RNAi treatment of wild-type hermaphrodites	% Fertility (n)
Control RNAi*	100% (20)
acy-1(RNAi)	100% (26) [†]
acy-2(RNAi)	100% (20) [†]
acy-3(RNAi)	100% (32) [†]
gsa-1(RNAi)‡	0% (20)

Table S1. RNAi of acy-1, acy-2 or acy-3 does not block fertility

Control RNAi was L4440. RNAi was used for acy-1 and acy-2 because deletion mutations are lethal.

[†]No apparent defects in meiotic maturation or ovulation were observed by DIC microscopy. The identity of the clones was verified by DNA sequencing.

In our prior analysis, we concluded that it was unclear which of the four acy genes participates in the regulation of meiotic maturation (Govindan et al., 2006). We noted, however, that some acy-1(ce2gf) gain-of-function (gf) females exhibited slightly de-repressed meiotic maturation rates and thus incorporated an involvement of acy-1 in our model (Govindan et al., 2006). The finding that acy-4 is required for oocyte meiotic maturation and fertility is sufficient to explain the requirement for gsa-1. We cannot eliminate the possibility that acy-1, acy-2 or acy-3 might augment the essential function of gsa-1 and acy-4. A weak involvement of acy-1, acy-2 or acy-3 might explain the weak suppression of acy-4(lf) infertility by phosphodiesterase inhibitors (see Fig. S2 in the supplementary material)