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# Social networks differ depending on aggressive and affiliative interactions of captive ring-tailed lemurs (*Lemur catta*)

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## Appendix

**Table A1:** Total observed and expected counts of aggressive and submissive behaviours emitted during feeding sessions by each dominance rank in addition to their contribution to chi-squared. Observed counts that were significantly different from the expected count are coloured red.

Rank		Move Away	Cower	Submit Food	Displace	Lunge	Chase	Cuff	Take Food	Bite	Fight
<b>High</b>	Observed	110	9	5	184	102	140	192	47	5	7
	Expected	337.2	37.9	22.3	112.8	60.8	82.1	113.9	26.8	3.4	3.9
	Contribution to Chi-square	<b>153.1</b>	<b>22.1</b>	<b>13.5</b>	<b>45.1</b>	<b>27.8</b>	<b>40.9</b>	<b>53.6</b>	<b>15.2</b>	0.8	2.5
<b>Medium</b>	Observed	197	23	8	13	9	4	9	1	1	0
	Expected	110.3	12.4	7.3	36.9	19.9	26.8	37.3	8.8	1.1	1.3
	Contribution to Chi-square	<b>68.2</b>	9.1	0.1	<b>15.5</b>	9.7	<b>19.4</b>	<b>21.4</b>	6.9	0.01	1.3
<b>Low</b>	Observed	297	36	27	5	1	3	3	0	0	0
	Expected	156.6	17.6	10.4	52.4	28.3	38.1	52.9	12.4	1.6	1.8
	Contribution to Chi-square	<b>125.9</b>	<b>19.2</b>	<b>26.7</b>	<b>42.8</b>	<b>26.3</b>	<b>32.3</b>	<b>47.1</b>	<b>12.4</b>	1.6	1.8

Critical chi-squared value = 10.83

**Table A2:** Total observed and expected counts of aggressive and submissive behaviours emitted during non-feeding sessions by each dominance rank in addition to their contribution to chi-squared. Observed counts that were significantly different from the expected count are coloured red.

Rank		Move Away	Cower	Displace	Lunge	Chase	Cuff	Grab	Bite	Fight
<b>High</b>	Observed	30	2	42	19	44	57	11	3	10
	Expected	88.9	11.2	28.5	15.1	22.3	39.3	4.6	2.3	5.8
	Contribution to Chi-square	<b>39.1</b>	7.5	6.4	1.1	<b>21.1</b>	7.9	8.8	0.2	3.1
<b>Medium</b>	Observed	89	7	15	10	11	26	0	2	2
	Expected	66.1	8.3	21.2	11.2	16.6	29.2	3.4	1.7	4.3
	Contribution to Chi-square	7.9	0.2	1.8	0.1	1.9	0.4	3.4	0.03	1.2
<b>Low</b>	Observed	112	20	17	10	3	19	1	1	3
	Expected	75.9	9.5	24.3	12.8	19.1	33.5	3.9	1.9	4.9
	Contribution to Chi-square	<b>17.2</b>	<b>11.5</b>	2.2	0.6	<b>13.5</b>	6.3	2.2	0.5	0.8

Critical chi-squared value = 10.83