

Supplemental Figure 4. Ca²⁺ release and corresponding increase in G-CaMP3 fluorescence, in Arabidopsis primary roots was followed for 180 s post PEG (20%) treatment. Root schematics depict treatment application, orientation (Polyethylene glycol; PEG) and linear sections (refer to colour key). (a) Line graph depicting average fluorescence intensity (ADU; analogue digital units) of Ca²⁺ across five linear sections (Tip, ME1, ME2, ED1 & ED2) upon targeted exposure of PEG treatment through inlets A & B at the DZ (n = 5). Standard deviation included. (b) Line graph depicting mean fluorescence intensity (ADU; analogue digital units) of Ca²⁺ across five linear sections upon targeted exposure of PEG treatment through inlets A & B at the DZ (n=5). (d) Line graph depicting average fluorescence intensity of Ca^{2+} across five linear sections following PEG treatment through inlets C & D at the tip (n = 5). Standard deviation included. (e) Line graph depicting mean fluorescence intensity of Ca²⁺ across five linear sections following PEG treatment through inlets C & D at the tip (n=5). (e) Line graph depicting average fluorescence intensity of Ca^{2+} across 5 linear sections following PEG treatment through inlet B and control treatment through inlet A at the DZ (n=5). Standard deviation included. (f) Line graph depicting mean fluorescence intensity of Ca²⁺ across five linear sections following PEG treatment through inlet B and control treatment through inlet A at the DZ (n=5). (g) Line graph depicting average fluorescence intensity of Ca²⁺ across five linear sections upon PEG treatment through inlet D and control through inlet C at the tip (n=5). Standard deviation included. (h) Line graph depicting mean fluorescence intensity of Ca^{2+} across five linear sections upon PEG treatment through inlet D and control through inlet C at the tip (n=5).