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Fig. 3. The human TES: a Diagram of the layers of cells that comprise skin. From Alberts et al.
[69] (reproduced with permission of the publisher). A = Square about to flake from the tissue
surface; B = keratinized squames; C = granular cell layer; D = prickle cell layers; E = basal cell
layer; F = basal cell lamina; G = connective tissue of dermis; H = dividing basal cell; I =
peripheral basal cell passing into prickle cell layer; b Cross section of the human TES at 30 days
after the initiation of the maturation phase (see Methods). B, D = Basal and dermal layers; C = cornified layer. HE. × 200. c Cross section of the human TES demonstrating the single layer of basal cells (B) and the multicellular, spiny layers (S). Intercellular desmosomal junctions are exposed. D = Dermis. d Cross section of the human TES revealing the train of granules (arrowheads) associated with the granular layer. e Electron micrograph of the columnar-type cells found in the basal cell layer of the human TES. × 2,750. f Electron micrograph of multiple-spot desmosomes binding adjacent cells. × 22,000. g Electron micrograph of the TES showing bundles of keratin filaments interspersed throughout an epithelial cell of the TES. × 22,000.

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Kochi, Japan, November 7, 1990 Chairman: H. Orimo, Tokyo