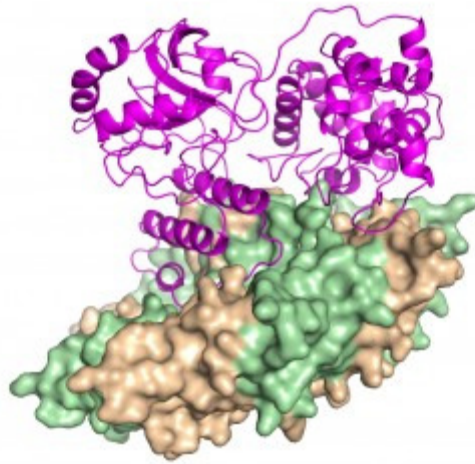


100 TIMES MORE EFFECTIVE BACTERIA KILLING TECHNIQUE THAT CAN PHASEOUT ANTIBIOTICS



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An illustration of the bacteriophage lysin Ply C

A Research organization has discovered the structure and operating procedures of a powerful anti-bacterial killing machine that could become an alternative to antibiotics. The bacteriophage lysin, kills bacteria that cause infections from sore throats to pneumonia and streptococcal toxic shock syndrome.

The researchers have spent the last six years deciphering the atomic structure of lysin, to better understand its remarkable anti-bacterial properties. " lysin is actually made from nine separate protein 'parts' that assemble to form a very effective bacterial killing machine. It actually resembles a flying saucer carrying two warheads," "It operates by locking onto the bacterial surface using eight separate docking sites located on one face of the saucer. The two warheads can then chew through the surface of the cell, rapidly killing the bacteria."

"lysin, in its purified form, has been shown to be 100 times more efficient at killing certain bacteria than any other lysin to date – even faster than household bleach.

"Scientists have been trying to decipher the structure of lysin for more than 40 years. Finally knowing what it looks like, and how it attacks bacteria, is a huge step forward,"

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