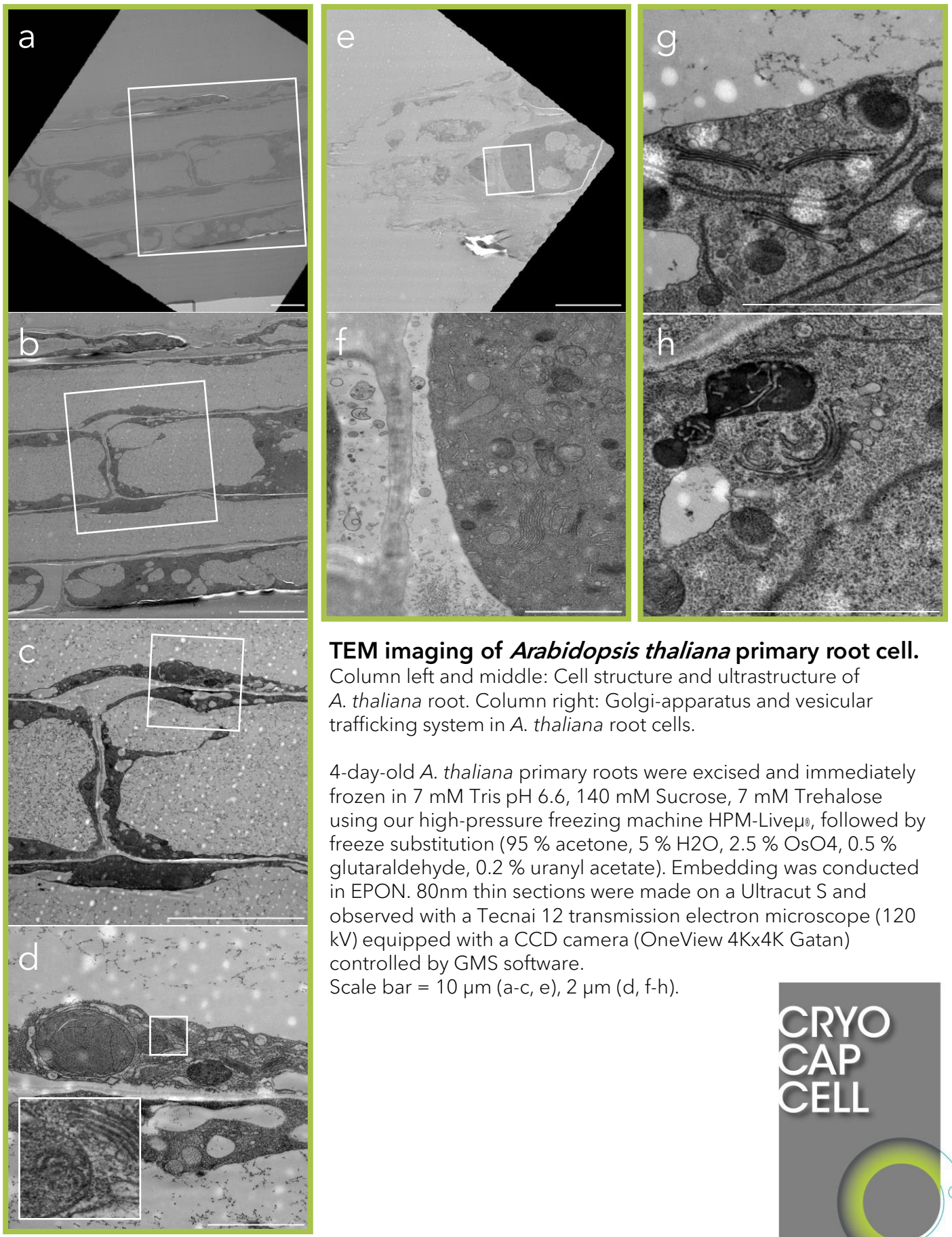
HPF: Liveμ® -*Arabidopsis thaliana*



TEM imaging of *Arabidopsis thaliana* primary root cell.
Column left and middle: Cell structure and ultrastructure of *A. thaliana* root. Column right: Golgi-apparatus and vesicular trafficking system in *A. thaliana* root cells.

4-day-old *A. thaliana* primary roots were excised and immediately frozen in 7 mM Tris pH 6.6, 140 mM Sucrose, 7 mM Trehalose using our high-pressure freezing machine HPM-Liveμ®, followed by freeze substitution (95 % acetone, 5 % H2O, 2.5 % OsO4, 0.5 % glutaraldehyde, 0.2 % uranyl acetate). Embedding was conducted in EPON. 80nm thin sections were made on a Ultracut S and observed with a Tecnai 12 transmission electron microscope (120 kV) equipped with a CCD camera (OneView 4Kx4K Gatan) controlled by GMS software.
Scale bar = 10 µm (a-c, e), 2 µm (d, f-h).

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