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COVER

Packy, a 19-year-old Asian elephant (Elephas maximus) at the Washington Park Zoo, Portland, Oregon, is one of two mature bulls utilized in a unique bioassay procedure coupled to the chemical fractionation of female sex pheromones present in estrous urine and urogenital sinus secretions. This bioassay involves semiquantitative Flehmen-like responses to extracted components. See page 159. [Lois E. Rasmussen, Oregon Graduate Center for Study and Research, Beaverton, Oregon 97006]