



*Figure 17* A scanning electron micrograph of the mucociliary epithelium of the olfactory surface of the frog. These cilia operate with no apparent metachrony, and the resulting random motion serves to stir and mix rather than propel the ambient fluid. Accordingly, they may affect transmembrane transport, an important consideration in any chemosensitivity analysis. The scale bar is 10  $\mu\text{m}$ . (We are indebted to Dr. P. P. C. Graziadei for this photograph.)