



Supporting Information

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**The Puzzle of the Walnut Shell: A Novel Cell Type
with Interlocked Packing**

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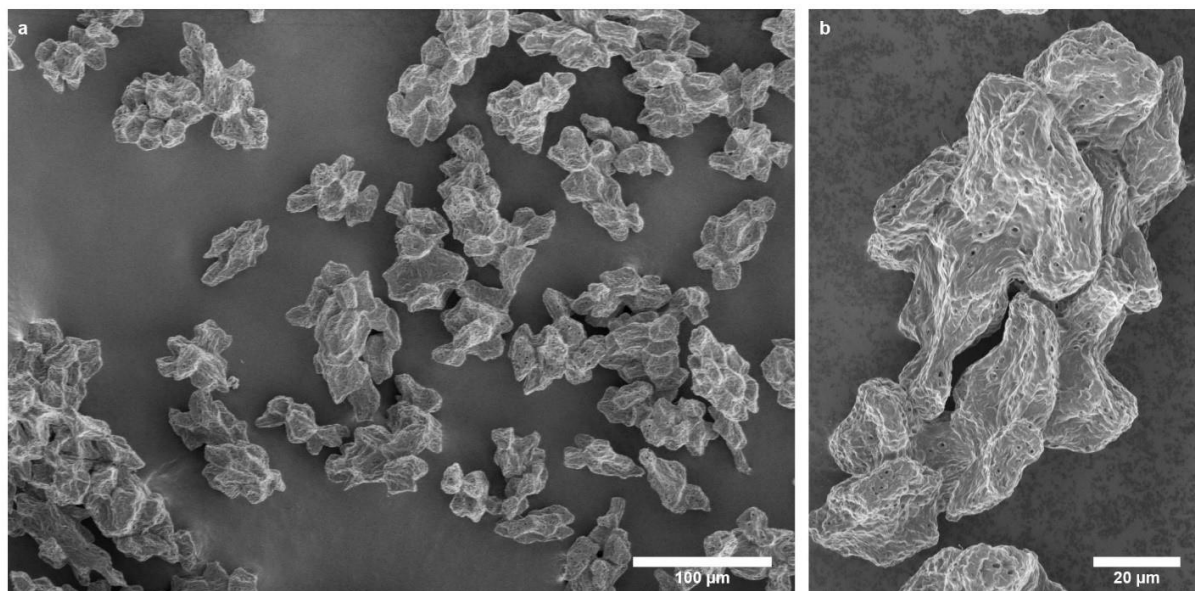


Figure S1. Scanning electron microscopy (SEM) of macerated walnut cells. (a) Diversity of polylobed single cells of a walnut shell (October) after treating with H₂O₂ and acetic acid (b) a close-up of two interlocked cells.

Movie S1. (*online*) Confocal laser scanning microscope (CLSM) depth scan through two single cells, chemically isolated from the walnut shell and treated with Calcofluor white to stain cellulose.

Movie S2. (*online*) Arrangement of several cells in the walnut tissue after CT-reconstruction. The yellow cell is the initial cell and all its 14 neighboring cells appear successively, which illustrates the 3D-jigsaw morphology and the interlocking of the cells.