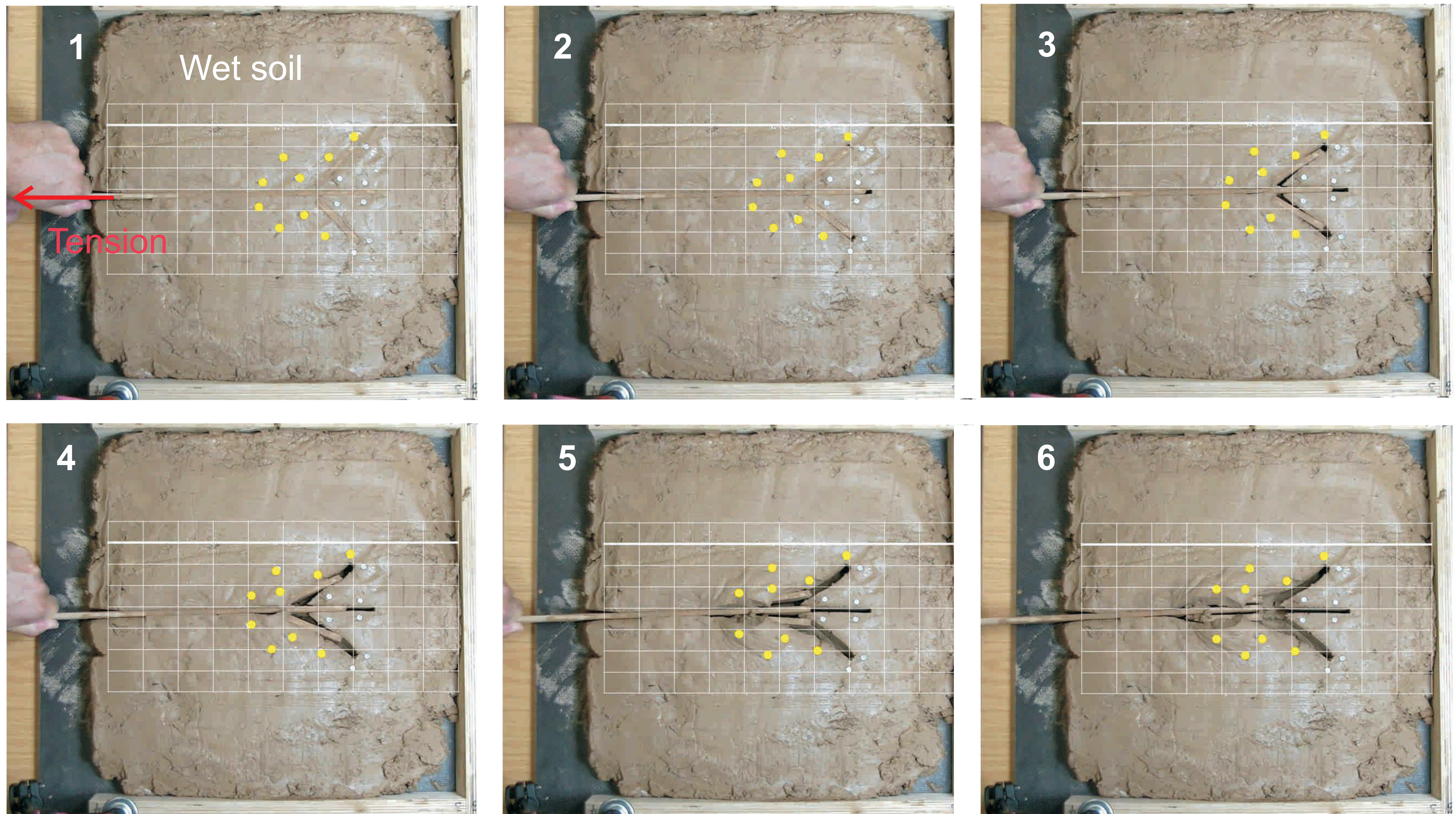
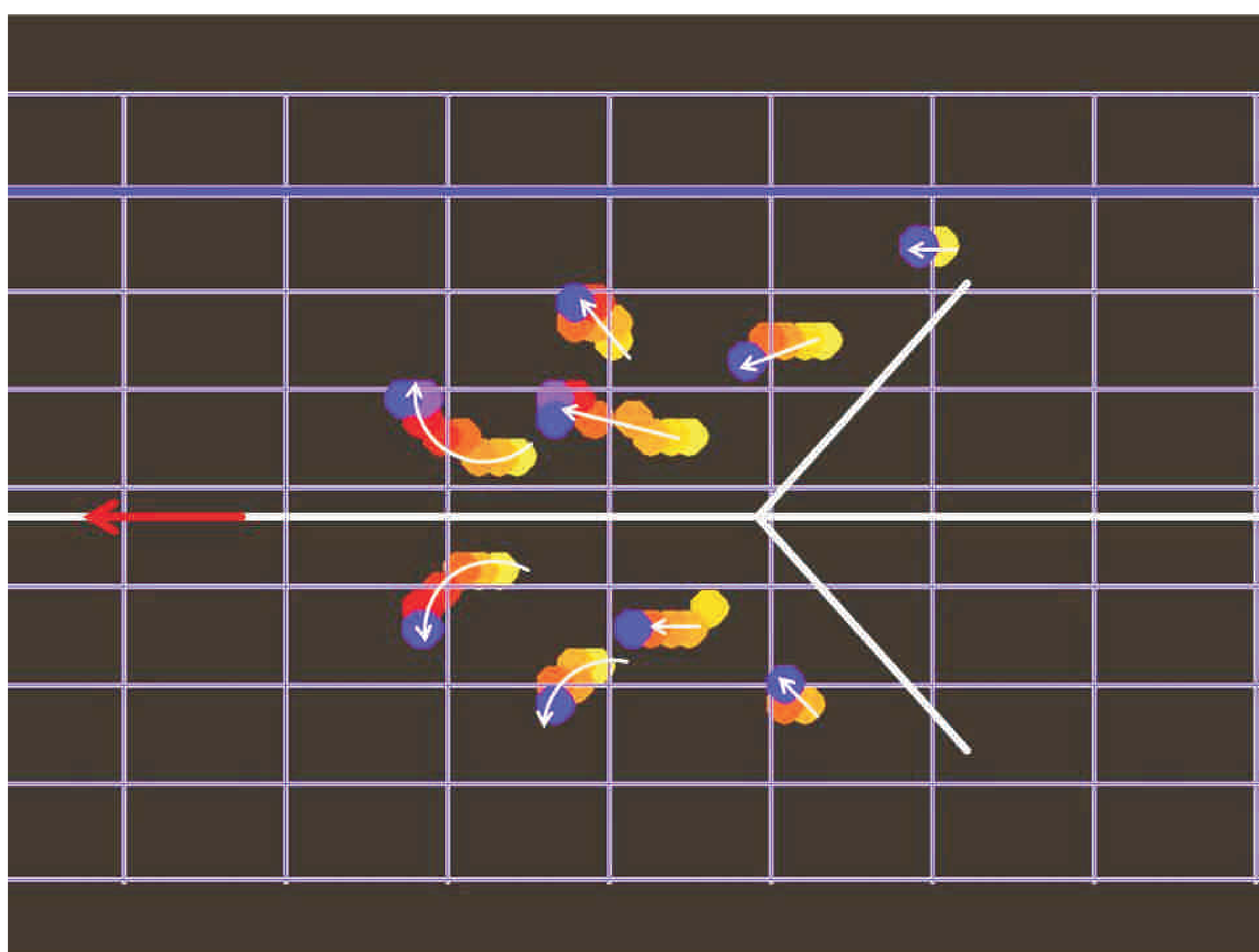


Whirl formation in pull out test on root anchor model

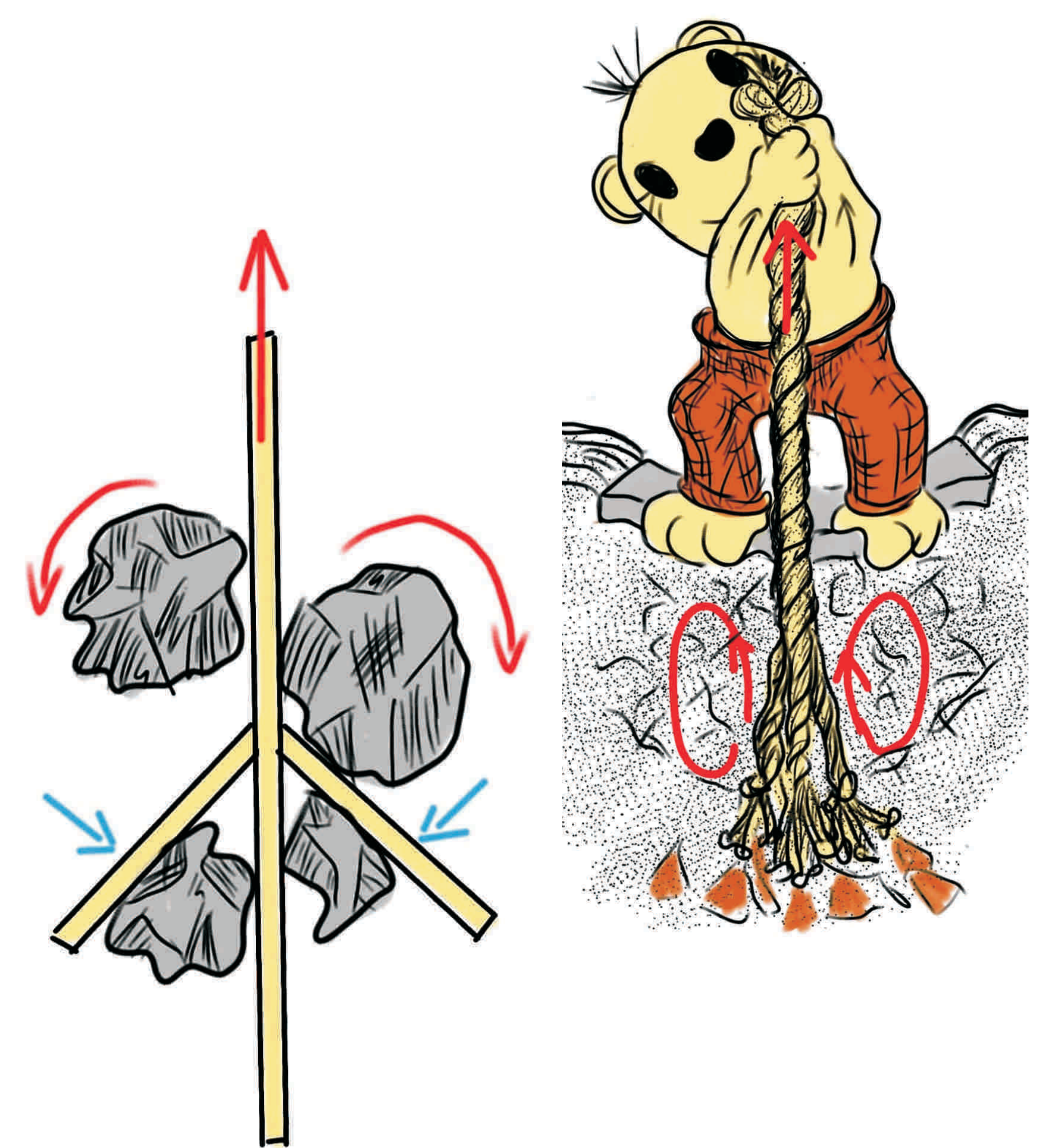
C. Mattheck, K. Bethge, K. Weber, I. Tesari



Pull out test: Root anchor model with lateral roots positioned in wet and loamy soil. Pulling the anchor model out (by tension to the left) no soil knot is formed but whirls next to the root are created while sliding out. A „whirl“ in the soil next to the root means: a partially rotating soil area.



Movement of marked soil regions when pulling out the root anchor model. Lateral roots are pushed against the primary root.



Schematic representation of the whirl formation at the root branch when being pulled out.