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(54) Title: QUORUM SENSING AND BIOFILM FORMATION

(57) Abstract: The present invention is based on the discovery that interspecies quorum sensing is related to biofilm formation. The present invention provides methods useful for treating or preventing biofilm formation and microbial infections associated with biofilm formation by using an agent that either increases LuxS-dependent pathway or interspecies quorum sensing signal. The present invention also provides compositions containing an anti-microbial agent and an agent that either increases LuxS-dependent pathway or interspecies quorum sensing signal.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: A01N 25/00(2006.01);A61K 38/16(2006.01)

USPC: 424/405;514/8

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/405; 514/8

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST, STN**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/85664 A (PRINCETON UNIVERSITY) 15 November 2001 (15.11.2001), see entire document including pages 2, 22, 27, and 28.	50-51
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Y		1-49
Y	Li et al. A Quorum-Sensing System Essential for Induction of Genetic Competence in <i>Streptococcus mutans</i> is Involved in Biofilm Formation. Abstracts of the General Meeting of the American Society for Microbiology. May 20-24, 2001, Vol. 101, page 442, see BIOSIS Abstract.	1-51



Further documents are listed in the continuation of Box C.



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