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Restoration of a multituberculate based principally on a specimen of Ptilodus kummaefrom 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]