



Fig. 1. Cell dynamics in an adult Hydra. Cells divide in the body column, and cell division displaces cells towards the ends of the animal and into buds. Ectodermal and endodermal epithelial cells in the body column give rise to the differentiated ectodermal and endodermal epithelial cells of the tentacles and basal disk. Interstitial stem cells give rise to four classes of differentiated cells. Arrows indicate experimentally determined travelling times of epithelial cells (Campbell 1967b).