

## Alternative Drug Therapy-Cyanobacterial Metabolites

Guest Editors:

**Dr. Kumar Saurav**

Centre ALGATECH, Institute of Microbiology, Czech Academy of Sciences, Novohradská 237 – Opatovický mlyn, CZ 379 01 Trebon, Czech Republic

saurav@alga.cz

**Dr. Subhasish Saha**

Centre ALGATECH, Institute of Microbiology, Czech Academy of Sciences, Novohradská 237 – Opatovický mlyn, CZ 379 01 Trebon, Czech Republic

saha@alga.cz

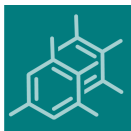
Deadline for manuscript submissions:

**31 July 2020**

### Message from the Guest Editors

The understanding of how intercellular microbial communication is involved in bacterial pathogenesis has revealed the potential for alternative strategies to treat bacteria-mediated diseases. Quorum sensing (QS) regulates coordinated responses across a bacterial population, and in many cases, the responses elicited by QS signals contribute directly to pathogenesis through the synchronized production of virulence determinants, such as toxins and proteases. QSI compounds inactivate QS via different quenching mechanisms, including enzymatic inactivation of the signal molecule, inhibition of signal biosynthesis, and inhibition of signal detection. Cyanobacteria being one of the prolific sources of chemical diverse bioactive natural products and toxins suggests it to be a potential reservoir for isolation and structural elucidation of novel antimicrobials that are based on the QSI mechanism of action. Further, the role of QS molecules towards the development of co-habitation in non-axenic cyanobacterial cultures is appreciated.





an Open Access Journal by MDPI

## Editor-in-Chief

### Dr. Derek J. McPhee

Senior Director, Technology  
Strategy, Amyris, Inc., 5885 Hollis  
St, Suite 100, Emeryville, CA  
94608, USA

## Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 22nd 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

## Author Benefits

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

**High visibility:** indexed by the Science Citation Index Expanded (Web of Science), MEDLINE (PubMed), Scopus and other databases.

**Rapid publication:** manuscripts are peer-reviewed and a first decision provided to authors approximately 13.1 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2019).

## Contact Us

---

*Molecules*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
Fax: +41 61 302 89 18  
www.mdpi.com

mdpi.com/journal/molecules  
molecules@mdpi.com  
@Molecules\_MDPI