



## Natural-Product-Based Drug Discovery and Development

Guest Editors:

### Dr. Hari Prasad Devkota

Graduate School of  
Pharmaceutical Sciences,  
Kumamoto University,  
Kumamoto 860-8555, Japan

### Dr. Ajit Prakash

Department of Biochemistry and  
Biophysics, University of North  
Carolina, Chape Hill, NC 27599,  
USA

### Dr. Keshav Raj Paudel

School of Life Science, Faculty of  
Science, University of Technology  
Sydney, NSW 2007, Australia

Deadline for manuscript  
submissions:

**closed (20 April 2024)**

### Message from the Guest Editors

Plant-derived natural products and their semisynthetic derivatives have gained increasing attention in recent years as potential therapeutic agents for managing lifestyle-related diseases, as well as for their anti-cancer and anti-infective properties.

We are pleased to invite you to submit original research articles and reviews related to the aim of this Special Issue, “Natural-Product-Based Drug Discovery and Development”. Research areas of interest include (but are not limited to) the following:

- Traditional medicines, medicinal plants, and ethnopharmacology;
- Bioprospecting of medicinal plants;
- Extraction, isolation, and identification of natural products;
- Basic research related to the pharmacological activity analysis;
- Semi-synthesis of natural product derivatives and their activities;
- Drug delivery strategies related to natural products;
- Preclinical and clinical research related to natural products;
- In vitro and in vivo screening of natural product extracts;
- Modern drug discovery technologies;
- Biotechnological approaches related to natural products;
- Innovations and future trends related to natural products





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)