



Fig. 1. Simplified models of Purkinje cells as utilized in the computer simulation of frog cerebellum (PELLIONISZ *et al.*, 1977). A: the overall organization of the model; Purkinje cells lie between granular layer (on left) and molecular layer (at right). The bodies of the Purkinje cells are represented by dots; only a few dendritic trees are illustrated. In B, somatic locations of Purkinje cells (dots) and their dendritic trees (gradually thinned out in number towards the closer end for easier visualization) viewed from above. In C, D and E: representative Purkinje cell dendritic 'skeletons'. Dots represent location for spiny branchlets where the crossing parallel fiber establishes contact with the Purkinje cell spines. In F, a more detailed account of the model. Note different dimensional scales for the dendritic and axonal length and their width.