

Principle of Bundle-shaped Tail Fibers

More durable and robust

The outer layer is made of environmentally friendly PVC, which is soft and elastic. It can be stretched without damage, so you can use it with confidence.



Principle of Bundle-shaped Tail Fibers



At the first step of phage infection, the receptor-binding proteins (RBPs) such as tail fibers are responsible for recognizing specific host surface receptors. The proper folding and assembly of ...



Here, we present the structure of DT57C determined by cryo-EM, and an atomic model of the virus, which was further explored using all-atom molecular dynamics simulations.



In this study, we determined the X-ray structure of the C-terminal LPS-binding domain of the Mu (-) tail fiber, the alternative tail fiber gp52, to understand the mechanism by which the two tail ...



Despite the wide occurrence of Tfa proteins, their functional mechanism has not been elucidated. Here, we investigate the tail fibre and Tfa of Escherichia coli phage Mu.



The bundle tail fiber is a crucial component in the fiber optic cable assembly, and any failure in this component can significantly impact the performance of the entire system. This article ...



LtfB proteins are identical in both phages and recognize another host receptor, most probably lipopolysaccharide (LPS) of *E. coli* O81 type. In these two bacteriophages, LTF function is ...



Here, we introduce RBPseg, a method that combines monomeric ESMFold predictions with a structural-based domain identification approach, to divide tail fiber sequences into manageable fractions for ...



Two other very important classes of examples of locally trivial fiber bundles are vector bundles and principal bundles. We now describe these notions in some detail.



To address this challenge, an overwhelming number of phages use a structure known as a tail. The tail creates a conduit between the phage capsid and host cytoplasm and allows the phage particle to ...



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RBPseg workflow in detail, step-by-step demonstrating the 682 architecture of RBPseg using TC14 fiber as example. A FASTA file is input to ESMfold, which 683 generates a monomeric model.

Contact Us

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