

**Table S5 *pde-6* negatively regulates oocyte meiotic progression**

A. *pde-6(tn1237)* is epistatic to *gsa-1(pk75)* for oocyte meiotic maturation

Genotype	Fertile gonad arms/Total
<i>gsa-1(pk75)</i>	0/9
<i>gsa-1(pk75); pde-6(tn1237)</i>	5/6

Genetic mosaics in which the sheath/spermathecal lineages were mutant for *gsa-1* were sought using *tnEx31[gsa-1(+)] sur-5::gfp* for mosaic analysis (Govindan et al., 2009).

B. *pde-6(tn1237)* extends AIR-2::GFP to oocyte chromatin in a hermaphrodite background

Genotype	Chromatin localization of AIR-2::GFP				
	Oocyte position in the gonad arm				
	-1	-2	-3	-4	-5
Wild type (n=72)	95.8%	32%	1.4%	0%	0%
<i>pde-6(tn1237)</i> (n=35)	100%	97.1%	70.6%	10.3%	0%

Strains were homozygous for *itIs14*, which expresses AIR-2::GFP in the germ line. MSP and  $G\alpha_s$ -ACY-4 signaling promotes the localization of AIR-2::GFP to oocyte chromatin (Govindan et al., 2009). The control data were published (Govindan et al., 2009), and the *pde-6* data were from a contemporaneous experiment.