

## Supplementary Material

### **Post-testicular sperm maturation in the saltwater crocodile *Crocodylus porosus*: assessing the temporal acquisition of sperm motility**

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(a)

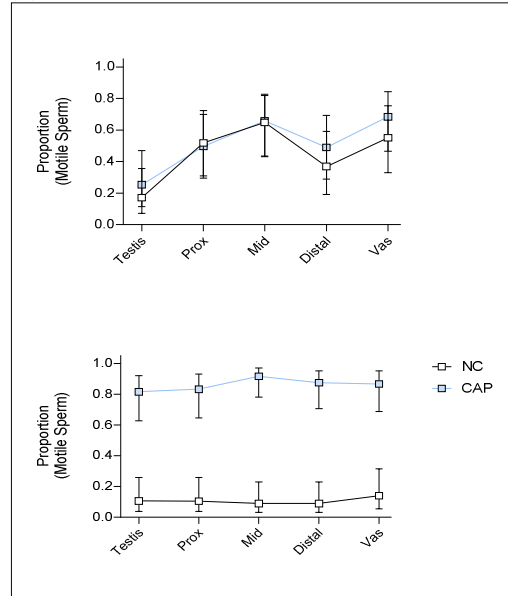
Three factorial model - Estimated marginal means for the 3-way interaction

Region\*Capacitation\*Time

LRT  $\chi^2(4) = 2.80, P = 0.59$

Time	Capacitation	Region	prob	SE	df	lower.CL	upper.CL
0	NC	Testis	0.171058	0.068944	38	0.071595	0.355752
120	NC	Testis	0.106684	0.050746	38	0.039053	0.259777
0	CAP	Testis	0.253668	0.089573	38	0.115378	0.469702
120	CAP	Testis	0.81578	0.072054	38	0.626543	0.921189
0	NC	Prox	0.518472	0.108748	38	0.308344	0.722264
120	NC	Prox	0.105762	0.05066	38	0.038452	0.259144
0	CAP	Prox	0.495722	0.106013	38	0.294085	0.69876
120	CAP	Prox	0.832537	0.068953	38	0.64623	0.931178
0	NC	Mid	0.647959	0.100595	38	0.4298	0.817997
120	NC	Mid	0.090112	0.044848	38	0.031689	0.230593
0	CAP	Mid	0.658061	0.101685	38	0.435325	0.827711
120	CAP	Mid	0.916276	0.042511	38	0.78091	0.9711
0	NC	Distal	0.368753	0.104144	38	0.191036	0.591012
120	NC	Distal	0.089854	0.044794	38	0.031546	0.230308
0	CAP	Distal	0.489477	0.106144	38	0.288642	0.693769
120	CAP	Distal	0.87444	0.057509	38	0.706913	0.952626
0	NC	Vas	0.550489	0.111476	38	0.329746	0.752991
120	NC	Vas	0.140881	0.06141	38	0.055456	0.314135
0	CAP	Vas	0.683677	0.09738	38	0.464851	0.843205
120	CAP	Vas	0.867792	0.06203	38	0.687198	0.951482

(b)



(c)

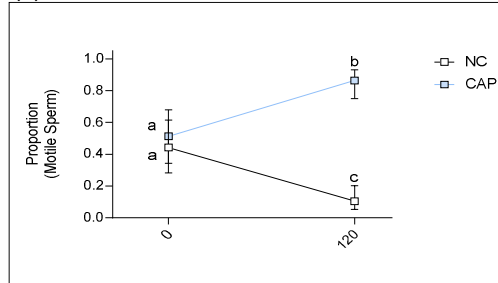
2-way interaction Capacitation\*Time

LRT  $\chi^2(1) = 65.2, P < .001$

Time	Capacitation	prob	SE	df	lower.CL	upper.CL
0	NC	0.4422895	0.085811	46	0.282495	0.614998
120	NC	0.1058019	0.035548	46	0.052616	0.201324
0	CAP	0.5124004	0.086683	46	0.343271	0.678737
120	CAP	0.8633017	0.043722	46	0.749741	0.930134

Comparisons made		odds.ratio	SE	df	t.ratio	p.value
CAP ; 0 min	NC ; 0min	1.325	0.2733	46	1.365	0.1789
NC ; 120 min	NC ; 0min	0.149	0.0374	46	-7.599	<.0001
NC ; 120 min	CAP ; 0min	0.113	0.0283	46	-8.7	<.0001
CAP ; 120 min	NC ; 0min	7.963	1.9648	46	8.41	<.0001
CAP ; 120 min	CAP ; 0min	6.01	1.4583	46	7.39	<.0001
CAP ; 120 min	NC ; 120min	53.375	15.639	46	13.574	<.0001

(d)



(e)

2-way interaction Region\*Time

LRT  $\chi^2(4) = 9.74, P = 0.04$

Time	Region	prob	SE	df	lower.CL	upper.CL
0	Testis	0.21118	0.068424	46	0.104835	0.379651
120	Testis	0.41339	0.107822	46	0.223574	0.63298
0	Prox	0.504019	0.095266	46	0.3206	0.686364
120	Prox	0.431067	0.108881	46	0.236647	0.649343
0	Mid	0.654106	0.08852	46	0.46247	0.80607
120	Mid	0.508339	0.10407	46	0.309	0.705061
0	Distal	0.430701	0.093925	46	0.259216	0.620593
120	Distal	0.455687	0.106384	46	0.260946	0.664992
0	Vas	0.619622	0.092411	46	0.425244	0.781967
120	Vas	0.510849	0.113756	46	0.294642	0.723071

Comparison	odds.ratio	SE	df	t.ratio	p.value
Testis / Prox	0.425	0.118	50	-3.087	0.0033
Testis / Mid	0.265	0.074	50	-4.751	<.0001
Testis / Distal	0.5	0.137	50	-2.538	0.0143
Prox / Mid	0.623	0.166	50	-1.778	0.0814
Prox / Distal	1.178	0.313	50	0.616	0.5408
Mid / Distal	1.89	0.499	50	2.41	0.0197
Vas / Testis	3.554	1.035	50	4.355	0.0001
Vas / Prox	1.509	0.416	50	1.491	0.1422
Vas / Mid	0.94	0.255	50	-0.228	0.8209
Vas / Distal	1.777	0.488	50	2.096	0.0412

(f)

