

FIGURE 5.2 Diagram showing the main features—layers and relative distribution of the different cell types—in epidermis of thin skin. The keratinocytes (tan) form the bulk of the epidermis. Less numerous are the melanocytes (gray), which produce the

pigment melanin; Langerhans' cells (blue), which function as macrophages; and Merkel cells (purple). A sensory nerve ending (yellow), extending to the Merkel cell from the dermis (pink), is shown associated with the Merkel cell forming a Merkel disc (touch receptor). Notice that

the keratinocytes, but not the other cell types, are joined by numerous desmosomes (indicated by connections between membranes of adjacent cells). The stratum lucidum, present in thick skin, is not illustrated here.

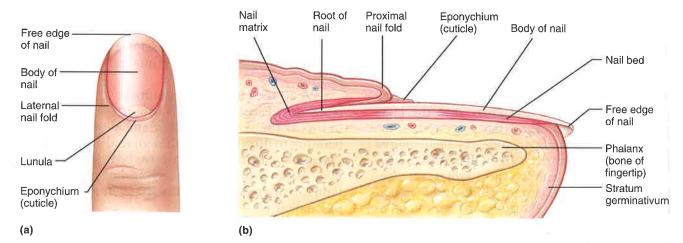


FIGURE 5.7 Structure of a nail. (a) Surface view of the distal part of a finger showing nail parts. (b) Sagittal section of the fingertip. The nail matrix that forms the nail lies beneath the lunula; the epidermis of the nail bed underlies the nail.

