



Antibacterial Agents Using Small Molecule Macroarrays

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The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in developing novel antibiotic compositions that exhibit potent antibacterial activity against MRSA and potentially other Gram-positive pathogens.

Overview

Staphylococcus aureus is a Gram-positive bacterium responsible for many infectious diseases, including toxic shock syndrome, food poisoning and topical skin infections. Although *S. aureus* is usually amenable to antibiotic treatment, a highly virulent strain, methicillin resistant *S. aureus* (MRSA), is a leading cause of hospital-acquired infections in the United States.

The Invention

UW-Madison researchers have developed novel chemical agents that exhibit potent antibacterial activity against MRSA and potentially other Gram-positive bacterial pathogens. To identify these compounds, the inventors developed a versatile discovery platform that couples array technology with high throughput screening techniques to simply and rapidly synthesize small molecules and screen them for antibacterial activity.

Applications

- Treatment of bacterial infections, including infections with antibiotic-resistant bacteria such as MRSA

Key Benefits

- Provides novel antibiotic compositions
- Platform enables facile synthesis, screening and lead optimization of compounds.
- Compounds can be identified without labor-intensive and time-consuming deconvolution steps.

Additional Information

For More Information About the Inventors

- [Helen Blackwell](#)

Related Intellectual Property

- [View Divisional Patent in PDF format.](#)
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Tech Fields

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