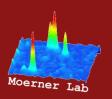
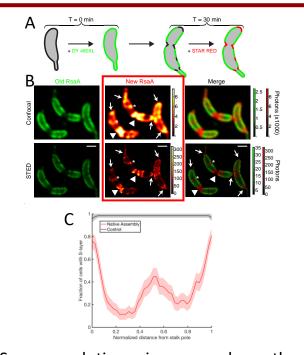


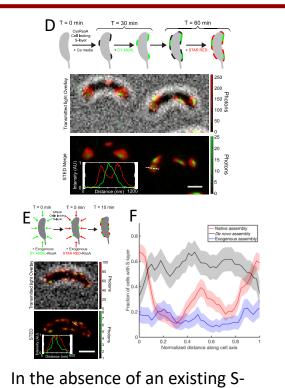
Topologically-guided continuous protein crystallization controls bacterial S-layer self-assembly



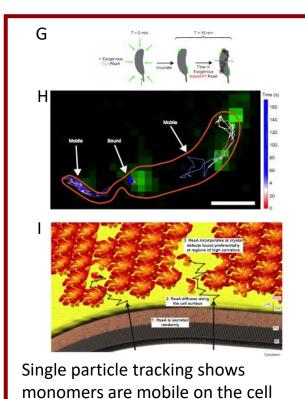
The surface layer is the outermost crystalline protein surface of many bacteria and most archaea.



Super-resolution microscopy shows the S-layer assembles at cell poles (arrow), division plane (triangle), and crack-like features (asterisk).



In the absence of an existing Slayer, crystals nucleate randomly along the cell body.



surface and bind to the edges of

growing crystal patches.

The S-layer self-assembles at crystal defects formed preferentially at regions of high curvature.