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Cover Legend: Cross-section of reconstructed cartilage from the femur of a 2-mo-old mouse, visualized by phosphotungstic acid-enhanced micro-computed tomography. This enhancement allows visualization of soft tissues and measurement of articular cartilage volume during postnatal growth. Combining of this approach with clonal genetic tracing revealed that adult murine articular cartilage is formed de novo by the progeny of the superficial cells, which entirely substitute fetal and neonatal chondrocytes during postnatal life.