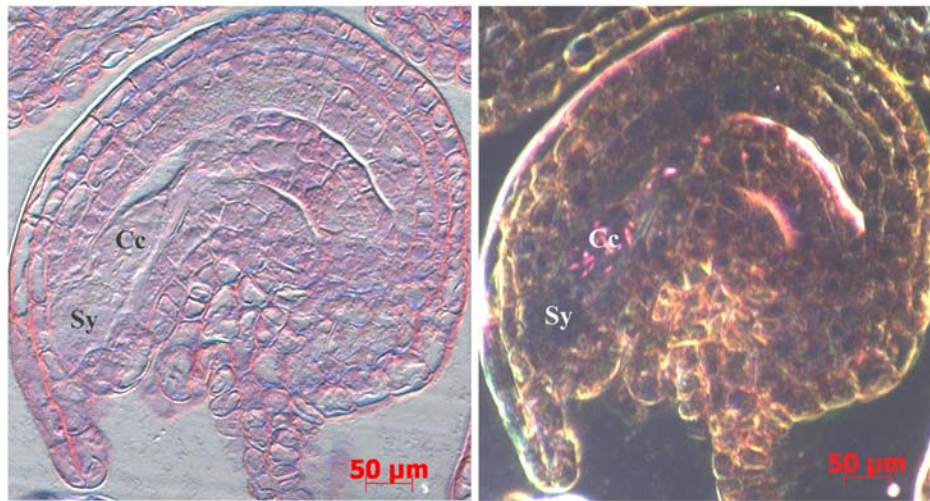
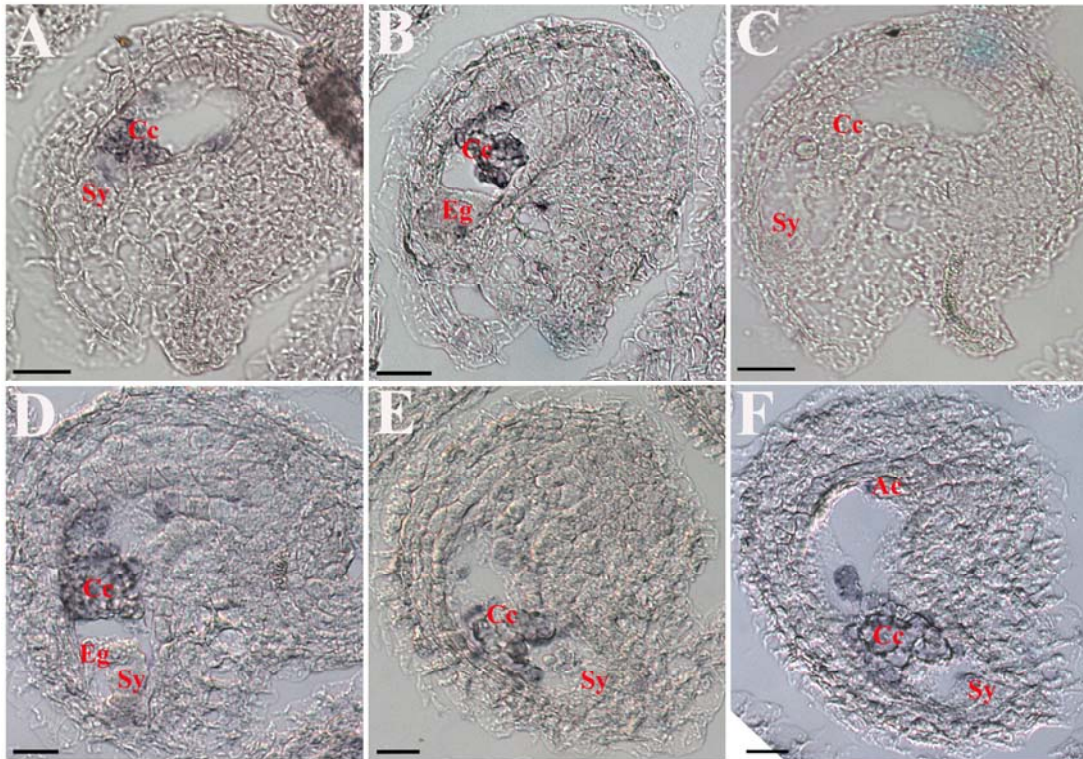


Supplemental Data. Chen et al. (2007). The central cell plays a critical role for pollen tube guidance in *Arabidopsis*.



**Supplemental Figure 1. *GUS* reporter expression in central cell of the female gametophyte.**

(A) A Nomarski micrograph of 5μm thick section of a GUS stained ovule from *P<sub>CCG</sub>:GUS:3'T* transgenic plants showing the ovule structure; (B) The same section as in (A) viewed under dark field showing GUS signals (pink crystal) in central cell (Cc). No signal was detected in synergid cell (Sy). Bar=50μm.



**Supplemental Figure 2. *CCG* expression in ovules revealed by RNA in situ hybridization.**

(A) A Nomarski micrograph showing positive hybridization signal (dark brown color) in central cell (Cc), no signal was found in synergid (Sy); (B) A Nomarski micrograph from the same ovule as in (A) showing hybridization signal in central cell (Cc), no signal in egg cell (Eg); (C) A Nomarski micrograph of a control section hybridized with *CCG* sense probe showing no hybridization signal in central cell (Cc) and synergid (Sy); (D) A micrograph showing *CCG* expression in central cell (Cc) and synergid (Sy); (E) A micrograph showing *CCG* expression in central cell (Cc), no signal in egg (Eg) and synergid (Sy); (E)-(F) Micrographs showing *CCG* expression in central cell (Cc), no signal in synergid (Sy), egg (Eg), or antipodal cell (Ac). Bar=20m in (A-C) and (E-F), bar=50 $\mu$ m in (D).

**Supplemental Table 1. Summary of complementation data.**

<i>ccg/CCG</i> self		1.1:1	57%
Transgenic line	Line No.	Kan <sup>R</sup> to Kan <sup>S</sup> ratio of T2 seedlings	Seed set ratio (%) of T1 plant
<i>P<sub>CCG</sub>:CCG:3'T</i> Transgenic T1 lines	1	2.04 ( n=377 )	82.3 ( n=955 )
	2	1.93 ( n=269 )	79.4 ( n=1021 )
	3	2.02 ( n=311 )	80.1 ( n=1134 )
	4	1.88 ( n=354 )	76.8 ( n=873 )
	5	1.73 ( n=452 )	74.5 ( n=1073 )
<i>35S:CCG-GFP</i> transgenic T1 lines	1	1.81 ( n=613 )	74.5 ( n=1125 )
	2	1.72 ( n=549 )	73 ( n=1276 )
	3	1.94 ( n=397 )	77.4 ( n=1018 )
<i>P<sub>FIS2</sub>:CCG:3T</i> complementation T1 lines	1	1.7 ( n=381 )	74 ( n=764 )
	2	1.9 ( n=331 )	77 ( n=691 )
	3	1.66 ( n=420 )	73 ( n=821 )