



Immuno-Antimicrobial Therapy for Infection

Stimulation of innate immune pathways in combination with antibiotic treatment enhances traditional antibiotic therapies and also improves efficacy in resistant microbes. Researchers at CSU have demonstrated improved antibiotic efficiency in resistant and latent infections while co-treating with cationic lipid-DNA complexes (CLDC) to stimulate innate immune pathways. Preliminary experiments have been conducted in *Francisella tularensis* and *Burkholderia pseudomallei*.

In a pathogen specific relationship the efficacy of antibiotic therapy can be altered by the appropriate immune stimulation. Both treatment dose and treatment time are altered by immune stimulation. Additional synergistic effects have also been observed.



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Patent Information

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Inventor Information

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Related Technologies

CSURF 09-018

Publications

Not yet published

Features and Benefits

- Combination therapy circumvents antimicrobial resistance.
- Reduces the amount of antibiotic used in treatment and resolves infection more quickly.
- Kills bacteria in inaccessible sites and under conditions of latency.

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