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Superimposed optical and scanning electron micrographs of the mineralized protective armor plates of the chiton Acanthopleura granulata. Coincident with the dark pigments are image-forming lenses primarily composed of aragonite, in marked contrast to the protein-based eyes of most animals. In addition to providing mechanical protection, such design simultaneously allows the organism to monitor potential predatory attacks through optical vision. See pages 899 and 952. Image: Ling Li

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