

# One Square Foot of Skin: A Microscopic Exploration of the Largest Organ of the Human Body

The skin is the largest organ of the human body, covering a surface area of approximately 22 square feet. It is made up of multiple layers of cells that protect us from the elements, regulate our temperature, and allow us to sense the world around us.



## Face: One Square Foot of Skin by Justine Bateman

★★★★☆ 4.1 out of 5

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In this article, we will take a closer look at one square foot of skin, examining the different layers and cells that make it up and exploring the amazing functions that it performs.

## The Epidermis

The epidermis is the outermost layer of the skin, and it is made up of multiple layers of cells that protect the body from the elements. The outermost layer of the epidermis is called the stratum corneum, and it is

composed of dead cells that are filled with a protein called keratin. Keratin is a tough, fibrous protein that helps to protect the skin from damage.

The epidermis also contains other types of cells, including melanocytes, which produce melanin, the pigment that gives skin its color. Melanocytes help to protect the skin from the sun's ultraviolet (UV) rays.

## **The Dermis**

The dermis is the middle layer of the skin, and it is made up of connective tissue, blood vessels, and nerves. The connective tissue in the dermis is composed of collagen and elastin, two proteins that give the skin its strength and elasticity.

The dermis also contains hair follicles, sweat glands, and sebaceous glands. Hair follicles are small, tube-shaped structures that produce hair. Sweat glands are small, coiled glands that produce sweat, which helps to cool the body. Sebaceous glands are small, sac-like glands that produce sebum, an oily substance that helps to lubricate the skin.

## **The Hypodermis**

The hypodermis is the innermost layer of the skin, and it is made up of adipose tissue, or fat. Adipose tissue helps to insulate the body and protect it from cold temperatures.

## **Functions of the Skin**

The skin performs a number of important functions, including:

- **Protection:** The skin protects the body from the elements, including UV rays, heat, and cold. It also protects the body from bacteria,

viruses, and other pathogens.

- **Temperature regulation:** The skin helps to regulate the body's temperature by sweating and shivering.
- **Sensation:** The skin contains nerve endings that allow us to sense the world around us. We can feel pressure, temperature, pain, and other sensations through our skin.
- **Excretion:** The skin helps to excrete waste products through sweat.
- **Absorption:** The skin can absorb certain substances, such as oxygen and vitamins.

The skin is a complex and amazing organ that performs a number of important functions. By understanding the structure and function of the skin, we can better appreciate its importance and take care of it.

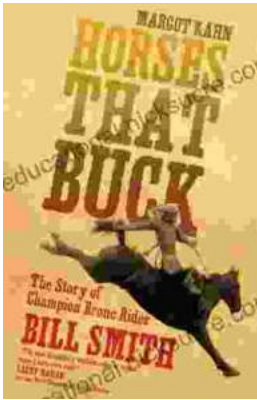


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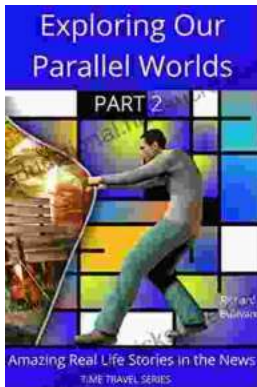
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