

Supplemental Movie Legends Chapter 6

Supplemental Movie 6.1

Merged bright field and fluorescence images of 28 serial optical sections generated by confocal laser scanning microscopy (CLSM). EC1-GFP (green signal) is secreted by the egg cell (ec) when the two sperm cells (sc1 & sc2; red fluorescent nuclei) arrive at the site of gamete interactions. Each frame of this scan represents one optical section of 0.48 μm , the z-stack size is 13.44 μm . Two individual optical sections of this scan are shown in **Figure 6.2 F** and in the inset of **Figure 6.2 F**. The scan was performed 7.5 hours after hand-pollinating pistils transgenic for *EC1.1p:EC1-GFP* with the marker line HTR10-mRFP1. The positions of the central cell (cc), the egg cell (ec) and the degenerating synergid (dsyn) are indicated. The same scan is shown in movie S2, as overlay of red and green signals only.

Supplemental Movie 6.2

Overlay of red and green fluorescent images of the same CLSM scan shown in movie S1. Secretion of EC1-GFP (green signal) can be observed when the two sperm cells (sc1 & sc2; red fluorescent nuclei) arrive at the site of gamete interactions. Each frame of this scan represents one optical section of 0.48 μm , the z-stack size is 13.44 μm . Two individual optical sections of this scan are shown in **Figure 6.2 G** and in the inset of **Figure 6.2 G**. The scan was performed 7.5 hours after hand-pollinating pistils transgenic for *EC1.1p:EC1-GFP* with the marker line HTR10-mRFP1. The positions of the central cell (cc), the egg cell (ec) and the degenerating synergid (dsyn) are indicated. The same scan is shown in movie S1 as merged bright field and fluorescence images.