

**Supplement 1.** Addition of recombinant mouse IL-6 to mouse embryo culture

	IL-6 concentration (ng/mL)					
	0	0.01	0.1	1	10	100
Number	72	73	73	73	72	70
Day 3						
3–8 cell (%)	15	27	16	19	8	20
Compacting/morula (%)	82	71	82	80	90	77
Day 4						
Compacting/morula (%)	3	1	4	3	3	3
Early blastocyst (%)	14	8	0 <sup>a)</sup>	6	1 <sup>b)</sup>	6
Blastocyst (%)	19	16	18	18	21	23
Expanded blastocyst (%)	31	30	34	32	21	30
Hatching blastocyst (%)	31	44	40	41	54 <sup>a)</sup>	36
Degenerated (%)	4	0	4	1	0	4
Day 5						
Early blastocyst (%)	1	1	0	0	0	0
Blastocyst (%)	1	1	1	0	0	1
Expanded blastocyst (%)	14	4	4	8	7	7
Hatching blastocyst (%)	74	90 <sup>b)</sup>	88 <sup>c)</sup>	86	92 <sup>a)</sup>	84
Fully hatched (%)	4	3	3	4	1	0

IL-6, interleukin-6.

<sup>a-c)</sup>Indicate a significant difference from the control (0 ng/mL of IL-6), <sup>a)</sup> $p < 0.01$ ; <sup>b)</sup> $p < 0.05$ ; <sup>c)</sup> $p = 0.053$ .