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Cover After birth, adipose tissues, especially white adipose tissue, undergo marked expansion with tissue mass and lipid contents increasing dramatically from newborn pups to adult mice. Postnatal adipose expansion is stimulated by switching diet from high-fat maternal milk to carbohydrate-based chow and is associated with marked induction of lipogenesis enzymes. Shown here is a histology (H&E) staining of inguinal white adipose tissue from an adult mouse, in which typical mature adipocytes are filled with enlarged lipid droplets. MED1, a subunit of the general transcription coactivator complex Mediator, is required for postnatal adipose expansion and the induction of lipogenesis genes after pups switch diet from high-fat maternal milk to carbohydrate-based chow. (For details, see Jang et al., p. 713, and Ito et al., p. 729.)