LISTERIA ENGINEERED TO SUPPORT AEROBIC GROWTH USING THE NON-MEVALONATE PATHWAY

Tech ID: 33236 / UC Case 2023-165-0

PATENT STATUS

Patent Pending

BRIEF DESCRIPTION

UC Berkeley researchers have developed variant Listeria bacteria that have one or more nucleic acids that encode polypeptides required for isoprenoid synthesis through the non-mevalonate pathway, wherein the Listeria bacterium grows aerobically in the presence or absence of a functional mevalonate pathway. The Listeria strain can be used to induce enhanced activation and expansion of human gamma delta T-cells and have been shown to do so in vitro.

SUGGESTED USES

» therapeutics to induce robust expansion and activation of human gamma delta T-cells

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INVENTORS

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OTHER INFORMATION

CATEGORIZED AS

» **Materials & Chemicals**

» Biological

» **Medical**

» Therapeutics

RELATED CASES

2023-165-0

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

▶ Listeria Variants and Methods of Use Thereof

▶ DP-L4056 Prophage-Cured Strain Of Listeria Monocytogenes