

Thick skin (histological preparation)

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This article has been translated from WikiSkripta; ready for the **editor's review**.

Thick-type skin, stained with H&E

Layers

Thick-type skin - detail, stained with H&E

Epidermis

The Epidermis (skin) consists of a **stratified squamous" epithelium with a keratinization**. It regularly runs into the dermis layer and thus creates "epidermal ridges". On the cross-section, we distinguish five layers (layer = *stratum*):

- str. basale: cubic to cylindrical basophilic elements in a single layer that sit on the lamina basalis. The only intercellular junctions are **desmosomes**
- pp. spinosum: cubic polygonal elements with cytoplasmic protrusions. We find tonofibrils in them,
- str. granulosum: basophilic layer with keratohyaline granules (stains intensely dark purple),
- pp. lucidum: a thin translucent layer, the cells no longer have nuclei or organelles, they are filled mainly with keratin filaments,
- pp. corneum: anucleate cornified elements.

Pg. basale and str. spinosum are referred to by the common name '*str. germinativum* (germ layer).

Dermis

The dermis (Slovak *suede*, Czech *skára*) develops from mesenchyme and consists of connective tissue that strengthens the epidermis. In some places, it runs into the epidermis and thus creates "dermal papillae". It consists of two layers:

- pp. reticulare: dense tissue,
- pp. papillare: thin ligament.

Hypodermis

The hypodermis (subcutaneous tissue) consists of thin tissue, adipocytes, sweat glands (eccrine – simple coiled tubular glands opening onto the surface of the skin, basally surrounded by myoepithelial cells).

Links

Related Articles

- Physiological activity of the skin
- Histopathological changes in the skin

References

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