

Geraci, J., Bechet, A., Cézilly, F., Ficheux, S., Baccetti, N., Samraoui, B. and Wattier, R. 2012. Greater flamingo colonies around the Mediterranean form a single interbreeding population and share a common history. – *J. Avian Biol.* 43: 341–354.

Supplementary material

Appendix 1

Table A1. Primers designed based on *P. roseus* mtDNA complete genome (Genbank : NC 010089) to amplify partial sequence of three mtDNA targets: NADH dehydrogenase subunit 2 (ND2), Cytochrome b (Cytb), and the control region (CR).

Target	Primer Name	Primer sequence	Primer position*	PCR product length (pb)
ND2	PR-ND2B-F	CCACTATAGCCATCGCTTCA	4469-4488	612
	PR-ND2B-R	TTTGAAGGCCTTCGGTTTAG	5061-5080	
Cytb	PR-CytbB-F	ACACTTCCTCCTCCCCTTC	14210-14228	654
	PR-CytbB-R	AGTCTTCACTCTTTGGTTTACAAG	18842-14865	
CR	PR-CR1B-F	CTATGTCAGGGCCATATATCG	15509-15529	704
	PR-CR1B-R	TTGGGAGTTGGAGGTAGAGG	16193-16212	

* Positions are relative to the complete *P. roseus* mtDNA genome sequence (NC_010089).

Table A2. Molecular definition of haplotypes sequenced for 3 mtDNA targets (ND2, Cytb and CR) and polymorphism assay in two *P. roseus* breeding sites: Fuente de Piedra (FDP; Spain) and Delta Gediz (DGE; Turkey).

Target	Haplotype	Polymorphic sites	FDP	DGE
		1 1 1 1 1 1 1		
		4 4 4 4 4 4 5 5 5 5 5		
		6 6 7 8 3 3 5 8 8 8 8		
		2 5 2 3 7 9 9 2 5 7 8		
		6 6 2 7 7 6 5 2 3 3 7		
ND2	ND2-h1	G T A G	16	12
	ND2-h2	. . . A	1	2
	ND2-h3	. C . .		1
	ND2-h4	A . G .		1
Cytb	Cytb-h1	C G	12	12
	Cytb-h2	T .	4	3
	Cytb-h3	. A	1	
CR	CR-h1	A C A C C	7	6
	CR-h2	G	1	1
	CR-h3	G . . . T		1
	CR-h4 T	4	3
	CR-h5	. . G . T		1
	CR-h6	. . G . .	1	1
	CR-h7	. . . T .	4	3
	CR-h8	G . . T .		1
	CR-h9	. T . . .	1	2
	CR-h10	G T . . .	1	

^a vertical numbers show the position of the polymorphic site relative to the complete *P. roseus* mtDNA genome sequence (NC_010089). Dots show homology with haplotype h1 obtained for each target.

Table A3. Pairwise θ_{ST} and Fisher's exact test p values computed over 10 000 permutations for mitochondrial COI data between 8 breeding sites of the Greater flamingo.

	CAM 2003	FDP 2007	DEB 2007	MDO 2008	MAC 2007	COM 2007	ALG 2008	DGE 2007
CAM 2003		-0.011	0.034	0.019	0.015	-0.012	0.012	-0.018
FDP 2007	0.495		0.015	-0.012	0.005	-0.019	-0.026	-0.028
DEB 2007	0.100	0.14		-0.013	-0.011	0.024	0.062	0.009
MDO 2008	0.100	0.351	1.000		-0.035	0.006	0.025	-0.017
MAC 2007	0.142	0.257	1.000	1.000		0.011	0.031	-0.011
COM 2007	0.142	0.712	0.069	0.173	0.104		-0.011	-0.026
ALG 2008	0.138	1.000	0.102	0.164	0.193	0.713		-0.015
DGE 2007	0.202	1.000	0.293	0.427	0.483	0.749	0.732	

Above diagonal: pairwise θ_{ST} ; below diagonal: Fisher's exact test p values. All θ_{ST} associated p values are > 0.05 .

Table A4. Pairwise Fisher's permutation test values computed over 10 000 permutations for 13 microsatellites between 20 sampling units of the Greater flamingo.

	CAM 1995	CAM 1996	CAM 1997	CAM 1998	CAM 2008	CAM 2009	FDP 1996	FDP 1999	FDP 2007	FDP 2009	DEB 2007	DEB 2008	MDO 2008	MAC 2007	COM 2007	COM 2008	ALG 2008	ALG 2009	DGE 2007	
CAM 1996	1.000																			
CAM 1997	1.000	1.000																		
CAM 1998	1.000	1.000	1.000																	
CAM 2008	0.481	0.497	0.552	0.482																
CAM 2009	1.000	1.000	1.000	1.000	0.590															
FDP 1996	1.000	1.000	1.000	1.000	0.537	1.000														
FDP 1999	1.000	1.000	1.000	1.000	0.483	1.000	1.000													
FDP 2007	1.000	1.000	1.000	1.000	0.504	1.000	1.000	1.000												
FDP 2009	1.000	1.000	1.000	1.000	0.567	1.000	1.000	1.000	1.000											
DEB 2007	1.000	1.000	1.000	1.000	0.462	1.000	1.000	1.000	1.000	1.000										
DEB 2008	0.552	0.478	0.603	0.529	0.266	0.618	0.567	0.487	0.513	0.605	0.551									
MDO 2008	1.000	1.000	1.000	1.000	0.510	1.000	1.000	1.000	1.000	1.000	1.000	0.546								
MAC 2007	1.000	1.000	1.000	1.000	0.580	1.000	1.000	1.000	1.000	1.000	1.000	0.484	1.000							
COM 2007	1.000	1.000	1.000	1.000	0.433	1.000	1.000	1.000	1.000	1.000	1.000	0.490	1.000	1.000						
COM 2008	1.000	1.000	1.000	1.000	0.466	1.000	1.000	1.000	1.000	1.000	1.000	0.539	1.000	1.000	1.000					
ALG 2008	1.000	1.000	1.000	1.000	0.424	1.000	1.000	1.000	1.000	1.000	1.000	0.546	1.000	1.000	1.000	1.000				
ALG 2009	0.485	0.452	0.454	0.436	0.259	0.533	0.471	0.521	0.475	0.463	0.441	0.285	0.506	0.505	0.456	0.527	0.440			
DGE 2007	0.533	0.532	0.590	0.601	0.335	0.585	0.542	0.605	0.500	0.552	0.584	0.241	0.627	0.516	0.561	0.592	0.536	0.385		
DGE 2009	1.000	1.000	1.000	1.000	0.563	1.000	1.000	1.000	1.000	1.000	1.000	0.589	1.000	1.000	1.000	1.000	1.000	1.000	0.448	0.585

All p values are non significant.