





EUROFORGEN











- BUT how can we apply this in practice?
- EUROFORGEN-NoE is funded by the European Con within the 7th Framework Programme







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NO-Pore	on Mivtu	ree for	Simula	ad Profiles	
		103 101	Sintula	leu i iomes).
bability by L	ocus of A Par	ticular Num	ber of Allele	es Being Observe	d
Table 1					
Table 1 The pro	hability of observing	a given number of :	lleles in a two-pers	on mixtures	
for sim	ulated profiles at the	SGM ^{+TM} loci	meres in a two-pers	on mixtures	
Loci	No. of alle	les			
Loci		-	-		
	1	2	3	4	
D3	0.011	0.240	0.559	0.190	
vWA	0.008	0.194	0.548	0.250	
D16	0.016	0.287	0.533	0.164	
D2	0.003	0.094	0.462	0.441	
D8	0.011	0.194	0.521	0.274	
D21	0.007	0.147	0.505	0.341	
D18	0.003	0.095	0.472	0.430	
D19	0.020	0.261	0.516	0.203	
THO	0.016	0.271	0.547	0.166	
FGA	0.003	0.116	0.500	0.381	
	007) Towarda unda	rotanding the off	act of uncortainty	in the number of contrib	utore

Thre	e-Pe	rson	Mix	ture	<mark>s</mark> for	Sin	nulated
Profile	S' Pro	hahilit	v hv L		f A Pa	rticula	r Number o
						1	
	Table 2	Allele	es pei		servec	1	
	Table 2 The pro	bability of	observing a	given num	ber of allel	es in a thn	e-person
	mixture	s for simulat	ed profiles a	at the SGM ⁺	TM loci	es in a un	e-person
	Loci	No. of alleles showing					
		1	2	3	4	5	6
	D3	0.000	0.053	0.366	0.463	0.115	0.002
	v WA	0.000	0.037	0.285	0.468	0.194	0.016
	D16	0.001	0.086	0.397	0.411	0.100	0.005
	D2	0.000	0.008	0.104	0.385	0.393	0.110
	D8	0.001	0.041	0.258	0.436	0.236	0.029
	D21	0.000	0.023	0.192	0.428	0.302	0.055
	D18	0.000	0.007	0.109	0.392	0.396	0.096
	D19	0.003	0.078	0.352	0.401	0.152	0.014
	FGA	0.001	0.074	0.395	0.439	0.088	0.002
	FGA	0.000	0.012	0.144	0.424	0.546	0.074









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Norwegian Institute of Public Health EUROFORGEN Establishing the trend when increased numbers of contributors are considered LR< No Pr/Ha Contributors under Hd .02 50 1 .24 625 26 15625 2 390625 9765625 Conditioned with 1 contributor under Hp (we vary number of contributors under Hd) The LR minimises when the number of contributors under Hd=1 We can easily demonstrate this. This is also the fairest calculation

for the defence proposition. The probability PrHd is maximised

when the number of contributors is minimised.





































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Effect of degradation	C Network of Excellence
	Reference profile
	<u>42 days</u> degradation
	<u>62 days</u> degradation
	84 days degradation
CURPTON CONTRACTOR CONTRACTON CONTRACTON CONTRACTON CONTRACTON CONT	147 days degradation













































- The weight of the evidence should be expressed following likelihood ratio principles.
- The use of appropriate software is highly recommended to avoid hand-calculation errors.
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