

Natural products as potential sources of inhibitors of bacterial quorum-sensing



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Reviews

This publication may be really worth a go through, and a lot better than other. It really is full of knowledge and wisdom Its been printed in an exceptionally easy way in fact it is simply after i finished reading this publication by which basically modified me, affect the way i really believe.

(Troy Dietrich DDS)

NATURAL PRODUCTS AS POTENTIAL SOURCES OF INHIBITORS OF BACTERIAL QUORUM-SENSING



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Neuware - Scientific Study from the year 2014 in the subject Biology - Micro- and Molecular Biology, grade: A, Nirma University (Institute of Science), course: M.Sc., language: English, comment: This work was carried out by a group of three students under guidance of Dr. Vijay Kothari, and was submitted as Masters' thesis to Nirma University., abstract: Objective: To investigate the effect of (i) seed extracts of *Pongamia pinnata*, *Pyrus pyrifolia*, and *Manilkara hexandra*, (ii) bacterial pigment prodigiosin, and (iii) three organic solvents (ethanol, methanol, and DMSO), on quorum sensing (QS) in *Chromobacterium violaceum*. Methods: *C. violaceum* was challenged with plant extracts prepared by microwave assisted extraction (MAE) method, prodigiosin, and organic solvents. Effect of these test substances on *C. violaceum* growth, and quorum sensing regulated pigment (violacein) production was studied by broth dilution assay. High performance liquid chromatography (HPLC) was also applied to generate chromatographic fingerprint of the active extracts. Effect of sub-MIC level of the antibiotic streptomycin on quorum sensing regulated pigment production was also studied. Results: *P. pinnata* seed extracts and prodigiosin were found to possess anti-QS, and *M. hexandra* and *P. pyrifolia* seed extracts to possess QS-enhancing effect in *C. violaceum*. DMSO was found to enhance violacein production, whereas ethanol and methanol reduced violacein production in *C. violaceum*. Streptomycin at sub-MIC level was able to significantly arrest QS-regulated pigment production in *C. violaceum* and *S. marcescens*. Conclusion: Prodigiosin and the seed extracts used in this study could affect quorum sensing in *C. violaceum* to a notable extent. Results of this study also emphasizes the importance of inclusion of appropriate solvent controls (negative controls) in bioassays designed for screening of antimicrobial and/or anti-QS compounds. Antipathogenic potential...



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