















# times haplotype observed 1 2 3 4 5 6	9 MHL 429 34 13 4 3 1	429 of the 656 had a unique haplotype with the MHL loci, 34 sample haplotypes were observed	With the 9 loci of the minimal haplotype (MHL) run on 656 samples, 26 samples had the most common type
7 8 9 10	1 1 2	twice in the sample set, 13 sample haplotypes were observed three times, etc.	
12 13 15 26			
HD %DC # HT	0.996644 0.748476 491		Total = 656 samples







September 30, 2006

# times						NST
# unies haplotype	9	11	12	17		
observed	MHL	SWGDAM	PPY	Yfiler	ALL 37	When all 37 loci
1	429	486	505	626	652	(Yfiler + 20 new
2	34	33	34	12	2 📕	Ìoci) are run on
3	13	10	14	(2)		656 samples,
4	4	6	3			only two
5	3	1	2			haplotypes are
6	1	1				observed twice
7	1	2	1			
8	1					
9	2			•	•	These two sets
10	:	1	•	•	•	of three
11	1	•	:	•	•	unseparated
12	:	•	1	•	•	Yfiler types will
13	1	:	•	•	•	be examined
15	:	1	•	•	•	next
26	1					
HD	0.996644	0.998529	0.999064	0.999916	0.999991	
%DC	0.748476	0.824695	0.853659	0.97561	0.996951	Total = 656
# HT	491	541	560	640	654	samples

																NE	Ð
Sı	Jpo	divic	ling	ı U	nre	esc	olve	əd	Yfi	ler	Ha	apl	oty	/pe	es (	(1)	
			Nost	Com	mor		e					•				· /	
Sample Info	DYS 19	DYS 385a/b	DYS 3891	DYS 38911	DYS 390	DYS 391	DYS 392	DYS 393	DYS 438	DYS 439	DYS 437	DYS 448	DYS 456	DYS 458	DYS 635	Н4	
MT97185	14	11,14	13	29	24	11	13	13	12	12	15	19	16	17	23	12	
ZT79333	14	11,14	13	29	24	11	13	13	12	12	15	19	16	17	23	12	
TT51702	14	11,14	13	29	24	11	13	13	12	12	15	19	16	17	23	12	
Loc	cus	MT97	185	ZT79	333	TT5	1702		Lo	cus	MT	97185	ZT	79333	TT	51702	
- DYS	444	12	-	12	_	- 1	2	-	DY	S532		14		14		13	
- DYS	3446	13		- 13			3	-	DY	S533		13		12		13	
DYS	6449	30		30	)	3	1	- 1	DY	8534		15		15		15	_
DYS	6463	24		24	1	2	3	- 1	DY	3540		12		12		12	-
- DYS	485	15		- 15	5	- 1	5	-	DY	8556		11		11		11	-
DYS	495	16		10	,		6	-	DY	S557		15		17		17	
DYS	505	12		12			2	-	DY	S570		16		17		17	
DYS	508			- 11		1	1	-	DY	S576		17		20		18	
DYS	\$520	21		22	2	2	1		DY	S594		9		10		10	
DYS	522	10		12	2	1	1		DY	S643		10		11		10	
I	Eithe	er DYS	522 (	or D	(857	6 wi	ll ful	- ly re	solv	e all	thre	e of t	thes	e sa	mple	s	



Percent Unr	Subdividir with <i>A</i>	ng Common Types Additional Loci	Most common type DYS19 - 14 DYS3891 - 13 DYS3891 - 29 DYS390 - 24
3.96 %	(minimal haploty	/pe)	DYS391 - 11 DYS392 - 13 DYS393 - 13 DYS385 a/b - 11,14
3.50 %	(US haplotype)		
2.89 %	(PowerPlex Y)	A) Identical (no improvement over ) DYS444.446.485.495.505.508.50	<mark>Yfiler</mark> ): 34,540,556
0.46 %	(Yfiler)	<b>B)</b> Subdivide into two groups (2)(1) DYS449,463,520,532,533,557,55	: 70,594,643
All resolved	(18-37 loci)	C) Subdivide into three groups (1)( DYS522 or DYS576	1)(1):
The 26 sat sample pop	mples with the mo ulation with use of	st common type can be resolved in the 17 Yfiler loci plus DYS522 or I	n this DYS576







NIS Mutations Seen in 100 African American											
Father-Son Pairs											
Ethnicity	thnicity Sample locus Allele (father) Allele (child) Comments										
African American	65B	Y GATA H4	11	9	loss of 2 repeats						
African American	46B	DYS389I and DYS389II	14,30	13,29	loss of 1 repeat						
African American	58B	DYS389I and DYS389II	14,32	15,33	gain of 1 repeat						
African American	18B	DYS390	24	23	loss of 1 repeat						
African American	90B	DYS456	15	16	gain of 1 repeat						
African American	16B	DYS458	18	19	gain of 1 repeat						
African American	39B	DYS458	18	19	gain of 1 repeat						
African American	16B	DYS635	23	22	loss of 1 repeat						
African American	47B	DYS635	22	23	gain of 1 repeat						
African American	72B	DYS635	22	23	gain of 1 repeat						
African American	22B	DYS448	19,20	19,20	Duplication						
African American	72B	DYS448	19,20	19,20	Duplication						
African American	97B	DYS448	17.2,19,20	17.2,19,20	Triplication *						
African American	33B	DYS389I and DYS389II			Deletion *						
African American	33B	DYS439			Deletion *						







September 30, 2006









