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Photomicrograph of a longitudinal section through an element of the conodont **Cordylodus** showing features that imply that conodonts have a vertebrate affinity. The light-colored birefringent crown is interpreted as cellular bone and the spherules in dark basal filling as calcified cartilage. **Cordylodus** was extant from the late Cambrian to earliest Ordovician. See page 1308 and the Perspective on page 1285. (Background) Photograph of the soft-bodied specimen of the conodont **Clydagnathus** (Mississippian) discovered in 1982 in Edinburgh, Scotland. [Photomicrograph: I. J. Sansom; photograph: J. K. Ingham]

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