

## Supplementary Materials for

### **Shaping highly regular glass architectures: A lesson from nature**

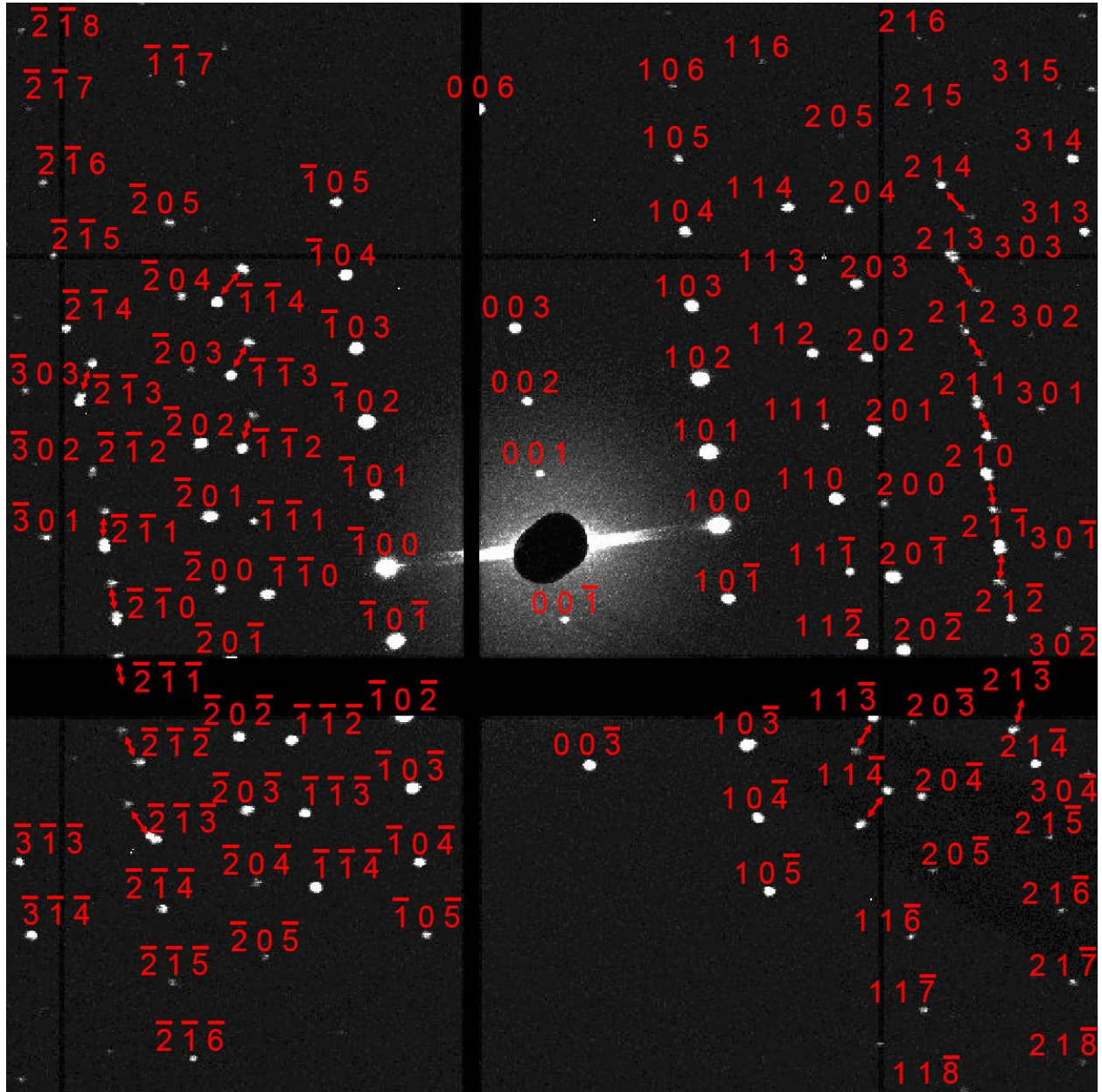
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- fig. S1. Indexed x-ray diffraction pattern acquired from the stronglyloxea from the demosponge *T. aurantium*.
- fig. S2. Indexed x-ray diffraction pattern acquired from the main shaft of the dichotriaene from the demosponge *S. ponderosus*.
- fig. S3. Indexed x-ray diffraction pattern acquired from a mature sterraster from the demosponge *G. cydonium*.



**fig. S1. Indexed x-ray diffraction pattern acquired from the stronglyloxea from the demosponge *T. aurantium*. The arrows indicate reflections doubling from similar crystallographic planes.**

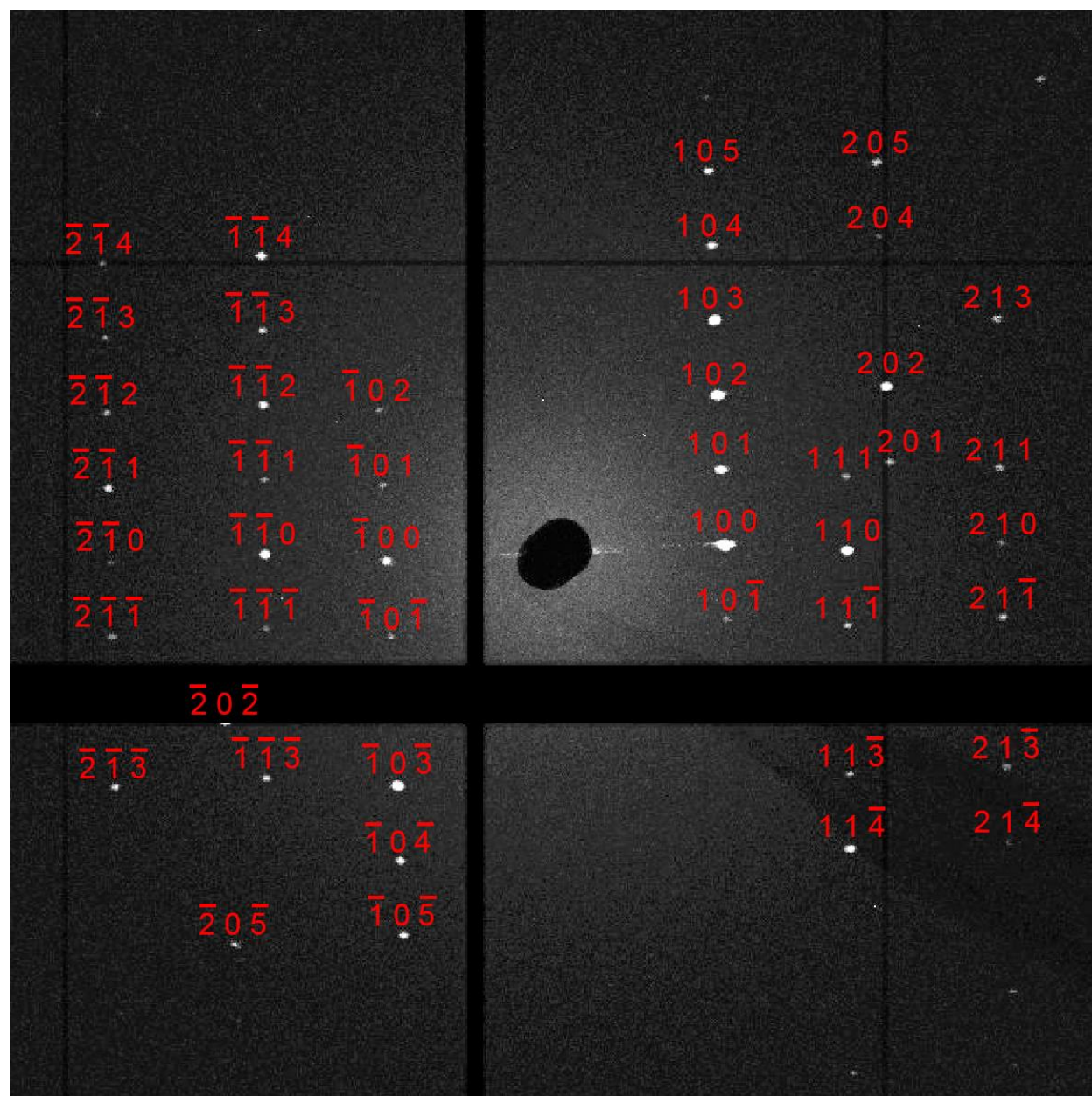
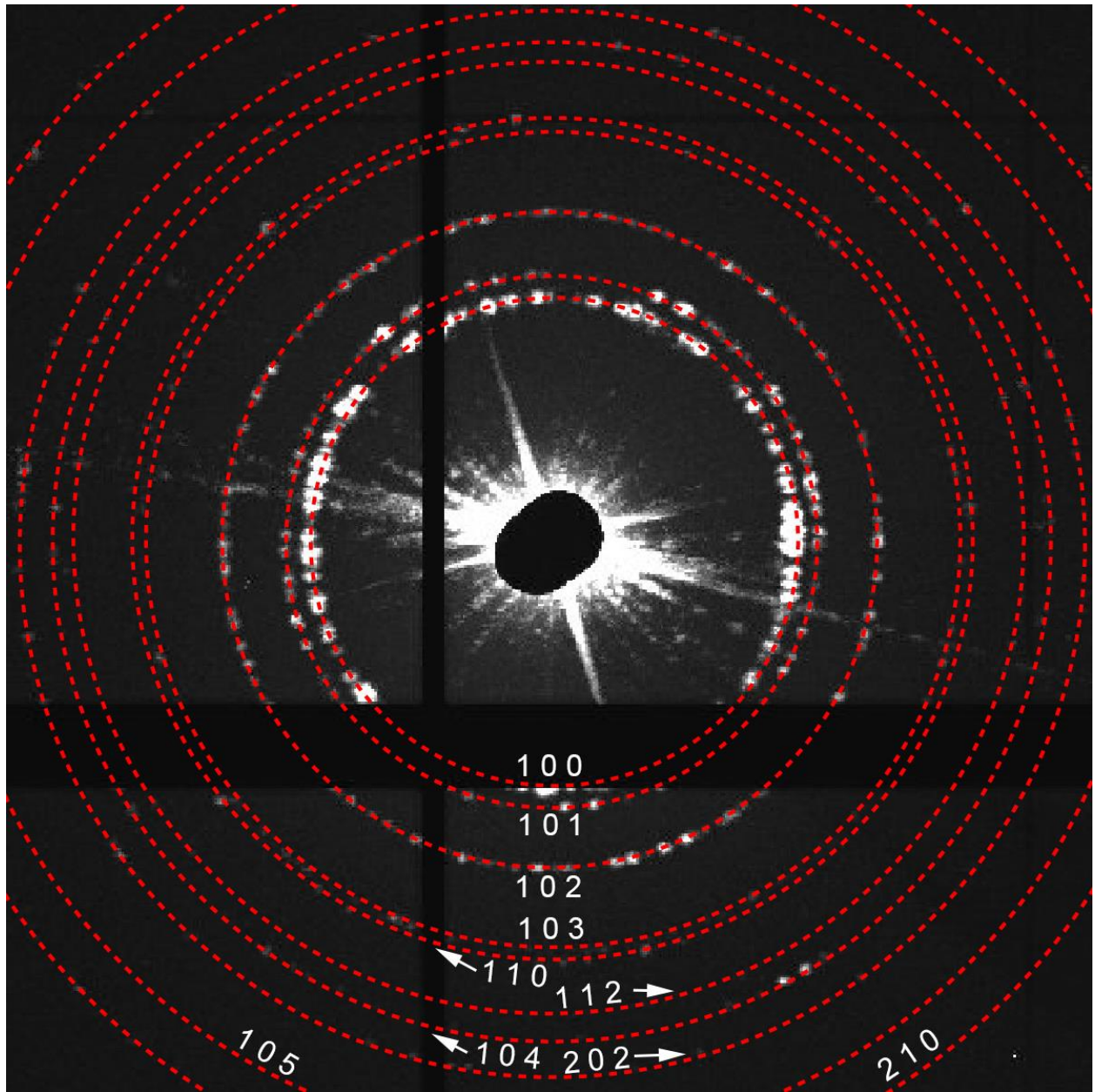


fig. S2. Indexed x-ray diffraction pattern acquired from the main shaft of the dichotriaene from the demosponge *S. ponderosus*.





**fig. S3. Indexed x-ray diffraction pattern acquired from a mature sterraster from the demosponge *G. cydonium*.**