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## LABORATORY MANUAL OF PHARMACEUTICS - I



Authors

Dr. N. Raghavendra Naveen

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## CHAPTER 53

### Bioactives and Pharmacology of *Premna herbacea* Roxb. (Family: Lamiaceae)

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#### 53.1 INTRODUCTION

*Premna herbacea* Roxb. [Syn.: *Pygmacoprema herbacea* (Roxb.) Moldenke] is an herbaceous low-growing perennial plant or an undershrub with its stems growing up to a length of 15 cm or occasionally even up to 30 cm growth can be observed. Stem part of *P. herbacea* is mostly underground and has rhizome with creeping woody nature. The aerial branching is slender and single dichotomous. Occasionally the plant, especially the fruit, is used as food and rhizomes and roots are employed for medicinal use also. This plant is cultivated in India for medicinal use and as well in Sri Lanka also. This plant is distributed in East Asian countries like India, Sri Lanka, Indonesia, Malaysia, Vietnam, Laos, Cambodia, Thailand, Myanmar, Australia, New Guinea, the Philippines, and Southern China. The roots and rhizomes are used for the treatment of fever, cholera,



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**AYURVEDIC REMEDIES FOR PULMONARY TUBERCULOSIS**

Dr. D. Giri rajasekhar\*, Dr. D. Swarnalatha, Mr. A. Nagendra,  
Mr. T. Sasi kumar, Mr. S. Surya kiran  
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**ABSTRACT:**

Pulmonary tuberculosis is a highly infectious disease declared a global health emergency by the World Health Organization. It is an age-old disease described in Vedic Medicine as 'Yakshma'. Later on, in Ayurveda, it earned a prefix and found its way into mythology as 'Rajayakshma'. It is the main cause of morbidity in the modern era. The use of allopathic medicine in tuberculosis is associated with the problem of cross-resistance and herbal drugs have proven to be most effective in this context. To reduce the adverse effects of antimycobacterial therapies, natural plant products are used as adjuvants and also play an important role in reversing the mycobacterial multi-

Worldwide. In 2019, an estimated 10 million people fell ill with tuberculosis worldwide. 5.6 million men, 3.2 million women, and 1.2 million children. Tuberculosis is present in all countries and age groups. But tuberculosis is curable and preventable. [1]  
In the 1700s Europeans called tuberculosis as "the Great white plague". Humans are first infected with *Mycobacterium bovis*. *Mycobacterium tuberculosis* killed more persons than other microbial pathogens. In 1905 for elucidation of the etiology of tuberculosis, Kochs was awarded a nobel prize in the medicine of physiology. Tuberculin skin test was developed by Clemens von Piauquet in 1907. Early in the 19<sup>th</sup> century tuberculosis was reported

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## Blockchain Technology: A Breakthrough in the

## Healthcare Sector

Lakshmi Narasimha Gunturu ✉, Girirajsekhar Dornadula & Raghavendra Naveen Nimbagal

Chapter | First Online: 08 March 2022

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### Abstract

The health care system is generally considered to be a mosaic with various domains. By its composite nature even though it has endured with profound innovations in areas like drug development, vaccine production, recruitment in clinical trials, and technology integration, it is further essential to strengthen in certain areas like patient-level data administration, data examination with precision, drug supply maintenance, pharmaceutical domains, and security concerns. To improve those areas Blockchain technology plays a vital role with its enhanced framework features. It can annihilate the problems that trouble the healthcare system and mould the health care by placing the patient within its core level to improve security and patient-level satisfaction. Therefore, Blockchain technology has asserted itself as an irreplaceable technology in the health care system. This chapter reviews the rationale behind the use of blockchain technology in health care, the latest applications of blockchain

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Chapter

## Conducting Polymers

An Efficient Way to Deal with Medical and Industrial Fouling

By N. Raghavendra Naveen, Girirajasekhara Dornadula, Pamyayogari Kaipana, Lakshmi Narasimha Gunturu

Book Conducting Polymers

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### ABSTRACT

Fouling is an unpleasant event where reversible/irreversible adhesion of microorganisms, macro biomolecules, or suspended particulate matter occurs. Medically, this phenomenon turns out to be a hurdle by precipitating the genesis of microbial biofilms or biofouling on medical devices, implantable, and biosensors, which sequentially accelerate health risks like augmented-infection-spread implant rejections and diminished device capacity. Further fouling poses a critical problem in the industrial sector by its deleterious

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## Internet of Health Things (IoHT): The Significance of Virtual Tools Aiding to Overcome Novel Coronavirus (COVID-19) Pandemic

Lakshmi Narasimha Gunturu & Girirajasekhar Dornadula

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### Abstract

Severe Acute Respiratory Syndrome virus 2 (SARS-CoV-2), a viral infection of novel coronavirus that originated in Wuhan, China, led to panic among the public and health care professionals due to its rapid spread around the world. Health care professionals and researchers at present days are targeting various approaches for the detection and prevention of viral growth. One of the best approaches to tackle this pandemic is the implementation of the Internet of Health things (IoHT) based on Artificial Intelligence (AI) approaches in healthcare. Internet of Health Things (IoHT) is a smart technology-based approach where a person can take self-care by the



## Internet of Health Things (IoHT): The Significance of Virtual Tools Aiding to Overcome Novel Coronavirus (COVID-19) Pandemic

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**AYURVEDIC REMEDIES FOR  
HIV INFECTION**Dr. D.Girirajasekhar\*, Dr. D.Swarnalatha, P.Sai charan,  
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AYURVEDIC REMEDIES FOR HIV II

**ABSTRACT:**

India has the third-largest HIV epidemic globally, with nearly 2.1 million people in India living with HIV. HIV/AIDS has had a vast impact on the world, both as an illness and as a source of discrimination. HIV is a "human immunodeficiency virus", which is a causative agent for AIDS. It directly impacts the immune system over time. The immune system and the body lose their ability to fight the virus. HIV belongs to the family of RNA viruses known as retrovirus. As we know, no cure exists for AIDS, yet strict adherence to antiretroviral therapy can dramatically slow down the disease progression. Although viral load can be suppressed by antiretroviral therapy, these drugs

**INTRODUCTION:**

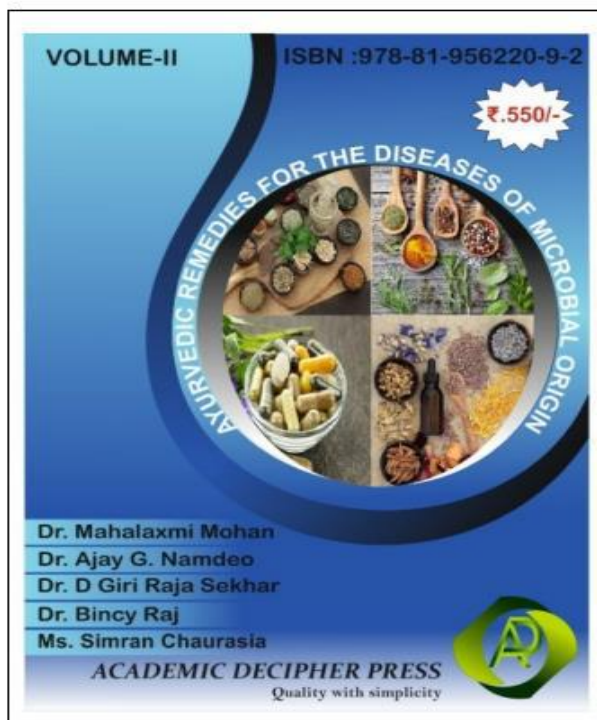
The Human Immunodeficiency Virus (HIV) infects cells of the immune system, destroying or impairing their function. This leads to the continuous deterioration of the immune system, leading to "Acquired Immune Deficiency Syndrome (AIDS)". The immune-deficient system can no longer fulfill its role of fighting infection and a person starts getting various "opportunistic infections".<sup>[1]</sup>

**Types of HIV:**

HIV Viruses are of Two Types.

1. HIV – 1: - Discovered in 1983
2. HIV – 2: - Discovered in 1986

These two viruses have almost identical genetic structures and also have the same mode of transmission



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**AYURVEDIC REMEDIES FOR  
ATHLETE'S FOOT**

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**ABSTRACT**

The incidence of fungal diseases is increasing at an alarming rate, approximately 6 cases per 1,00,000 persons per year. According to a survey, it is estimated that only half of the fungal infections were detected during a patient's lifetime, which results in the spreading of disease within and between persons, causing morbidity and mortality worldwide. The prevalence of tinea pedis, dermatophytic infection of feet, has been conducted among swimmers, and people who regularly practice physical activities may have a clinical and subclinical infection. The rate of infection is high in older age groups. The prevalence of infection was 24.2% in men and 6.1% in women. Due to the

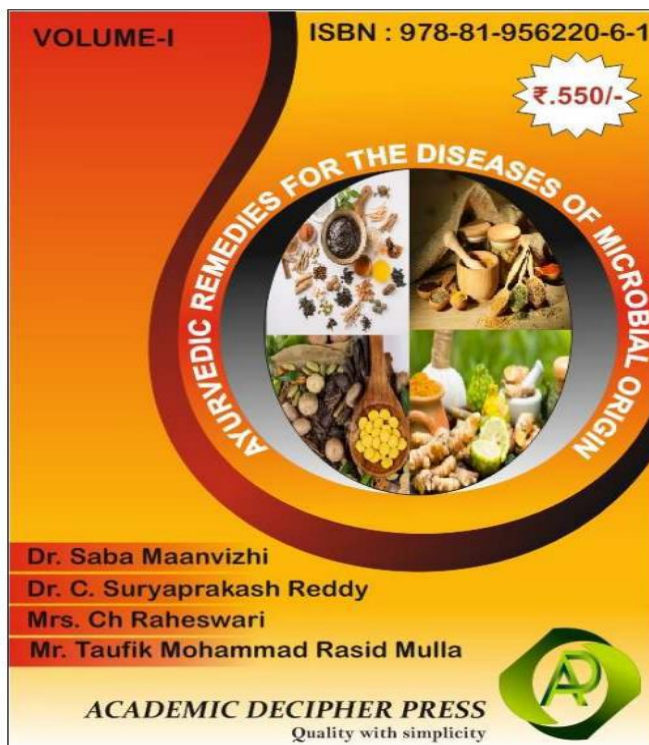
**Aetiology**

The most common etiological agents include anthropophilic, including *Trichophyton rubrum sensu stricto sensu* (most common), *Trichophyton interdigitale* and *Epidermophyton floccosum*. [2]. Athlete's foot mainly occurs in people whose feet are more sweaty confined with tight shoes because they squeeze the toes together, creating favourable conditions to fungal growth, prolonged exposure to water and this disease is most prominent in patients with the weakened immune system, diabetes mellitus.

**Sources to spread**

1. Direct contact may occur when an

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*Annona squamosa*, a well known plant all over the world with edible fruits. Various parts of this plant especially leaves are known to possess many medicinal properties which were selected for further work. This book contains *in vitro* antioxidant activity performed by DPPH, Nitric oxide radical, hydroxyl radical scavenging assay and Reducing power assay and results were assessed from percentage of inhibition. *In vitro* and *In vivo* nephroprotective activity of *Annona squamosa* leaves against Paracetamol, Gentamicin and Amphotericin B. Results were analysed from various parameters such as cytotoxicity and cytoprotectivity for *in vitro*, serum tissue antioxidant parameters and histopathological studies for *in vivo*. All the results showed protective effect of *Annona squamosa* leaves.

SATRASALA NEELIMA  
P. DWARAKANADHA REDDY  
KOTHAPALLI BANNOCH CHANDRA SEKHAR

## INVESTIGATION OF ANTIOXIDANT AND NEPHROPROTECTIVITY OF ANNONA SQUAMOSA

Evaluation of Leaves of *Annona squamosa* for  
antioxidant and nephroprotective activities: *In vitro*  
and *in vivo* models



NEELIMA, REDDY, CHANDRA SEKHAR

My passion for research comes from my experience. Over the years, I have developed strong writing skills, great interest towards research in medically important plants involving pre clinical studies, systematic and meta-analysis studies which could further benefit man kind. I always cherish in finding novelty in area of pharmacological research.





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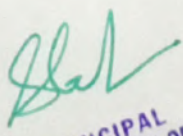
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Novel coronavirus 19 (COVID-19) had made the lives of humans in dilemma since its outburst from Wuhan, China on December 31, 2019, and is declared as a pandemic by the World Health Organization (WHO). Its spread had been very rapid among the people which is a real task for the authorities to identify the persons infected with viruses and isolate them to prevent virus transmission. At present, various diagnostic aids are used in health care centres to screen the public with the symptoms of COVID-19. However, the use of conventional medical aids is of no

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Rajampet, Andhra Pradesh, India.**Girirajasekhar Dornadula**Department of Pharmacy Practice, Annamacharya College of Pharmacy,  
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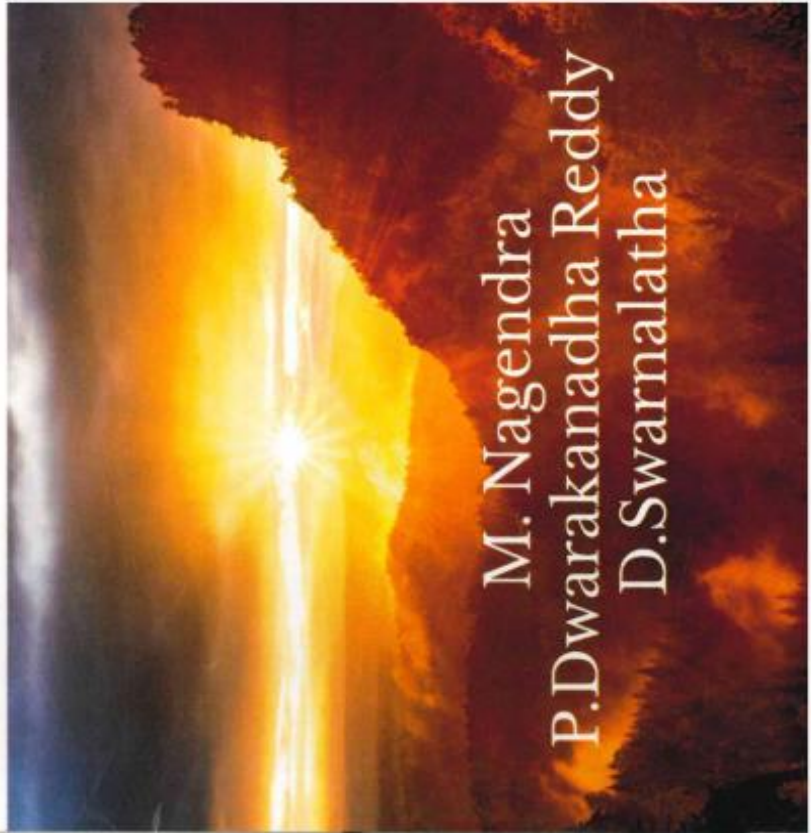
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E. Gireesh Kumar  
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During daily ward rounds in the hospital with physicians and other health care professionals we usually notice patients with different diseases, but suicide is a condition where a person intentionally brings about his or her own death. Hence this came as initiative for being writing this book. This book covers importantly the global epidemiology of suicides and underlying etiological factors along with the importance of psychiatric pharmacotherapy in management. I hope after reading this book you can understand the various reasons for suicides among different age groups with a hesitation cut and importance of patient counseling through Cognitive Behavioral Therapy (CBT) and Dialectical Behavior Therapy (DBT).

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## A Prospective Study on Hesitation Cuts Among Suicidal Patients

Hesitation Cuts Among Suicidal Patients and Their  
Treatment Outcomes



Dr. D. Giri Raja Sekhar presently working as Associate Professor in Annamacharya College of Pharmacy, Department of Pharmacy Practice, Rajampet as well as Preceptor and Internship coordinator. I had eight years of professional experience as an academician in teaching and research, published several articles in national and international journals.



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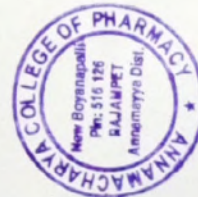
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By (author) :	Lakshmi Narasimha Gunturu* Girirajasekhar Dornadula Pramod Nayanapalli
Number of pages:	88
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Category:	Medicine

web link: <https://www.lap-publishing.com/catalog/details/store/tr/book/978-620-2-56359-8/insight-to-toxic-epidermal-necrolysis-and-drug-induced-skin-reactions?search=Insight%20to%20Toxic%20Epidermal%20Necrolysis%20and%20Drug%20Induced%20Skin%20reactions%20Overview%20on%20Toxic%20Epidermal%20Necrolysis%20and%20Drug%20Induced%20Dermatology%20reactions:%20A%20Pharmacist%20Perspective>

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# AY: 2018-2019



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File Number: 3.3.2. (2)

AY: 2018-2019				
S.No.	Name of the teacher	Title of the paper/ Title of the proceedings	Name of the conference (National/ International)	Year
1.	Mohamed Saleem TS	Antioxidant, Anti inflammatory and endothelial proactive role of Sesamol against Myocardial Ischemic Reperfusion Injury in Experimental Rat	SCON <b>International</b> Conference on Food Science, Nutrition And Public Health ( <b>International</b> )	June 27 <sup>th</sup> & 28 <sup>th</sup> , 2019 Singapore
2.	M. Madhu	Stability indicating UPLC method development and validation for estimation of Safinamide in tablet dosage form	Interdisciplinary conference on Healthcare and technical research (ICHTR) 2018 ( <b>International</b> )	October 29-31, 2018
3.	Y. Pradeep Kumar	Microwave assisted synthesis, Insilico and invitro anti cancer screening of 2-oxaazetedinyl pyrazine- 2-carboxamide derivatives	70 <sup>th</sup> IPC (Indian Pharmaceutical Congress) 2018 ( <b>International</b> )	December 21-23, 2018
4.	S Chand Basha	In vitro anti arthritic activity of Sulphoraphana	World Congress on Infectious diseases and antibiotics, 2018 ( <b>International</b> )	November 28 <sup>th</sup> and 29 <sup>th</sup> , 2018
5.	M. Madhu	Development and Validation of UPLC..... in bulk and its tablet dosage forms.	Andhra Pradesh Science Congress 2018 ( <b>National</b> )	November 9-11, 2018

  
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SCHOLARENA

**Certificate of Recognition**

The Organizing Committee of SCON Food Science-2019  
hereby expresses its most appreciation to

Prof/Dr/Mr/Ms. **Mohamed Saleem T S**

*Annamacharya College of Pharmacy, India*

*for his/her phenomenal and worthy oral presentation on*

*“Antioxidant, Anti-inflammatory and Endothelial  
Protective Role of Sesamol against Myocardial Ischemic  
Reperfusion Injury in Experimental Rat” at the*

*SCON International Conference on Food Science, Nutrition and Public Health  
held during June 27-28, 2019 in Singapore*

*Kabbey*

**Karen Abbey**

*University of Queensland, Australia*

*[Signature]*

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**SCON Food Science 2019 Organizing Committee Members**



*Susheela Andezhath Kumaran      Venkatachalam Anbumozhi*

*University of Queensland, Australia    Fluorosis Foundation of India, India    Economic Research Institute for ASEAN and East Asia, Indonesia*



# Certificate for Poster Presentation

**70<sup>th</sup> IPC**  
INDIAN PHARMACEUTICAL CONGRESS  
December 21-23, 2018 Delhi NCR



Indian Pharmaceutical Congress Association  
hereby declares that

Dr / Mr / Ms *Y. Pradeep Kumar*.....

Theme :

Pharma Vision 2030 :  
Indian Pharma Industry -  
A Global Leader

has presented a paper entitled

*Microwave Assisted Synthesis, In-Silico and In-vitro Anti Cancer  
Screening of Z-CARBAZETEDINYL P.YRAZINE-2-CARBOXYAMIDE Derivatives*

in the Scientific Session during 70th IPC 2018



Organised by :  
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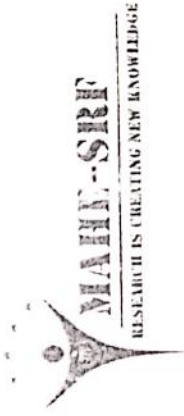
*Dilip Shrivastava*  
President, IIPA  
*B.R. Sankar*  
Chairman, IIPA  
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3.3.4



# Interdisciplinary Conference on Healthcare & Technical Research (ICHTR 2018)

3.3.4

## Certificate

This is to certify that Dr/Mr/Ms MADHU MEDABALIM presented a Poster/  
Oral paper titled Stability indicating UPLC method development and validation for estimation of salinomide in tablet dosage form Interdisciplinary Conference on Healthcare & Technical Research (ICHTR 2018) held at Manipal Academy of Higher Education, Manipal, during October 29-31, 2018.



Patish Shenoy B  
Director Research  
Technical, MAHE, Manipal

*[Signature]*

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*[Signature]*

Dr N Udupa  
Director Research  
Health Sciences, MAHE, Manipal



## CERTIFICATE OF EXCELLENCE

This is to certify that

**CHAND BASHA SHAIK**

Dr./Mr./Ms. \_\_\_\_\_

has presented Scientific Paper entitled

Invitro Anti-arthritis Activity of Sulforaphane

in the Oral / Poster Presentation Session of the  
World Congress on Infectious Diseases & Antibiotics - 2018  
held on 28th & 29th November 2018

J.N.Tata Auditorium, Indian Institute of Science, Bengaluru, INDIA.



Dr. V.P. Rao  
Convener,

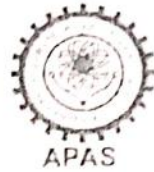
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Lt. Gen. Dr. D. Raghunath  
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World Congress on Infectious Diseases  
& Antibiotics - 2018



Andhra Pradesh Akademi of Sciences  
Amaravati



in association with

Yogi Vemana University, Kadapa

ANDHRA PRADESH SCIENCE CONGRESS - 2018

*Integrating Science and Society for Global Sustainability*

9-11 November, 2018

Certificate of Participation

This is to certify that Prof/Dr/Mr/Ms MADHU MEDABALINI,  
JNTU, ANANTHAPURAM, RESEARCH SCHOLAR has  
participated in the Andhra Pradesh Science Congress held at  
Yogi Vemana University during 9-11 November, 2018 and  
chaired a session / presented a paper Development and Validation  
of UPLC in bulk and its tablet dosage  
forms.



Prof. K. Vasaveeswara Rao  
Hon. Secy. Chairman, APSC-2018  
AP Akademi of Sciences, AMARAVATHI



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File Number: 3.3.2. (2)

AY:2017-2018				
S.No.	Name of the Teacher	Title of the Book/Book Chapter	Name of the conference (National/ International)	Year
1.	Dwarakanandha Reddy Peram	Design, Development and characterization of pioglitazone transdermal drug delivery system	Hong kong Pharmacy conference 2018 The Pharmaceutical Society of Hong Kong	2018

  
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**Hong Kong Pharmacy Conference 2018**  
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The Practising Pharmacists Association of Hong Kong  
The Society of Hospital Pharmacists of Hong Kong*

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## Poster Presentations

**Ab24**

### Design, Development and Characterization of Pioglitazone Transdermal Drug Delivery System

**REDDY, Dwarakanadha Peram; SWARNALATHA, D; GOPINATH, C**

Annamacharya College of Pharmacy, India

The main aim of this research work was to design and development characterization of Pioglitazone transdermal drug delivery system by using various polymers such as Olibanum with different concentration by solvent evaporation technique. The prepared formulations were evaluated for different physicochemical characteristics like thickness, folding endurance, drug content, percentage moisture absorption, percentage moisture loss, percentage elongation break test and weight uniformity. The diffusion studies were performed by using modified Franz diffusion cells. The result of dissolution studies shows that formulation, F3 (Olibanum with 50 mg) showed maximum release of 99.95 % in 12hrs, whereas F1 (Olibanum and EC backing membrane) showed minimum release of 93.65% in 12 hr. Based on the drug release and physicochemical values obtained the formulation F3 is considered as an optimized formulation which shows higher percentage of drug release of 99.95 % in 12 hr. The developed transdermal patches increase the therapeutic efficacy and reduced toxic effect of pioglitazone.

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