

In Silico Genotyping: Determining Genotypes in Pedigrees by Inference

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Supplementary Table 2. Summary of chi-squares in 1000 simulations.

	# Families	H ²	Average Chi-square				Median Chi-square			
			Original	Inferred	Ratio A*	Ratio B*	Original	Inferred	Ratio A	Ratio B
CEPH pedigrees in Table 1 of main manuscript	1	0.5	NA	40.79			NA	40.17		
...everyone genotyped	1	0.5	49.85	49.85			49.23	49.23		
3-generation pedigrees with 8 offspring each										
...grandparents and parents genotyped	10	0.5	NA	35.80			NA	35.09		
...grandparents, parents and one child genotyped	10	0.5	NA	44.07			NA	43.65		
...everyone genotyped	10	0.5	NA	45.44			NA	45.19		
3-generation pedigrees with 8 offspring each										
...grandparents and parents genotyped	100	0.05	6.43	28.56	4.44	1.77	5.38	27.61	5.13	1.78
...grandparents, parents and one child genotyped	100	0.05	9.86	34.47	3.50	1.92	8.52	32.96	3.87	1.93
...everyone genotyped	100	0.05	35.63	35.63			34.33	34.33		
...everyone genotyped	43	0.05	16.18	16.18			15.52	15.52		
...everyone genotyped	50	0.05	17.99	17.99			17.10	17.10		
Nuclear families with 3 offspring each										
...parents and one child genotyped	500	0.05	14.14	33.12	2.34	1.35	13.41	32.19	2.40	1.37
...parents and two children genotyped	500	0.05	27.18	38.00	1.40	1.19	26.34	37.07	1.41	1.18
...everyone genotyped	500	0.05	39.72	39.72			39.00	39.00		
...everyone genotyped	300	0.05	24.61	24.61			23.54	23.54		
...everyone genotyped	400	0.05	32.05	32.05			31.54	31.54		
Nuclear families with 2 offspring each										
...parents and one child genotyped	500	0.05	14.00	23.35	1.67	1.12	13.41	22.80	1.70	1.14
...everyone genotyped	500	0.05	27.10	27.10			26.33	26.33		
...everyone genotyped	375	0.05	20.93	20.93			19.94	19.94		

*Ratio A = relative efficiency versus "Design A"

*Ratio B = relative efficiency versus "Design B"