151094

https://www.amazon.in/Role-Machine-Learning-Pharmaceutical-

industry/dp/9355151098/ref=sr 1 2?qid=1690791318&refinements=p 27%3AManish+Kumar+Thimmaraju&s

=books&sr=1-2



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Published By: Book Rivers

Website: www.bookrivers.com

Email: publish@bookrivers.com

Mobile: +91-9695375469

Place: Lucknow

First Edition: 2022

MRP: 299

ISBN: 9789355151094

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Bionanotechnology : Emerging Applications of Bionanomaterials

Micro and Nano Technologies

2022, Pages 129-185

Chapter 5 - Emerging applications of bionanomaterials in medicine and drug delivery

Dalapathi Gugulothu 1, Dharmendra Kumar Khatri 2

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Abstract

Depends upon the <u>nanostructures</u> the properties of the bionanomaterials differ and are exploited for assorted applications in the field of medicine and drug delivery. Its application can be appraised, as it includes the materials to be designed at the atomic and molecular level. Owing to the advantage of their size, bionanomaterials have been exposed to be vigorous drug delivery systems and may be useful for encapsulating drugs and enabling more precise targeting with a controlled release. The bionanomaterials are applied for the treatment of various diseases includes; cancer, tuberculosis, infectious diseases, diabetes, inflammatory bowel disease, HIV, CNS disorders, antimicrobial, antioxidants, etc. Inorganic, Carbon, Polymeric, Lipid, and others are commonly studied and can be considered for the site-specific delivery of drugs particularly those drugs which have poor solubility and absorption.

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Keywords

Bioimaging; Cellulose nanocrystals; Inclusion bodies; Lipid hybrid particles; Multidrug resistance;

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Acceptance Letter

Author: Manish Kumar Thimmaraju

Department of Pharmaceutical Analysis, Balaji Institute of Pharmaceutical sciences, Laknepally, Telangana 506331, India.

Manuscript Title: Design and Comparison of Transfer Learning for Dental Caries Detection

Paper ID : ICECAA255

Dear Authors,

On behalf of the Conference committee, I would like to congratulate you on your article to the ICECAA 2022 IEEE Conference, which will be held from 13-15, October 2022 at Gnanamani College of Technology, Namakkal, Tamil Nadu, India. You have been selected to deliver your oral presentation at the International Conference on Edge Computing and Applications.

As a result of the review and results, we are pleased inform that you can now submit the fulllength paper for inclusion into the IEEE Xplore ICECAA proceedings. We appreciate if you could send the final version of your research paper at your earliest convenience, in order to ensure the timely publication. When submitting your final paper, please highlight the changes made according to the review comments.

Yours sincerely,

Dr. G. Ranganathan Conference Chair,

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Design and Comparison of Transfer Learning for Dental Caries Detection

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Abstract- Dental caries is one of the most serious dental health issues affecting people of all ages. It is an infectious disease that degrades tooth structure because of dental cavities. Due to constraints such as the enormous amount of money and time required, Artificial Intelligence (AI) has been used in medical research in the field of oral healthcare. Deep learning (DL), an Al branch, is currently a growing field that is widely used in dentistry. DL is a solid foundation for dentists to give better, more efficient care to patients while also saving time. Al supports dentists in meeting patients' expectations while also ensuring excellent treatment and better oral health care. Furthermore, DL can predict clinical case failures and propose dependable therapies. This strategy aids in lowering morbidity rates and improving the quality of dental care in the population. Using transfer learning techniques, this study aims to automate the detection of dental cavities. The two transfer learning algorithms used are ResNet50 and MobileNet. 395 normal and 395 caries dental images from Kaggle are used to develop the transfer learning model. The optimal model is determined by examining both transfer learning models. The MobileNet gives the highest accuracy when compared with ResNet50. The accuracy rate achieved by the MobileNet model is 96.12%.

Keywords— Dental, Images, Train, Transfer Learning Model, Accuracy, Loss.

I. INTRODUCTION

Dental caries is a common, long-lasting infection that affects most teenagers and older people [1]. Tooth decay is produced by microorganisms. Dental caries is more common in people who eat a lot of glucose, sugar, and fructose. The previous method makes an acid that breaks down the minerals on the surface of the teeth. Caries happens whenever the rate of losing minerals is lower than the potential of breaking down [2]. Most researchers have shown that persons who are economically and socially underprivileged, particularly in minority communities with low incomes, individuals with less education, and disabled persons, are more likely to get dental caries. Moreover, multiple epidemiological and clinical studies have demonstrated that teeth loss because of oral disease, namely dental caries, is connected with poor dietary modifications and risk indicators for heart problems and mental retardation [3]. When dental assessments are expensive and not covered by health insurance in many middle and lower-income nations, the number of people who go to dental hospitals and clinics for exams may be much lower [4]. Despite being preventable and curable, dental cavities are a major source of dental pain and tooth loss. Comprehensive and initial identification of dental caries may be necessary for prompt and effective treatment.

Several retention and restoration therapies for dental caries treatment are introduced and refined with great success during the past few decades. Due to the varied morphological structure of the tooth and the geometries, diagnostic techniques for identifying dental caries have not yet advanced much. The AI and DL have recently exhibited good performance in medical image analysis. Previously, DL algorithms have exhibited extremely high accuracy and efficiency in cancer diagnosis and classification, with promising therapeutic implications [5,6]. In dentistry, however, there were few investigations focused on DL architectures, and exploration into the identification and treatment of dental earies has also been sparse [7]. Consequently, the purpose of this research was to examine the efficiency of DL-based transfer learning algorithms for detecting and diagnosing dental caries from images of



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International Conference on Edge Computing and Applications

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Acceptance Letter

Author: Manish Kumar Thimmaraju,

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Manuscript Title: Development of a website for malarial detection using Deep Learning

Paper ID: ICECAA253

Dear Authors,

On behalf of the Conference committee, I would like to congratulate you on your article to the ICECAA 2022 IEEE Conference, which will be held from 13-15, October 2022 at Gnanamani College of Technology, Namakkal, Tamil Nadu, India. You have been selected to deliver your oral presentation at the International Conference on Edge Computing and Applications.

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Development of a Website for Malarial Detection using Deep Learning

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Abstract- Malaria is a bacterial disease which is commonly caused by mosquitoes. In India, approximately, 7500 people have died due to malaria. The screening methods for malaria include the analysis of blood samples. This research aims the development a website that is capable of predicting malaria by analyzing the images of blood cells. For this purpose, images of blood cells are collected as a dataset from Kaggle. Both healthy and blood cells infected with malaria are included in this dataset. Next, the dataset's photos are selected for training, testing, and validation. The picked pictures are then scaled down to a specific size. With the help of the Convolutional Neural Network (CNN), a Deep Learning (DL) model is created. The preprocessed photos are then used to train this model. Model validation follows the training. The training and validation results are tallied and examined. Next, the model's accuracy and loss are evaluated. The highest accuracy of the model developed is 9% which was attained during the training. The model also produced the lowest loss value of 13% during the final epoch of the validation process. The model is then tested if the findings are satisfactory. The tested model is then deployed on a website. This website can be used as a pre-screening test for malaria in times when a person cannot reach out to the nearest doctor. This website can also be updated and converted as a software application in the future.

Keywords— Disease, Mosquito, Deep Learning, Data, Accuracy, Website

I. INTRODUCTION

Malaria is a common bacterial disease during rainy seasons and when a person is exposed to a lot of mosquito bites. These situations cannot be avoided in some cases. People who live in rural areas are prone to malaria and sometimes they neglect it as a normal fever or other such symptoms. Malaria is caused by the injection of a bacteria named Plasmodium Parasite. This parasite is normally present in mosquitoes. However, malaria can also be caused by the errors occurring during blood transfusion such as the usage of used needles and transfusion of blood without The symptoms of malaria include proper screening. shivering and chills. As the production of mosquitoes is quite high during the rainy season, people are more prone to malaria during this season. Thus, it is easier for people to misinterpret the initial symptoms of malaria as the symptoms caused due to climate change. This negligence can be fatal at times. Followed by chills, the person will also have symptoms like heavy fever and sweating. But when the bacteria reach that point, it may be difficult for simple treatments to cure malaria. Malaria can be predicted simply by analyzing the blood cells. This analysis has to be done in the initial stages when the person starts to feel chills. This study aims in developing a website that can analyze the images of blood cells and predict whether the person is affected by malaria or not. This is done by the usage of a DL model. The upcoming chapters include a detailed description of the construction of this DL model and the development of the website.

II. LITERATURE SURVEY

Detection of disorders and diseases is no new to the field of technology. For example, researchers have used the technology of feature selection and classification to detect stress. The study [1] on stress detection was done using functional near-infrared spectroscopy. For this process tests like the Trier Social Stress Test and the Balloon Analog, Risk analysis is done to collect the data for training and analysis. The model developed in this study provided an



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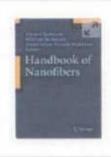
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Structural Multifunctional Nanofibers and Their Emerging Applications

Dalapathi Gugulothu [™], Ahmed Barhoum [™], Syed Muzammil Afzal, Banoth Venkateshwarlu & Hassan Uludag

Reference work entry | First Online: 08 June 2019

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Abstract

Nanofibers are an exciting new class of nanomaterials (NMs) produced by using innovative manufacturing process technologies. Nanofibers are developed from a wide variety of materials of diverse architecture and nature. Nanofibers are divided into the following classes: (1) based on the raw material, nanofibers are classified into organic, inorganic, and carbon and composite fibers, and (2) based on the structure, nanofibers are divided into nonporous, mesoporous.

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Fabrication of Nanofibers: Electrospinning and Nonelectrospinning Techniques

Dalapathi Gugulothu ™, Ahmed Barhoum ™, Raghunandan Nerella, Ramkishan Ajmer & Mikhael Bechelany

Reference work entry | First Online: 08 June 2019

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Abstract

attention due to their unique properties and wide range of applications in energy production, energy storage, environmental protection and improvement, healthcare, and many more. Nanofibers provide a good material system that can improve the electrical, optical, thermal, and mechanical properties of many types of bulk materials. To date, various materials

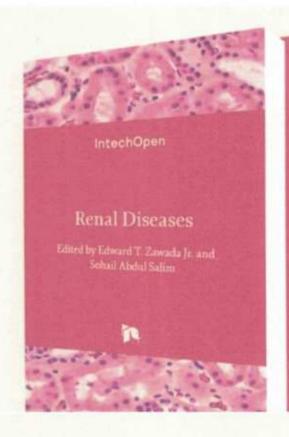
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https://link.springer.com/referenceworkentry/10.1007/978-3-319-53655-2_6

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Causes and Pathophysiology of Nephrotic Syndrome in Childhood

WRITTEN BY

Nagaraju Vallepu, Saikiran Velpula, Bharath Kumar Dasari, Manish Kumar Thimmaraju, Sridhar Babu Gummadi, Neeraja Yelugam and Supraja Jannu

Submitted: March 21st, 2019 Reviewed: May 13th, 2019 Published: November 12th, 2019

DOI: 10.5772/intechopen.86825

ISBN978-1-78985-132-8

PRINT ISBN 978-1-78985-131-1

EBOOK (PDF) ISBN978-1-78985-913-3

https://www.intechopen.com/chapters/69943



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Causes and Pathophysiology of Nephrotic Syndrome in Childhood

Nagaraju Vallepu, Saikiran Velpula, Bharath Kumar Dasari, Manish Kumar Thimmaraju, Sridhar Babu Gummadi, Neeraja Yelugam and Supraja Jannu

Abstract

Nephrotic syndrome is a general type of kidney disease seen in children. In the past, Roelans is credited with the first clinical description of nephrotic syndrome in the late fifteenth century. Nephrotic syndrome is appropriate to excessive hypoalbuminemia, edema, and proteinuria may be hyperlipidemia also present in some cases. Periorbital swelling with or without edema of the body is observed in first starting little period of life, frequently show in children with this condition. Nephrotic syndrome starts develops due functional and structural changes in the GFB, consequential difficulty to control protein in the urine. Nephrotic syndrome possibly causes due to some of glomerular diseases and systemic diseases, but significantly the mostly in childhood is unknown nephrotic syndrome. The first significant improvement with introduction of sulfonamides and then penicillin was seen in 1939. The beginning of adrenocorticotropic hormone and cortisone greater decrease in mortality (to 9%), in the 1950s it was noted to happen in association with spectacular declaration of proteinuria. Etiology of nephrotic syndrome is also age reliant. Most cases reported in the first 3 months of life are referred to as congenital nephrotic syndrome (CNS) and are due to genetic diseases.

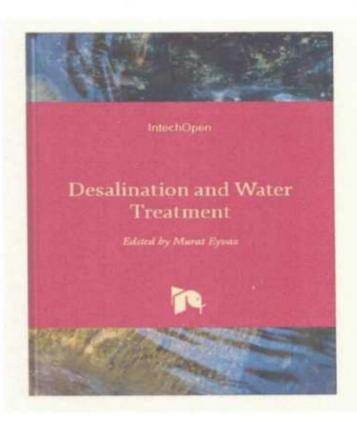
Keywords: nephrotic syndrome, hypoalbuminemia, proteinuria, glomerular filtration barrier, congenital nephrotic syndrome

1. Introduction

Nephrotic syndrome is a general type of kidney disease seen in children. Historically, Roelans is credited with the first clinical description of nephrotic syndrome in the late fifteenth century. Nephrotic syndrome is appropriate to excessive hypoalbuminemia, proteinuria, and edema, although additional clinical hyperlipidemia is also usually present. The beginning of adrenocorticotropic hormone and cortisone in the 1950s contributed to an even greater decrease in mortality (to 9%), which was noted to occur in association with dramatic resolution of proteinuria.

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Desalination of Water

WRITTEN BY Manish Thimmaraju

Reviewed: May 14th, 2018 Published: September 19th, 2018

DOI: 10.5772/intechopen.78659

ISBN978-1-78923-759-7

PRINT ISBN978-1-78923-758-0

EBOOK (PDF) ISBN978-1-83881-679-7

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Desalination of Water

Manish Thimmaraju, Divya Sreepada, Gummadi Sridhar Babu, Bharath Kumar Dasari, Sai Kiran Velpula and Nagaraju Vallepu

Additional information is available at the end of the chapter

http://dx.doi.org/10.5772/intechopen.78659

Abstract

Water is very essential for all living beings. It covers nearly 70% of earth's surface. Even though the major portion of earth is covered by water, there is severe shortage of drinking water in most of the countries across the world. Safe drinking water is vital for all forms of life though it does not provide any calories. Desalination of sea water appears as a solution for this problem. Advanced desalination technologies that are applied to seawater and brackish water prove to be effective alternatives in a variety of situations. This study mainly focuses on upcoming trends in modern desalination technologies and emphasizing the options offered by them. Desalination is a technique where the excess salts are removed from sea water or brackish water converting it into safe potable or usable water. Desalination methods are categorized into thermal processes and membrane processes. In this chapter we discuss about different thermal processes like multistage flash distillation, multiple effect distillation, vapour compression evaporation, cogeneration and solar water desalination. We also discuss about various categories of membrane processes like reverse osmosis, electro dialysis and membrane distillation methods. This chapter also concentrates on advantages and disadvantages and economical parameters involved in each of these methods.

Keywords: desalination, sea water, potable water, desalination techniques

1. Introduction

Water is very essential for life. It is one of the most abundant resources of the earth, covering about 3/4th of earth's surface. Though it covers earth's major portion yet there is severe shortage of potable water in many countries around the world mainly developing

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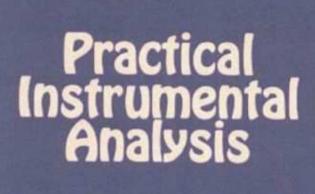
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Manish Kumar Thimmaraju Khaggeswar Bheemanapally



Publisher: Createspace Independent Pub

ISBN-10 : 1535094214

ISBN-13: 978-1535094214

https://www.amazon.in/Practical-Instrumental-Analysis-Manish-

Thimmaraju/dp/1535094214/ref=sr 1 4?qid=1690791318&refinements=p 27%3AManish+Kumar+Thimmaraj u&s=books&sr=1-4



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Practical Instrumental Analysis

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ISBN-13: 978-1535094214

ISBN-10: 1535094214

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ACKNOWLEDGMENTS

responsible for proof reading of the manuscript, I owe great indebtness. I express my thanks to Mr. Pavan Kumar Thimmaraju, who was

deep concern and regular monitoring done by Dr. J. Venkateswar Rao, The initiation and completion of this work was speeded up due to the Principal, Talla Padmavathi College of Pharmacy, Warangal. -Author

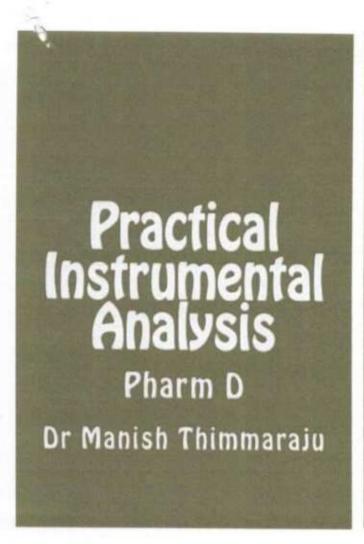
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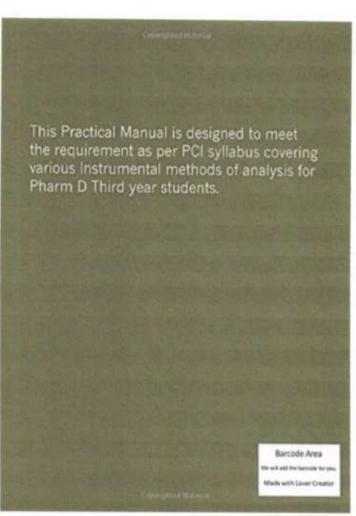
Laknepally (V), Narsampet (M) Warangal (Dt) - 506 331 (T.S)

PRINCIPAL

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Publisher: CreateSpace Independent Publishing Platform; 1st edition (5 April

2018)

ISBN-10: 1987576136

ISBN-13: 978-1987576139

https://www.amazon.in/Practical-Instrumental-Analysis-practical-

manual/dp/1987576136/ref=sr 1 3?qid=1690791318&refinements=p 27%3AManish+Kumar+Thimmaraju&s =books&sr=1-3

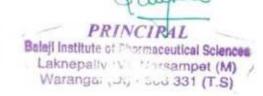


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Dr Manish Kumar Thimmaraju (Author)





Asia-Pacific Region Chapters

17 August 2018

LETTER OF ACCEPTANCE TO PRESENT AT THE 1st CONTROLLED RELEASE ASIA (CRA) MEETING

Dear Dr Manish Kumar Thimmaraju

Thank you for submitting an abstract for the first Controlled Release Asia (CRA) meeting, which will be held on the 24th and 25th of September 2018 in Singapore.

We are delighted to inform you that your abstract titled "Formulation and evaluation of Cytotoxic potential of Metronidazole loaded Poloxamer 407 Hydrogel in SCC-29 Cell lines" has been accepted for a poster presentation at the conference.

If you are unable to attend the conference, it is important that you inform us as soon as possible.

We look forward to your participation in the meeting.

Best regards,

Dr Malinda Salim (Secretary-Controlled Release Asia Meeting)

Drug Delivery, Disposition and Dynamics

Monash Institute of Pharmaceutical Sciences

Monash University (Parkville Campus)

381 Royal Parade, Parkville

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Victoria 3052, Australia

PRINCIPAL

Balaji institute of Pharmaceutical Sciences

Laknepally (V), Narsampet (M)

Warangal (Dt) - 508 331 (T.S)

Welcome to the

1st Controlled Release Asia Meeting (CRA)

organised and supported by CoRE-NET and regional Chapters This meeting is the first Controlled Release Asia meeting, coof the Controlled Release Society (CRS). The meeting aims to bring together controlled release and delivery scientists across all fields of delivery science and technology. Scientists and agricultural delivery, fragrance, coatings and drug delivery fields to name a few has come together to share new developments the consumer n their field and to enhance their networks. representatives from

EVENT PROGRAM

Day 1 - Monday, 24th September 2018

8.00am - 5.00pm

Venue: Breakthrough Theatrette, Level 4, Matrix Building, Biopolis

HIME	Program
08:00 - 08:00	Registration
09:00 - 10:00	Plenary 1 - Pauline Li Amphiphilk Core-Shell Polymeric and Hydride Nanoparticles in Biological Applications Choir: Alex von Herk
10:00 - 10:30	Coffee break, posters and networking
10:30 - 12:30	Presentations
12:30 - 13:30	Lunch break, posters and networking
13:30 - 15:00	Presentations
15:00 - 15:30	Coffee break, posters and networking
15:30 - 17:00	Presentations

Day 2 - Tuesday, 25th September 2018

8.00am - 5.00pm

Venue: Breakthrough Thetrette, Level 4, Matrix Building, Biopolis

Time	Program
08:00 - 08:30	Registration
08:30 - 09:30	Plenary 2 - Anna Schwendeman Design of synthetic high density lipoproteins for drug and personalized neoantigen vaccine delivery Chair: Ben Boyd
09:30 - 10:00	Coffee break, posters and networking
10:00 - 12:00	Presentations
12:00-13:00	Lunch break, posters and networking
13:00 - 14:30	Presentations
14:30 - 15:00	Coffee break, posters and networking
15:00 - 16:30	Presentations
3680-17:00	Student Posters on the Podium, Prize awards and closing remarks — Breakthrough Theatrette

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Balaji institute of Pharmaceutical Sciences With Network - ASTAR-Guert Laknepally (V), Narsampet (M)

Warannal (Dr) - 508 331 (T.S.)





Organising Committee:

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Malinda Salim Monash University Brendan Burkett Institute of Chemistry and Engineering Sciences (ICES)

1ST CONTROLLED RELEASE ASIA MEETING

Linking industry and academia in Controlled Release Science and Technologies in the Asia-Pacific Region

24-25 SEPT 2018 SINGAPORE

Hosted by:







www.controlledreleaseasia.net

For general enquiries, please email to CRA7018/450/Gurrall com

No.	Name	Poster Title
P20	Mitali H. Patel	Preparation and optimization of lipid based drug delivery system of Asenapine maleate
P21	Zeel Naik	Assessment of drug interactions of chemotherapeutic agents in oncology department of quaternary care hospital
P22	Celine Lemoine	Cationic microparticle carrier system as adjuvant approach for pandemic influenza vaccines; proof-of-principle with adsorbed whole inactivated H5N1 influenza.
P23	Chang Hee Min	Development of enteric coated MCM-48 nanoparticle for oral vaccine delivery
P24	Mohammad Arafat	Development of a colorectal stent delivery system for anticancer drugs
P25	Jia-You Fang	The combination of oxacillin and cationic nanostructured lipid carriers for eradicating MRSA in skin
P26	Zih-Chan Lin	Cutaneous delivery of anthranilate derivatives for inhibiting neutrophilic inflammation in psoriasis-like lesion
P27	Lin Cheng-Yu	Combined loading of cilomilast and oleic acid in lipid nanocarriers for synergistic inhibition of psoriasis-like lesion
P28	Oliver Hedge	A digestion/permeation model based on artificial membranes for studies of performance of lipid-based formulations
P29	Yin Hui	Development of hydrophilic microcapsules with high loading menthol for food applications
P30	Dalapathi Gugulothu	Exploring various natural mucilages as a pharmaceutical additives in advanced drug delivery systems
P31	Wanachat Chaiyasan	Development of butterfly pea flower extract-loaded chitosan nanoparticles for oral administration
P32	Manish Kumar Thimmaraju	Formulation, evaluation and cytotoxic potential of Metronidazole Loaded Poloxamer 407 hydrogel in SCC-29 Cell Lines
P33	Srisagul Sungthongieen	Development and evaluation of multi-layer Films for effervescent floating tablets
P34	Pradeep Kumar	Dendrimer-based drug delivery system- focus on Indian Visceral Leishmaniasis
P35	Satyanarayan Pattnaik	Fabrication and optimization of process variables of aceclofenac nanocrystals for improved dissolution

No.	Name	Poster Title	
236	Sagar Bhimaji Dhoble	Anti-angiogenic liposomal formulation for pulmonary hypertension- A QbD Approach	
937	Chelsea Thorn	Infection responsive delivery of a glycoside hydrolase and antibiotic combination	
P38	Wantida Chaiyana	Physical stability enhancement of cocooeeextract by W/O/W Nanoemulsion	
P39	Suvimol Somwongin	Development of nano delivery systems containing bee venom for cosmetic/cosmeceutical purposes	
P40	Ju-Yen Fu	Evaluation of tocotrienol nano-vesicles on reconstructed human skin model	
P41	Saji Maghrebi	Development and in-vitro characterization of novel PLGA nanoparticle-Lipid Hybrid (PLH) microparticles for pulmonary delivery of rifampicin	
P42	Natnaree Laothaweerungsawat	Chemical compositions, antioxidant and anti-ageing activities of essential oils from Thai highland plants	
P43	Nograzwani Zalnol	In-vitro digestion study of spinach lipid extract in o/w emulsion to control lipolysis	
P44	Ronak Subodhkumar Bhuptani	Starch microsponges for enhanced retention and efficacy of topical sunscreens	
P45	Tran The Thien	Dry powder inhaler of ciprofloxacin nanoplex as a new therapeutic avenue for bronchiectasis	
P46	Suria Ramli	Effect of limonene on the Oleic Acid-based Microemulsion	
P47	Heena V. Maithania	Buparvaquone solid lipid nanoparticles for targeted delivery in theileriosis	
P48	Doryn Tan	Storage stability of thermo-responsive chitosan hydrogel	
P49	Chanun Punyoyai	Antioxidant and anti-acne activities of Senna siamea extract	
P50	Adeel Masood Butt	Doxorubicin and siRNA co-delivery for enhanced efficacy against MDR tumors	
P51	Sitthinon Ousamanee	TiO2 mesoporous film opportunity for antibiotic coated implants	
P52	Shankaraiah Puligilla	Curcumin enhance the intestinal transport of vinblastine by insitu permeability and	
P53	Shariza Sahudin	Self-assembled chitosan nationarticles for improved percutaneous delivery of cosmetic	
P54	Plangpetch Tanngoen	Film-forming gels containing alpha-mangostin; physicochemical characterization and antibacterial activity	

Balaji Institute of Pharmaceutical Sciences Laknepally (V), Narsampet (M) Warangal (Dt) - 508 331 (T.S)

Formulation, Evaluation and Cytotoxic potential of Metronidazole Loaded Poloxamer 407 hydrogel in SCC-29 Cell Lines

Manish Kumar Thimmaraju ¹, Vandana Pamulaparthy²,

1, ² Department of Pharmaceutical Analysis, Central Analytical Laboratory,
Balaji Institute of Pharmaceutical Sciences, Narsampet, Warangal, Telangana, India.

ABSTRACT SUMMARY

The present research work was planned to formulate poloxamer 407 based hydrogel formulations of metronidazole and the evaluation of various parameters like swelling behavior, drug PH stability, in vitro and in vivo drug release and in vitro cytotoxic activity. Two different concentrations of metronidazole hydrogel formulations were prepared. Hydrogel formulation F1 showed improved percentage control growth when compared to F2 hydrogel formulation and metronidazole alone.

INTRODUCTION

Metronidazole (MT) which is chemically 5 nitoimidazole derivatives with the molecular weight of 171.156, gm/mol and with a molecular formula C6H9N3O3. It is used for the treatment of Vaginitis, Amebiasis, giardiasis, trochomonas infections and several anaerobic bacterial infections. These hydrogels have been characterized by their ability to carry a significant amount of drug. They are also, non toxic biodegradable and stable, therefore suitable for uses in controlled release formulations.

Extensive review of literature also revealed that till there was no hydrogel formulation of MT has been tested for its cytotoxic property, therefore in this present study we compared the cytotoxic property of MT and MT and its hydrogel formulations to investigate drug released from the prepared hydrogel show its cytotoxic property.

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EXPERIMENTAL METHODS

Poloxamer-407, Water purified by reverse osmosis, MilliQ, USA and further filtered by 0.22 μm membrane filter. HPLC grade methanol Metronidazole (99.41% purity).

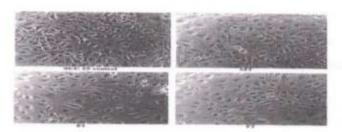
Preparation of Metronidazole loaded Poloxomer hydrogel-Metronidazole loaded hydrogel formulations (F1 and F2) were formulated by dissolving 150 mg poloxamer 407 in Millipore water. After hydrogel formulation of metronidazole following evaluation for various parameters were carried out like, HPLC Analytical method- The concentration of MT in hydrogel was determined using developed validated analytical method. Study of Swelling behavior of hydrogels in Pseudo Extra Cellular Fluid (PECF)-Prepared hydrogels (F1 and F2) were investigated of their swelling properties 12 in PECF solution. Stability study of MT and hydrogel at different pH- By using various pH (3.5, 5.5 and 6.8), stability study was conducted for the prepared hydrogels. In vitro release of MT from hydrogels- The released MT was using determined HPLC analytical Determination of bioavailability of MT loaded Hydrogel formulations- the blood samples and the samples were subjected to protein precipitation and quantity was estimated using validated HPLC method.

Invitro cytotoxicity study- To investigate the cytotoxic activity the SCC 29 cancer cell lines were used.

RESULTS AND DISCUSSION

Calibration data of the metronidazole in selected solvent system

Concentration(mcg/ml)	Peak area(mean)	%RSD
0.1	68005	1.21
0.5	344493	0.73
1	691833	0.36
3	2065511	0.64
5	3366894	0.59
8	5600710	0.72
12	8351507	0.62
15	10283225	0.33



The SCC-29 colon cancer cell lines treated with MT and hydrogel formulations (F1-F2)

CONCLUSION

Rely on empirical evidences; the present study confirmed that prepared metronidazole hydrogel formulations have showed better bioavailability and P^H stability. Among two formulations F1 has shown little better cytotoxicity over F2 formulation when compared to metronidazole alone. Hence metronidazole loaded hydrogel formulations can be considered to be a promising system for the delivery of metronidazole for cytotoxic potential.

REFERENCES

Mayol L, Quaglia F, Borzacchiello A, Ambrosio L, Rotonda MlL. A novel poloxamers/hyaluronic acid in situ forming hydrogel for drug delivery: rheological, mucoadhesive and in vitro release properties. Eur J Pharm Biopharm. 2008; 70(1):199-206.

Irene Tsina, Frances Chu, Martin Kaloostian, Marian Pettibone & Anne Wu. HPLC Method for the Determination of Metronidazole in Human Plasma. *Journal of liquid chromatography and related technologies*. **1996**, 19(6), 957-967

Acknowledgement:

Authors are thankful to management of Balaii Institute
of Pharmaceutical Sciences for providing research

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Warangal (Dt) - 506 331 (T.S)

Controlled Release Asia (CRA) Meeting-24th & 25th September, 2018

Matrix Building - Biopolis, Singapore



Formulation, Evaluation and Cytotoxic Potential of Metronidazole Loaded Poloxamer 407 Hydrogel in SCC-29 Cell Lines

Manish Kumar Thimmaraju¹, Vandana Pamulaparthy², N.Raghunandan³ 1,2,3 Department of Pharmaceutical Analysis, Central Analytical Laboratory, Balaji Institute of Pharmaceutical Sciences, Narsampet, Warangal, Telangana, India

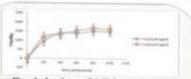
Abstract

The present research work was planned to formulate poloxamer 407 based hydrogel formulations Metronidazole and the evaluation of various parameters like swelling behavior, drug pH stability, in vitro drug release and in vitro cytotoxic activity. Two different concentrations of metronidazole hydrogel formulations were prepared, Hydrogel formulation F1 showed improved percentage control growth when compared to F2 hydrogel formulation and metronidazole alone.

Experimental methods

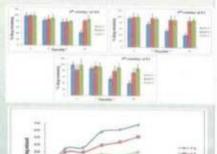
Poloxamer-407, Water purified by reverse osmosis, MilliQ, USA and further filtered by 0.22 µm membrane filter. HPLC grade methanol Metronidazole (99.41% purity). Preparation of Metronidazole loaded Poloxomer 407 hydrogel-Metronidazole loaded hydrogel formulations (F1 and F2) were formulated by dissolving 150 mg poloxamer 407 in Millipore water.

hydrogel formulation metronidazole following evaluation for various parameters were carried out like. Analytical methodconcentration of MT in hydrogel was determined using developed validated analytical method



Swelling behaviour of MT loaded hydrogel formulations (F1 and F2)

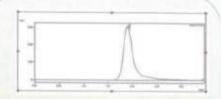
Stability study of metronidazole hydrogels formulations at different Pit



The in vitro drug dissolution profile of MT and MT loaded hydrogel formulations

Introduction

Metronidazole (MT) which is chemically 5 nitroimidazole derivatives with the molecular weight of 171.156, gm/mol and with a molecular formula C.H.N.O. It is used for the treatment of Vaginitis, giardiasis, trochomonas infections and several anaerobic bacterial infections. These hydrogels have been characterized by their ability to carry a significant amount of drug. They are also, non toxic biodegradable and stable, therefore suitable for uses in controlled release formulations. Extensive review of literature also revealed that till there was no hydrogel formulation of MT has been tested for its cytotoxic property.



Chromatogram of metronidazole at 15 ug/mL using mobile phase Methanol: water (70:30 v/v).

(ng/mL)	Peak area (menn)	% RSD ^a
0.1	68005	1.21
0.5	344493	0.73
1	691833	0.36
3	2065511	0.64
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* A	5600710	0.72
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15	10283225	0.33

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hydrogid formulations (F1-F3)



formulations (F1 F2) on SCC 29 cell lines

Conclusion

Rely on empirical evidences; the present study confirmed that prepared metronidazole hydrogel formulations have showed better bioavailability and PH stability. Among two formulations F1 has shown little better cytotoxicity over F2 formulation when compared to metronidazole alone. Hence metronidazole loaded hydrogel formulations can be considered to be a promising system for the delivery of metronidazole for cytotoxic potential

Thimmaraju MK, Bheemanapally K, Dharavath R, Kakaria L, Botlagunta M. Improved anticancer activity of meloxicam hydrogels in K562 and HL60 cell lines. J Young Pharm. 2017;9(2):209-13.

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A Koler V. Mandal S. mondal, P. Investigation of Cytotoxic Activity of Property Pt. G. Nationarricle Formulations of McGrigam in 1779 Colon Cancer Cell Pages, Lat. Am. J. Pharm. 2017; 101 (2) 2470-2570.

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Asia-Pacific Region Chapters

17 August 2018

LETTER OF ACCEPTANCE TO PRESENT AT THE 1st CONTROLLED RELEASE ASIA (CRA) MEETING

Dear Dr Dalapathi Gugulothu (Passport No L4349809; 22/08/2013 - 21/08/2023)

Thank you for submitting an abstract for the first Controlled Release Asia (CRA) meeting, which will be held on the 24th and 25th of September 2018 in Singapore.

We are delighted to inform you that your abstract titled "Exploring Various Natural Mucilages as a Pharmaceutical Additives in Advanced Drug Delivery Systems" has been accepted for a poster presentation at the conference.

If you are unable to attend the conference, it is important that you inform us as soon as possible.

We look forward to your participation in the meeting.

Best regards,

Dr Malinda Salim (Secretary-Controlled Release Asia Meeting)

Drug Delivery, Disposition and Dynamics

Monash Institute of Pharmaceutical Sciences

Monash University (Parkville Campus)

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Victoria 3052, Australia

PHARMACE TO PHARMA

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Laknepally (V), Narsampet (M)
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Exploring Various Natural Mucilages as a Pharmaceutical Additives in Advanced Drug Delivery Systems

Dalapathi Gugulothu, Suraj Kumar Choudhary Balaji Institute of Pharmaceutical Sciences Laknepally (V), Narsampet, Warangal Rural, Telangana, 506331, India Email: daluqugulothu@gmail.com

ABSTRACT SUMMARY

The mucilages were extracted from Coccinia grandis fruit, Rumex vasicarious leaves, Fenugreek and Colocasia esculanta tubes using solvent precipitation method and subjected for evaluation of various physicochemical, micromeritics properties, FTIR, DSC, XRD, bloadheisve properties, gel strength and Viscosity. The results of the said evaluation parameters indicated that the extracted mucilages are excellent excipients for drug delivery applications as compared to synthetic polymers.

INTRODUCTION

Currently, the plant derived natural mucilages or biopolymers are tremendously increasing demand in the pharmaceutical applications. They are used as diluents, binders, disintegrants, thickeners, antioxidants, protective colloids, gelling agents and cosmetic applications. Today, the entire globe is showing interested in natural drugs and excipients because of their chemically inert, biocompatible, nontoxic, less expensive, biodegradable, widely available, non irritant and Eco-friendly. In the present investigation, we have extracted the mucilages Coccinia grandis fruit(CG), Rumex vasicarious leaves(RV), Fenugreek(FG) Colocasia esculanta(CE) tubes for exploring as a pharmaceutical additives or excipients for the development of Advanced Drug Delivery Systems and which are very good substitutes for synthetic excipients.

EXPERIMENTAL METHODS

The mucilages were extracted from CG, RV, FG and CE using the solvent precipitation method and subjected for evaluation of various physicochemical properties, Malisch test, Ruthenium red test, Iodine test, FeCl3 test, Silver nitrate test and Barium chloride test for confirmation mucilages. Furthermore, the mucilages also evaluated for bulk and tapped density, Compressibility index, Hausners ratio, Angle of repose, FTIR, DSC, XRD, bioadheisve properties, gel strength and Viscosity studies; finally compared with the synthetic polymers.

RESULTS AND DISCUSSION

The mucilages were successfully extracted from CG, RV, FG and CE tubes using the solvent precipitation method. The percentage yield was 7.7 %, 6.5 % 13 % and 16 % respectively for CG. RV, FG and CE. The results of the compressibility index and angle of repose were shown in Table 1. and these results indicated that mucilages obtained from RV, FG and CE was exhibited excellent flow properties and CG mucilage was shown good flow behavior. The results of the FTIR, DSC and XRD studies indicated that the extracted mucilages were amorphous in nature. Furthermore, the results bloadhesive, gel strength and viscosity data for extracted mucilages was comparable to the HPMC K4M, HPMC CPS15, Guar gum, Xanthan gum and Tragacanth at the concentration of 10 % gel.

Table 1 Results of the Compressibity index and Angle of repose of the extracted mucilages.

Mucilage obtained from	Compressibility Index (%)	Angle of Repose(θ)
CG fruit	18.91	25, ,
RV leaves	13.71	20
FG	13.15	22
CE tubes	14.41	19

CONCLUSION

The mucilages were successfully extracted from CG fruit, RV leaves, FG and CE tubes using the solvent precipitation method. Based on the results of the all characterizations parameters; the mucilages are successfully employed as versatile pharmaceutical excipients in advanced drug delivery systems and substitute for the synthetic polymers.

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- 2. Girish, K.J.; Dhiren, P.S.; Vipul, D.P.; et al. Asian J Pharm Sci. 2009, 4 (5), 308-322.
- 3. Vipul, D.P.; Girish, K.J.; Naresh, G. M.; et al. Carbohydr Polym, 2013, 92, 1685-1699.

Acknowledgement: The author is thankful to Science and Engineering Research Board (SERB) New Delhi for funding this research work.

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Scientific Services Committee

Indian Pharmaceutical Congress Association 70th Indian Pharmaceutical Congress 21st to 23rd December 2018 Theme: Indian Pharma Industry- A Global Leader

Venue: Amity University Campus, Delhi-NCR



Acceptance of Paper for Poster Presentation at 70th Indian Pharmaceutical Congress

October, 24, 2018

Dear Dr.MANISH KUMAR THIMMARAJU.

We are pleased to inform you that your paper entitled "Design and in vitro evaluation of gastro retentive oral matrix tablet formulations of Ketorolac Tromethamine" has been accepted for presentation as "Poster No:A-64" in Poster Session at the 70th Indian Pharmaceutical Congress.

As a presenter, you must be a registered delegate for the 70th IPC. However, only the Abstracts of those presenters, who are registered by 31st October 2018, will be published in the final abstract CD. You should have your registration badge at the poster venue in order to present the poster.

Registration Committee

For Registration details log into http://70ipc.in/registration.aspx

For Online registration log into http://70ipc.in/registratic

For registration and general information: http://www.70ipc.in/

For scientific sessions/poster presentation related information:

Website: www.scientificipca.org; Email: ssc@70ipc.in

Kindly have your membership details at the time of poster presentation or in case you have applied for membership and have not received the membership number as yet, you may have the Photostat copy of the membership payment receipt / DD raised for the purpose as proof.

Kindly bring a copy of this letter and photo ID for identification at the poster presentation. Your date of presentation will be displayed on the website (www.scientificipca.org) by 10th November, 2018.

It is also mandatory for the presenting author to submit the duly signed author declaration form at the time of poster presentation. The same is available along with this letter or it may be downloaded from the website (at downloads http://www.scientificipca.org/downloads.php. The letter of acceptance can also be downloaded by signing in on the website with the username and password provided at the time of registration for paper submission

The area provided for poster presentation will be about 0.95 meter (95 cm) wide by 1.2 meter height (120 cm). For more detail about poster specifications, kindly look into http://www.scientificipca.org/posterspec.php

Note: Poster presenter have to bring their necessary stationery (Adhesive tape, Pins etc.,) since there will not be any facility available in the venue.

We look forward to meet you at 70th IPC.

Kind regards,

Prof.K.P.R.Chowdary, Co-Convenor - SSC Dr. Arun Garg, LOC-SSC

Dr.A.Ramkishan, Convenor - SSC



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Scientific Services Committee

Indian Pharmaceutical Congress Association 70th Indian Pharmaceutical Congress 21st to 23rd December 2018

Theme: Indian Pharma Industry- A Global Leader Venue: Amity University Campus, Delhi-NCR



Author Declaration Form

Name of the presenting author: Dr.MANISH KUMAR THIMMARAJU

Affiliation: Balaji institute of pharmaceutical sciences

Title of the Paper: Design and in vitro evaluation of gastro retentive oral matrix tablet formulations of Ketorolac

Section: Pharmaceutical Technology

Poster Code: A-64

- 1. I hereby declare that the paper presented mentioned above is an original work / draft carried out significantly by
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