

Figure S1. Effect of PXL on different stages of mouse oocytes *in vitro*. (A) The GVBD rate and maturation rate of GV oocytes exposed to PXL for 5 min (n=30-40/group, repeated 3 times). (B) The maturation rate and percentage of normal spindles and aligned chromosomes of MI oocytes exposed to PXL for 5 min (n=30-40/group, repeated 3 times). (C) The fertilization rate and percentage of normal spindles and aligned chromosomes of MII oocytes exposed to PXL for 5 min (n=30-40/group, repeated 3 times). Data are expressed as the mean  $\pm$  SEM. Statistical analysis was performed by one-way ANOVA followed by LSD post hoc test. \*P<0.05, \*\*P<0.005 vs. the control (vehicle). PXL, paclitaxel; GVBD, germinal vesicle breakdown; GV, germinal vesicle.

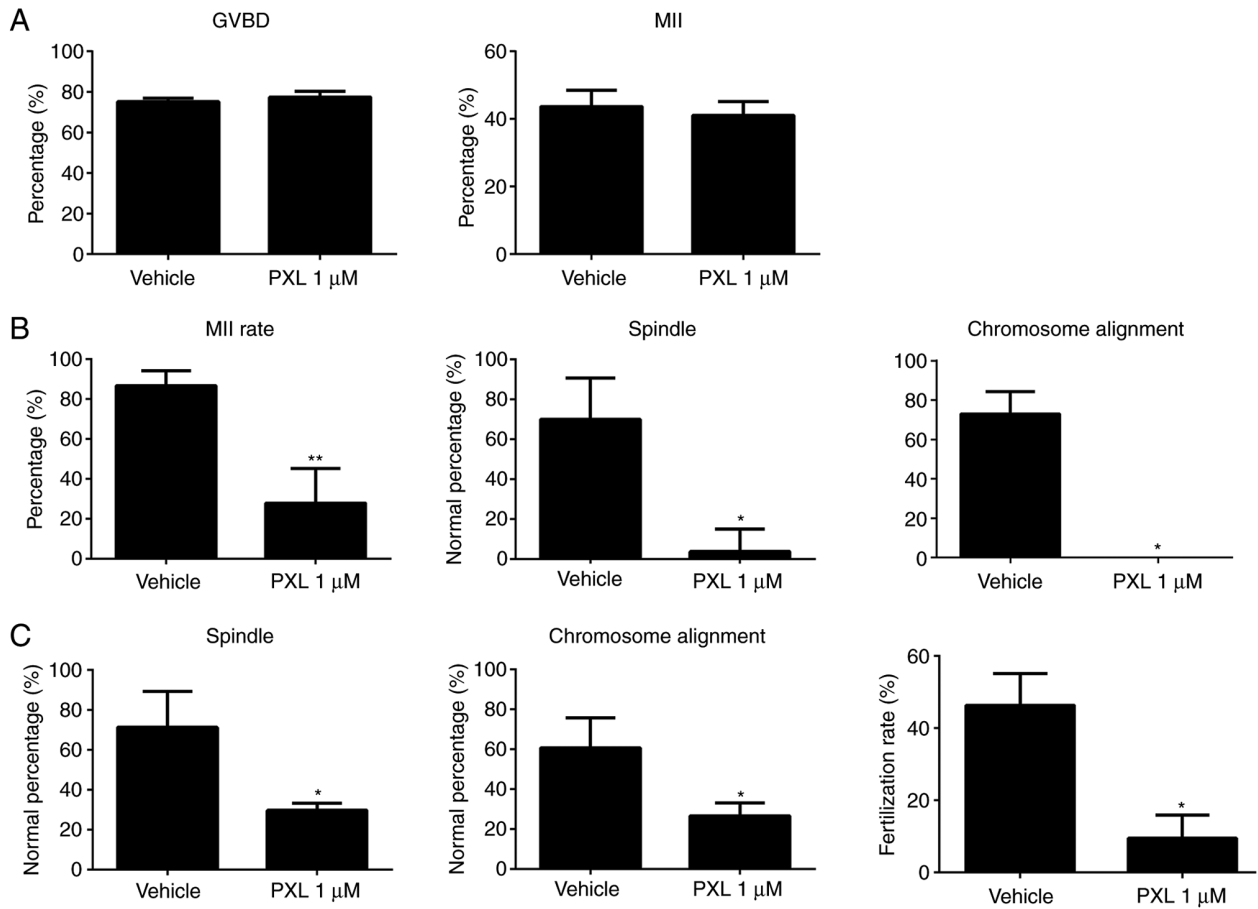


Table SI. Fertilization rate in four groups after one estrous cycle following chemotherapy.

Days	Fertilization rate (%)			
	Vehicle	PXL	GnRHa	PXL+GnRHa
D1	75.51	27.27 <sup>a</sup>	79.49	64.29
D6	73.87	76.92	83.11	73.73
D11	89.92	87.41	91.46	83.47
D16	62.24	78.95	75.97	71.60

Fertilization rate of the 4 groups at each time-point. <sup>a</sup>Represents statistically significant differences compared to the control group. Statistical analyses were performed using chi-square tests.

Table SII. Karyotypes of pups conceived during the 1st estrous cycle after chemotherapy.

Pup ID	Sex	Karyotype
V05C-2	Male	40
V05C-5	Male	40
V05C-9	Female	40
V09E-1	Male	40
V09E-5	Female	40
V09E-6	Female	40
V13C-1	Female	40
V13C-2	Male	40
V13C-4	Female	40
V17A-4	Female	40
V17A-9	Male	40
V17A-13	Male	40
P07E-3	Male	40
P07E-6	Male	40
P07E-11	Female	40
P15A-2	Male	40
P15A-3	Female	40
P15A-7	Female	40
G02B-2	Female	40
G02B-7	Female	40
G02B-9	Male	40
G02C-5	Male	40
G02C-6	Female	40
G02C-10	Male	40
G06E-1	Female	40
G06E-3	Female	40
G06E-5	Female	40
GT04A-4	Female	40
GT04A-6	Male	40
GT04A-10	Female	40
GT08D-2	Male	40
GT08D-7	Male	40
GT08D-11	Female	40

Table SIII. Karyotypes of pups conceived during the 2nd estrous cycle after chemotherapy.

Pup ID	Sex	Karyotype
V01C-5	Male	40
V01C-8	Female	40
V01C-13	Male	40
V01E-2	Male	40
V01E-5	Female	40
V01E-6	Male	40
V09A-4	Female	40
V09A-8	Female	40
V09A-14	Male	40
V13E-1	Male	40
V13E-3	Male	40
V13E-8	Female	40
P06D-4	Female	40
P06D-8	Female	40
P06D-10	Male	40
P14E-1	Female	40
P14E-6	Female	40
P14E-9	Female	40
P18D-3	Male	40
P18D-4	Male	40
P18D-7	Female	40
G03A-3	Female	40
G03A-11	Male	40
G03A-14	Female	40
G11E-5	Male	40
G11E-9	Female	40
G11E-13	Female	40
G15C-1	Female	40
G15C-2	Male	40
G15C-6	Male	40
G19A-2	Female	40
G19A-7	Male	40
G19A-10	Male	40
GT08E-2	Female	40
GT08E-5	Female	40
GT08E-7	Male	40
GT20D-1	Female	40
GT20D-7	Female	40
GT20D-11	Male	40

Table SIV. Karyotypes of pups conceived during the 3rd estrous cycle after chemotherapy.

Pup ID	Sex	Karyotype
V09B-5	Female	40
V09B-6	Female	40
V09B-10	Male	40
V09C-2	Female	40
V09C-7	Female	40
V09C-12	Male	40
V13A-2	Female	40
V13A-5	Male	40
V13A-10	Female	40
V17B-1	Female	40
V17B-4	Male	40
V17B-8	Male	40
V17C-6	Female	40
V17C-10	Female	40
V17C-12	Male	40
T06B- 1	Female	40
T06B-4	Male	40
T06B-7	Male	40
T18B-7	Female	40
T18B-9	Female	40
T18B-15	Female	40
T18C-2	Male	40
T18C-4	Male	40
T18C-10	Female	40
G07D-3	Male	40
G07D-5	Female	40
G07D-9	Male	40
G15B-1	Female	40
G15B-6	Female	40
G15B-11	Female	40
G19D-4	Male	40
G19D-9	Female	40
G19D-10	Male	40
GT08A-6	Male	40
GT08A-11	Male	40
GT08A-14	Female	40
GT12B-3	Female	40
GT12B-9	Male	40
GT12B-11	Male	40
GT20E-4	Female	40
GT20E-7	Female	40
GT20E-11	Male	40

Table SV. Karyotypes of pups conceived during the 4th estrous cycle after chemotherapy.

Pup ID	Sex	Karyotype
V01B-1	Male	40
V01B-5	Male	40
V01B-8	Female	40
V01D-5	Male	40
V01D-8	Male	40
V01D-10	Female	40
V05E-1	Male	40
V05E-2	Female	40
V05E-5	Female	40
V13B-2	Female	40
V13B-4	Male	40
V13B-6	Male	40
V13D-1	Male	40
V13D-2	Male	40
V13D-7	Female	40
P06A-3	Female	40
P06A-4	Female	40
P06A-11	Male	40
P14A-2	Male	40
P14A-5	Male	40
P14A-7	Female	40
G03E-1	Female	40
G03E-7	Female	40
G03E-13	Male	40
G07A-2	Female	40
G07A-3	Female	40
G07A-4	Female	40
G11A-4	Male	40
G11A-6	Male	40
G11A-7	Female	40
G11B-2	Male	40
G11B-5	Female	40
G11B-10	Female	40
G15D-4	Male	40
G15D-9	Female	40
G15D-13	Male	40
GT04D-4	Male	40
GT04D-8	Male	40
GT04D-10	Female	40
GT12E-2	Male	40
GT12E-9	Male	40
GT12E-11	Female	40