A

No relationship detected

Estimated degree of relationship

Degree of relationship

No relationship known

B

Number of pairs

6,930

Degree of relationship

C

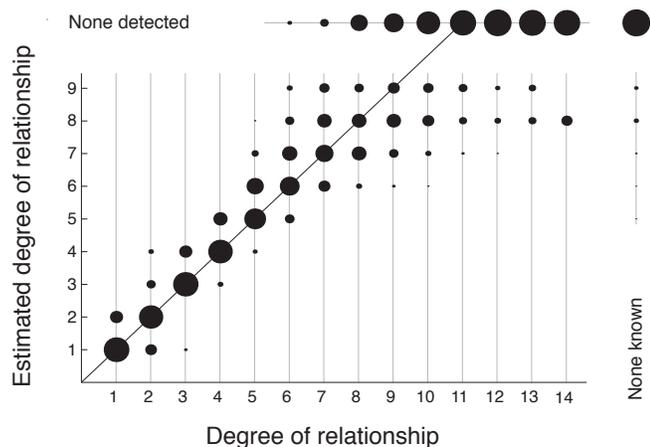Estimated power to detect a relationship

maximum theoretical power

Estimated degree of relationship

Figure S1

A. ERSA + GERMLINE, $\alpha = 0.05$

None detected

Estimated degree of relationship

9 8 7 6 5 4 3 2 1

Degree of relationship

1 2 3 4 5 6 7 8 9 10 11 12 13 14

None known

B. ERSA + GERMLINE, $\alpha = 0.001$

None detected

Estimated degree of relationship

9 8 7 6 5 4 3 2 1

Degree of relationship

1 2 3 4 5 6 7 8 9 10 11 12 13 14

None known

C. ERSA + BEAGLE, $\alpha = 0.05$

None detected

Estimated degree of relationship

9 8 7 6 5 4 3 2 1

Degree of relationship

1 2 3 4 5 6 7 8 9 10 11 12 13 14

None known

D. GBIRP, LOD > 2.34

None detected

Estimated degree of relationship

9 8 7 6 5 4 3 2 1

Degree of relationship

1 2 3 4 5 6 7 8 9 10 11 12 13 14

None known

E. RELPAIR, likelihood ratio > 10

None detected

Estimated degree of relationship

9 8 7 6 5 4 3 2 1

Degree of relationship

1 2 3 4 5 6 7 8 9 10 11 12 13 14

None known
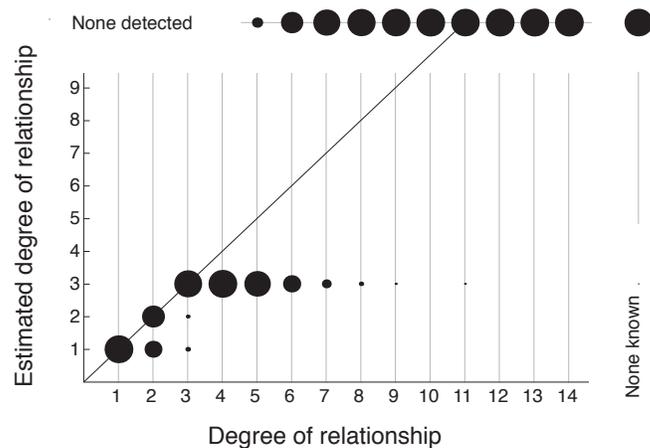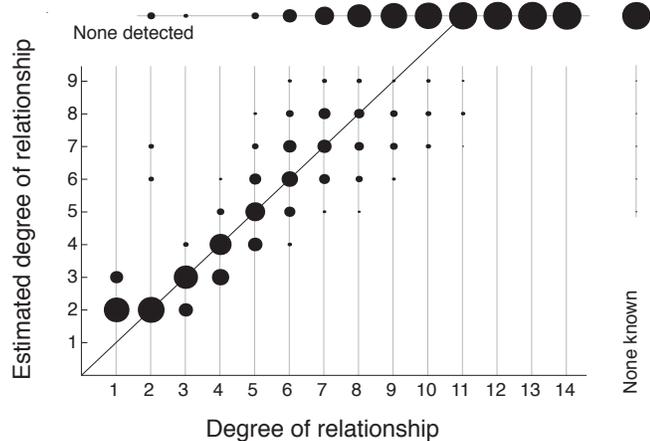
F. Number of pairs in each relationship class

6,930

Number of pairs
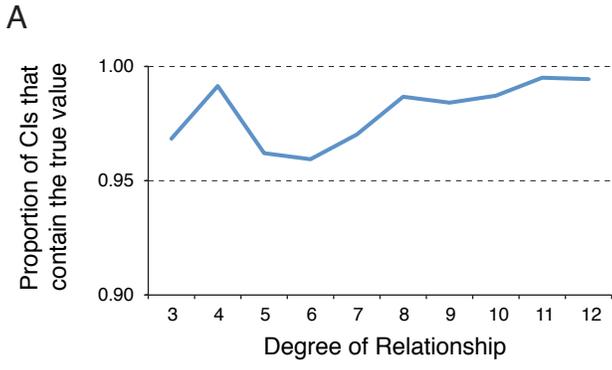
500 400 300 200 100 0

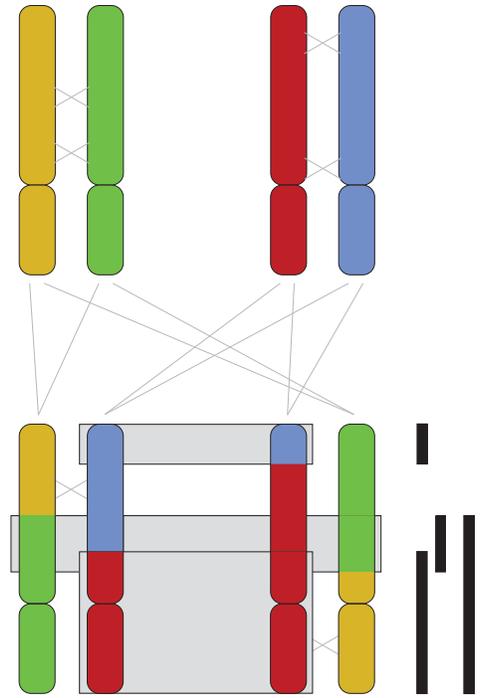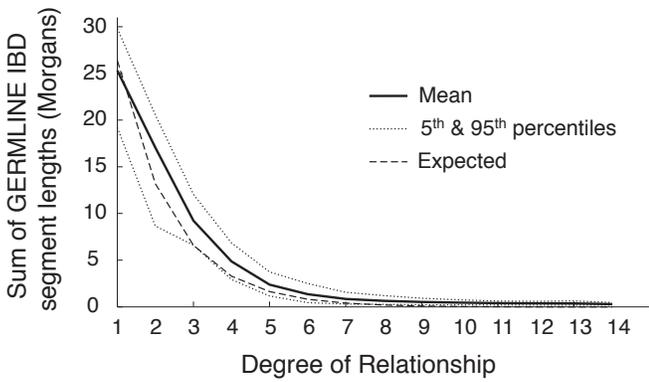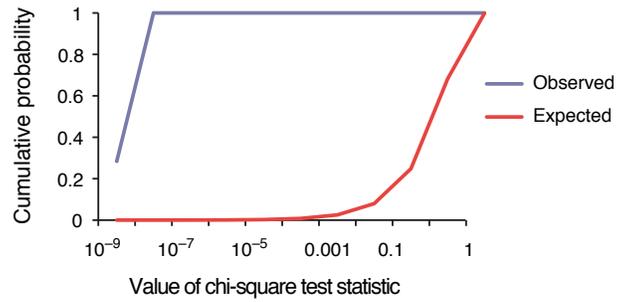Degree of relationship

1 2 3 4 5 6 7 8 9 10 11 12 13 14 UNK
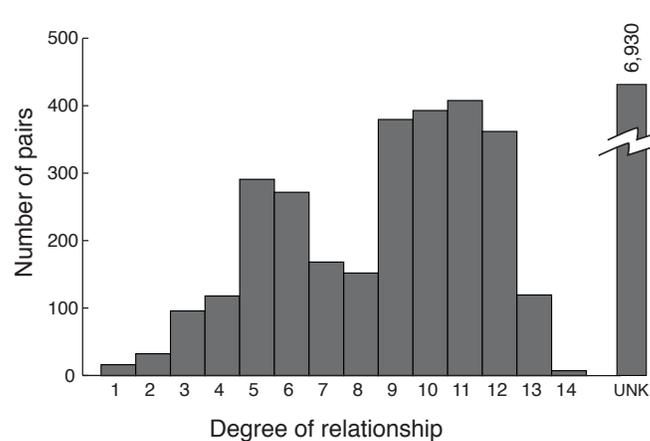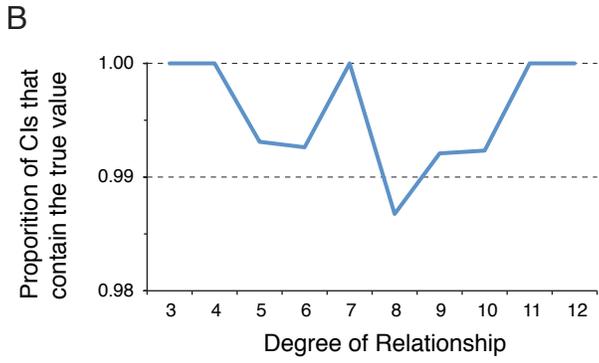
Figure S2

Figure S3

Figure S5

Figure S4

Figure S6