

Supplemental Table S4. Telomere length (average of each sample) in relation to the oxidative stress variables (corresponding to the values of the previous day of the experiment). Factors in the final model have been highlighted in **bold**. Significant factors ($p < 0.05$) have an *. Random terms are included in all models, and their values are in *italic*.

	Fixed terms					Random terms	
	Terms	Intercept	Estimate (S.E.)	F (d.f)	p	Terms	Variance
Average	AGE	8873	-4.495 (3.64)	1.527 (46.34)	0.223	<i>Chick / Nest</i>	106730
	Tocopherol		-47.2 (32.63)	2.093 (47.13)	0.155	<i>Nest</i>	189285
	MDA		44.73 (31.71)	1.99 (48.03)	0.165	<i>Gel</i>	228414
	TAC		-4.73 (16.02)	0.087 (40.39)	0.769	<i>Residual</i>	15680
Percentile 10	AGE	6116	-6.913 (2.621)	6.95 (47.54)	0.011*	<i>Chick / Nest</i>	51368
	Tocopherol		0.34 (23.49)	0.001 (48.51)	0.989	<i>Nest</i>	68063
	MDA		15.48 (22.74)	0.464 (50.08)	0.499	<i>Gel</i>	75439
	TAC		-11.97 (11.61)	1.062 (40.6)	0.309	<i>Residual</i>	8267
Percentile 20	AGE	6858	-5.547 (2.275)	5.945 (43.89)	0.019*	<i>Chick / Nest</i>	63002
	Tocopherol		-16.52 (20.43)	0.654 (44.42)	0.423	<i>Nest</i>	88696
	MDA		20.45 (19.85)	1.062 (45.24)	0.308	<i>Gel</i>	77586
	TAC		-8.38 (9.911)	0.715 (39.62)	0.403	<i>Residual</i>	5951
Percentile 30	AGE	7528	-4.738 (2.437)	3.78 (43.54)	0.058	<i>Chick / Nest</i>	75492
	Tocopherol		-30.69 (21.89)	1.97 (44.02)	0.168	<i>Nest</i>	120653
	MDA		25.29 (21.29)	1.41 (44.67)	0.241	<i>Gel</i>	94541
	TAC		-5.249 (10.6)	0.245 (39.58)	0.623	<i>Residual</i>	6797
Percentile 40	AGE	8258	-3.512 (3.031)	1.343 (44.69)	0.253	<i>Chick / Nest</i>	93376
	Tocopherol		-50.08 (27.21)	3.387 (45.28)	0.072	<i>Nest</i>	175525
	MDA		32.07 (26.48)	1.467 (45.92)	0.232	<i>Gel</i>	142318
	TAC		-3.287 (13.25)	0.062 (39.98)	0.805	<i>Residual</i>	10658
Percentile 50	AGE	9147	-2.507 (3.816)	0.432 (49.9)	0.515	<i>Chick / Nest</i>	121624
	Tocopherol		-66.45 (34.24)	3.767 (46.62)	0.058	<i>Nest</i>	255819
	MDA		45.28 (33.32)	1.846 (47.26)	0.181	<i>Gel</i>	246389
	TAC		0.316 (16.76)	0.001 (40.39)	0.985	<i>Residual</i>	17136
Percentile 60	AGE	10247	-2.012 (4.893)	0.169 (46.98)	0.683	<i>Chick / Nest</i>	177420
	Tocopherol		-77.91 (43.87)	3.153 (47.81)	0.082	<i>Nest</i>	358043
	MDA		64.16 (42.67)	2.26 (48.62)	0.139	<i>Gel</i>	443578
	TAC		6.529 (21.59)	0.092 (40.77)	0.764	<i>Residual</i>	28524
Percentile 70	AGE	11565	-0.477 (6.357)	0.006 (47.48)	0.94	<i>Chick / Nest</i>	297541
	Tocopherol		-102 (56.99)	3.194 (48.36)	0.08	<i>Nest</i>	510348
	MDA		84.96 (55.34)	2.357 (49.44)	0.131	<i>Gel</i>	737970
	TAC		18.34 (28.1)	0.426 (40.96)	0.518	<i>Residual</i>	48359
Percentile 80	AGE	13226	4.009 (8.546)	0.22 (47.04)	0.641	<i>Chick / Nest</i>	626268
	Tocopherol		-149 (76.62)	3.77 (47.89)	0.058	<i>Nest</i>	752358
	MDA		112 (74.2)	2.293 (49.38)	0.136	<i>Gel</i>	1069014
	TAC		28.56 (37.69)	0.574 (40.83)	0.453	<i>Residual</i>	86786
Percentile 90	AGE	15934	9.242 (13.17)	0.492 (46.62)	0.486	<i>Chick / Nest</i>	1864367
	Tocopherol		-217 (118)	3.382 (47.49)	0.072	<i>Nest</i>	1041406
	MDA		184 (114)	2.623 (49.99)	0.111	<i>Gel</i>	1370390
	TAC		35.72 (58.05)	0.379 (40.5)	0.542	<i>Residual</i>	205278