

Tail fiber pierced the sole of the foot



Overview

Beneath the subcutaneous tissue lies the deep fascia of the sole of foot, formed by the plantar aponeurosis. This strong, fibrous band extends from the heel to the toes. There are a variety of anatomical structures that make up the anatomy of the foot and ankle (Figure 1) including bones, joints, ligaments, muscles, tendons, and nerves. The foot is traditionally divided into three regions: the hindfoot, the. Here, we demonstrate that N-terminally truncated R pyocin tail fibers corresponding to a region of variation between R-subtypes are sufficient to bind target strains according to R-subtype. Only pay the difference 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. While walking barefoot in a barn, Jeremy stepped on a rusty nail that penetrated the epidermis on the sole of his foot. Your feet are a brilliant example of evolutionary engineering. They allow you to walk and run upright while absorbing impact that can be many times your body weight.



Article Content

Jul 16, 2026

Foot Anatomy - eOrthopod

The main nerve to the foot, the tibial nerve, enters the sole of the foot by running behind the inside bump on the ankle, the medial malleolus. This nerve supplies sensation to the toes and sole of the foot and ...

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Foot Bones and Joints | Arthritis Foundation

The plantar fascia is the foot's longest and probably most well-known ligament. It runs along the bottom of the foot connecting the heel bone to the base of the toes.

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Anatomy of the Foot and Ankle

Collectively the muscles in these four compartments are referred to as the extrinsic muscles of the foot because they originate above the foot in the leg, but insert within the foot.

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R pyocin tail fiber structure reveals a receptor-binding domain with a ...

In our investigation of the R pyocin tail fiber foot domain, we revealed that the foot domain distal loop network is highly variable in both sequence and structure between R1 and R2-subtype tail ...

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This review aims to provide scientific support for new clinical perspectives concerning the foot sole as a sensory structure and emphasizes how several intervention programs aimed at ...

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Foot Anatomy: Bones, Joints, and Causes of Pain

Morton's neuroma is a common foot problem where compression on a nerve in the ball of the foot causes burning, tingling, and pain, usually near the third and fourth toes, but sometimes near ...

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Chapter 5 The Integumentary System (book) Flashcards

While walking barefoot in a barn, Jeremy stepped on a rusty nail that penetrated the epidermis on the sole of his foot. Name the layers the nail pierced from the superficial skin surface to the junction with ...

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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 ...

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Sole of Foot

Sole of Foot Dr Ashraf Sadek PhD, MD, MRCPCH. Assistant Professor of anatomy and embryology.

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Sole of foot: Anatomy and function | Kenhub

The blood supply to the sole of foot is primarily from the posterior tibial artery, which divides into the medial and lateral plantar arteries that run alongside their respective nerves.

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