



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

By Vijay Kothari

GRIN Verlag Gmbh Jan 2015, 2015. Taschenbuch. Book Condition: Neu. 210x150x8 mm. This item is printed on demand - Print on Demand 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...



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