

Quorum sensing and its role in oral biofilms development./ Boy M. Bachtiar

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Abstrak

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Quorum sensing systems has been identified as one of mechanism carried out by numerous Grampositive and Gram-negative bacteria to coordinate virulence and biofilm development. Using quorum sensing, bacterial colonies synchronize gene expression and phenotype change allowing them to protect their niche. The purpose of this review is to present a synopsis of the literature on bacterial quorum sensing and we highlight the role of specific signaling molecules that might be used as a target of inhibitor agent in dental preventive perspective.;Quorum sensing systems has been identified as one of mechanism carried out by numerous Grampositive and Gram-negative bacteria to coordinate virulence and biofilm development. Using quorum sensing, bacterial colonies synchronize gene expression and phenotype change allowing them to protect their niche. The purpose of this review is to present a synopsis of the literature on bacterial quorum sensing and we highlight the role of specific signaling molecules that might be used as a target of inhibitor agent in dental preventive perspective.