

Antibacterial Compounds Against MRSA and Other Gram Positive Bacteria

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Technology description

A group of antibacterial compounds that can be used to prevent and/or treat Methicillin-resistant Staphylococcus aureus (MRSA) and other gram positive bacteria growth and biofilm formation. Experimental studies and data generated have demonstrated efficacy.

Discovery:

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Features:

Compounds possess a unique mechanism of action.

Can be potentially administered topically, systemically, through medical device coatings, medical supplies, and wound-healing materials

Can be applied to surfaces that serve as substrates for bacterial growth and biofilm formation

Application area

MRSA infections have become the most common cause of cultured skin infections among individuals seeking emergency medical care in urban areas, so alternative methods of prevention and/or treatment are urgently needed.

Number of annual MRSA infections in hospitals is estimated at nearly 300,000, leading to nearly 20,000 deaths.

Annual cost of MRSA infections to United States hospitals is estimated at \$3.2 billion to \$4.2 billion.

Institution

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