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## **Antiviral Drugs Mechanisms of Action, Animation**

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Antiviral drugs from plants  
by Dr Deep Jyoti Bhuyan from

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NICM Health Research  
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plants VS Coronavirus  
(Covid-19) *The BEST*  
*Antiviral HERBS to Prepare*  
*You for the Upcoming*  
*Cold/Flu Season Biological*  
*Properties of Flavonoids*

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(Medicinal use of  
Flavonoids) By Solution  
Pharmacy (HINDI) Curcumin

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Health Pyramid** *Dr. Steven  
Gundry - The Plant Paradox  
Science and Technology:  
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*Biodiversity* Proactive CEO  
Investor Sessions -  
Australia 5 Herbs to Boost  
Your Immune System and Kill  
Viruses Naturally Day-2  
FDP/SDP4: \"Do Plants  
provide leads for COVID19  
Treatment?\" 5 Herbs for

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Lung Health, Clearing Mucus,  
COPD, and Killing Viruses 5  
~~Things I Wish I Knew Before  
I Started Growing Mushrooms  
For A Living Bringing Back  
The World's Oldest Fermented  
Beverage | PARAGRAPHIC 36  
Wild Edibles \u0026~~



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Paul Stamets: Mycology and  
Mushrooms as Medicines

*Lecture 56 : Anti-viral  
drugs* DR. WILL BULSIEWICZ  
-COVID-19 AND GUT HEALTH

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Canadian researchers

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reported the in vitro  
antiherpesvirus activities  
of grape, apple and  
strawberry juices while the  
leaf extract of Melia  
azadirachta (Azadirachta  
indica) inhibits DNA viruses

...

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## **Antiviral compounds from plants - ResearchGate**

Medicinal plant species can provide a solution as a source of natural antiviral compounds by the accumulation of secondary

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metabolites and lectins as well as acting as a platform to express the...

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Natural Anti-viral ...**

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Book : Antiviral compounds

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from plants. 1990 pp.200 pp.  
ref.many Abstract : This  
book is intended as a  
critical evaluation of the  
current state of the art on  
the subject of plant-derived  
antiviral compounds.  
Antiviral compounds from

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plants. - CAB Direct The potentially antiviral plants were selected for extraction depending on the accumulated

## **Antiviral Compounds From Plants**

Included is a discussion of

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synthetic analogues where appropriate. The book states that antiviral compounds in so-called medicinal plants may constitute some of their "active ingredients." It explains that many are photosensitizers, their

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antiviral activity dependent upon or augmented by light of specific wavelengths.

## **Antiviral Compounds From Plants | Taylor & Francis Group**

Background and aims: Many

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antiviral compounds presently in clinical use have a narrow spectrum of activity, limited therapeutic usefulness and variable toxicity. There is also an emerging problem of resistant viral strains.

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This study was undertaken to examine the published literature on herbs and plants with antiviral activity, their laboratory evaluation in vitro and in vivo, and evidence of ...

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## **Antiviral Agents From Plants and Herbs: A Systematic ...**

15 Impressive Herbs with  
Antiviral Activity 1.

Oregano. Oregano is a  
popular herb in the mint  
family that's known for its  
impressive medicinal



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qualities. Its plant... 2. Sage. Also a member of the mint family, sage is an aromatic herb that has long been used in traditional medicine to... 3. Basil. ...

## **15 Antiviral Herbs to Keep**

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## **You Healthy**

Lignans are widespread compounds in plants and many lignans exhibited antiviral activities , . For example, peltatins from *Justicia procumbens* and *Podophyllum peltatum* , schizarin B and

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taiwanschirin D from *Kadsura matsudai* , and rhinacanthin E and rhinacanthin F from *Rhinacanthus nasutus* were shown to inhibit HIV, hepatitis B virus (HepBV), and influenza A by blocking the virus replication [13] ,

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[45] , [104] .

## **Natural Antiviral Compounds - ScienceDirect**

In this study, the majority of plant extracts were found to have some antiviral activity and could inhibit

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IBV prior to and during infection. The ethanolic extracts had a mixture of compounds/fractions and it is possible that the antiviral activity of plants is decided by one or several compounds or combinations

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thereof . Future studies are needed to detect the compounds or fractions responsible for anti-IBV activity and to investigate the mechanism of their action.

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**In vitro antiviral activity  
of fifteen plant extracts**

...

The inferences from  
scientific literature  
review, focusing on  
potential therapeutic  
consequences of medicinal

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plants on experimental models of HIV, HSV, influenza, hepatitis, and coxsackievirus have ascertained the curative antiviral potential of plants.



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**Antiviral potential of  
medicinal plants against  
HIV, HSV ...**

Punarnavine, hypoxanthine  
9-L-arabinofuranoside,  
ursolic acid, boeravinone,  
punarnavoside and  
liirodendrin have been

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purified and elucidated in detail for their biological activity with antiviral properties. Large amount of potassium nitrate is mostly found in this plant. The entire plant has huge percentage of proteins and

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fats.

## **Antiviral Plant Extracts | IntechOpen**

Plants represent a large,  
untapped, potential source  
of antiviral agents.

Although there has been

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relatively few studies seeking antiviral agents from plants, those studies have revealed an unexpectedly frequent occurrence of antiviral activity in plants. A large number of compounds of

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varied chemical structures isolated from medicinal plants have been shown to possess antiviral activity. Thus, this chapter made an attempt to explore various antiviral compounds from plants for the ...

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**Antiviral phytochemicals for  
drug development: a data ...**

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by getting antiviral  
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of the reading material.

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can be successfully obtained  
from various plants, marine,  
insects, and animal sources.  
The compounds vary in their  
selective nature and  
efficacy toward different

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viruses. The

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from plants. - CAB Direct 20  
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...

Of the four compounds,

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lupeol exhibited the most potent antiviral activity; EC50 at 2.98  $\mu\text{g/ml}$  for 7401H HSV-1, 3.66  $\mu\text{g/ml}$  for APr 7401H HSV-1 and 4.2  $\mu\text{g/ml}$  for the TK- B2006 HSV-1.

**The antiviral activity of**

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**compounds isolated from  
Kenyan ...**

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describes the botanical

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sources and chemical features of antiviral compounds. It covers their mechanisms of action and evaluates their therapeutic potential. Included is a discussion of synthetic analogues where appropriate.

# Read PDF Antiviral Compounds From Plants

The book states that antiviral compounds in so-called medicinal plants may constitute some of their "active ingredients." It explains that many are photosensitizers, their antiviral activity dependent



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upon or augmented by light of specific wavelengths. This book is of value to microbiologists, phytochemists, virologists, natural-product chemists, ethnobotanists, pharmacologists, medical and

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veterinary researchers, and others interested in the application of plant compounds to therapy of infectious diseases.

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veterinary researchers, and others interested in the application of plant compounds to therapy of infectious diseases."--Provided by publisher.

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Plants produce a vast number of bioactive compounds with different chemical scaffolds, which modulate a diverse range of molecular targets and are used as

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drugs for treating numerous diseases. Most present-day medicines are derived either from plant compounds or their derivatives, and plant compounds continue to offer limitless reserves for the discovery of new medicines.

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While different classes of plant compounds, like phenolics, flavonoids, saponins and alkaloids, and their potential pharmacological applications are currently being explored, their curative

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mechanisms are yet to be understood in detail. This book is divided into 2 volumes and offers detailed information on plant-derived bioactive compounds, including recent research findings. Volume 1, Plant-

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derived Bioactives:  
Chemistry and Mode of  
Action, discusses the  
chemistry of highly valued  
plant bioactive compounds  
and their mode of actions at  
the molecular level. Volume  
2, Plant-derived Bioactives:

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Production, Properties and  
Therapeutic Applications,  
explores the sources,  
biosynthesis, production,  
biological properties and  
therapeutic applications of  
plant bioactives. Given  
their scope, these books are



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valuable resources for members of the scientific community wishing to further explore various medicinal plants and the therapeutic applications of their bioactive compounds. They appeal to scholars, teachers

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and scientists involved in plant product research, and facilitate the development of innovative new drugs.

Humans have utilized the bioactive principles of different plants for various

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beneficial physiological properties including antimicrobial properties for many centuries. However, interests of using medicinal plants declined in the 20th century with the availability of effective

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synthetic antimicrobial drugs. The development of microbial resistance to various drugs has accelerated research interests towards the use of phytochemicals as alternatives to synthetic

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drugs in the recent years.  
This book presents an  
comprehensive reviews on the  
antimicrobial and antiviral  
properties of numerous  
recently reported  
phytochemicals, and their  
mechanisms of antimicrobial

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actions. Some of the chapters have critically discussed the beneficial and adverse effects of antibacterial, and stimulatory activities of dietary phytochemicals on rumen microbial populations,

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and gut microbial populations of humans and animals. Microbial adaptation and resistance of microbes to phytochemicals has also been highlighted. On the applied aspects, the use of phytochemicals

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against drug resistance  
microbes, to treat microbial  
diseases, for food  
preservation, to inhibit  
methanogenic archaea in the  
rumen, and to modulate lipid  
biohydrogenating microbial  
populations to increase



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conjugated linoleic acids in animal-derived foods have been presented in different chapters.

Quality Control and

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Evaluation of Herbal Drugs:  
Approaches for Evaluating  
Natural Products and  
Traditional Medicine brings  
together current thinking  
and practice in the quality  
control and standardization  
of herbal drugs. As the use

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of herbal medicine in therapeutics is rising in both developed and developing countries, this book facilitates the development of quality standards for these medicines. Written by Pulok

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K. Mukherjee, a leader in the field, the book describes methods, techniques and approaches for evaluating their purity, quality, safety and efficacy. Particular attention is paid to methods

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that assess activity, the compounds responsible, and their underlying mechanisms of action. The book describes the quality control parameters followed in India and other countries, including Japan,

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China, Bangladesh, Srilanka and other Asian countries, as well as the regulatory profiles of the European Union and North America. Users will find it to be a comprehensive resource on bio-prospecting for

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traditional-medicine-  
inspired drug discovery and  
development. Provides new  
information on the research  
and development of natural  
remedies Includes essential  
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of natural resources for

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preventative or healing  
purposes References global  
organizations, such as the  
WHO, USFDA, CDSCO, TCM and  
others to serve as a  
comprehensive document for  
enforcement agencies, NGOs  
and regulatory authorities



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Aids in developing basic knowledge of the various techniques of quality evaluation, such as macroscopy, microscopy, HPTLC, HPLC and LC-MS

Background: The emergence of

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viral diseases has been the major threat to public health and social stability. A hundred years ago, 1918 Spanish flu (H1N1) pandemic spread worldwide, and about 3% ~ 5% of the world's population died from the flu-

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related illnesses. It is known as the deadliest catastrophic pandemics in human history. There have been five Public Health Emergency of International Concern (PHEIC) declarations over the past decade,

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including the 2014 Ebola outbreak in west Africa, the 2016 Zika outbreak and the ongoing COVID-19 pandemic. There is always a new strain of virus emerging on the horizon. We have urgent need to develop more broad-

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spectrum antivirals, which work effective against multiple viruses, for thwarting outbreaks in the future. Objective: Based on our previous experience in search of anti-HIV compounds from topical plants, we

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aimed to discover novel antiviral lead compounds from Justicia plants collected in Hong Kong. Further, structure modification of the natural compounds can lead to optimization of their drug

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properties for further development as drug candidates. To determine the antiviral targets of the lead compounds will further provide insights to elucidate the mechanism of actions. The present studies

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are to discover the antiviral lead compounds from Justicia plants, to analyze the structure-activity relationship of the modified structures, to identify the molecular targets of the lead



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compounds as antiviral agents against the multiple viruses. Methodology: Four common Justicia plants were collected in Hong Kong. The plant extracts and compounds isolated from the plants were explored for their

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antiviral activities via our established “One-Stone-Two-Birds” antiviral assay. Time-of-addition experiments were performed to determine the target stages of the antiviral compounds on the viral replication.

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Computational techniques (3D-QSAR and in silico pharmacokinetics evaluation) were employed to elucidate the structure-activity relationship of the compounds and thereby optimize their structures to

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enhance the antiviral activity. Comprehensive activity-based protein profiling (ABPP) of biotin-linked compounds using SWATH-MS technique was performed to identify the protein target(s) of the lead

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compounds in an unbiased manner. The role of the molecular target in viral replication was further verified by mRNA knockdown using siRNA. Result: The extracts of *Justicia procumbens* and *Justicia*

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championii showed potent antiviral effects with low cytotoxicity among the collected Justicia plants. By correlating the antiviral activity with their HPLC-UV profiles, arylnaphthalene lignans (ANLs) were

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determined as the principle active components. Among the isolated compounds from *J. procumbens*, diphyllin exhibited strong antiviral activities against VSV/HIV, H5N1/HIV and EBOV/HIV pseudoviruses with EC50

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values ranging from 30-100nM. In time-of-addition experiments, diphyllin mainly acts on the entry stage of the viral infection. Considering the broad-spectrum antiviral properties and antiviral



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mechanism together,  
diphyllin is probably a host-  
targeting antiviral agent.

In a subsequent lead  
optimization, a reliable and  
predictive 3D-QSAR was  
established from 25  
synthesized ANLs. Compound

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31 was found as the most potent antiviral agent based on the 3D-QSAR model. It showed 70 times more potent antiviral activity than the parent diphyllin, with retained broad-spectrum antiviral properties and

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improved predicted ADMET properties. In addition, comprehensive ABPP analysis of the biotin-linked diphyllin was employed for the target identification of the ANL compounds. Total 2343 proteins were captured

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by the ABPP probes. By quantitative analysis, the protein TFAM showed significant affinity to the diphyllin-based ABPP probes. The viral susceptibility of TFAM-deficient cells was shown to be reduced in the

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subsequent validation. We thus determined TFAM as the potential antiviral drug target of the ANL compounds against a broad spectrum of viruses.

This is the first book to

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focus entirely on viruses in foods. It collates information on the occurrence, detection, transmission, and epidemiology of viruses in various foods. Although methods for bacterial

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detection in food are available, methods for detection of viruses in food, with the exception of shellfish, are not available. It is important, therefore, to develop methods for direct

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examination of food for viruses and to explore alternate indicators that can accurately reflect the virological quality of food. This book addresses these issues along with strategies for the prevention and



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control of viral  
contamination of food.

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