

Supplementary Information

Is promiscuity the key? Multiple paternity in the garden dormouse (*Eliomys quercinus*)

Mammalian Biology

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j = juvenile; a = adult. MP = multiple paternity detected

References

Table S1 Characteristics of the 5 microsatellite loci. ¹Schoebel et al. (2013) ² Hürner et al. (2009)

Locus	Primer Sequence (5' - 3')	5' Label	Motiv	Protocol
PZ3¹	F: CCT CTG AGT TCA ATC CTC GG	HEX	TG	1
	R: TCT TCT CTG TCT TGG GTT TCG	-		
PZ4¹	F: TTA AGG GTC TGA GGT GGT GG	FAM	CA	2
	R: TGA CAT TTT GTC TGG CGG T	-		
PZ6¹	F: GGT GGC AGA AGG CAG TAA GA	HEX	TG	2
	R: GAC TCA CAG GCT GAA AAG CA	-		
PZ17¹	F: GTC AAT CCC CAG GAT CAA AA	HEX	TTTA	3
	R: GAC AAT AGA AGC CAC AGC CC	-		
Gg8²	F: CTA TCG GGG ACG GGT TTT G	HEX	GT	4
	R: CTC CTG TTT CTT GCC AAT TCC	-		

Table S2 PCR protocols for the microsatellite markers

protocol	parameter	temperature (°C)	time (s)	repeats
1	initial denaturation	95	900	37
	denaturation	94	30	
	annealing	58.5	90	
	elongation	72	60	
	final elongation	72	1800	
2	initial denaturation	95	120	15
	denaturation	95	30	
	annealing	61 (-0.5 °C/cycle)	30	
	elongation	72	25	
	denaturation	95	30	25
	annealing	53	30	
	elongation	72	25	
	final elongation	72	300	
3	initial denaturation	95	900	37
	denaturation	95	30	
	annealing	60	90	
	elongation	72	60	
	final elongation	72	1800	
4	initial denaturation	95	120	50
	denaturation	95	30	
	annealing	51	30	
	elongation	72	35	
	final elongation	72	300	

Table S3 Genotypes of all families. Bold are alleles that gave evidence to multiple paternity. j = juvenile; a = adult. MP = multiple paternity detected

Family ID	study site	study year	genetic mother	age	Gg8	Gg8	PZ3	PZ3	PZ4	PZ4	PZ6	PZ6	PZ17	PZ17	MP
1	RL	2018	74c-27c1	a	196	196	118	120	199	201	127	135	136	149	
1	RL	2018		j	196	196	116	118	201	201	135	135	136	136	no
1	RL	2018		j	196	198	118	118	201	203	135	135	136	140	no
1	RL	2018		j	196	196	116	120	201	203	135	135	136	136	no
1	RL	2018		j	196	198	116	118	201	203	135	135	136	140	no
2	RL	2018	74c-3875	a	196	196	118	118	203	205	129	135	136	136	
2	RL	2018		j	196	196	116	118	203	203	135	135	136	136	no
2	RL	2018		j	196	196	116	118	205	205	127	129	136	136	no
2	RL	2018		j	196	196	118	122	199	205	129	135	136	136	no
3	WK	2019		j	196	196	118	124	209	209	123	135	136	136	no
3	WK	2019		j	196	198	118	124	199	201	123	123	136	136	no
3	WK	2019		j	196	196	118	122	201	209	123	135	136	136	no
3	WK	2019		j		196	116	122	209	209	123	137	136	136	no
4	WK	2019		j	196	196	118	122			123	129	136	136	yes
4	WK	2019		j	196	196	124	124	201	201	123	129	136	136	yes
4	WK	2019		j	196	198	122	122	201	201	123	129	136	153	yes
5	WK	2020	74e-df7e	a	198	202	124	124	201	211	123	135	136	136	
5	WK	2020		j	198	198	120	124	201	211	135	137	136	136	yes
5	WK	2020		j	196	198	124	124	201	211	123	123	136	136	yes
5	WK	2020		j	196	202	122	124	201	211	123	135	136	136	yes
6	RL	2020	74d-ef91	a	196	196	118	122	199	205	129	135	136	136	
6	RL	2020		j			108	118	205	205	135	135	136	136	no
6	RL	2020		j	196	196	118	118	199	199	129	137	136	136	no
6	RL	2020		j	196	196	108	118	199	199	129	137	136	136	no
6	RL	2020		j	196	196	108	122	199	199	135	137	136	136	no
6	RL	2020		j	196	196	108	122	199	199	129	135	136	136	no
7	WK	2020		j	196	198	114	116	209	209	123	123	136	153	no
7	WK	2020		j	196	198	114	116	203	203	123	127	136	153	no
7	WK	2020		j	196	200	116	116	203	203	123	123	136	136	no
8	RL	2018	74c-27c1	a	196	196	118	120	199	201	127	135	136	149	
8	RL	2018		j	196	198	118	122	199	201	135	135	136	136	yes
8	RL	2018		j	196	198	120	120	201	201	135	137	136	149	yes
8	RL	2018		j	196	198	116	120	199	201	135	135	136	136	yes
8	RL	2018		j	196	196	120	120	199	199	123	135	136	136	yes
8	RL	2018		j	196	198	118	120	199	201	135	137	136	149	yes
9	RL	2018		j	194	202	118	122	199	209	135	137	136	149	yes
9	RL	2018		j	194	196	116	118	199	199	123	127	136	136	yes
9	RL	2018		j	194	198	118	120	199	205	135	137	136	136	yes
9	RL	2018		j	196	198	118	120	199	199	123	137	136	136	yes
10	RL	2019	74c-3875	a	196	196	118	118	203	205	129	135	136	136	
10	RL	2019		j	196	196	105	118	205	205	129	135	136	149	yes
10	RL	2019		j	196	198	108	118	203	203	135	135	136	136	yes
10	RL	2019		j	196	196	118	120	203	203	129	129	136	136	yes
10	RL	2019		j	196	196	118	120	201	205	129	129	136	136	yes

10	RL	2019		j	196	196	118	120	203	203	129	129	136	136	yes
11	RL	2019		j	198	198	112	120	201	209	129	135	136	136	yes
11	RL	2019		j	196	202	116	118	201	201	129	137	136	149	yes
11	RL	2019		j	196	202	118	122	199	201	135	135	149	149	yes
12	RL	2020	74b-f3dd	a	196	196	116	118	201	211	135	137	136	136	
12	RL	2020		j	196	196	116	116	201	201	129	137	136	136	yes
12	RL	2020		j			116	118	201	211	137	137	136	149	yes
12	RL	2020		j	192	196	116	116	199	211	123	135	136	136	yes
13	RL	2020	74c-3875	a	196	196	118	118	203	205	129	135	136	136	
13	RL	2020		j	196	196	118	118	199	203	123	135	136	136	yes
13	RL	2020		j	196	196	116	118	205	205	129	135	136	136	yes
13	RL	2020		j	196	196	116	118	205	209	135	137	136	136	yes
13	RL	2020		j	196	196	118	118	205	205	135	135	136	136	yes
14	RL	2021	74b-f3dd	a	196	196	116	118	201	211	135	137	136	136	
14	RL	2021		j	196	196	118	120	209	211	135	135	136	136	yes
14	RL	2021		j	196	196	116	120	201	209	137	137	136	136	yes
14	RL	2021		j	196	196	118	122	209	211	129	135	136	136	yes
14	RL	2021		j	196	198	118	122	201	201	137	137	136	136	yes
14	RL	2021		j	196	198	116	120	211	211	135	137	136	136	yes

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