

1106-00-2929

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Population growth of a bacterium, streptococcus pneumonia, was examined. Knowing how fast a bacteria grows is essential in knowing how fast to respond to an infection. The projective population growth was calculated using the Leslie Matrix Model, which requires the fertility rate and survival rate of the bacterium. This study will determine if the Leslie Matrix Model is a model that can correctly predict the population growth of a bacterium. (Received September 17, 2014)