

(56 e e e), e r (69  
 e e e) e e e e e e -  
 ( e e .1995).  
 e e e e e , e  
 e e e e e e e e e e  
 e e (e.g., e e . 1996, 1998, 2000;  
 e .2001).  
 e e e e e e e e e e  
 e e e e e e e e e  
 e e e e e e (1) e e e (e.,  
 , e e e , e e )  
 e e e e e e (2) e e e  
 e e e e e e e e e e e  
 e e e e e e e e e e  
 e e e e e e e e e e  
 e e e e e e e e e e e  
 e e e e e e e e e e  
 e .1992; e e .1999). e e e e e  
 e e e e e e e e e e e  
 e e e e e e e e e e e e  
 e e e .2000),  
 e e e e e e e e e e e

T 4 42 i 2 p  
 1( -)TT ( )4 ( )4 2( )4 1( )4 ( ) ( 2-4( )), - (-42 ( i il 4 ( )TT

Sequence Analysis and Quality Control

... 1994). ... 1999) ... 1990; ... 9025, ... 22906-9025)

... ~50% ... 97% ... 3%

1. 13 ...

2. 28 ...

... (e., e. e. e. e.) ...

Evolutionary Analysis of Sequences

... ( ) ... 2001).

... ( ) ...

... ( ) ... 3.1 ... 1995). ... 750): ...

Recombination/Linkage Disequilibrium (LD) Analysis

...  $r^2$  ...  $\delta$  ... 2001).

... ( ) ... 1999; ... 2001). ... 5,000 ...

The mtDNA-Sequence Set and Haplogroup-Associated Polymorphisms

... 560 ... 577, 16023

... 560 ... ( ) ... 327 536, ... 435 ... 52.0%, ... (n = 226); 3.2%,

T 11

		e e l ( )	e e e e ( )
	663		e . (1992)
	9-1 e e , 16519		e . (1992)
	13263		e . (1992)
	2092 , 5178 , 8414		e . (1992), e (1994)
	7598		e . (1994b)
	7028 , 14766		e (1994), e . (1999)
1	3010		e . (2001)
2	1438 , 4769		e . (2001)
	1719 , 8251 , 10238		e . (1996), e . (1999)
	4216 , 12612 , 13708		e . (1994a), e . (1999)
1	3010		e . (2001)
2	7476 , 15257		e . (2001)
	1811 , 9055 , 12308 , 12372		e . (1996), e . (1999), e . (2001)
	10873		e . (1999)
1	2758 , 3594 , 10810		e e . (1995)
1	4312		e . (1999)
1	2352		e . (1998)
1	9072 , 12810		e . (1998)
2	3594		e e . (1995)
2	13803		e e . (2000)
2	4158		e e . (2000)
3	3594		e e . (1999)
3	8616 , 11002		e . (1999), e e . (2000)
3	8618		e . (1998)
3e	2352		e . (1998)
	10400 , 10873		e . (1993), e . (1999)
	709 , 1888 , 4917 , 10463 , 13368 , 14905 , 15607 , 15928		e . (1996), e . (1999), e . (2001)
1	12633		e . (2001)
2	11812 , 14233		e . (2001)
	12308 , 12372		e . (1996), e . (1999)
2	1811 , 9055 , 12308 , 12372		e . (2001)
4	1811 , 4646 , 11332		e . (1999), e . (2001)
5	3197		e . (1999)
5	7768		e . (2001)
5 1	14793		e . (2001)
5	5656		e . (2001)
6	7805 , 14179		e e e . (2001)
7	4580 , 15904		e . (1996), e . (1999)
	709 , 1243 , 8251 , 8994		e . (1996), e . (2001)
	6221 , 1719 , 14470		e . (1999), e . (2001)

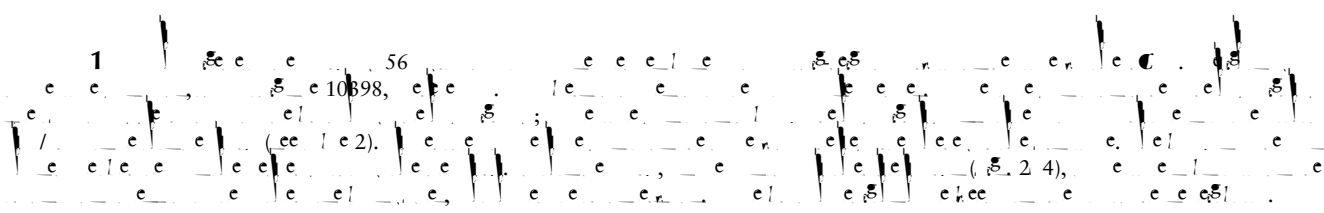
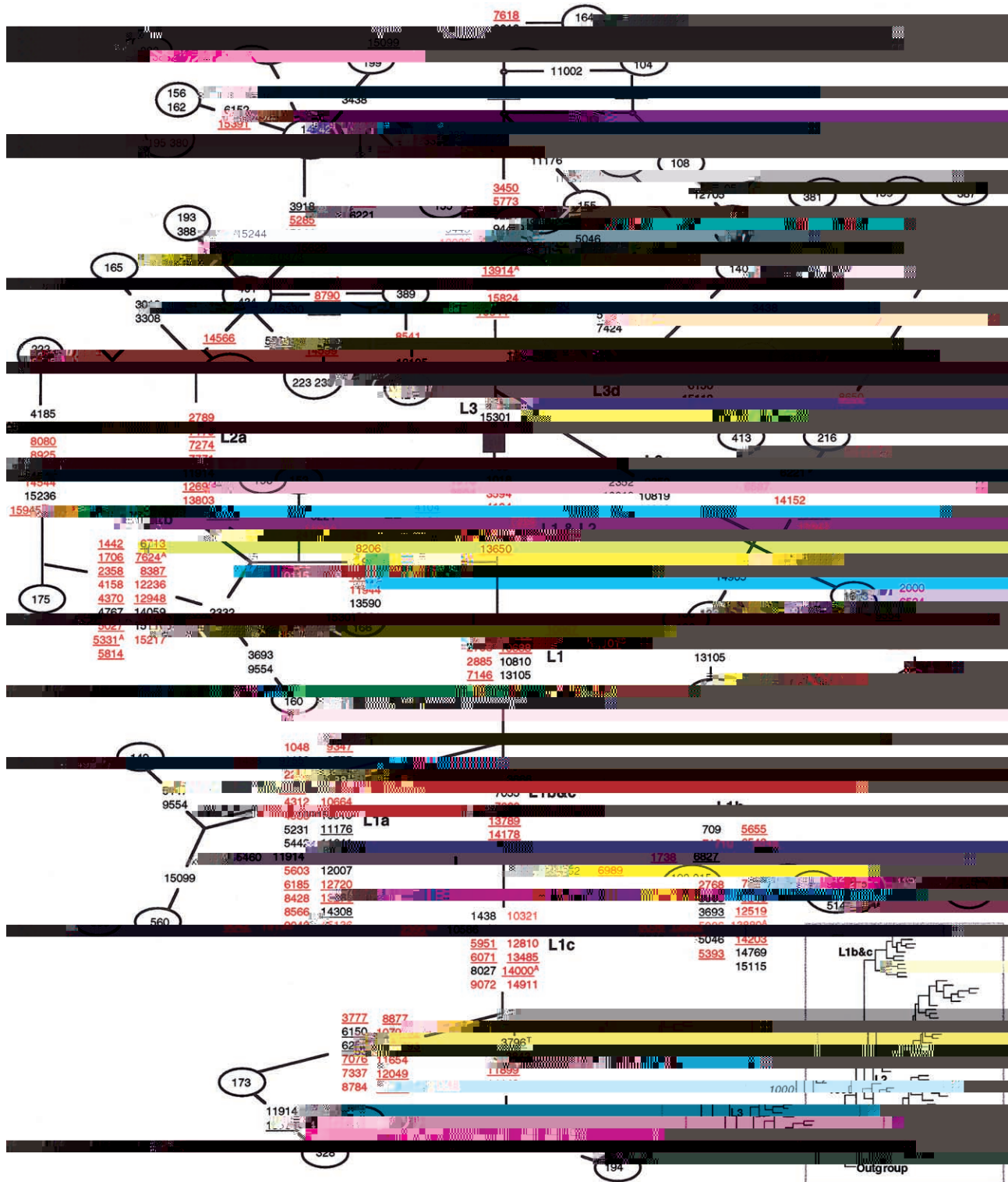
. /001 (e)-350 36.4 97... . (2000)

1995).  
 10398,  
 2001).  
 3e( e216),  
 (d.g.,  
 2001).  
 560  
 636  
 139  
 497  
 323  
 174  
 ( l e2).  
 497  
 1e1,  
 e 1.4.  
 4216  
 same

497  
 ,235  
 1.4).  
 235  
 103  
 750 , 1438 ,  
 4769 , 8860 , 15326  
 (ee l e2),  
 750 ee(l e., e e e)  
 ee 3e e; e1438  
 e 1 1 e; e15326  
 ee 2l e.( e 1 4).  
 e 2706 7028  
 e e e(l e2),  
 e / e ee  
 ( e 3 4; e e  
 / e l e ). e 1706  
 e l e ( e 4).  
 11719  
 e ( l e2) ee e  
 e / e e e e 14766  
 10398 12705 e e e e

The African mtDNA Network

56  
 13 1, 23 2, 20 3  
 1 3 ee e e 1, 1l,  
 1, 3l, 3, 3e, e l e e e  
 ee ( e ) . 1997; e . 1998).  
 e e (2000) e e e  
 e e e e



T 1 2

	(25)	(18)	(13)	(9)	(3)	(226)	(14)	(33)	(47)	1 (13)	2 (23)	3 (20)	(1)	(46)	(42)	7 (8)	(8)	(11)
593				1				1	2									
709		2				3			9	7		1		46	1		8	
750	25	18	13	9	3	218	14	33	47	13	23	17	1	46	42	8	8	11
769										13	23							
930	1										1			16				
1018										13	23							
1438	25	18	13	9	3	208	12	33	47	6	23	20	1	46	42	8	8	11
1598	2						1							1				
1719						2	14	1						1				11
1811						1			46						15			
1888	2		6					1						46				
2158								2							1			
2217						1			5									
2332											4	2						
2352										7		11						
2706	25	18	13	9	3	13	14	31	47	13	23	20	1	46	42	8	8	11
3010				9		73		27			1	1			3			
3027					1	1												
3197															24			
3308										7	1							
3316	2					1					1			1			1	
3394					1	1		2										
3438						1					1	3						
3547		14				2												
3552			12						1									
3591	1					2												
3594										13	23							
3666				1		2				11								
3693										7	1							
3705					2						1				1			1
3796						1				2								
3796		1				3												
3915		1				9						1						
3918		1																
4104										13	23			1	1			
4185						1					2							
4216						2		33			1			46				
4561						1			8						1			
4646						1									5			
4688												1		2				
4767						1					3							
4769	25	18	13	9	3	209	14	33	47	13	23	20	1	46	42	8	8	11
4793						5								1				
4820		17													1			
4824	25									1								
4917							1							46				
5004						11												1
5046										7		1						8
5147						1				1		3		16				
5231									5	2								
5319						1										2		
5426														7	7			
5442						1				2			1					
5460				1		2		2		2	1					1	8	
5581											3					1		
5656								1							4			
5913	1								4									
5999														1	5			
6023		3				2								1	1			
6150										2		1						
6152											2			1	7			
6221											1	11		1				11
6253						1				2								

(continued)

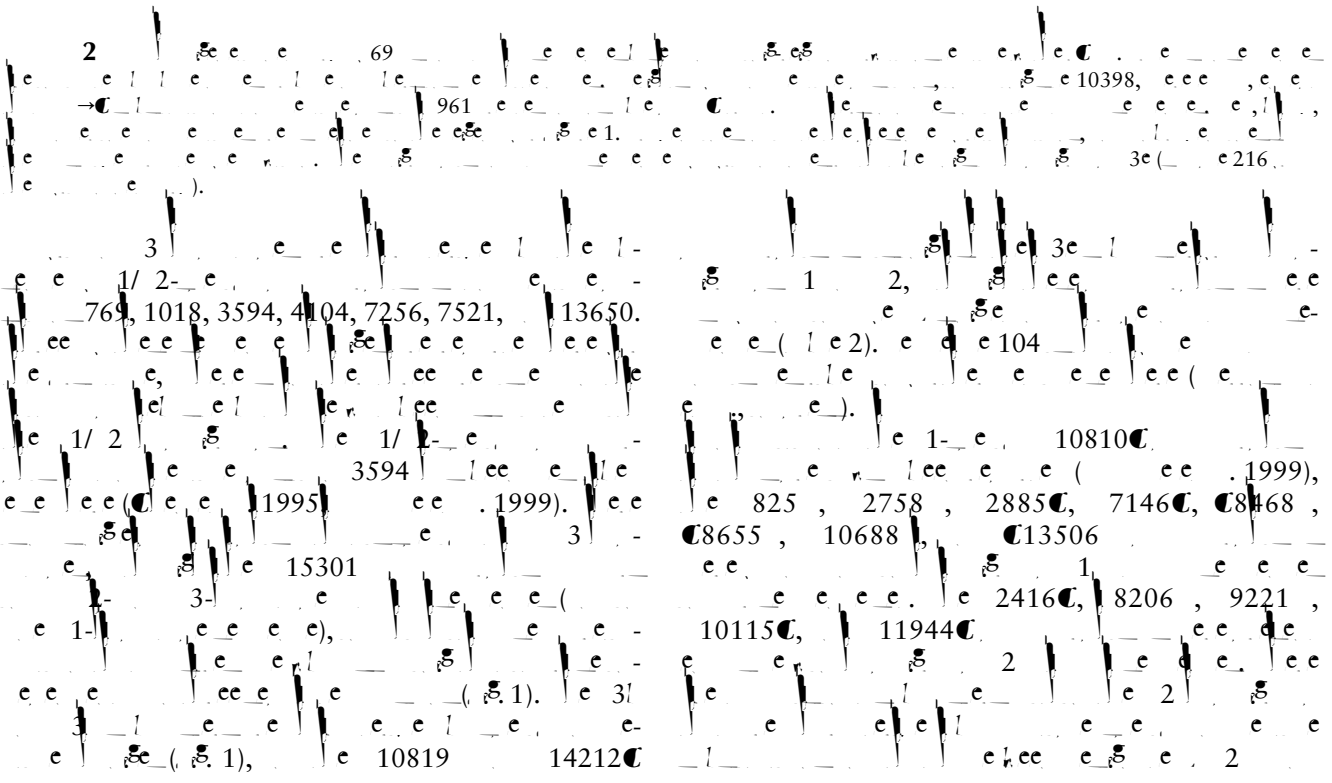
T 1 2 ( )

	(25)	(18)	(13)	(9)	(3)	(226)	(14)	(33)	(47)	1 (13)	2 (23)	3 (20)	(1)	(46)	(42)	4 (8)	(8)	(11)
6260	1			2		1			6							1		
6413		3							1									
6671					1	1			2									
6680					1							2						
6719						1												

60 18219.2(68.8(-1525 0.831 650.54247424) .99 1.) -184.9(2)388.8(1)-(79 2 -1.1525 0.00 ) (60 18219.2(68.8(-1525 0.831 650.542480-2) 0504 9 9(6)-8

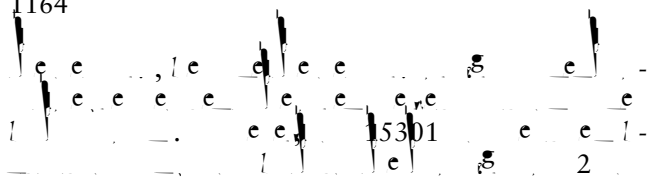




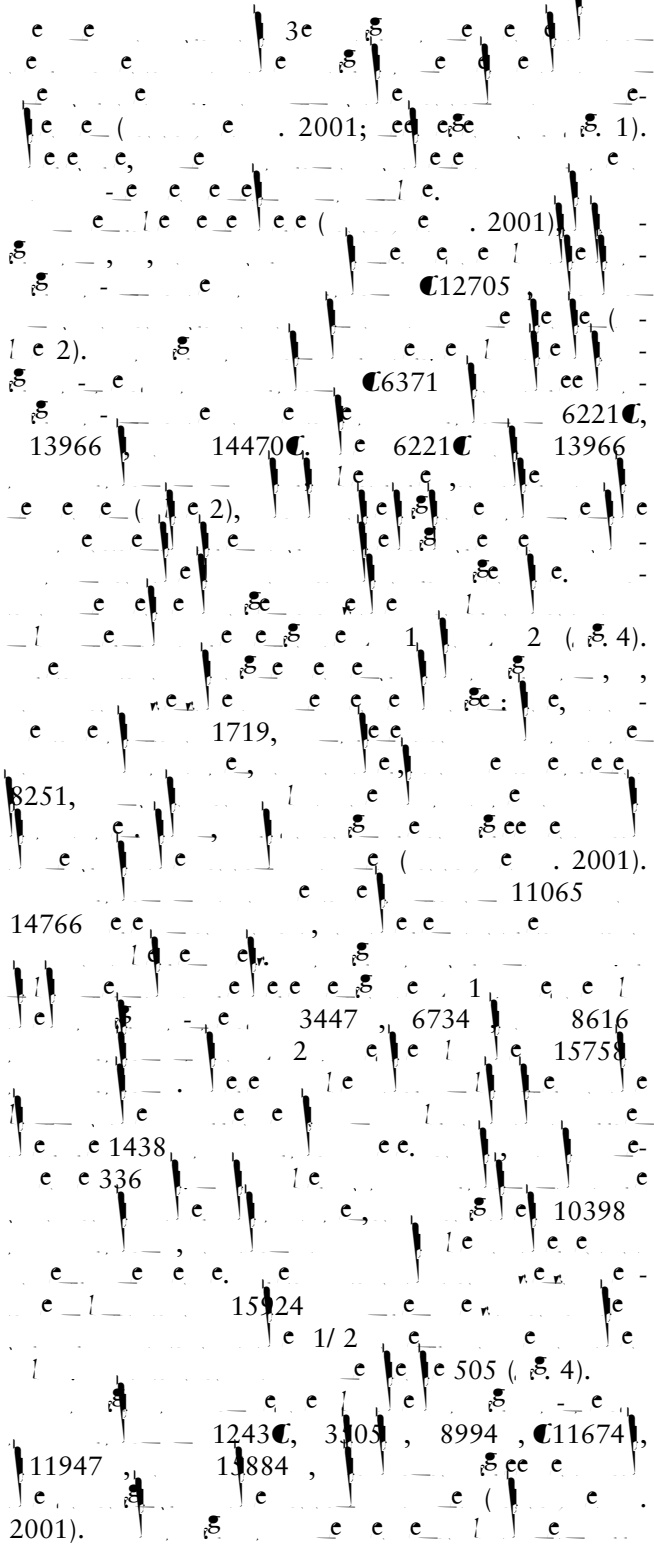








A handwritten musical score on a single staff. The notation includes various note values and rests. The number "12007" is written in the middle of the staff. The word "three" is written at the end of the staff. There are also some markings that look like "g" and "2." interspersed with the notes.



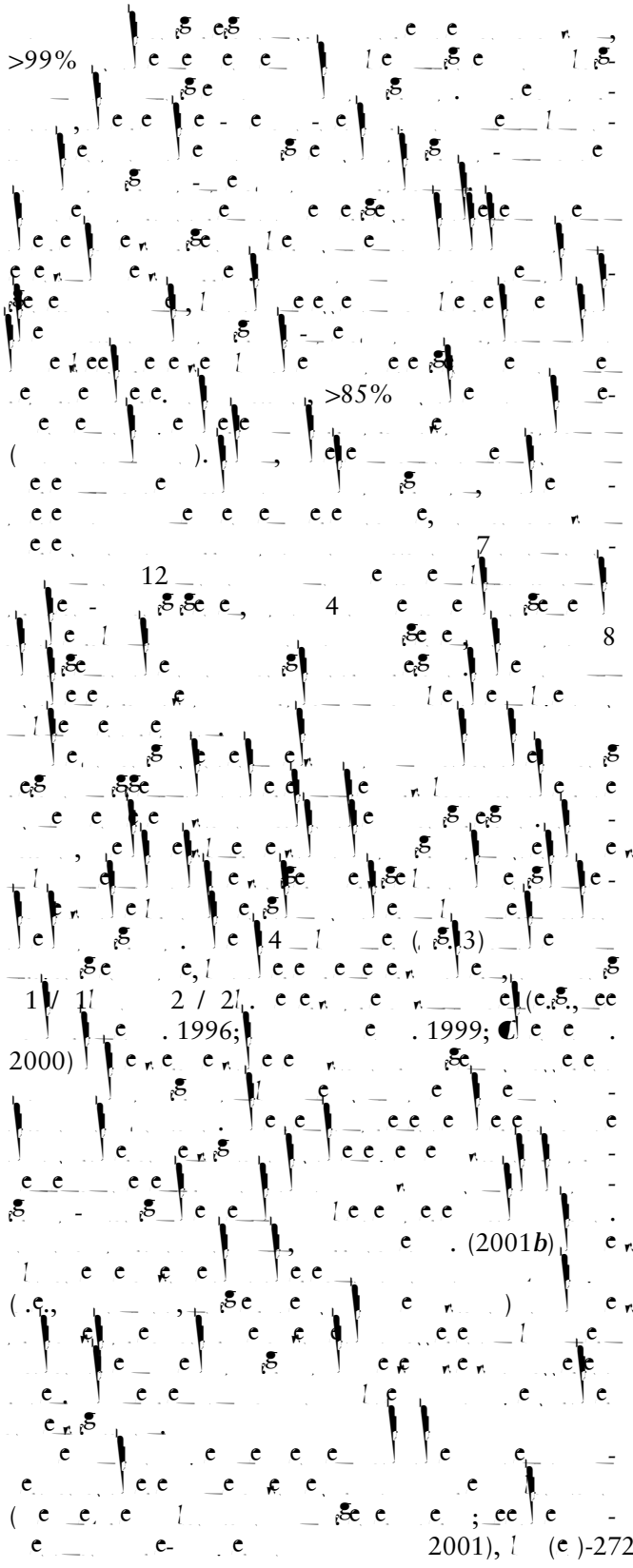
T 13

	AC			
	56	69	435	226
	418	293	906	413
	143 (34%)	25 (10%)	15 (2%)	9 (2%)
$r^2$	8,911	210	105	36
$r^2/C$	-.001	-.181*	.085	.103
$\delta$	7,213	153	105	36
$\delta/C$	-.001	-.147*	-.002	.112

...  $\geq 5\%$  ...  
 ...  $r^2$  ...  $\delta$  ...  
 ... 2001 ... (\*) ...  
 ... 0. ... positive  $\delta$  ...

...  
 ... (1 e 2).  
 ...  
 ... (2001).  
 ... 5773 | 9545 | 11899 ...  
 ... 12630 ...  
 ... 5 1, ...  
 ... 3, 1, 2 (1 2), ...  
 ... (1 e 2).  
 ...





e e2 -21 e e e e e e

... (e.g., ... 2000; ... 2000), ... 1999). ... nuclear ... ( ... 2000; ... 2000). ...

A k i n

(1999) 9:2895-2908  
 (2000) 186:49  
 116 (1996)  
 59, 501, 509 (1995)  
 92:6892-6895 (2000)  
 408:708-713 (1992)  
 331  
 2  
 182:238-246 (2001)  
 2:13 (1999)  
 64:232-249 (1994)  
 36:747-751 (2001)  
 52:160-170 (2001)  
 2132-2135 (1990)  
 183:63-98 (2001)  
 16:37-45 (1999)  
*Homo sapiens sapiens*  
 23:437-441 (1998)  
 62:531-550 (1996)  
 59:

(2001) 68:1315-1320 (1998)  
 62:241-260 (2000)  
 44.4(1-333.4(62:1))-311.2(2)-422.3

ee 130:153 162  
 e (1994)

ee 26:261 271  
 e (1999)

ee 238:211 230  
 e (1992)

403. 416  
 (1997)

ee 61:691 704  
 (2001) e

ee 159:749 756  
 le (2001) e\_r e e e e

ee 18:1425 1434