

The values of the correlations between the representative measurements for random mating, which may be called the genetic correlations, are given in the accompanying table :—

Generations.	Half 2nd Cousin.	Half 1st Cousin.	Half Brother.	Ancestral Line.	Brother.	1st Cousin.	2nd Cousin.
Own	$\frac{1}{64}$	$\frac{1}{16}$	$\frac{1}{4}$	1	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{32}$
Father's	$\frac{1}{128}$	$\frac{1}{32}$	$\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{16}$	$\frac{1}{64}$
Grandfather's	$\frac{1}{256}$	$\frac{1}{64}$	$\frac{1}{16}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{32}$	$\frac{1}{128}$
Great-grandfather's	$\frac{1}{512}$	$\frac{1}{128}$	$\frac{1}{32}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{64}$	$\frac{1}{256}$
Great-great-grandfather's	$\frac{1}{1024}$	$\frac{1}{256}$	$\frac{1}{64}$	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{128}$	$\frac{1}{512}$