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(54) Title: METHODS FOR PREVENTING OR TREATING INFECTIOUS DISEASES USING GALLIUM COMPOUNDS

(57) Abstract: The present invention relates to methods for preventing or treating infectious diseases caused by extracellular microorganisms, such as bacteria and fungi, by systemically administering to a patient a compound containing gallium. The extracellular microorganisms targeted by the present methods include methicillin-resistant Staphylococcus aureus (MRSA), vancomycin-resistant Enterococcus faecalis (VRE), E. coli O157:H7, fluoroquinolone-resistant Salmonella typhi, and the like. Furthermore, in the present methods, gallium compounds can be co-administered with one or more conventional antimicrobial agents to treat infectious diseases with reduced risks of creating multi-drug resistant pathogens. The methods of the present invention is also applicable to those microorganisms, such as ulcer-causing Helicobacter pylori, complete eradication of which so far has been difficult to achieve.



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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 08/58666

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(8) - A01N 59/16 (2008.04) USPC - 424/650 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC(8)-A01N 59/16 (2008.04) USPC-424/650 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC-424/650, 617, 600 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWest (PGPB,USPT,EPAB,JPAB), Google Search terms used: gallium, extracellular, Campylobacter, Salmonella, Helicobacter, Bacillus, Clostridium, Corynebacterium, Chlamydia, Coxiella, Ehrlichia, Francisella, Pasteurella, Brucella, Proteus, Klebsiella, Enterobacter, Tropheryma, Acinetobacter, Aeromonas, Alcaligenes, Capnocytoph		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	US 6,203,822 B1 (Schlesinger et al) 20 March 2001 (20.03.2001) col 3, ln 39-40 and 47-51, col 5, ln 20-24 and 53-58, col 10, ln 5 and 23-24,	1, 4, 6-9, 19
Y		2, 3, 5, 10-18
Y	US 6,297,242 B1 (Hlasta) 2 October 2001 (02.10.2001) col 1, ln20-32	2, 3, 5,10-13
Y	US 5,229,418 A (Collington et al) 20 July 1993 (20.07.2003) col1, ln 38-41	14-18
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