



*applied sciences*



*Special Issue Reprint*

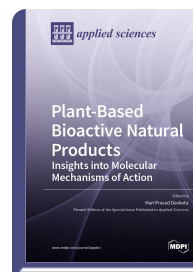
## **Plant-Based Bioactive Natural Products: Insights into Molecular Mechanisms of Action**

[www.mdpi.com/books/reprint/4562](http://www.mdpi.com/books/reprint/4562)

Edited by  
Hari Prasad Devkota

ISBN 978-3-0365-2412-2 (Hardback)

ISBN 978-3-0365-2413-9 (PDF)



Medicinal plants have been used for the maintenance of human health since ancient times, in the form of food, spices, and traditional medicines. Medicinal plant-based traditional medicines serve as the primary healthcare systems in various countries even in recent times. Alongside this, medicinal plants have also served as the one of the main sources for the discovery of new therapeutic agents. At present, various plant extracts and their isolated phytochemicals are screened and evaluated for their diverse pharmacological activities related to both communicable and non-communicable diseases. However, comparatively little focus is given to the detailed mechanism of action of these agents on the molecular level. Molecular mechanism-based studies are essential for the development of evidence-based traditional medicines as well as for the development of isolated natural products as the lead candidates for novel drug discovery. The main focus of this Special Issue “Plant-based Bioactive Natural Products: Insights into Molecular Mechanisms of Action” is to cover the recent advances in science related to the molecular mechanisms of action of natural products. A total of nine articles were published in this Special Issue, including two original research articles and two review articles. This Special Issue has provided some new experimental data on bioactive natural products and their detailed mechanisms of action for biological activities. Similarly, review articles have provided state-of-the-art information on the related topics. I would like to thank all the authors for submitting their manuscripts and the reviewers and editors for their contribution to this Special Issue. Furthermore, I am also grateful to the handling editors and staffs of *Applied Sciences* for their support during the finalization of this Special Issue.



Order Your Print Copy

You can order print copies at

[www.mdpi.com/books/reprint/4562](http://www.mdpi.com/books/reprint/4562)

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



## Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



## Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



## High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



## High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



## Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.