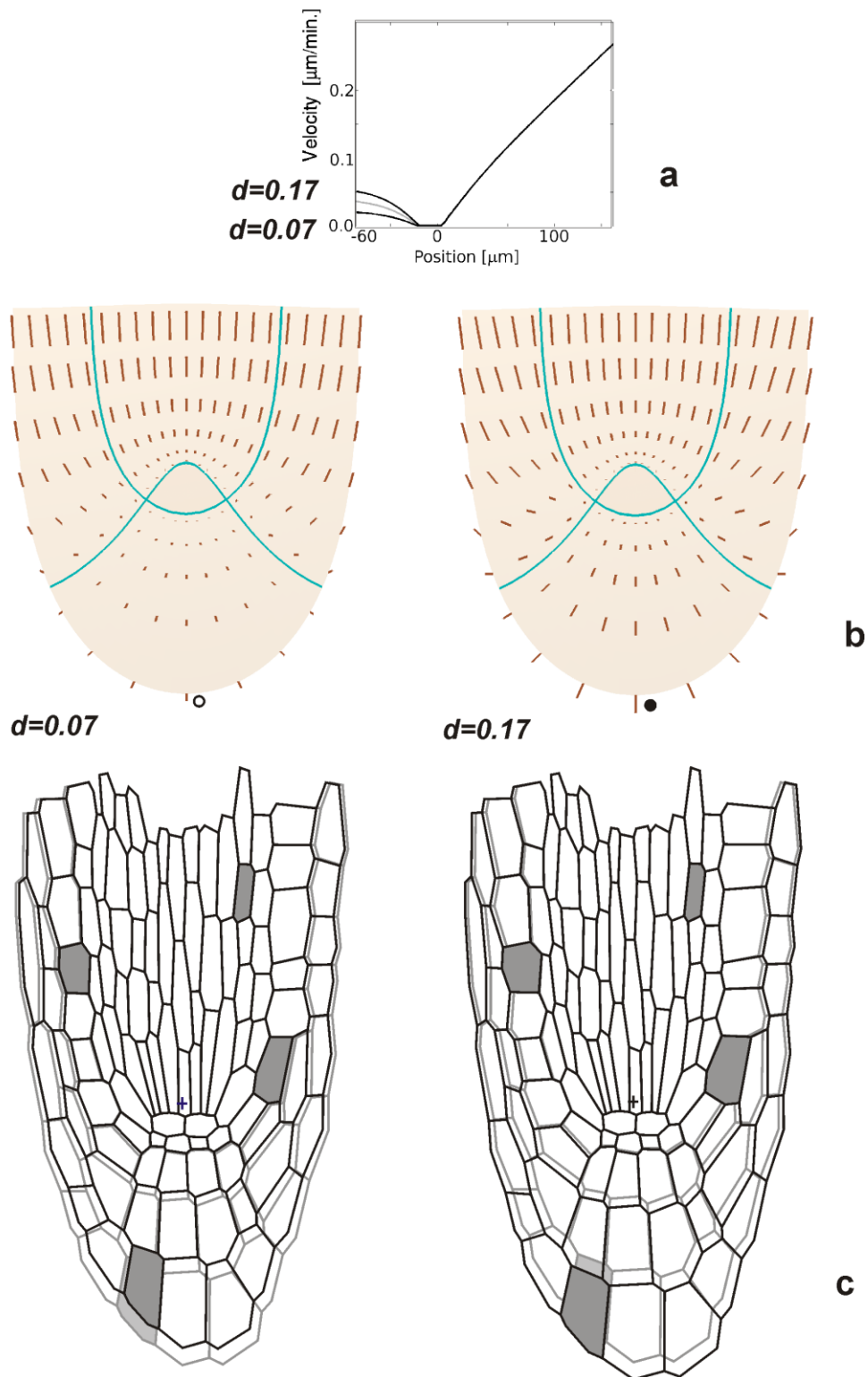


Online Resource S2: Velocity field for the profile changed in part below QC



a Two velocity profiles for the root axis below QC defined by different values of the parameter d , in both the velocity above this zone is specified $c=0,8$; **b** V fields obtained for these profiles, values of the marked vectors in units of Fig.5a are: $0.018 \mu\text{m min}^{-1}$ (open circle) and $0.054 \mu\text{m min}^{-1}$ (closed circle); **c** the simulated cell expansion resulting from application of both fields, the results are comparable to final time-step of the sequence in Fig.6 redrawn in the background (grey).