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Restoration of a multituberculate based principally on a specimen of Ptilodus kummae from the late Paleocene of western North America. Ptilodus kummae possessed several specializations for climbing, including an unusual range of tarsal mobility characteristic of arboreal mammals that descend trees headfirst, a divergent, grasping hallux, and a prehensile tail. See page 712. [L. L. Sadler, Biomedical Communications, University of Texas Health Center at Dallas 75235]