animals

Supplementary materials

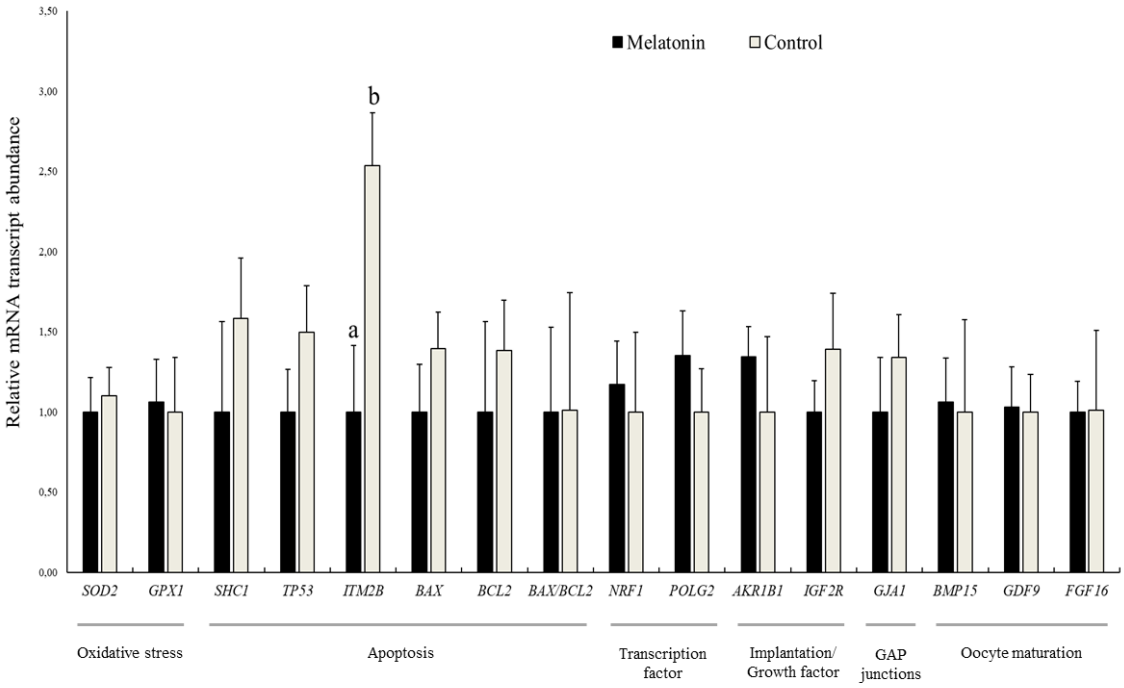

Figure S1. Relative mRNA transcript abundance in sheep oocytes collected from ovary stored with (Melatonin) and without melatonin (Control); Results are expressed as mean ± SEM; [a,b] Different letters indicate differences ($p \leq 0.05$) among treatments.

Table S1. *In vitro* maturation of sheep oocytes retrieved from ovaries stored with and without melatonin.

Nuclear configuration after IVM				
Treatment	Nº oocytes	GV (%)	GVBD/MI (%)	MII (%)
Melatonin	92	11.41 ± 6.39	4.19 ± 3.54	84.39 ± 6.69
Control	90	8.68 ± 6.39	3.12 ± 3.54	88.19 ± 6.69

Data expressed as mean ± SEM; Results represent three replicates.

Table S2. Effect of melatonin supplementation during ovary transport on rates of cleavage and blastocyst development in sheep.

Treatment	***n***	**Cleaved embryo at 48 hpi (%)**	**Expanded blastocyst (%)**	
			Total	**Cleaved**
Melatonin	195	57.66 ± 4.33	26.76 ± 2.35	46.86 ± 4.26[a]
Control	195	67.97 ± 4.51	23.13 ± 2.26	30.34 ± 4.10[b]

Data expressed as mean ± SEM; Results represent five replicates; [a,b]Different letters indicate differences ($P \leq 0.05$) among treatments

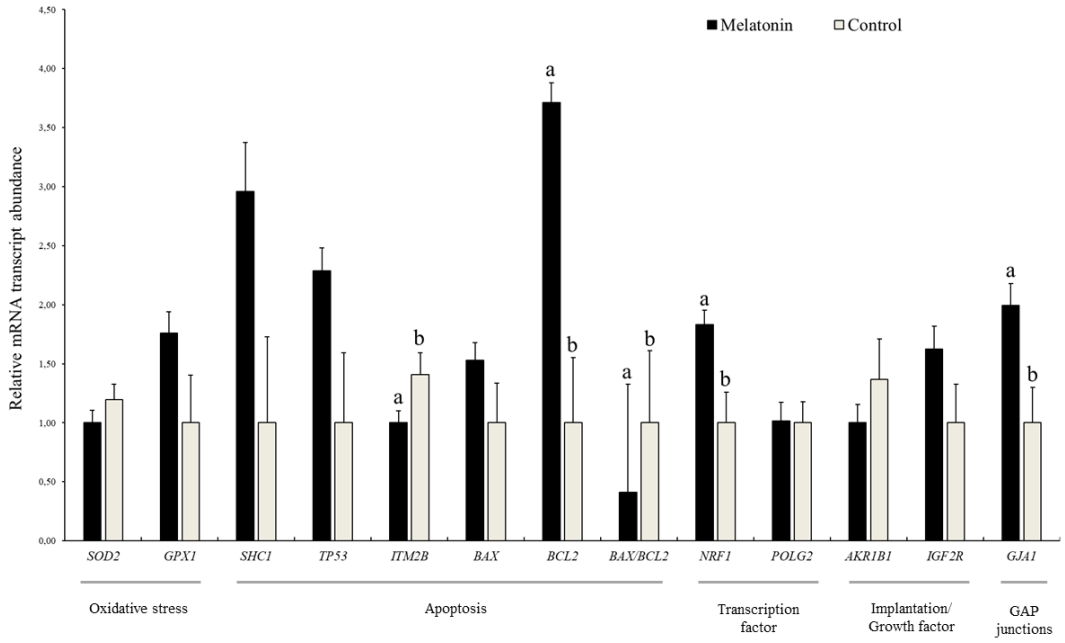

Figure S2. Relative mRNA transcript abundance in sheep blastocysts produced *in vitro* from ovary stored with (Melatonin) and without melatonin (Control); Results are expressed as mean ± SEM; [a,b] Different letters indicate differences ($p \leq 0.05$) among treatments