

## Supporting Information

### **Crystal patterns created by rupture of a thin film**

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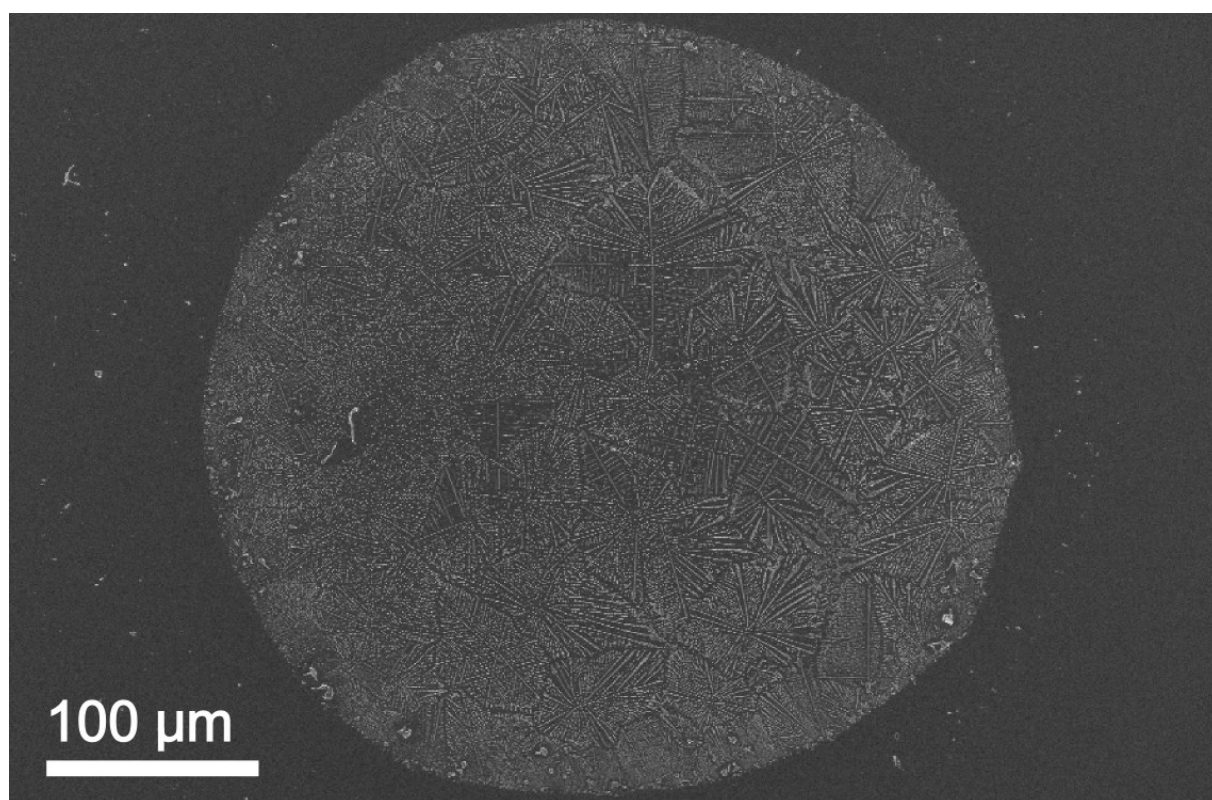


Figure S1 SEM image of entire droplet shown in Figure 1 of the main body of text.

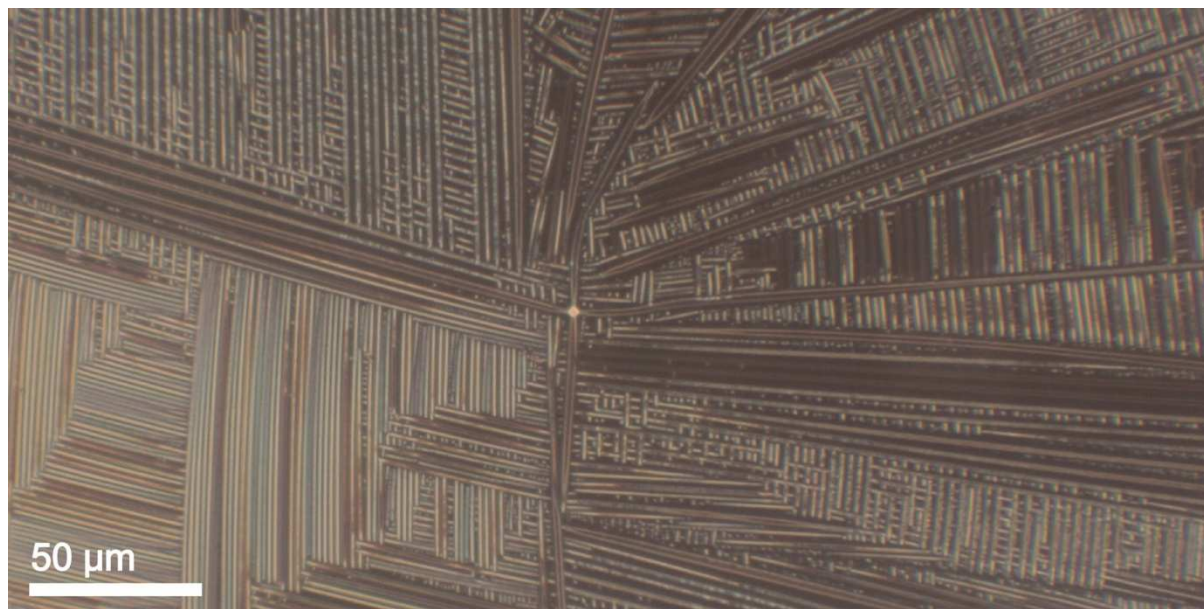


Figure S2a Light microscopy image of mica surface 1 min after dewetting by 0.25 wt % NaCl solution. Note continuous lines emanating from central crystal of fourfold symmetry.

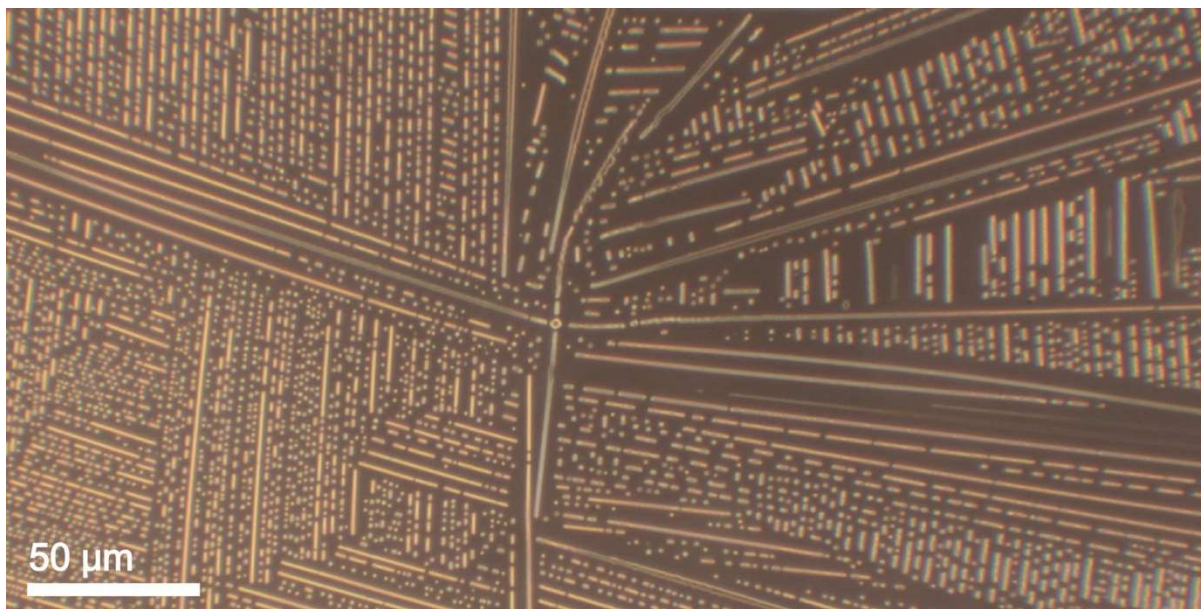


Fig. S2b Light microscopy image of mica surface 150 min after dewetting by 0.25 wt % NaCl solution. The initially continuous lines have broken up into many short segments.

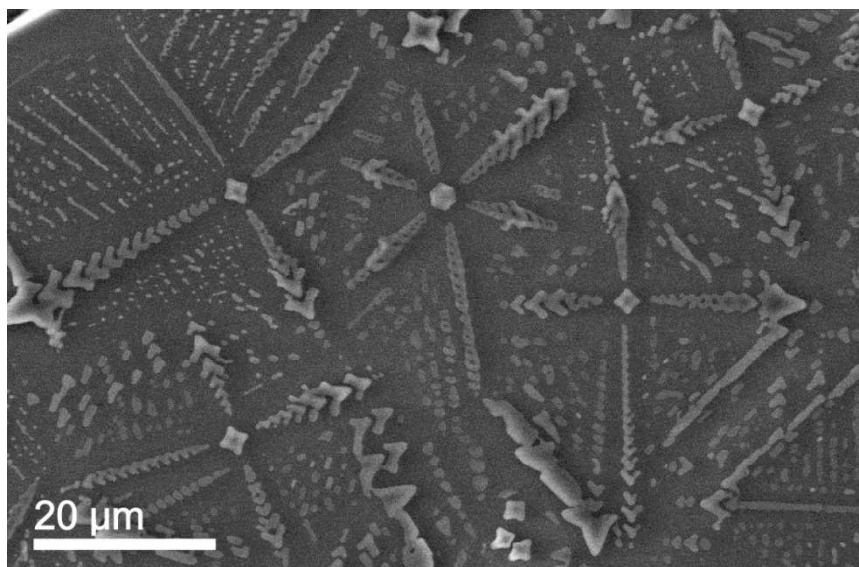


Figure S3 SEM images of dewetting cells obtained with an environmental electron microscope (Quanta 200F FEG-SEM) at 10 % humidity, showing clearly the relationship between the symmetry of the central crystal and that of the crystal dendrites.

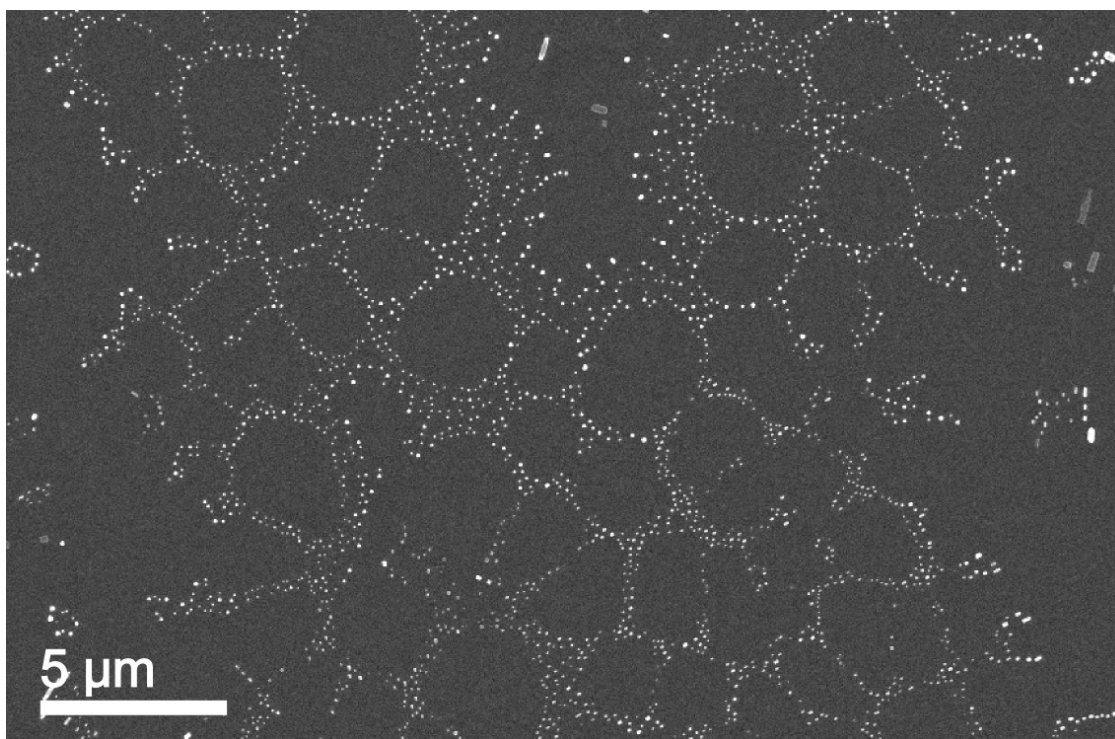


Figure S4 SEM image of a larger area suggesting the signature of spinodal dewetting (cf. Figure 6a) on evaporation of an initially 0.025 % by wt NaCl solution.

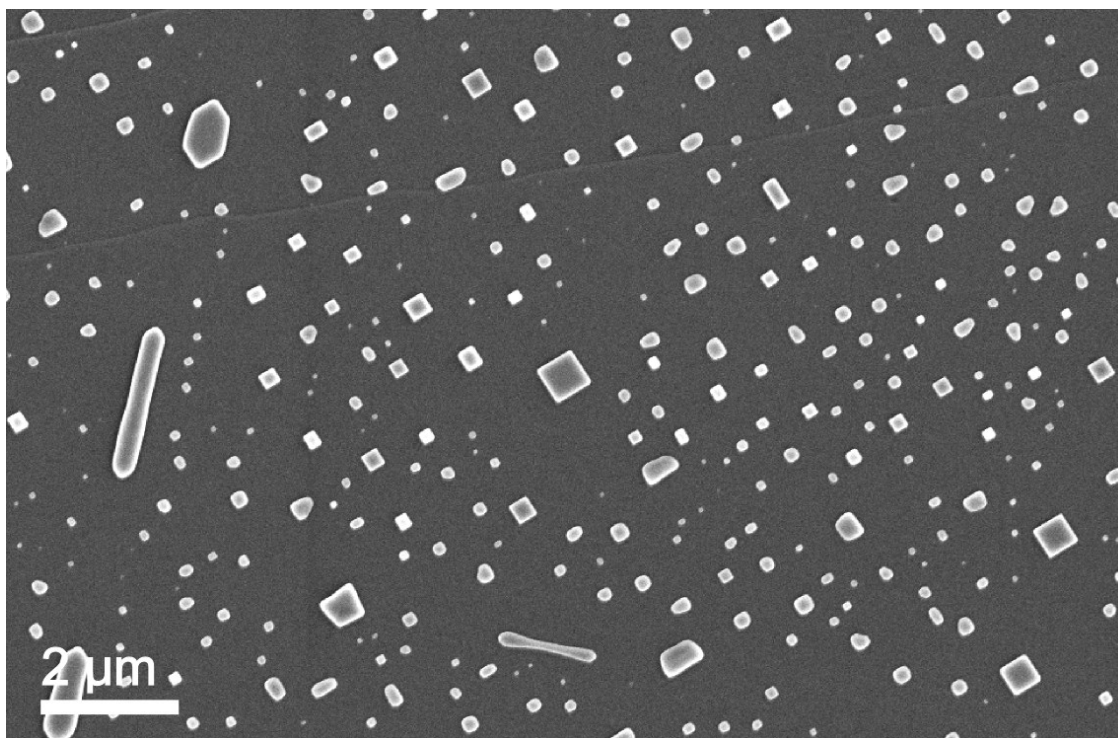


Figure S5 SEM image of NaCl crystals deposited on the (104) cleavage face of calcite from 0.1 wt. % NaCl solution in areas remote from points of film rupture.

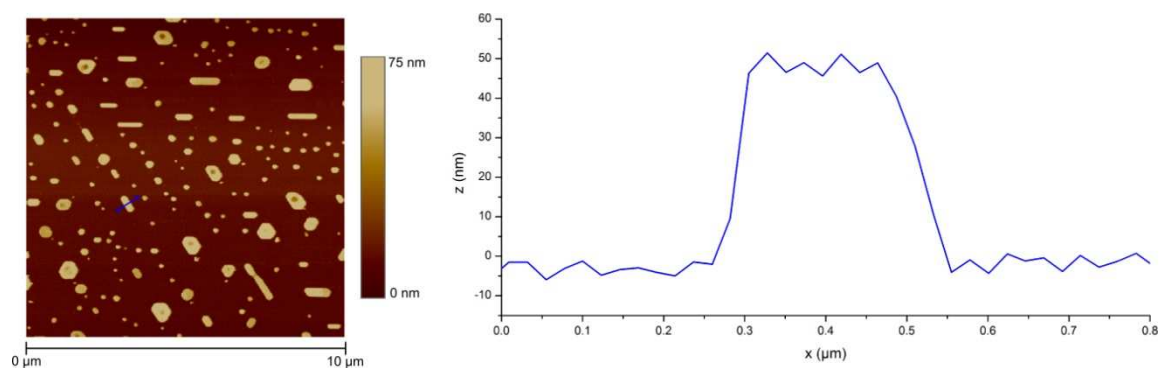


Figure S6 Typical AFM image and profile of elongated dendritic crystal in dewetting cells around points of film rupture. Note the relatively flat top face of the crystal.

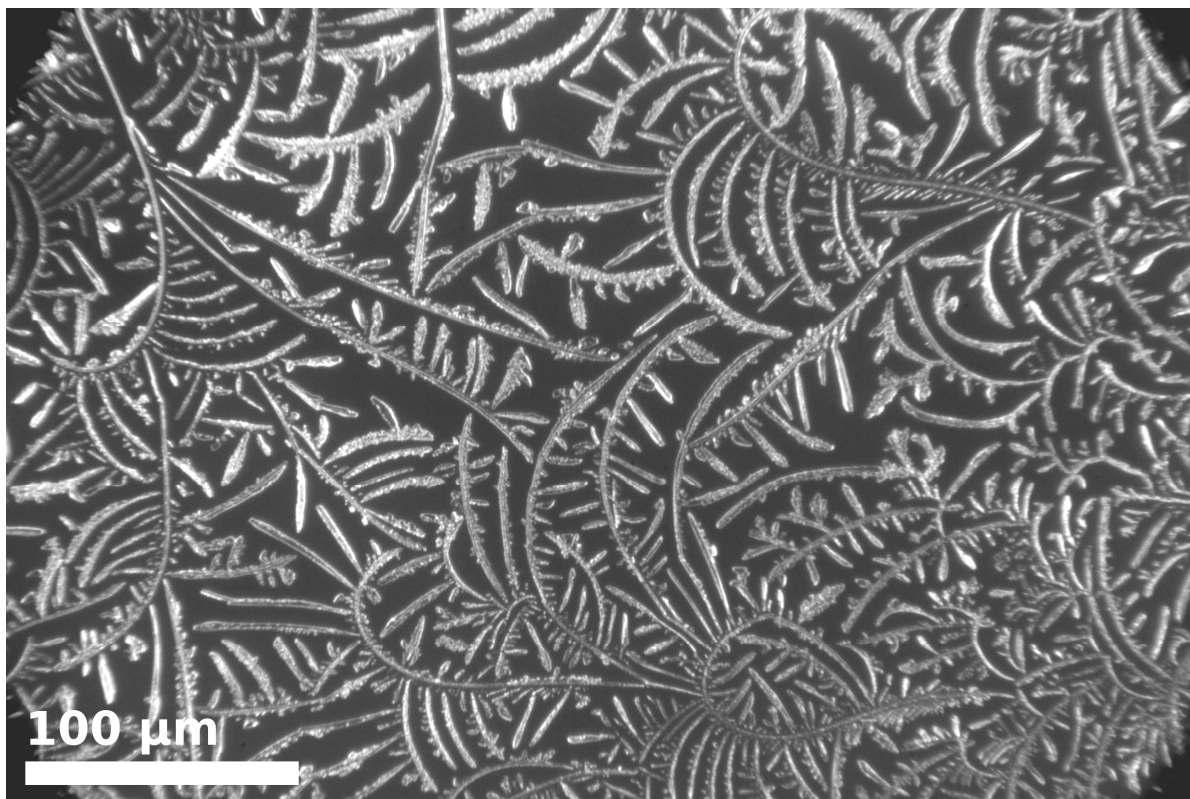


Figure S7 Light microscopy image of mica surface ca. 1 min after dewetting by 0.1 wt % aqueous glycine solution.