

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Link to the website
1	Dr.Arifa Begum	Artificial intelligence and emerging technologies in multidisciplinary aspects	Artificial intelligence; A promise of future health care system	chapter-34 Artificial intelligence and emerging technologies in multidisciplinary aspects	NA	National	2023	NA	Bharat Institute of Technology	Mali publications	https://www.researchgate.net/publication/362325448_Artificial_Intelligence_the_promise_of_future_health_care_system
2	Dr. Arifa begum, P.Haritha	Internet of Things :A promise to Smart Healthcare	Internet of Things :A promise to Smart Healthcare	Chapter 11 in Computer & Biomedical Engineering. CRC Press	NA	National	2023	NA	Bharat Institute of Technology	Taylor & Francis Group	https://www.taylorfrancis.com/books/edit/10.1201/9781003307778/artificial-intelligence-telemedicine-kumar-sherin-arifa-eduard-babalak-al-har-alam-furqeen-siddiqui-7ef1d-3d01ca3d-7e48-447d-82e5-092d17b639d&context=abs
3	Dr Bhaskar Jimidi	Book Publication: Essentials of Physical Pharmaceutics-I	NA	NA	NA	National	2023	978-93-93809-08	Bharat Institute of Technology	Brillion Publishing	https://www.brillionpublishing.com/9788119238484/
4	Dr Bhaskar Jimidi	Fundamentals of Pharmaceutics-I	NA	NA	NA	National	2023	978-81-19238-48-4	Bharat Institute of Technology	Brillion Publishing	https://amazon.in/Fundamentals-Pharmaceutice-Bhaskar-Jimidi/dp/8119238486
5	Dr. Shital Patel, Dr Bhuma Srdevi	Renewable Energy and AI for Sustainable Development	Eco-Friendly Cities and Villages with Sustainability Futuristic Perspectives		NA	National	2023	978-10-03369-55-4	Bharat Institute of Technology	CRC press	https://www.taylorfrancis.com/books/edit/10.1201/9781003369554/renewable-energy-ai-sustainable-development-sailesh-iver-anand-mayyar-mohd-muhammad-fad-al-turjuman-7ef1d-321362a-4f79-47e8-89db-25f839f777b&context=abs
6	Kabita Banik, Namratha sunkara, Twila Pushpa, Nahid	Recent Progress in Science and Technology	Quantitative Estimation Preservative Paraben and Niolone 950 Content in Herbal Skin Unguent	NA	NA	International	2023	978-81-19039-34-0	Bharat Institute of Technology	B P International	https://stm.bookpi.org/RPST-V3/article/view/9361
7	Dr. Kalyani Gade, sanchari goswami	climate changes: transition, management, governannce, floods and droughts	Climate changes: transition, management, governannce, floods and droughts	climate change and water security challenges foradaptive water management	NA	National	2022	978-93-91002-02-2	Bharat Institute of Technology	ABS BOOKS DELHI	
8	Azka Fathima	Covid-19 and respiratory system	Covid-19 and respiratory system	Biotechnology and covid-19 pandemic role of biotechnology in covid vaccine development	NA	National	2022	978-93-91002-91-6	Bharat Institute of Technology	ABS BOOKS DELHI	https://www.amazon.in/Biotechnology-Covid-19-Covid-Vaccine-Development/dp/9391002919
9	Dr. Kalyani Gade, Dr Srikanth Gutad	Insights on corona virus disease(covid-19) prevention and treatment	Insights on corona virus disease(covid-19) prevention and treatment	Biotechnology and covid-19 pandemic role of biotechnology in covid vaccine development	NA	National	2022	978-93-91002-91-6	Bharat Institute of Technology	ABS BOOKS DELHI	https://www.amazon.in/Biotechnology-Covid-19-Covid-Vaccine-Development/dp/9391002919
10	Dr. Asra Jabeen	Herbal Drug Technology Practical lab manual	NA	NA	NA	National	2022	978-93-5641-081-7	Bharat Institute of Technology	Nitya Publications	https://nityapublications.com/Book/herbal-drug-technology-practical-lab-manual/
11	Mrs Azka Fathima			LC-MS based strategies for characterization and quantification of antibody drug conjugates	IPC	International	2022	Conference proceeding	Bharat Institute of Technology		
12	Mrs Jyothi Salu, Ms Rachel Nivedita	Evaluation of Novel designed lutan derivatives & derivative compounds against a few fungal species	NA	NA	NA	International	2022	978-93-5547-560-2	Bharat Institute of Technology	B P International	https://stm.bookpi.org/COPS-V7/article/view/9703
13	Sumalatha G and Mounika A	NA	Evaluation of the effect of alcoholism on pharmacodynamic interactions Insulin and Amlodipine in tertiary care Hospital	NA	RAPS	International	2020	Conference proceeding	Bharat Institute of Technology	NA	
14	P. Haritha	NA	All Trans retinoic acid ameliorates chemotherpy induced peripheral neuropathic pain in rats.	NA	IUPHAR world congress on the pharmacology of natural products	International	2019	Conference proceeding	Bharat Institute of Technology	NA	
15	T Akhila and P Keerthi D Kulkarni Sreedharreddy	NA	Outcomes of Living Related Kidney Transplant Recipient With Triple Immunosuppressants Tacrolimus Mycophenolate Steroids At Six Months Post Transplantation	NA	CRHS	International	2019	Conference proceeding	Bharat Institute of Technology	NA	
16	Saipriya P Shobha K Sumalatha G Sreedharreddy	NA	Deceased donor kidney transplant with ATG induction and triple immunosuppressive agents tacrolimus MMF prednisolone	NA	CRHS	International	2019	Conference proceeding	Bharat Institute of Technology	NA	
17	Sumalatha G and Sreedevi A	NA	Evaluation of antiepileptic activity of petroleum ether extract of Acalypha fruticosa	NA	IPACS	International	2019	Conference proceeding	Bharat Institute of Technology	NA	
18	Sumalatha G and Mounika A	NA	Study on the effect of alcoholism on pharmacodynamic interactions among hypertensive patients treated with Amlodipine in tertiary care hospital	NA	Clinicon	International	2019	Conference proceeding	Bharat Institute of Technology	NA	
19	Mihir Y Parmar	NA	Defensive effect of dragon fruit extract against STZ diabetic retinopathy	NA	World congress of diabetes Diabetes India	International	2019	Conference proceeding	Bharat Institute of Technology	NA	
20	P Bharat	NA	Screening of Actinomycetes as the challenging source of Antibiotics	NA	SMCP RAPS	National	2018	Conference proceeding	Bharat Institute of Technology	NA	
21	Mohammed Abid Pasha	NA	Evaluation of adsorption capacity of copper nanoparticles	NA	SMCP RAPS	National	2018	Conference proceeding	Bharat Institute of Technology	NA	
22	Zoha	NA	Clinical effectiveness of ultrasound gel prepared using green synthesized stable and antimicrobial silver nanoparticles	NA	IPTCON a	National	2018	Conference proceeding	Bharat Institute of Technology	NA	
23	P Haritha	NA	Ameliorative effect of benfotiamine in chemotherapy induced peripheral neuropathy	NA	IPTCON a	National	2018	Conference proceeding	Bharat Institute of Technology	NA	
24	B Uma Rajeswari	NA	Biosynthesis of xylase from various agro materials	NA	IPTCON a	National	2018	Conference proceeding	Bharat Institute of Technology	NA	
25	B Uma Rajeswari	NA	Enzyme inhibitors of microbial origin	NA	IPTCON	National	2018	Conference proceeding	Bharat Institute of Technology	NA	
26	Dr Mihir Y Parmar	NA	effect of Dragon fruits extract on STZ induced diabetic neuropathy	NA	Diacon	National	2018	Conference proceeding	Bharat Institute of Technology	NA	

2021-2022

ARTIFICIAL INTELLIGENCE

And Emerging Technologies
In Multidisciplinary Aspects



Prof. S. Jyothi,
Prof. K. Usha Rani,
Prof. P. Uma Maheswari Devi,
Dr. P. Bhargavi

mp mahi
Publication

6	Analysis of Data Crime Using Forensic Tools and Cloud Based Artificial Intelligence Vadetai Saraswathi Bai, T. Sudha	3
7	Artificial Intelligence – A potential tool for Biotechnology and Bioinformatics K. Swetha Kumari, D.M. Mamatha, S. Jyothi	3
8	Ultrasonography Categorization and Segmentation of Covid Using Deep Learning Y. Dharani sree, B. Sony	3
9	Challenges in AI Powered Translation of Literary Texts- A Translator's Perspective P. Hari Padma Rani	3
10	A Secure and Efficient Data Sharing Scheme Using IBBE in Cloud Environment S. Sri Suma, P. Neelima, C. Pradeepthi	3
11	AI Applications & Role of Women in AI Rajani Rajalingam, Priyanka Pulagouni	3
12	AI based Change Detection of Remote sensing data – A comprehensive Review C. Raju, K. Swetha Kumari	3
13	Integration of Artificial Intelligence in LEO Satellite Constellations: A Comprehensive Study Y. Sree Vaishnavi, T. Ramashri	3
14	Artificial Intelligence: The Promise of Future Health Care System Shaheen Begum, D. Sujatha, SK. Arifa Begum, N. Vasanthi	4
15	A Review on Predictive Analysis of Covid-19 G. Girija Rani, S. Jyothi	4
16	Artificial Intelligence and Diabetes Venkata Lakshmi J, P. Suvarnalatha devi, Ch. M. Kumari Chitturi	4

2022-13
Innovations in Multimedia, Virtual Reality and Augmentation

ARTIFICIAL INTELLIGENCE IN TELEMEDICINE

**PROCESSING OF BIOSIGNALS AND MEDICAL
IMAGES**

Edited by

S. N. Kumar, Sherin Zafar, Eduard Babulak,
M. Afshar Alam, and Farheen Siddiqui

- Chapter 7** Improved Transfer Learning-Enabled Heuristic Technique for Pneumonia Detection on Graphical Processing Unit Platform.....97
Abubeker K. M., S. Baskar, C. Prajitha, and K. P. Sridhar

- Chapter 8** Improved Adaptive Learning Framework for an Effective Removal of Noise in ECG Signal for Telemedicine System 115
C. Prajitha, K. P. Sridhar, S. Baskar, and Abubeker K. M.

PART 2 Role of Artificial Intelligence and IoT in Health Care

- Chapter 9** Human Disease Prediction System – Application of AI Techniques in Chronic Diseases 133
Asha Joseph and Shiju George

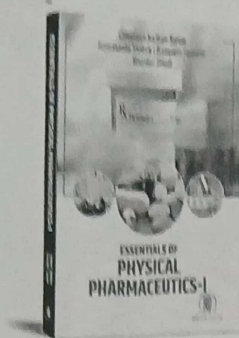
- Chapter 10** Internet of Things in Mental Healthcare Worldwide – A Study 149
S. G. Hymlin Rose, S. Janani, and Anchana P. Belmon

- Chapter 11** Internet of Things: A Promise to Smart Healthcare 163
Arifa Begum S. K., Shaheen Begum, C. Sadak Vali, P. Haritha, K. V. L. D. Spandana, and S. Swathi Goud

- Chapter 12** A Brief Review on Wireless Capsule Endoscopy Image Compression..... 177
P. Linu Babu and S. Sridevi

- Chapter 13** A Comprehensive Review on Leukemia Diseases Based on Microscopic Blood Cell Images 191
Della Reasa Valiaveetil and Kanimozhi T

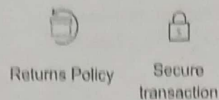
- Chapter 14** Effects of Numerical Mapping Techniques on Performance in Genomic Signal Processing.....203
Seda Nur Gulocak and Bihter Das



Essentials of Physical Pharmaceutics-I Paperback – 1 January 2023

by Chinmaya Keshari Sahoo (Author), Amiyakanta Mishra (Author), & 2 More

See all formats and editions



Essentials of Physical Pharmaceutics-I emphasizes towards B. Pharm. III –Semester of PCI Syllabus. The book offers clear understanding of the concepts. The questions have been given at the end of each chapters for better understanding of the subject. Hence the textbook is essential to pharma students. PHYSICAL PHARMACEUTICS-I ESSENTIALS OF Chapters are explained in a systematic and comprehensive manner. The subject matter illustrated with figures and tables, wherever, felt necessary. At the end of each chapter multiple questions are given for better understanding. The book has been written keeping in view the requirements of the B. Pharm. graduate students of PCI Syllabus.

Report an issue with this product

ISBN-10	ISBN-13	Publisher
939398090X	978-9393980908	Brillion Pu

Paperback
from ₹595.00

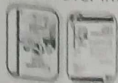
Other Used from ₹595.00

Delivering to Hyderabad 500083 - Update location

See All Buying Options

Add to Wish List

Roll over image to zoom in



Product details

Publisher : Brillion Publishing (1 January 2023)

Paperback : 234 pages

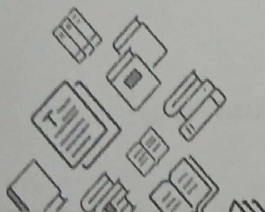
ISBN-10 : 939398090X

ISBN-13 : 978-9393980908

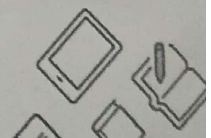
Best Sellers Rank: #1,375,238 in Books (See Top 100 in Books)

#5,304 in Agriculture & Farming (Books)

How would you rate your experience shopping for books on Amazon today?



Very poor ----- Neutral ----- Great



Customer reviews

No customer reviews

5 star 0%

4 star 0%

3 star 0%

Delivering to Hyderabad 500083
Update location

Books Search Amazon.in

All Fresh Amazon miniTV Sell Best Sellers Mobiles Today's Deals Customer Service Prime Electronics New Releases
Books Advanced Search New Releases & Pre-orders Best Sellers Browse Genres Children's & Young Adult Textbooks Exam Central

Books Sciences, Technology & Medicine Biology & Life Sciences

Fundamentals of Pharmaceutics Paperback – 1

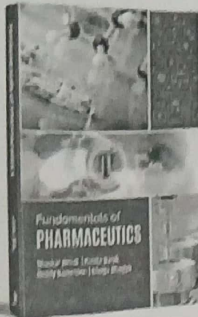
January 2023

by Bhaskar Jimidi (Author), Kabita Banik (Author), Reddy
Nazemoun (Author)

See all formats and editions

Partner Offers: Get GST invoice and save up to 28% on
business purchases. Sign up for free | Details

Free Delivery

10 days
ReplacementAmazon
DeliveredSecure
transaction

Roll over image to zoom in



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

Report an issue with this product

ISBN-10

ISBN-13

Pub

8119238486

978-8119238484

Brillion F

Product details

Publisher : Brillion Publishing (1 January 2023)

Paperback : 152 pages

ISBN-10 : 8119238486

ISBN-13 : 978-8119238484

Reading age : 18 years and up

Country of Origin : India

How would you rate your experience shopping for books on Amazon today?

Very poor

Neutral

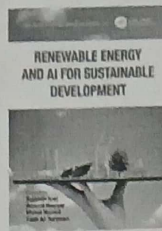
Great

Customer reviews

No customer reviews

<https://www.amazon.in/Fundamentals-Pharmaceutics-Bhaskar-Jimidi/dp/8119238486>

Book



Renewable Energy and AI for Sustainable Development

Edited By Sailesh Iyer (/search?contributorName=Sailesh Iyer&contributorRole=editor&redirectFromPDP=true&context=ubx), Anand Nayyar (/search?contributorName=Anand Nayyar&contributorRole=editor&redirectFromPDP=true&context=ubx), Mohd Naved (/search?contributorName=Mohd Naved&contributorRole=editor&redirectFromPDP=true&context=ubx), Fadi Al-Turjman (/search?contributorName=Fadi Al-Turjman&contributorRole=editor&redirectFromPDP=true&context=ubx)

Edition	1st Edition
First Published	2023
eBook Published	17 July 2023
Pub. Location	Boca Raton
Imprint	CRC Press
DOI	https://doi.org/10.1201/9781003369554 (https://doi.org/10.1201/9781003369554)
Pages	286
Accessibility Information	
eBook ISBN	9781003369554
Subjects	Computer Science, Economics, Finance, Business & Industry, Engineering & Technology, Environment and Sustainability

(/books/edit/10.1201/9781003369554/renewable-energy-ai-sustainable-development-sailesh-iyer-anand-nayyar-mohd-naved-fadi-al-turjman/accessibility-information?refId=328388-479-47c8-56db-251439777ba&context=ubx)

ABSTRACT

TABLE OF CONTENTS



(<https://www.taylorfrancis.com>)

Policies

Recent Progress in Science and Technology Vol. 3

(<https://stm.bookpi.org/RPST-V3/index>)

Home (<https://stm.bookpi.org/RPST-V3/index>) / Books

/ Recent Progress in Science and Technology Vol. 3 (<https://stm.bookpi.org/RPST-V3/issue/view/931>)

/ Chapters



Recent Progress in Science and Technology

Vol. 3

Edited by Dr. Madogni Vianou Irene

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

Kabita Banik; Namratha Sunkara; P. Twila Pushpa; . Nahid

Recent Progress in Science and Technology Vol. 3, 21 January 2023, Page 71-90

<https://doi.org/10.9734/bpi/rpst/v3/17595D> (<https://doi.org/10.9734/bpi/rpst/v3/17595D>)

Published: 2023-01-21

View Article

Cite

Statistics

Share

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].

(<https://stm.bookpi.org/RPST-V3/issue/view/931>)
Keywords: Herbal cosmetics; paraben; preservative; HPLC; HPTLC
(<https://stm.bookpi.org/RPST-V3/issue/view/931>)

13.

Climate Changes: Transition, Management, Governance, Floods, and Droughts

Sanchari Goswami*

Dr. Gade Kalyani**

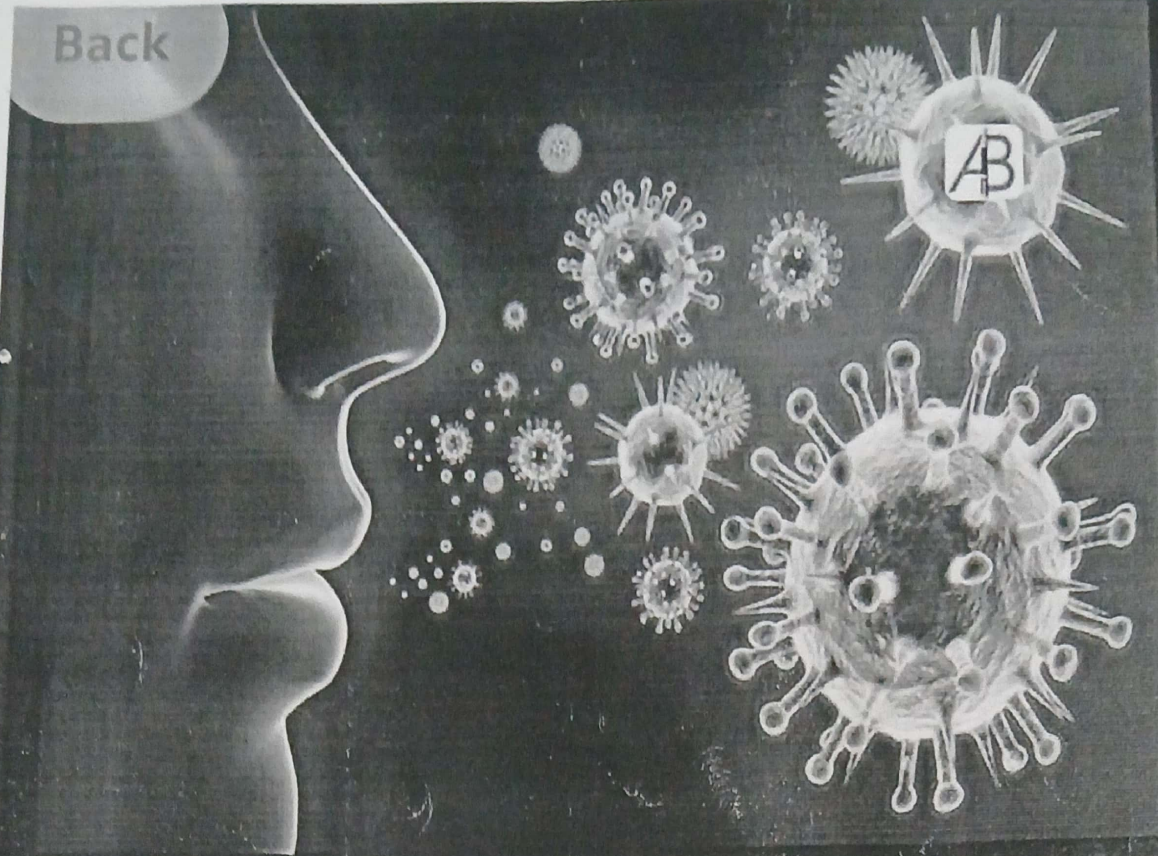
Introduction

The term "Climate" refers to the weather conditions which are expressed as expected temperature, rainfall, and wind conditions. On the other hand, "Climate change" is expressed as changes in climate variability that continues for a long time. Greenhouse gases such as carbon di oxide absorb infrared radiation emitted from earth's surface. If the atmospheric concentrations of these gases increase, then the temperature of the earth also increase. Human activities such as burning of fossil fuel are the main reason for increasing the concentration of atmospheric carbon di oxide. Increasing the concentration of

*Assistant Professor, Bharat Institute of Technology, Mangalpally (V), Ibrahimpatnam (M), Ranga Reddy (Dist), Telangana.

**HOD, Department of Pharmacology, Bharat Institute of Technology, Mangalpally (V), Ibrahimpatnam (M), Ranga Reddy (Dist), Telangana.

Back



Biotechnology and Covid 19 Pandemic

Role of Biotechnology
in Covid Vaccine Development

Editor

Dr. Deepika Saini

Co-Editor

Dr. Prabhat Kumar Singh

8. Roles of Medicinal Plants in Corona Infection	62
Vipin Kesharwani	
Sagarika Kabra	
Nikhil Kushwaha	
Dr. Bhupesh Chandra Semwal	
9. Covid-19 and Phytonutrients	73
Deepali Tomar	
Peeyush Kaushik	
Hitesh Malhotra	
Dr. Kumar Guarave	
10. COVID-19 and Nanobiosensors	87
Lakshika Bhandari	
Shalini Singh	
Lalit Dumka	
Kanchan Karki	
11. 'Plant Products For Antiviral Therapeutics'	118
Mr. Sandipan Babasaheb Jige	
12. Covid-19 and Respiratory System	130
Mohd Afroz	
Azka Fathima	
Dr. Gade Kalyani	
13. Understanding Coronavirus Molecular Mechanisms, Translational Approaches, and Therapeutics	140
Aparajita Gupta	
Himalya Panwar	
Kamal Kant Sharma	
14. Covid-19 and Fungal Infections: A Deadly Combination	150
Balwant Singh	
Shivangi Tripathi	
Mohit	
15. Covid-19 and Immunity	159
Priyanka Gupta	
Neelam	
Versha Sharma	

23.

Insights On Corona Virus Disease (Covid-19): Prevention and Treatment

Dr. Gade Kalyani*

Dr. Gatadi Srikanth**

Dr. Ramireddy Rajasekhar Reddy***

Treatment Strategies

Entry of SARS-CoV-2 into host cells is facilitated by the binding interaction of the CoV (S) protein to the target cell ACE2 receptor or Glucose regulated cell surface receptor protein (GRP78) and transmembrane protease serine 2 (TMPRSS2). Hence, it is sensible to postulate that compounds influencing this interaction could be prospective antivirals¹. Ramos-Tovar and Muriel described the antiviral activity of Glycyrrhizin (GL), a foremost component from licorice root called *Glycyrrhizae Radix*², which was able to inhibit SARS-CoV entry into Vero cells. Shah and coworkers showed

*Bharat Institute of Technology, Mangalpally, Ranga Reddy, Telangana, India.

** Bharat Institute of Technology, Mangalpally, Ranga Reddy, Telangana, India.
Innanura Scientific Pvt. Ltd. (ISTL) Hyderabad, Telangana, India.

*** Center for Nanomedicine, Johns Hopkins University School of Medicine,

Baltimore, USA

16. Corona Virus Disease (COVID-19): Molecular Mechanism, Translational Approaches and its Therapeutics	176
Neelam	
Priyanka Gupta	
Versha Sharma	
17. An Assessment of Ethical Social and Legal Impact of Covid 19 Pandemic	224
Dr. Aniruddha Ram	
Mrs. Sarbha Bhaskar	
Dr. Adarsh Pandey	
18. Impact of Covid-19 on Education System	231
Aleena Ansari	
19. Biotechnological Role in Corona Vaccine Development	238
Arun Kumar Kashyap	
Shabir Imteyaz Khan	
Nikita Kashyap	
20. An Assesment of Impact of Covid-19 Pendemic On Indian Economy	253
Mr. Ahtshamuddin Ansari	
21. Structural Immunology of Coronavirus	261
Tanu Yadav	
Sushant Kumar	
22. Role of Medicinal Plants in Corona Infection	269
Dr. Niharika Dewangan	
Ms. Rakhi Arora	
23. Insights On Corona Virus Disease (Covid-19): Prevention and Treatment	281
Dr. Gade Kalyani	
Dr. Gatadi Srikanth	
Dr. Ramireddy Rajasekhar Reddy	
24. Nanotechnology Solutions to Mitigate Covid-19: Detection, Protection and Medication	290
Rashmi Parihar	
Shabir Imteyaz Khan	
Arun Kumar Kashyap	

ABOUT THE AUTHOR



Dr. Asra Jabeen is working as an Associate Professor, Department of Pharmacognosy at Bharat Institute of Technology, Mangalpally, Hyderabad. She was awarded her PhD from Annamalai University in the year 2022. She holds an academic experience of 12 years and presented many papers at various conferences. Guided students at UG/PG levels and have over 18 scientific publications to credit.



Mr Abhilash Dash currently working as Assistant Professor at Gayatri Institute of Science and Technology, Gunupur, Rayagada, Odisha. He have been Published Research Paper in well known national And International Journal. He has attended many national and international seminar and conference and also life member of APTI and IPA.



Miss Subhashree Sahoo is currently working as an Assistant Professor (Pharmacology) at Usha Martin University, Ranchi, Jharkhand with total 1.5 years of teaching experience. She has published many review and research publications and podium presentation at various national and international conferences, symposia and convention.



Prof. (Dr.) Kirtimaya Mishra is young and dynamic teacher cum researcher. He was awarded his Ph.D, from Annamalai University, Chidambaram, India in the year 2020. Currently he is working as Professor in School of Pharmacy, ARKA JAIN University, Jamshedpur, Jharkhand, India. Prof. (Dr.) Kirtimaya Mishra has 13 years of research and teaching experience. He has published many articles at national/international journals of repute.

Published & Printed By :

NITYA
PUBLICATIONS

Copyright © Dr. Asra Jabeen

Nitya Publications, Bhopal MP India
Web: www.nityapublications.com
Email : info@nityapublications.com
Mob. : +91-9009291840

MRP Rs.200.00



9 789356 410817

HERBAL DRUG Technology Practical Lab Manual



Dr. Asra Jabeen
Mr. Abhilash Dash
Ms. Subhashree Sahoo
Prof.(Dr.) Kirtimaya Mishra

Current Overview on Pharmaceutical Science Vol. 7

(<https://stm.bookpi.org/COPS-V7/index>)

Home (<https://stm.bookpi.org/COPS-V7/index>) / Books

/ Current Overview on Pharmaceutical Science Vol. 7 (<https://stm.bookpi.org/COPS-V7/issue/view/971>)

/ Chapters

Current Overview on Pharmaceutical Science

Vol. 7

Edited by Prof. John Yahya I. Elshimali

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>)

Published: 2023-02-23

View Article 

Cite 

Statistics 

Share 

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, 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 spores; synthesis; antifungal

(<https://stm.bookpi.org/COPS-V7/issue/view/971>)