

1 **Title**

2 Steroid receptors and their regulation in avian extraembryonic membranes provide a novel
3 substrate for hormone-mediated maternal effects

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13 **Supplementary information**

14 **Supplementary Table 1.** The descriptive statistics of RNA quality and quantification parameters.

<i>Tissue</i>	RNA Integrity Number (RIN)			RNA concentration (ng/μl)			A260/A280		
	<i>average</i>	<i>SD</i>	<i>range</i>	<i>average</i>	<i>SD</i>	<i>range</i>	<i>average</i>	<i>SD</i>	<i>range</i>
Treatment: A4									
1	9.66	0.15	9.5 - 9.9	1219.94	241.19	918.11 - 1616.32	2.06	0.01	2.05 - 2.09
2	7.55	1.29	5.1 - 8.6	158.18	124.31	4.85 - 389.74	2.07	0.15	1.96 - 2.41
3	7.97	0.43	7.3 - 8.5	58.50	28.50	8.81 - 100.93	2.15	0.14	2.06 - 2.46
Treatment: T									
1	9.47	0.24	9.2 - 9.8	1333.72	222.72	1023.79 - 1552.74	2.07	0.01	2.06 - 2.08
2	8.93	0.42	8.1 - 9.4	148.13	93.95	11.58 - 240.25	2.09	0.17	1.93 - 2.36
3	8.49	0.32	8.0 - 8.8	109.87	32.44	69.27 - 144.51	2.06	0.03	2.04 - 2.11
Treatment: Oil									
1	9.33	0.36	8.6 - 9.7	1130.44	179.16	870.67 - 1378.13	2.06	0.01	2.05 - 2.07
2	8.03	0.72	6.9 - 9.1	143.28	20.26	112.63 - 168.92	2.02	0.02	1.99 - 2.04
3	8.80	0.45	8.1 - 9.3	75.90	39.59	7.77 - 130.71	2.08	0.07	1.99 - 2.21

15 Tissue: 1 = embryonic head, 2 = embryonic decapitated body, 3 = extraembryonic membranes

16 SD = standard deviation

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18 **Supplementary Table 2.** The Ct values for the two reference genes (HMBS and YWHAZ) which were
 19 used to normalize the AR and ER α receptor expression.

Egg Treatment	HMBS			YWHAZ		
	<i>head</i>	<i>decapitated body</i>	<i>EMs</i>	<i>head</i>	<i>decapitated body</i>	<i>EMs</i>
1	29.17	29.10	32.85	28.00	29.82	37.79
1	28.64	27.81	26.66	27.97	27.09	30.22
1	28.31	29.14	27.45	27.40	28.18	31.11
1	28.04	28.23	28.33	27.20	27.58	31.89
1	28.20	28.78	27.11	27.28	27.50	30.10
1	28.40	28.30	27.13	27.73	26.53	29.99
1	28.46	NA	26.99	27.88	NA	29.72
2	28.39	28.46	26.15	27.07	27.60	28.74
2	27.97	27.69	26.96	27.52	26.72	29.27
2	28.56	27.50	28.14	26.98	26.13	30.03
2	27.54	27.61	27.46	27.03	27.60	30.90
2	28.18	28.21	27.76	27.17	27.05	30.19
2	28.84	NA	28.47	28.26	NA	30.06
2	28.32	NA	27.90	27.36	NA	30.47
3	28.83	27.39	26.94	27.37	26.45	28.06
3	28.46	28.74	27.62	27.57	27.43	29.53
3	28.79	28.19	26.93	27.58	27.51	29.42
3	27.99	28.04	27.71	27.00	27.65	30.89
3	29.10	29.45	27.65	27.60	28.69	31.47
3	28.43	28.28	27.52	27.09	27.48	30.64
3	NA	28.06	NA		27.39	NA

Treatment: 1 = A4, 2 = T, 3 = Oil

NA = data not available