

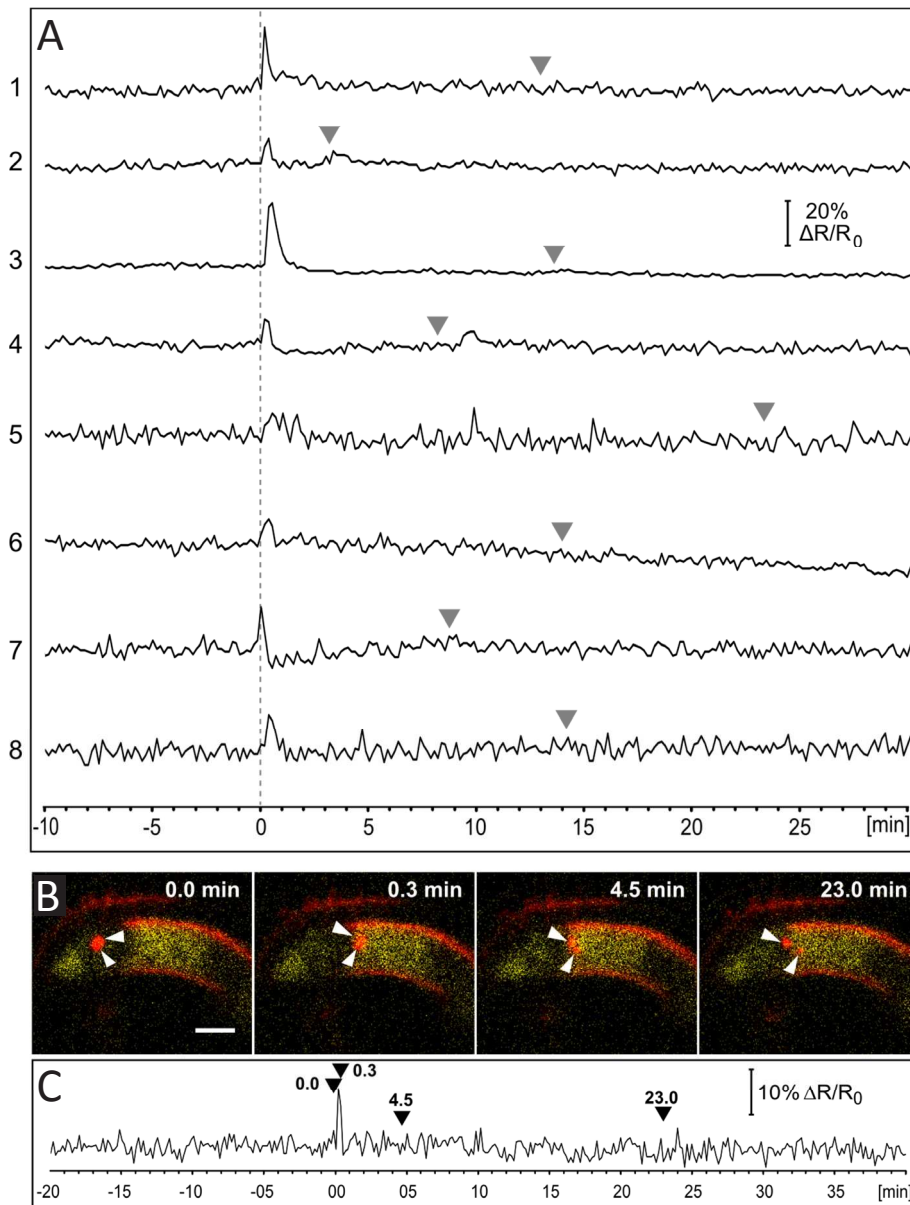


Figure S5.3 | $\text{Ca}^{2+}_{\text{cyto}}$ elevations in central cells.

(A) $\text{Ca}^{2+}_{\text{cyto}}$ responses of central cells during sperm cell delivery and successful gamete fusion. Normalized ratio change of CerTN-L15 in central cells during pollen tube burst and the following gamete fusion events. Graphs are aligned to the frame of pollen tube burst (dotted line, time point 0 min). Arrowheads indicate the initiation of sperm nucleus movement into the central cell. See **Supplemental Movies 5.3**, which corresponds to graph 2. **(B)** Fertilization event with unsuccessful sperm–central cell fusion. Time series of sperm cell nuclei (red, arrowheads) arriving at the gamete fusion sites. Sperm nuclei separate, but one sperm cell stayed at the arrested position and failed to fuse with the central cell (yellow, YFP signal of pDD65::CerTN-L15). Scale bar = 20 μm . **(C)** Normalized ratio change of CerTN-L15 in the central cell shown in (B). Arrowheads mark time points shown in (B). 0 min marks the time of pollen tube burst.