

## Digital supplementary material to

JOHNSON, A.P., SCHMID-HEMPEL, R. & SCHMID-HEMPEL, P. 2011: Female lines in social insects – a homage to the Croziers' mitochondria. – Myrmecological News 15: 101-108.

### Appendix

(a) Summary and (b) haplotype sequences of different mitotypes (A...T) used in this study. The coding region of the published sequence of *Bombus hypocrita* is added in grey (GenBank accession nr. EU401918). Note that the grey area is the 5'-end of the coding region of COI, which is followed by the inter-genic spacer region towards COII.

#### (a) Summary of mitotypes

Mitotype	Label	GenBank accession nr.	Project label IDs of queens harbouring this mitotype (all collected in spring 2002)
A	Bter_CH2002A	JF715202	27, 42, 67, 75, 93, 96, 99, 101, 109, 120, 131, 135, 136, 139, 145, 160, 172, 175, 176, 177, 180, 181, 184, 186, 190, 191, 192, 196, 273
B	Bter_CH2002B	JF715203	8, 10, 22, 29, 31, 37, 46, 60, 71, 82, 87, 91, 100, 111, 114, 116, 119, 130, 138, 147, 148, 149, 152, 159, 162, 164, 165, 170, 171, 195, 200, 208, 264
D	Bter_CH2002D	JF715204	106, 125, 167
E	Bter_CH2002E	JF715205	94, 194
F	Bter_CH2002F	JF715206	51
J	Bter_CH2002J	JF715207	55
K	Bter_CH2002K	JF715208	52, 270
S	Bter_CH2002S	JF715209	50
T	Bter_CH2002T	JF715210	215

**Note:** Haplotype J is listed as sequence labeled with letter "I" in GenBank.

(b) Mitotype sequences

10 20 30 40 50 60 70 80 90 100  
A TTCAATAAATAGAAATATTATTTTAAATTTTCATTATTTTGAAAAGATTAATTTCTAAACGATTAATTTTATTTAAATTCATCAATCATCACTTGAATGA  
B .....  
D .....G.....  
E .....T.....  
F .....  
J .....  
K .....  
S .....T.....  
T .....  
B. hypocrita .....C.....T.....C.....T.....T.....

110 120 130 140 150 160 170 180 190 200  
A TTAAATAAATTATCCTCCTTATGATCACTCATTAATGAAATTCATTAAATTCAAAAATAAAATTAATAATTTTCAATAAAATAAATTACCCTTTTAA  
B .....G.....  
D .....  
E .....G.....  
F .....G.....C.....  
J .....G.....  
K .....  
S .....G.....  
T .....  
B. hypocrita .....A...T...T.TCC...A.....

210 220 230 240 250 260 270 280 290 300  
A TATAAATTTAACATTTAATATAATATTAATATTGCAAATTAATGCCTTGAACCTTAAAATTCAACTATAAAGATTATTTTCTTTTATTAATATAAATATT  
B .....  
D .....  
E .....  
F .....  
J .....C.....  
K .....A.....  
S .....  
T .....

310 320 330 340 350 360 370 380 390 400  
A TAATATAATATTAATATGGCAGATTAGTGCITTTGAAATTTAAAATTCAACTATAAAGATTATTTTCTTTTATTAATATAAATATTAAATAATCAATATT  
B .....  
D .....  
E .....  
F .....  
J .....  
K .....  
S .....  
T .....C.....

410 420 430 440  
A TTGAATTGAATTGAAAATTCAAATAAATTTTATTAATTATT  
B .....  
D .....  
E .....  
F .....  
J .....  
K .....  
S .....  
T .....