Electron micrograph (×94,000) of an intracellular human eosinophil granule in an ileal biopsy of a patient with ulcerative colitis. This granule is a representative of the major granule population in eosinophils and is composed of a central, electron-dense crystalline area and a less dense matrix surrounding the core. A trilaminar membrane encloses the granule. Of particular interest is the presence of an elongated, narrow extension of this granule that primarily contains electron-dense core material (known to contain major basic protein). The unit membrane overlying this granule extension comes in contact with the plasma membrane of this eosinophil (closed arrow). A plasma membrane-connected coated vesicle is nearby (open arrow). Numerous larger, smooth membrane-bound vesicles reside in the cytoplasm surrounding this granule. Interstitial collagen fibers are aligned below the plasma membrane of this eosinophil.