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Neurons (A-type horizontal cells) in a cat retina showing morphological changes after treatment with the neurotoxin kainic acid. A toxin concentration gradient results in a sharp boundary separating a region of normal horizontal cell density from a region of total cell loss (top). The surviving cells, exposed to a sublethal kainic acid concentration, have contracted processes and therefore reduced overlap. In addition, they grow new processes into inadequate retinal layers. The field is 800 by 600 micrometers. See page 503. [Leo Peichl and Jürgen Bolz, Max-Planck-Institut für Hirnforschung, Frankfurt, West Germany]
Science 223 (4635), 440-505.