

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: TEM tomography movie of the iridosome shown in Fig. 4b. It is evident that the two intraluminal ‘fibrils’ are in fact 2D sheets which ‘cap’ the (100) faces of the growing guanine crystal.

File Name: Supplementary Movie 2

Description: TEM tomography movie showing several iridosomes at different stages of development in a juvenile scallop eye (~200 μm in diameter).