

Guinea Multimodal Tail Fiber



Article Overview

The term combines bacteriophage tail fiber biology with multimodal transport solutions in Guinea-Bissau, covering viral attachment mechanisms and integrated logistics frameworks.

Bacteriophage Tail Fibers

Tail fibers are specialized protein structures on bacteriophages (viruses that infect bacteria) that mediate host recognition and attachment. For example, T4 phages have long tail fibers (LTFs) and short tail fibers (STFs) attached to a hexagonal baseplate, which allow the virus to bind specifically to bacterial receptors such as those on *Escherichia coli* or *Shigella* species . In other phages, such as those infecting *Acinetobacter baumannii*, tail fibers often contain depolymerase domains that degrade bacterial capsules, enhancing infection efficiency and therapeutic potential . These fibers are typically homotrimeric and contain functional domains like pectin lyase-like, tailspike binding, and glycosidase motifs, which determine host specificity and enzymatic activity .

Multimodal Transport in Guinea-Bissau

In the context of Guinea-Bissau, "multimodal" refers to integrated logistics solutions combining sea, air, rail, and road transport to optimize supply chains. Companies like Shenzhen AeroLoad Logistics provide end-to-end multimodal transport, including customs clearance, warehousing, and IoT-enabled tracking, particularly for cashew exports and industrial machinery . These systems reduce delays, spoilage, and carbon footprint while ensuring "last mile" delivery to rural areas such as Bafatá an...

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Towards a complete phage tail fiber structure atlas

2 1 Towards a complete phage tail fiber structure atlas. 3 Victor Klein-Sousa¹, Aritz Roa-Eguiara¹, Claudia S.

Aug 10, 2025

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Phage Proteins Required for Tail Fiber Assembly Also Bind

The complicated nature of fiber structures necessitates the participation of intra- or intermolecular chaperones for their

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AlphaFoldpredicted structure of a typical type 1a tail fiber,

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RBPseg: Toward a complete phage tail fiber structure atlas

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Tail fiber function and structure | Bacteriophage T4 Tail Fibers as a ...

Structurally these viruses have a prolate icosahedral capsid (the head) attached at one vertex to a long protein infection promoting

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Guinea and Mali have agreed to interconnect their respective fiber optic networks, aiming to bolster their national infrastructures.

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