



## The Applications of LC-MS/MS Technique in Natural Products

Guest Editor:

### Prof. Dr. Patrick Chaimbault

Laboratoire de Chimie et  
Physique - Approche Multi-  
échelle des Milieux Complexes  
(EA 4632), ICPM, Université de  
Lorraine, Nancy, France

Deadline for manuscript  
submissions:

**closed (30 June 2024)**

### Message from the Guest Editor

Dear Colleagues,

Irrespective of natural compounds' origin or their activity, the identification of natural active compounds is of the greatest importance. In the last 25 years, mass spectrometry (MS), and, even more so, tandem mass spectrometry (MS/MS and MSn) coupled with liquid chromatography (LC from UHPLC to nanoLC) have become some of the most useful and powerful analytical methods for the structural elucidation and quantification of natural compounds in complex matrices.

I would like to invite you to contribute to this Special Issue dedicated to the key role of LC-MS/MS techniques in the modern analysis of natural products. This topic may cover the development of original LC-MS/MS methods (including sample treatment) for the characterization and the quantification of natural compounds in complex matrices as well as their applications in a wide range of areas according to, but not limited to, their activities (e.g., antibacterial, antioxidant, enzymatic, anti-ageing and nutraceutical, etc.), the organism (from bacteria to plant and animal) or the analytical strategy (targeted to untargeted analyses).

Prof. Dr. Patrick Chaimbault  
Guest Editor





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Thomas J. Schmidt**

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

## Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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.

## Author Benefits

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

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

## Contact Us

---

*Molecules* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/molecules](http://mdpi.com/journal/molecules)  
[molecules@mdpi.com](mailto:molecules@mdpi.com)  
[X@Molecules\\_MDPI](#)