

2002 - LISS, I.

A (K, 1982) DNA  
 40,000 TH DNA  
 N E N A I DNA  
 P (1986) F DNA DNA  
 E E (M  
 P 1999)  
 (M, 1998) N  
 M N  
 N E (1998) 15% E (R  
 I N E N A N N E T 1996; T 1998) E  
 (A C S P DNA I  
 1973) P E  
 DNA (DNA) G : DGES; G : PB93-0558; G  
 T E G : COF1999/019.  
 G : A M G B G  
 F B L L 382/1 T  
 S E @  
 (C 1997)  
 (S 2000) R 275 2000; 17 J. 2002.  
 G E A  
 M A  
 A  
 )

(C-R, 1996). S. N. E. I. DNA. E. S. P. C. N. E. (T., 1998). F. DNA. N. A. (C-R, 1996; R., 1998; R., 1999).

A. N. E. A. P. F. P. A. E. I. DNA. P. E. A.

## MATERIALS AND METHODS

### Samples

I. 299. P. 43. G. (N. S.) B. A. E. N. P. (NP), 84. C. P. (CP), 78; S. P. (SP), 137. 84. 59. (P. 2000). P. 54. P. (C-R, 1996). G. C. I. G. T. 92. S. (1998). (GA). P. (IP). A. IP. A. (NA) DNA. 85 B. A.

## Population comparisons

~~Fraser~~ AMO A ~~Fraser~~ (Fraser, 1992),



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~~h T. T<sub>1</sub>, T<sub>4</sub> h~~  
~~h h T<sub>5</sub> h~~  
~~h h h h h h h~~  
~~h E h h h h~~  
~~h h h h h h h~~  
~~h h h h h h h~~

Population affinities

~~h AMO A h h h~~

MITOCHONDRIAL DNA IN ATLANTIC E ROPE

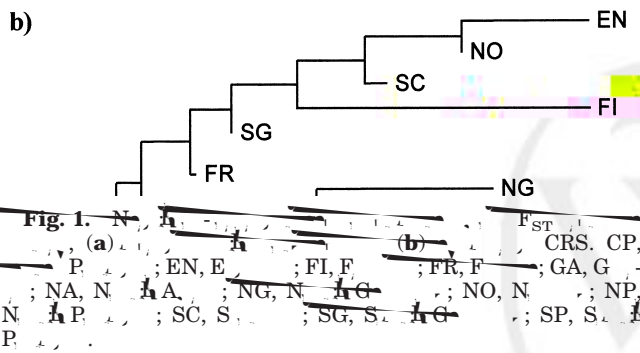
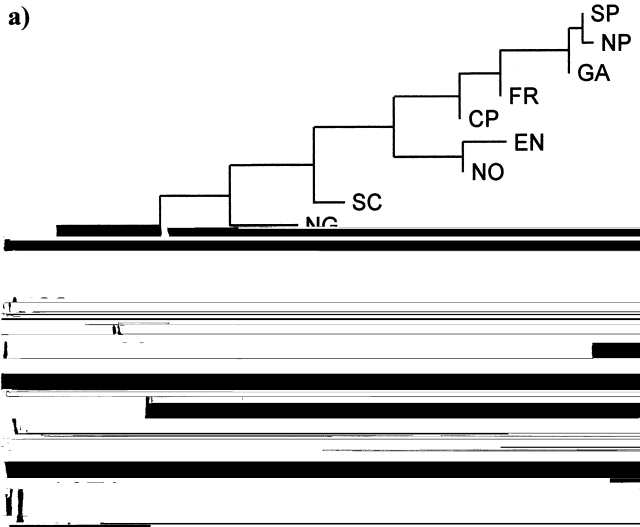
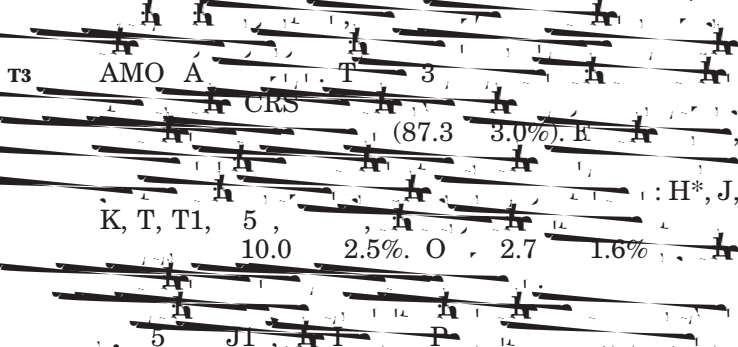


Fig. 1. (a) ... (b) ... CRS, CP, EN, E, FI, F, FR, F, GA, G, NA, N, A, NG, N, G, NO, N, NP, N, P, SC, S, SG, S, SP, S

	FI	NO	SC	EN	NG	SG	FR	GA	NP	CP	SP	NA
FI	0.0024	0.0042	0.0018	0.0056	0.0029	0.0007	0.0025	0.0064*	0.0071*	0.0043	0.0061*	0.0061*
NO	0.0023	0.0007*	0.0008	0.0000	0.0024	0.0012	0.0010	0.0011	0.0018	0.0002	0.0010	0.0088***
SC	0.0057*	0.0030**	0.0018**	0.0012*	0.0018*	0.0003	0.0010	0.0020*	0.0031**	0.0008	0.0021*	0.0063***
EN	0.0049*	0.0007	0.0032***	0.0029*	0.0019	0.0016	0.0016	0.0013	0.0028*	0.0005	0.0024	0.0083***
NG	0.0016	0.0010	0.0008*	0.0022**	0.0019	0.0003	0.0022	0.0024	0.0046*	0.0002	0.0029	0.0056**
SG	0.0020	0.0010	0.0017**	0.0033**	0.0014	0.0000	0.0000	0.0019	0.0019	0.0003	0.0011	0.0044***
FR	0.0040*	0.0022**	0.0017**	0.0037***	0.0023	0.0014*	0.0015*	0.0005	0.0007	0.0000	0.0005	0.0054**
GA	0.0042*	0.0029***	0.0020*	0.0048***	0.0051***	0.0009	0.0014*	0.0016*	0.0000	0.0000	0.0000	0.0083***
NP	0.0032	0.0015*	0.0012*	0.0020*	0.0003	0.0003	0.0009	0.0000	0.0000	0.0000	0.0000	0.0086***
CP	0.0040*	0.0026*	0.0021**	0.0044***	0.0032**	0.0003	0.0014*	0.0017*	0.0012	0.0006	0.0000	0.0067**
SP	0.0094***	0.0077***	0.0071***	0.0084***	0.0073***	0.0053***	0.0048***	0.0057***	0.0054***	0.0055***	0.0055***	0.0080***

Within-haplogroup population affinities

Sequence matches distribution within haplogroups.



T 1.

\* 0.05.  
 \*\* 0.01.  
 \*\*\* 0.001.



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RFLP:

						1	1	1	11	
	2	3	4	4	7	8	0	0	2	4
	3	5	2	5	0	9	3	3	8	7
7	4	9	1	7	2	9	9	9	7	0
3	9	2	6	7	5	4	4	7	3	8
										6

S

H SI

	GA	NP	CP	SP
320			2	1
335		1		
344		1		1
355				1
362		2		2
093 189				
093 263	1			
093 270				1
093 319			1	
111 311	1			
124 220			1	
124 362		1		
129 242		1		
129 362		1		1
188A 189				1
189 262			1	1
189 356			1	1
192 262				1
213 304	1			
220T 311	1			
221 291	1			
235 291	1	2		
269 270				1
278 311				1
278 311				1
292 318		1		
293 311				1
311 319				1
093 189 293			1	
093 189 311				1
114 311 362			1	
126 264 362			1	
126 361 362				1
129 344 362	1			
172 192 311		1		
172 233 362			1	
180 219 221			1	
189 356 362				1
213 254 304	1			
217 218 311				1
235 291 293	1			
126 291A 355 362	22	39	47	66
(298)				
298				2
153 298	1			
189 298				1
239 298				



MITOCHONDRIAL DNA IN ATLANTIC E ROPE

		RFLP															
		2	3	4	4	7	8	1	1	1	11						
		3	5	2	5	0	9	3	3	8	3	7					
		7	4	9	1	7	2	9	9	7	0	6					
		3	9	2	6	7	5	4	4	7	3	8	6				
													GA	NP	CP	SP	
5 (192 270)														1			
192 270 304 311													0	1	0	0	
5 1 (192 256 270)																1	
192 256 270																1	
192 256 270 362													0	0	0	2	
5 1 (256 270 399)																1	
256 270															1	1	
188 256 270 399													0	0	1	1	
5 (189 270)																1	
189 270																1	
189 270														1			
189 192 270															2		
189 270 390														1			
093 189 192 270														1			
093 189 192 270 311													0	3	2	2	
6 (172 219)																	
051 172 219 311													1				
172 219 235 278 355														1	1		
172 189 219 239 278 362															2		
K (224 311)													1	1	3	0	
224 311													2	1	4	2	
093 224 311														1	1		
192 224 311													1				
224 234 311															2		
224 235 311																1	
224 304 311														1			
224 311 320																3	
093 110 224 311														1			
218 224 311 320																1	
222 224 311 360																1	
093 156 224 240C 311													1	4	7	8	
J (069 126)																	
069 126														1	3	1	
069 126 150																1	
069 126 241																1	
069 126 256													1			1	
069 126 311															1		
069 126 324 366 390															1	2	
069 126 163 266 311																	
J1 (069 126 145 222 261)													1	1	5	6	
069 126 145 222 256 261 278																1	
J1 1 (069 126 145 172 222 261)													0	0	0	1	
069 126 145 172 222 261																1	
J2 (069 126 193)													0	1	0	1	
069 126 193 278																3	
069 126 193 319 360													1				
T (126 294)													1	0	1	3	
126 294																	
126 256 294 296														1	1	1	
093 126 189 294 296														1			
T1 (126 163 186 189 294)													0	3	1	1	
037 126 163 186 189																	
126 163 186 189 294																	
126 163 171 186 189 294																1	
126 163 186 189 261 294																2	
126 163 186 189 249 294 311																1	





~~A, C, S, P, B, A, S.A.~~  
~~197:315.~~  
~~D, O, S, I, A, G, F, N, H, A,~~  
~~R, T, M, D, O, O, P, J, G~~

LITERATURE CITED

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