

## Special Issue

# Biotransformation and Analysis of Functional Foods and Ingredients

### Message from the Guest Editor

Functional foods such as food supplements, nutraceuticals, and their ingredients are currently becoming a core business for both small companies and huge pharma industries. A number of those products may undergo a series of natural biotransformations that are responsible for the production of a specific molecule of interest (biomarker of quality). To better understand and optimize the natural production of a specific compound, its monitoring by analytical chemistry during biotransformation is the best strategy to obtain the best final product.

This Special Issue is focused both on the technical analyses performed on an ingredient, a functional food or a food supplement (i.e., a nutraceutical product) prior to its market launch and on the analytical chemistry approaches that can be used to monitor, quantitate and improve the extraction yield of a desired compound. Chemical and biological characterization of those products as well as the discovery of new formulation techniques, chemical food control protocols and bioactivity investigations are, indeed, the focal points of this Special Issue. Both experimental studies, comprehensive reviews, and survey papers are all welcome.

---

### Guest Editor

Prof. Dr. Claudio Medana  
Department of Molecular Biotechnology and Health Sciences,  
University of Torino, Via Pietro Giuria 5, 10125 Torino, Italy

---

### Deadline for manuscript submissions

closed (10 April 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/112934](https://mdpi.com/si/112934)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

[mdpi.com/journal/  
appls](https://mdpi.com/journal/appls)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### 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.

---

### Editor-in-Chief

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

---

### 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), Ei Compendex, Inspec, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )