

Tail fiber is a side component



Overview

Tail fibers are specialized, proteinaceous appendages found at the base of the tail sheath in many bacteriophages (viruses that infect bacteria), serving as the primary structures for host cell recognition and initial reversible attachment. They act as the virus's "grappling hooks," initiating the infection process by facilitating DNA transfer. Tail fibers vary in length. Tail fibers are structures on the phage that mediate their initial interaction with bacterial hosts, allowing them to recognize and attach to the bacterial surface. This initial binding is a fundamental step that dictates whether a phage can successfully infect a particular bacterial cell. Tail. Here, using a minimal myocyanophage, termed Pam3, isolated from Lake Chaohu, we demonstrate that the chaperone gp25 forms a stable complex with the tail fiber gp24 at a stoichiometry of 3:3. 1-Å cryo-electron microscopy structure of this complex revealed an elongated structure with the gp25. Capsids are constructed from protein subunits known as capsomers, which self-assemble into a precise geometric configuration. Infections around the world is causing a global health crisis. The Gram-negative bacterium *Acinetobacter baumannii* is categorized as a Priority 1 pathogen for research and development of new antimicrobials by the World Health Organization due to its numerous intrinsic antibiotic resistance mechanisms.

Article Content

Tail fiber: Microbiology Study Guide | Fiveable

Tail fibers are protein structures that extend from the baseplate of a bacteriophage and play a crucial role in recognizing and binding to specific receptors on the surface of bacterial cells. They are ...

Chapter 20965

The short tail fibers (trimers of gp12) are “curled up” around the periphery of the baseplate and form part of the short tail fiber network, which also consists of two other trimeric proteins (gp10 and gp11).

Architecture of the bacteriophage lambda tail

To acquire atomic-level structural details, the tail particles were divided into three distinct reconstructions: tail cap, tail tip, and tail fiber (Figure 1 B).

What Are Tail Fibers and Why Are They Important?

Tail fibers are protein appendages located at the distal end of a bacteriophage's tail, extending from a structure called the baseplate. These fibers vary in length and number.

Bacteriophage Structure: Understanding the Building Blocks of These ...

Tail fibers and the base plate are essential components that facilitate the phage's interaction with its bacterial host. Tail fibers are elongated, flexible rods that are highly specialized to recognize unique ...

Tail Definition & Meaning

To form the tail or end of, as of a group or procession; be at the rear or end of.

TAIL Definition & Meaning

The meaning of TAIL is the rear end or a process or prolongation of the rear end of the body of an animal. How to use tail in a sentence.

TAIL | English meaning

TAIL definition: 1. a part of an animal's body, sticking out from the base of the back, or something similar in.... Learn more.

Structural Insights into the Chaperone-Assisted ...

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 ...

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Functional domains of Acinetobacter bacteriophage tail fibers

often found in the tail fibers of select *A. baumannii* phages. To further explore the functional domains associated with depolymerase activity, tail-associated proteins of 71 sequenced ...

What are tail fibers and their role in phage infection?

What are tail fibers? Tail fibers are specialized, proteinaceous appendages found at the base of the tail sheath in many bacteriophages (viruses that infect bacteria), serving as the primary ...

tail noun

Definition of tail noun in Oxford Advanced Learner's Dictionary. Meaning, pronunciation, picture, example sentences, grammar, usage notes, synonyms and more.

Structural Insights into the Chaperone-Assisted Assembly of a ...

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 tail ...

Bacteriophage Structure: Understanding the Building ...

Tail fibers and the base plate are essential components that facilitate the phage's interaction with its bacterial host. Tail fibers are elongated, flexible rods that are ...

TAIL Definition & Meaning | Dictionary

TAIL definition: the hindmost part of an animal, especially that forming a distinct, flexible appendage to the back end of its body. See examples of tail used in a sentence.

The Function of Bacteriophage Tail Fibers: Infection and Replication

☐☐ What Are Bacteriophage Tail Fibers? Bacteriophages (or phages) are **viruses that infect bacteria**, and their tail fibers are **long, flexible protein appendages** extending from the phage's head or tail ...

Contact Us

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