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Supplemental Information

**A Surveillance Mechanism Ensures Repair
of DNA Lesions during Zygotic Reprogramming**

Sabrina Ladstätter and Kikuë Tachibana-Konwalski

Supplemental Table S1, Related to Figure 2, Figure S3

Numbers of mature oocytes isolated from *Scc1^{f/f}* and *Scc1^{f/f} (Tg)Zp3-Cre (Scc1^{A/A})* female mice. Mature oocytes are defined by appearance (size, central nucleus, smooth zona pellucida) and timely extrusion of the 1st polar body around 10 h post-release from phosphodiesterase inhibitor IBMX.

	<i>Scc1^{f/f}</i>			<i>Scc1^{A/A}</i>		
	Number of oocytes	Number of females	Oocytes per female	Number of oocytes	Number of females	Oocytes per female
Experiment 1	24	3	8	23	3	8
Experiment 2	31	4	8	45	5	9
Experiment 3	21	4	5	26	3	9
Experiment 4	21	2	11	47	6	8
Experiment 5	17	2	9	41	5	8
Experiment 6	37	3	12	56	6	9
Experiment 7	24	3	8	29	3	10
Experiment 8	33	3	11	43	4	11
Total	208	24	9 ± 2	310	35	9 ± 1

Supplemental Table S2, Related to Figure 2

Numbers of zygotes obtained after natural mating of superovulated female mice. Zygotes are isolated 17-18 h post-superovulation and scored for formation of visible pronuclei at 20 h post-superovulation.

	<i>Sccl^{fl}</i>			<i>Sccl^A</i>		
	Number of zygotes	Number of females	Zygotes per female	Number of zygotes	Number of females	Zygotes per female
Experiment 1	48	4	12	34	3	11
Experiment 2	67	8	8	47	5	9
Experiment 3	15	2	8	44	4	11
Experiment 4	25	4	6	49	5	10
Experiment 5	45	6	8	47	6	8
Experiment 6	10	1	10	15	2	8
Experiment 7	33	5	7	37	5	7
Experiment 8	19	3	6	38	5	8
Total	262	33	8 ± 2	311	35	9 ± 2