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Supplementary

Nanoscopic Characterization of Starch Biofilms Extracted from the Andean Tubers *Ullucus tuberosus*, *Tropaeolum tuberosum*, *Oxalis tuberosa*, and *Solanum tuberosum*

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Supplementary Materials:

S.3.1. Macroscopic optical differences between films containing mouthwash

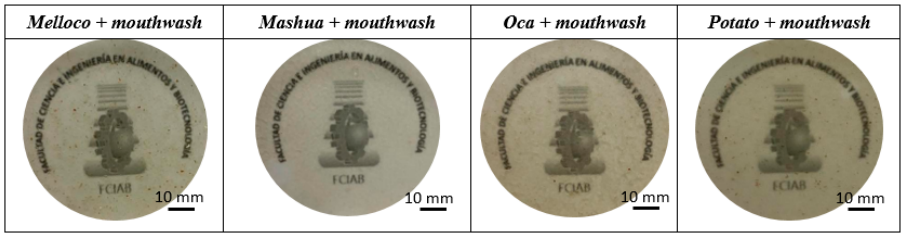

Figure S1. Visual appearance and apparent transparency of starch films with mouthwash extracted from each of the Andean tubers analyzed.

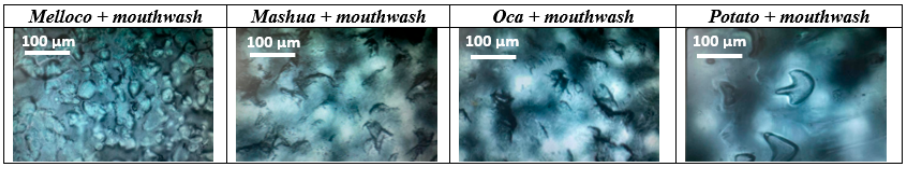

Figure S2. Micrographs of starch films extracted from each of the Andean tubers analyzed, after addition of a mouthwash to each one, in reflection using white light transmission illumination.

S.3.2. Nanoscopic characterization

S.3.2.1. Topography

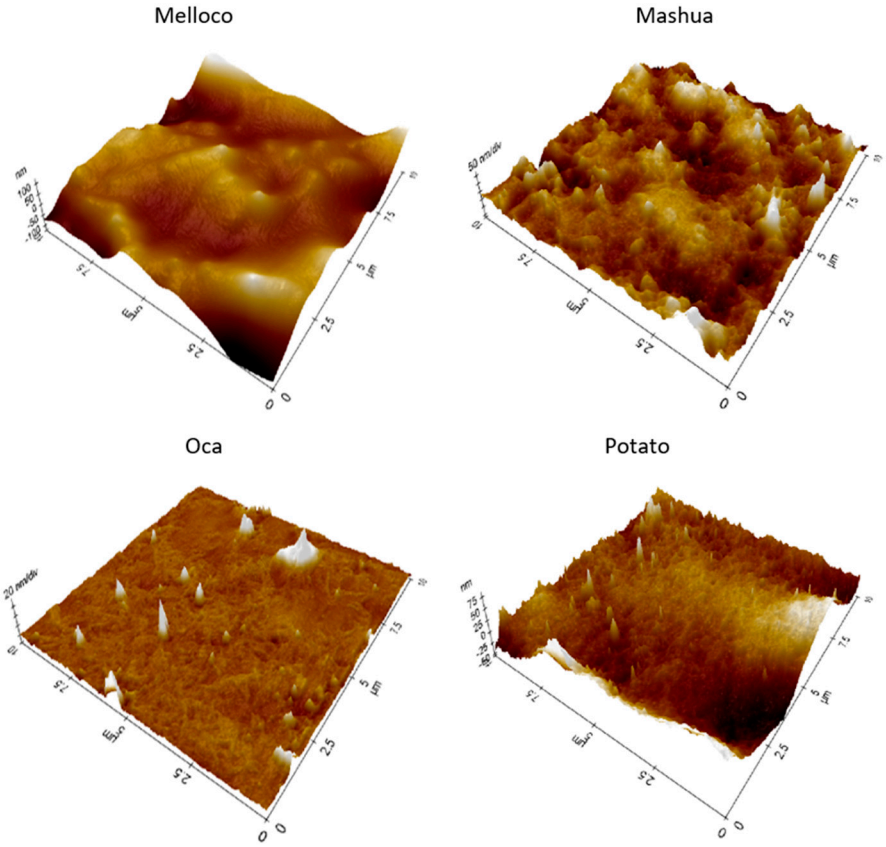

Figure S3. Atomic Force Microscopy topography 3D images of 10 x 10 μm² range.

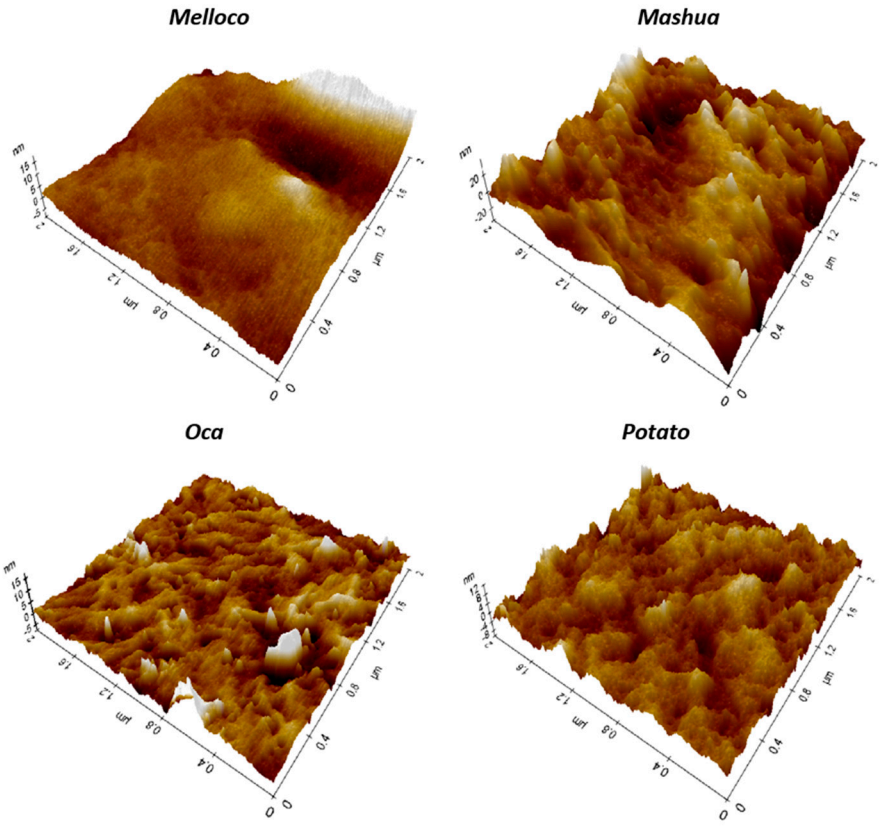

Figure S4. Atomic Force Microscopy topography 3D images of 2 x 2 μm² range.

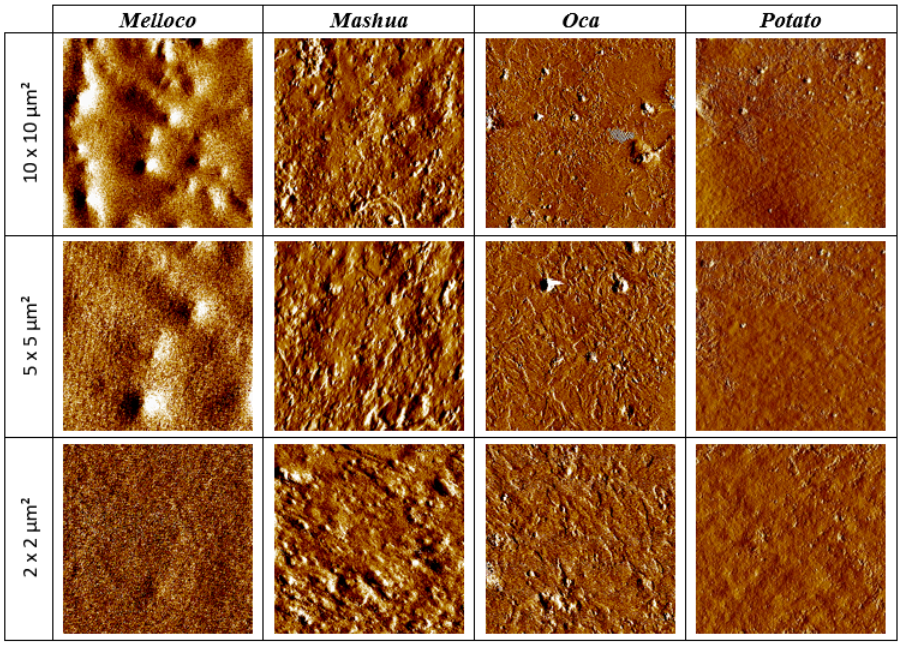

Figure S5. Atomic Force Microscopy amplitude (lock-in, error signal) measured in tapping mode on the surface of biofilms extracted from the Andean tubers melloco, mashua, oca, and potato, at different scan areas.