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## Molecular Cloning of TUL4 Gene of Francisella Tularensis

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## Abstract

Francisella tularensis is a pathogenic gram-negative bacterium and causes a pneumonic type of often fatal disease called Tularaemia. F. tularensis can infect a large number of mammalian species including humans. It is a fastidious, facultative intracellular bacterium, which requires cysteine for growth. Tularemia is treated with anti- microbials, for example, aminoglycosides, antibiotic medications, or fluoroquinolones. The objective of the assignment is to clone a PCR target gene (TUL4) of F.tularensis in E.coli. PCR was performed using genomic DNA of

F. tularensis as a template. After PCR, the amplicon was purified and cloned into a cloning vector. Positive clones were selected based on colony PCR screening. Recombinant plasmids from the positive E. coli clones were purified and kept for subsequent downstream applications.

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## **Biography**

Snigdha Gautam is a running student of MA, sem- 3, Diamond Harbour Women's University, West Bengal. He presented his paper on Partition and Women and this paper is going to be published. He is going to present again one paper in an international E- Conference on the topic Human Rights. Research Interest: Gothic Literature and Gender Studies.