

**No evidence that horn trimming affects white rhinoceros horn use  
during comfort behaviour and resource access**

**Samuel G. Penny<sup>1,\*</sup>, Rachel L. White<sup>1</sup>, Dawn M. Scott<sup>2</sup>, Lynne**

**MacTavish<sup>1,3</sup> and Angelo P. Pernetta<sup>1</sup>**

<sup>1</sup> Ecology, Conservation and Zoonosis Research and Enterprise Group, School of Pharmacy  
and Biomolecular Sciences, University of Brighton, Brighton, BN2 4GJ, UK

<sup>2</sup> School of Life Sciences, Keele University, Keele, Staffordshire ST5 5BG, UK

<sup>3</sup> Rustenburg, Northwest Province, South Africa

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\*) Corresponding author; e-mail: S.Penny2@brighton.ac.uk

**Supplementary material**

**Table S1.**

Number and duration of field observations for individual rhinos at Site A and Site B. Age: A = adult; S = subadult; J = juvenile; U = unknown; Sex: F = female; M = male.

ID	Site	Age	Sex	No. of observation sessions	Mean duration per session (min)	SD
R1	A	A	F	15	66	45.6
R2	A	A	F	31	86	65.7
R3	A	A	F	43	61	42.4
R4	A	A	F	31	70	60.8
R5	A	A	M	29	81	61.7
R6	A	A	M	33	91	100.0
R7	A	S	F	58	94	94.7
R8	A	S	M	57	96	96.4
R9	A	S	M	60	98	95.0
R10	A	S	M	63	90	88.6
R11	A	S	M	59	96	97.9
R12	A	S	M	57	91	92.5
R13	A	J	M	15	63	43.5
R14	A	J	M	31	87	68.3
R15	A	J	M	31	67	58.9
R16	A	J	M	17	49	30.7
R17	B	A	F	1	15	-
R18	B	A	F	1	40	-
R19	B	A	F	1	28	-
R20	B	A	F	1	22	-
R21	B	A	F	1	38	-
R22	B	A	F	1	12	-
R23	B	A	F	1	26	-
R24	B	A	F	1	20	-
R25	B	A	F	1	20	-
R26	B	A	F	1	20	-
R27	B	A	F	1	95	-
R28	B	A	F	1	65	-
R29	B	A	F	1	15	-
R30	B	A	F	1	75	-
R31	B	A	F	1	45	-
R32	B	A	F	1	20	-
R33	B	A	F	1	85	-
R34	B	A	F	1	58	-
R35	B	A	F	1	335	-
R36	B	A	F	1	30	-
R37	B	A	F	1	20	-
R38	B	A	F	2	52	25.5
R39	B	A	F	2	27	18.4
R40	B	A	F	1	40	-
R41	B	A	F	3	55	9.9
R42	B	A	F	1	15	-
R43	B	A	F	1	35	-
R44	B	A	F	1	52	-

R45	B	A	F	1	75	-
R46	B	A	F	1	15	-
R47	B	A	F	1	70	-
R48	B	A	F	2	53	24.0
R49	B	A	F	1	35	-
R50	B	A	F	1	20	-
R51	B	A	F	2	15	7.1
R52	B	A	F	1	44	-
R53	B	A	F	2	43	24.7
R54	B	A	F	3	96	6.0
R55	B	A	F	1	15	-
R56	B	A	F	1	55	-
R57	B	A	F	1	55	-
R58	B	A	F	1	22	-
R59	B	A	F	1	15	-
R60	B	A	M	1	45	-
R61	B	A	M	1	26	-
R62	B	A	M	1	22	-
R63	B	A	M	1	12	-
R64	B	A	M	1	38	-
R65	B	A	M	1	40	-
R66	B	A	M	1	40	-
R67	B	A	M	1	140	-
R68	B	A	M	1	65	-
R69	B	A	M	1	65	-
R70	B	A	M	1	55	-
R71	B	A	M	1	35	-
R72	B	A	M	1	20	-
R73	B	A	M	1	20	-
R74	B	A	M	1	20	-
R75	B	A	M	1	75	-
R76	B	A	M	1	125	-
R77	B	A	M	1	125	-
R78	B	A	M	2	48	10.6
R79	B	A	M	1	15	-
R80	B	A	M	2	25	7.1
R81	B	A	M	1	40	-
R82	B	A	M	1	58	-
R83	B	A	M	1	30	-
R84	B	A	M	2	40	35.4
R85	B	A	M	2	58	24.7
R86	B	A	M	1	25	-
R87	B	A	M	1	45	-
R88	B	A	M	1	85	-
R89	B	A	M	1	16	-
R90	B	A	M	6	40	18.6
R91	B	A	M	1	60	-
R92	B	A	M	3	29	7.9
R93	B	A	M	1	12	-
R94	B	A	M	1	125	-

R95	B	A	M	1	100	-
R96	B	A	M	1	95	-
R97	B	A	M	1	45	-
R98	B	A	M	1	135	-
R99	B	A	U	1	20	-
R100	B	A	U	1	20	-
R101	B	A	U	1	10	-
R102	B	S	F	1	40	-
R103	B	S	F	1	50	-
R104	B	S	F	1	335	-
R105	B	S	F	2	66	41.7
R106	B	S	F	3	29	25.7
R107	B	S	F	1	105	-
R108	B	S	F	2	67	82.7
R109	B	S	F	3	52	46.0
R110	B	S	F	1	40	-
R111	B	S	F	1	55	-
R112	B	S	M	1	65	-
R113	B	S	M	1	65	-
R114	B	S	M	1	40	-
R115	B	S	M	1	14	-
R116	B	S	M	1	40	-
R117	B	S	M	3	138	171.9
R118	B	S	M	5	44	34.0
R119	B	S	M	2	73	74.2
R120	B	S	M	2	30	7.1
R121	B	S	M	1	50	-
R122	B	S	M	1	105	-
R123	B	S	M	2	14	2.8
R124	B	S	M	3	35	23.0
R125	B	S	M	2	48	38.9
R126	B	S	M	1	12	-
R127	B	S	M	1	40	-
R128	B	S	M	1	95	-
R129	B	S	M	1	40	-
R130	B	S	M	1	104	-
R131	B	S	M	1	95	-
R132	B	S	M	1	40	-
R133	B	S	M	1	125	-
R134	B	S	M	1	335	-
R135	B	S	M	1	40	-
R136	B	S	M	1	70	-
R137	B	S	U	1	25	-
R138	B	S	U	1	36	-
R139	B	S	U	1	8	-
R140	B	S	U	1	36	-
R141	B	S	U	1	25	-
R142	B	S	U	1	20	-
R143	B	S	U	1	10	-
R144	B	S	U	1	10	-

R145	B	S	U	1	95	-
R146	B	S	U	1	20	-
R147	B	S	U	1	8	-
R148	B	S	U	1	24	-
R149	B	S	U	1	15	-
R150	B	S	U	1	95	-
R151	B	S	U	1	35	-
R152	B	S	U	1	20	-
R153	B	S	U	1	140	-
R154	B	J	F	1	28	-
R155	B	J	F	1	15	-
R156	B	J	F	1	40	-
R157	B	J	F	3	58	10.2
R158	B	J	F	2	43	24.7
R159	B	J	F	1	22	-
R160	B	J	M	1	20	-
R161	B	J	M	1	55	-
R162	B	J	M	2	13	3.5
R163	B	J	M	1	335	-
R164	B	J	M	1	26	-
R165	B	J	M	1	20	-
R166	B	J	M	2	51	26.9
R167	B	J	M	2	26	19.8
R168	B	J	M	2	52	25.5
R169	B	J	U	1	15	-
R170	B	J	U	1	30	-
R171	B	J	U	1	36	-
R172	B	J	U	1	4	-
R173	B	J	U	1	20	-
R174	B	J	U	1	20	-
R175	B	J	U	1	95	-
R176	B	J	U	1	65	-
R177	B	J	U	1	10	-
R178	B	J	U	1	60	-
R179	B	J	U	1	45	-
R180	B	J	U	1	20	-
R181	B	J	U	1	35	-
R182	B	J	U	1	26	-
R183	B	J	U	1	22	-
R184	B	J	U	1	85	-
R185	B	J	U	1	58	-
R186	B	J	U	1	15	-
R187	B	J	U	1	15	-
R188	B	J	U	1	50	-
R189	B	J	U	1	50	-
R190	B	J	U	1	35	-
R191	B	J	U	1	20	-
R192	B	J	U	1	42	-
R193	B	J	U	3	98	5.2
R194	B	J	U	1	45	-

**Table S2.**

Rubbing behaviour during post visits recorded during camera trapping at Site A. Age: A = adult; S = subadult; J = juvenile; Sex: F = female; M = male.

ID	Age	Sex	Rubbing duration		Days of uninterrupted horn growth
			Total (sec)	Horn (sec)	
R1	A	F	30	0	175
R1	A	F	290	20	500
R1	A	F	189	0	529
R1	A	F	89	0	650
R1	A	F	89	85	701
R1	A	F	90	49	702
R1	A	F	92	0	752
R2	A	F	83	55	133
R3	A	F	48	0	525
R3	A	F	33	0	723
R4	A	F	86	28	47
R4	A	F	81	0	102
R4	A	F	124	20	102
R4	A	F	55	30	373
R4	A	F	99	8	499
R4	A	F	60	15	593
R5	A	M	18	0	54
R5	A	M	8	0	62
R5	A	M	70	0	73
R5	A	M	20	20	87
R5	A	M	38	30	133
R5	A	M	120	90	133
R5	A	M	41	0	366
R5	A	M	60	25	474
R5	A	M	102	0	499
R8	S	F	80	0	29
R8	S	M	30	0	70
R8	S	M	36	0	112
R8	S	F	149	0	112
R8	S	M	60	0	112
R8	S	F	9	0	118
R8	S	M	70	0	373
R8	S	F	100	0	475
R8	S	F	75	0	493
R8	S	M	10	0	525
R8	S	F	21	0	528
R9	S	M	24	10	29
R9	S	M	90	0	67
R9	S	M	103	0	76
R9	S	M	119	0	112

R9	S	M	118	0	118
R9	S	M	10	0	475
R9	S	M	10	0	493
R10	J	M	92	4	2
R10	S	M	143	4	29
R10	S	M	111	15	67
R10	S	M	64	21	70
R10	S	M	45	0	71
R10	S	M	50	0	112
R10	S	M	90	23	112
R10	S	M	115	0	468
R10	S	M	75	0	486
R11	S	M	30	0	67
R11	S	M	234	0	69
R11	S	M	157	0	112
R11	S	M	163	29	118
R11	S	M	30	0	364
R11	S	M	144	0	365
R11	S	M	75	12	486
R12	S	M	5	0	0
R12	S	M	105	5	29
R12	S	M	120	0	67
R12	S	M	168	10	67
R12	S	M	209	0	69
R12	S	M	388	61	112
R12	S	M	36	0	118
R12	S	M	27	0	364
R12	S	M	106	0	365
R12	S	M	146	0	515
R12	S	M	40	0	525
R13	J	M	92	0	67
R13	J	M	28	0	188
R13	J	M	107	0	240
R14	J	M	15	0	272
R15	J	M	116	0	46
R15	J	M	54	0	102
R15	J	M	59	0	102
R15	J	M	72	0	166
R15	J	M	107	0	292
R15	J	M	281	6	386