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**3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/International conference proceedings per teacher during the last five years.**

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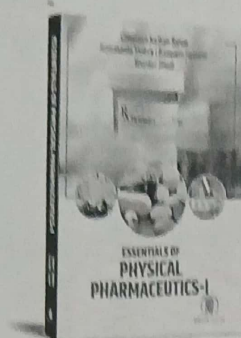
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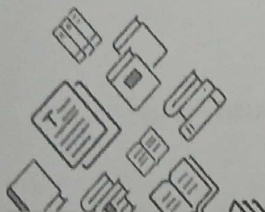
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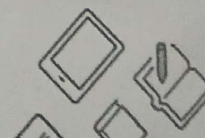
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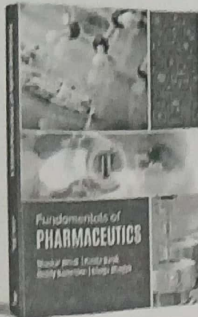
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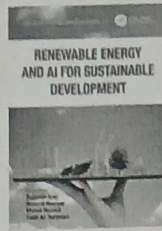
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# Recent Progress in Science and Technology

## 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*


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#### 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].

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**Keywords:** Herbal cosmetics; paraben; preservative; HPLC; HPTLC  
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# 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

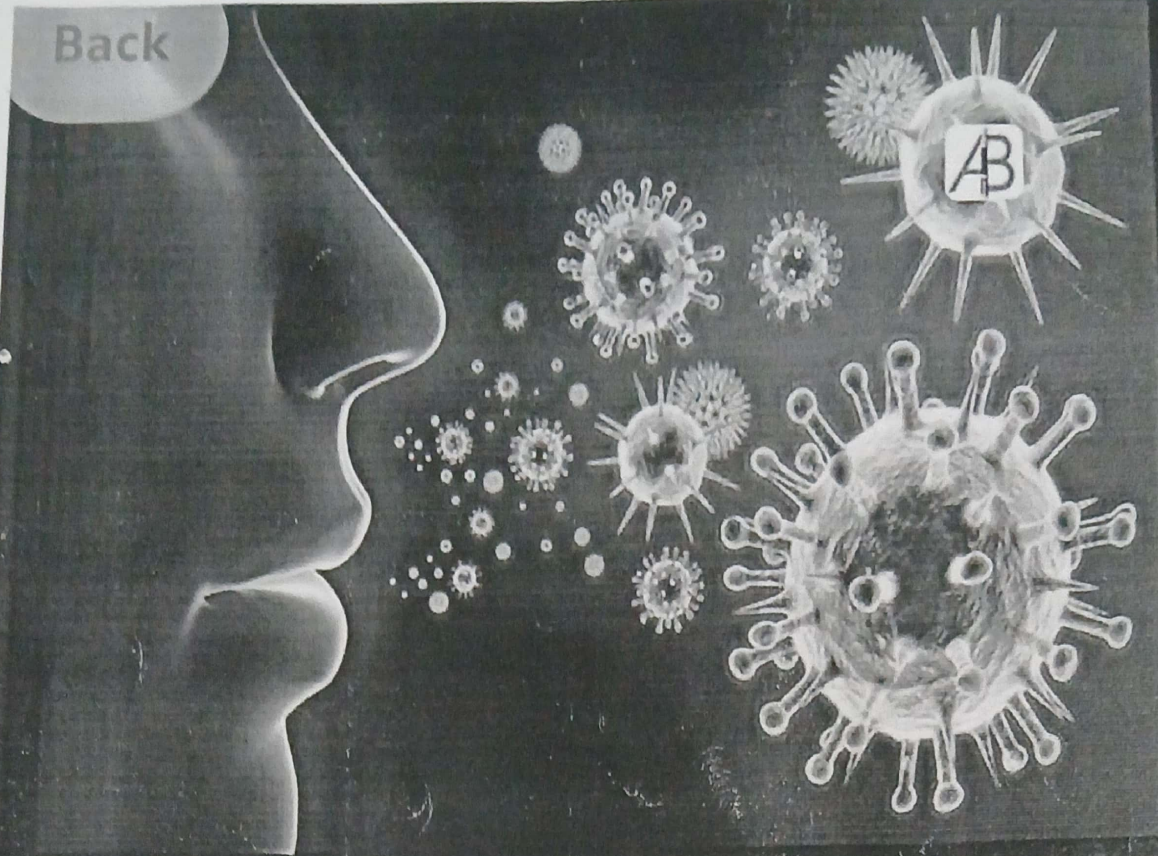
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\*\*HOD, Department of Pharmacology, Bharat Institute of Technology, Mangalpally (V), Ibrahimpatnam (M), Ranga Reddy (Dist), Telangana.



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# Biotechnology and Covid 19 Pandemic

Role of Biotechnology  
in Covid Vaccine Development

Editor

*Dr. Deepika Saini*

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23.

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

Dr. Gade Kalyani\*

Dr. Gatadi Srikanth\*\*

Dr. Ramireddy Rajasekhar Reddy\*\*\*

### Treatment Strategies

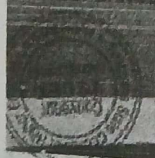
Entry of SARS-CoV-2 into host cells is facilitated by the binding interaction of the CoV (S) protein to the target cell ACE2 receptor or Glucose regulated cell surface receptor protein (GRP78) and transmembrane protease serine 2 (TMPRSS2). Hence, it is sensible to postulate that compounds influencing this interaction could be prospective antivirals<sup>1</sup>. Ramos-Tovar and Muriel described the antiviral activity of Glycyrrhizin (GL), a foremost component from licorice root called *Glycyrrhizae Radix*<sup>2</sup>, 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.  
Innanara Scientific Pvt. Ltd. (ISTL) Hyderabad, Telangana, India.

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

Baltimore, USA





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# HERBAL DRUG Technology Practical Lab Manual



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# Current Overview on Pharmaceutical Science Vol. 7

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# Current Overview on Pharmaceutical Science

## Vol. 7

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

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


*Current Overview on Pharmaceutical Science* Vol. 7, 23 February 2023, Page 163-184


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#### 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, <sup>1</sup>H-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; novel designed compounds; synthesize; antifungal

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