Table S1. Percentage of monoallelic, biallelic and nonscorable nuclei measured by RNA FISH

Gene	Stage	n*	Percent biallelism (nuclei per embryo; mean ± s.d.)	Percent monoallelism (nuclei per embryo; mean ± s.d.)	Percent nonscorable (nuclei per embryo; mean ± s.d.)	<i>P</i> -value [†] (difference in observed nonscorable)	P-value [†] (difference between early and mid-stage ICMs)
Ube1x	Early	14	23 ± 13	65 ± 19	12 ± 20		
	Mid	7	47 ± 10	39 ± 11	11 ± 14	0.97	8.735×10 ⁻⁶
Mecp2	Early	15	18 ± 15	60 ± 14	22 ± 18		
	Mid	20	44 ± 13	37 ± 18	18 ± 20	0.94	1.563×10 ⁻¹⁰
Abcb7	Early	9	14 ± 12	75 ± 8	10 ± 7		
	Mid	7	54 ± 12	37 ± 11	9 ± 11	0.66	9.587×10 ⁻¹⁰
Rnf12	Early	8	7 ± 8	75 ± 23	16 ± 22		
	Mid	20	36 ± 23	55 ± 27	9 ± 15	0.44	1.825×10 ⁻⁷
Atp7a	Early	7	8 ± 5	76 ± 13	16 ± 16		
	Mid	10	36 ± 13	44 ± 15	20 ± 16	0.78	2.235×10 ⁻⁷

^{*}The number of female ICMs.

The values were calculated using a binomial exact test. The null hypothesis is that for each X-linked gene analyzed, the number of nonscorable nuclei is the same between early and mid-stage ICMs. We reject the null hypothesis when P<0.01. In all cases examined, failure to reject the null hypothesis indicates that the number of nonscorable nuclei is not statistically different between early and mid-stage ICMs.

Fisher's exact test was used to calculate *P* values. The null hypothesis is that the average percentage of biallelic and monoallelic nuclei is the same between early and mid-stage ICMs. We reject the null hypothesis if *P*<0.01 indicating in all cases there is a statistically significant difference between average percentage of biallelic and monoallelic nuclei between early and mid-stage ICMs.