



**Fig. 3.** A process terminal swelling (button) of a Langerhans cell (LC) at the site of the wayout of a hair canal. The button also makes contact directly beneath the cornified layer of the canal. **A1–5:** Serial sections of the above mentioned site. **A1**,  $\times 150$ ; **A2–5**,  $\times 750$ . A picnotic dendritic clear cell is seen in photographs A2 through A4, but the connection between the process and the cell body is not confirmed. **B:** An electron micrograph of the process terminal from the area seen in section A3. The outline of the terminal swelling (button) is also rugged, and the internal cytoplasm clearly contains plenty of Birbeck granules of various shapes. Some large vacuoles and Birbeck granules are seen in the process near the button.  $\times 12,075$  (bar = 1  $\mu\text{m}$ ).

(Fig. 2). After this was detected, the same features were found in succession.

### ***The characteristics of light microscopic features***

#### ***Stainability***

By 1% methylene blue staining, the LCs including their processes and terminal swellings (but-

tons) were found clearly in contrast with the adjacent densely stained keratinocytes.

#### ***Morphology***

In the perpendicular sections, the shape of the button seems to be the side view of a trumpet facing the opening edge to the horny layer. The size of the buttons varied (Figs. 2–5).