



Figure 3. UCB1 showed increased vacuolar sodium sequestration compared to *P. integrerrima*.

(a) UCB1 and *P. integrerrima* root tip section stained for Na⁺ showed increased number of vacuoles in UCB1 (indicated by arrowheads) after salt treatment and accumulation of Na⁺ at the exodermis and endodermis (3D construction was shown for zone 1 salt treated UCB1 to better illustrate Na⁺ vacuole localization).

(b) Diagram of root tip zones staged by xylem development. z0 = zone 0, z1 = zone 1, z2 = zone 2.

(c) Quantification of average number of vacuoles per cross section. (P<0.01 between genotype, P<0.05 between treatment, two-way ANOVA; * P=0.05 Tukey's HSD.) (d) Quantification of average number of Na⁺ vacuoles staged by xylem development showed the highest vacuole count in zone 1 (NS, two-way ANOVA, N=15-51 sections/zone/genotype from 3-5 plants). Error bars = SEM.