

Table S1

Male ranks for each baboon for the 6-month period prior to darting

Subject	Dart date	Rank	Month	Year
Adr	15 Jun 2007	6	Dec	2006
		6	Jan	2007
		1	Feb	2007
		1	Mar	2007
		1	Apr	2007
		1	May	2007
		1	Jun	2007
Ale	16 Jul 2007	10	Jan	2007
		8	Feb	2007
		9	Mar	2007
		11	Apr	2007
		15	May	2007
		15	Jun	2007
		14	Jul	2007
Apo	11 Jul 2007	10	Jan	2007
		10	Feb	2007
		11	Mar	2007
		11	Apr	2007
		12	May	2007
		12	Jun	2007
		12	Jul	2007
Ara	12 Jun 2008	4	Dec	2007
		4	Jan	2008
		4	Feb	2008
		4	Mar	2008
		4	Apr	2008
		4	May	2008
		4	Jun	2008

Table S1 *continued*

Subject	Dart date	Rank	Month	Year
Bag	9 Jul 2008	9	Jan	2008
		9	Feb	2008
		8	Mar	2008
		8	Apr	2008
		8	May	2008
		9	Jun	2008
		9	Jul	2008
Cad	26 Jun 2008	18	Dec	2007
		18	Jan	2008
		18	Feb	2008
		18	Mar	2008
		16	Apr	2008
		16	May	2008
		18	Jun	2008
Dag	11 Jun 2007	5	Dec	2006
		5	Jan	2007
		5	Feb	2007
		6	Mar	2007*
		15	Mar	2007*
		5	Apr	2007*
		11	Apr	2007*
		2	May	2007
2	Jun	2007		
Das	20 Jun 2008	8	Dec	2007
		7	Jan	2008
		7	Feb	2008
		8	Mar	2008
		8	Apr	2008
		6	May	2008
		6	Jun	2008

Table S1 *continued*

Subject	Dart date	Rank	Month	Year
Gab	14 Jun 2008	5	Dec	2007
		5	Jan	2008
		6	Feb	2008
		5	Mar	2008
		5	Apr	2008
		3	May	2008
		3	Jun	2008
Gan	14 Jun 2008	1	Dec	2007
		1	Jan	2008
		2	Feb	2008
		2	Mar	2008
		2	Apr	2008
		1	May	2008
		1	Jun	2008
Leb	6 Jul 2007	2	Jan	2007
		2	Feb	2007
		2	Mar	2007
		2	Apr	2007
		2	May	2007
		2	Jun	2007
		2	Jul	2007
Lib	18 Jun 2008	12	Dec	2007
		13	Jan	2008
		13	Feb	2008
		13	Mar	2008
		13	Apr	2008
		14	May	2008
		16	Jun	2008

Table S1 *continued*

Subject	Dart date	Rank	Month	Year
Log	6 Jun 2007	1	Dec	2006
		5	Jan	2007
		5	Feb	2007
		4	Mar	2007
		4	Apr	2007
		4	May	2007
		3	Jun	2007
Loz	4 Jun 2007	12	Dec	2006
		11	Jan	2007
		10	Feb	2007
		11	Mar	2007
		12	Apr	2007
		12	May	2007
		12	Jun	2007
Nju	4 Jun 20007	6	Dec	2006
		6	Jan	2007
		6	Feb	2007
		6	Mar	2007
		6	Apr	2007
		6	May	2007*
		9	May	2007*
		10	Jun	2007

Table S1 *continued*

Subject	Dart date	Rank	Month	Year
Noz	1 Dec 2007	12	Dec	2007
		12	Jan	2008
		12	Feb	2008
		11	Mar	2008
		12	Apr	2008
		9	May	2008
		9	Jun	2008
Pla	4 Jul 2007	12	Jan	2007
		13	Feb	2007
		13	Mar	2007
		14	Apr	2007
		17	May	2007
		16	Jun	2007
		15	Jul	2007
Raj	28 Jun 2007	6	Dec	2006
		5	Jan	2007
		5	Feb	2007
		5	Mar	2007
		5	Apr	2007
		5	May	2007
		4	Jun	2007

Table S1 *continued*

Subject	Dart date	Rank	Month	Year
Tal	11 Jul 2008	8	Jan	2008
		8	Feb	2008
		9	Mar	2008
		8	Apr	2008
		9	May	2008
		10	Jun	2008
		10	Jul	2008
Thr	20 Jun 2008	1	Dec	2007
		1	Jan	2008
		1	Feb	2008
		1	Mar	2008
		1	Apr	2008
		1	May	2008
		1	Jun	2008
Vib	19 Jul 2007	14	Jan	2007
		9	Feb	2007
		10	Mar	2007
		5	Apr	2007
		4	May	2007
		6	Jun	2007
		6	Jul	2007

Table S1 *continued*

Subject	Dart date	Rank	Month	Year
Wri	19 Jul 2007	18	Jan	2007
		15	Feb	2007
		8	Mar	2007
		9	Apr	2007
		13	May	2007
		13	Jun	2007
		11	Jul	2007

Data from 7 months are included because the 6-month period prior to darting usually did not begin with a discrete month.

* This male moved from one social group to another in the indicated month, resulting in two dominance ranks in that month.

Table S2

Summary of PCR information for targeted parasites

Target species and gene	Primer	Primer sequence (5' to 3'end)	Expected size (base pairs)
<i>Babesia microti</i> (18S rRNA)	Bmic F1	CCTGCGGCTTAATTTGACTC	505
	Bmic R1	GGATCACTCGATCGGTAGGA	
<i>Entopolypoides macaci</i>	Emac F1	ATACAGCGAAACTGCGAATG	437
	Emac R1	GAAGGGTTTAGATCCCCATCA	
<i>Theileria</i> and <i>Babesia</i> *	F34	TGTGGTAACCAGAT(t/c)GG(a/t)GCCA	310–460
	R323	TCnGT(a/g)TA(a/g)TGnCC(t/c)TT(a/g)GCCCA	
<i>Theileria</i> and <i>Babesia</i> (for nested PCR)*	F79	GA(a/g)CA(t/c)GGnATnGA(t/c)CCnGTAA	169–319
	R206	AC(a/t/g)GA(a/g)TCCATGGT(a/t/g)CCnGG(t/c)T	

* These primers were designed to detect the β -tubulin gene in any of two *Theileria* and six *Babesia* species.

Table S3

PCR amplification and sequencing preparation conditions

Molecular procedure	PCR amplification		Preparation for sequencing	
	° C	Time	° C	Time
1st denaturation	95	2 min	96	3 min
2nd denaturation	95	45 s	96	10 s
Annealing	54–59	30 s	64	15 s
Extension	68	1 min	60	4 min
Further extension	72	5 min	—	—
Number of cycles	39		34	

Table S4

Summary of parasites sampled

Species	No. of screened animals	No. of darted animals with parasite (ecto) or positive PCR for parasite (haemo)	Total no. of parasites collected	Mean \pm SD abundance in darted animals
Ectoparasites				
<i>Rhipicephallus simus</i>	65	31	941	24.26 \pm 39.03
<i>Rhipicephallus pulchellus</i>	65	8	17	2.125 \pm 1.72
<i>Hyalloma truncatum</i>	65	4	4	1 \pm 0
Haemoparasites				
<i>Entopolypoides macaci</i>	63	0	—	—
<i>Babesia microti</i>	63	2	—	—

Table S5

Distribution of tick stages

	Total no. of adult ticks	Total no. of larvae (immature ticks)	No. of darted individuals	No. of individuals with ≥ 1 tick
2007	896	4*	32	18
2008	66	590	33	22

* In 2007, we identified large numbers of adult ticks on the animals, so some larvae may have been overlooked simply because of the logistical challenge of completing the tick processing before an individual regained consciousness.