

## Special Issue

# Berry Phytoconstituents, Their Metabolites, and Interactions with Human Microbiota

### Message from the Guest Editors

Berries (*Vaccinium macrocarpon*) have been recognized as a source of potential health benefits ranging from urinary tract and gut health to cardiovascular benefits to anti-tumor and anti-inflammatory properties. Its potential health benefits are linked to a growing list of bioactive constituents. These include flavonoids and polyphenols, but also under-represented phytoconstituents such as organic acids, triterpenoids, polysaccharides, fiber and associated metabolites. These may contribute in complementary or synergistic ways to cranberry's pharmacological properties and bear further study. Variation in fruit source and composition combined with a wide variety of processing methods, such as fermentation, can yield vast differences in phytochemical profile and associated effects on the gut microbiome. This issue welcomes studies on berries, its phytochemicals and metabolites, with particular emphasis on the interactions of these components with the human microbiota. This includes changes in chemical composition as a result of processing, human metabolism or the development of value-added berry products using enzymatic, microbial and other biotransformations.

### Guest Editors

Prof. Dr. Catherine C. Neto

Department of Chemistry and Biochemistry, Cranberry Health Research Center, University of Massachusetts Dartmouth, North Dartmouth, MA 02747, USA

Dr. Shawna MacKinnon

Agriculture and Agri-Food Canada, Kentville, NS, Canada

### Deadline for manuscript submissions

closed (30 November 2019)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/18372](https://mdpi.com/si/18372)

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

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





# Molecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

---

### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).