



Microbial Quorum Sensing: Advances and Challenges

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Message from the Guest Editor

Quorum Sensing (QS), a cell-cell communication mechanism population density-dependent, regulates genes expression which is reflected in behavioral responses by microbial communities. QS relies on production, release and detection of extracellular molecules (autoinducers). Over the past half-century, there has been a remarkable increase of studies and knowledge of QS mechanism, chemistry of signal molecules, involved genes and resultant behavioral responses. All these studies have resulted in a best understanding of chemical communication between microbes in term of “sociality”, that means a coordinated interaction within species, between species and hosts (inter-kingdom communication).

The purpose of this special issue is to report recent findings and advances in this topic covering different fields (medicine, food, ecology, marine habitat) and to discuss of how QS could be a big challenge to be further investigated and better understand.





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Message from the Editor-in-Chief

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