## **Special Issue**

New Beta-Lactams, Beta-Lactamase Inhibitors and Targets for Beta-Lactamase Production Blockade: Powerful Allies against Multidrug-Resistant Pathogens

## Message from the Guest Editor

Antibiotic resistance, especially referred to nosocomial opportunistic bacterial pathogens, is already an undeniable threat for public health worldwide. In the specific context of beta-lactam antibiotics, the threat is certainly not less severe, given their generalized use. Nevertheless, the appearance of new therapeutic options brings us a reason for hope. Among these therapeutic allies, we acknowledge: (i) the appearance of novel beta-lactam-related drugs (such as cefiderocol or ceftobiprole); (ii) the use of new antibiotic combinations including beta-lactamase activity inhibitors (for instance ceftazidime/avibactam. ceftolozane/tazobactam. imipenem/relebactam, and meropenem-vaborbactam), and (iii) the research on unexplored targets leading to the blockade of intrinsic beta-lactamases production (usually related to cell wall metabolism, such as AmpG or NagZ proteins, which have been shown to be essential for the correct expression of intrinsic betalactamases and full virulence in Pseudomonas aeruginosa and related species).

## Guest Editor

Dr. Carlos Juan Nicolau Hospital Universitari Son Espases- Health Research Institute of the Balearic Islands (IdISBa), Palma, Spain

## Deadline for manuscript submissions

closed (31 May 2021)



# International Journal of Molecular Sciences

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## Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

## Editor-in-Chief

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