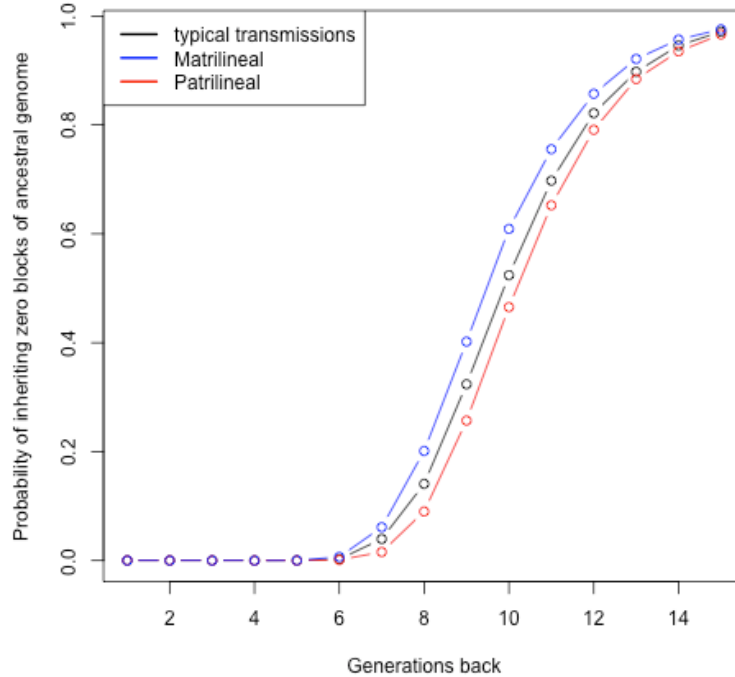


Identifying Autosomal Ancestors & Autosomal Relatives
= Limited to the Time Frame of Written Genealogical Records (in Central Europe) =

Probability that one has inherited zero “0.05 % blocks” of one’s DNA from an ancestor.



Source: G. Coop “How much of your genome do you inherit from a particular ancestor?” *gcbias Blog*, 2013.
<http://gcbias.org/2013/11/04/how-much-of-your-genome-do-you-inherit-from-a-particular-ancestor/>

Expected % of shared/identical DNA with an autosomal relative.

relationship to another person (# of generations to the common ancestor)	average % of shared/identical DNA expected (non-inbred population)
parent or sibling (1)	50
uncle / aunt / half-sibling (1)	25
cousin / half-uncle/aunt (2)	12.5
2 nd cousin (3)	3.13
2 nd cousin - once removed	1.56
3 rd cousin (4)	0.78
4 th cousin (5)	0.20
5 th cousin (6)	0.05
6 th and higher cousins	0.05, if shared/identical DNA inherited

} Relatives whose common ancestor with one lived up to 5 generations ago are correctly identified.

} 6th and higher cousins likely do not share DNA, and are undistinguishable from a 5th cousin.

- Relative Finder (23andMe) and Family Finder (FTDNA) allow:**
- discover one’s biological identity, if one was adopted
 - reconnect with close relatives, or their descendants, with whom contact was lost during recent historical events

Source: p. 15 of D. Schweitzer “Genetic-Genealogy-Talk-201104.pdf” *FigShare*, 2012.
<http://dx.doi.org/10.6084/m9.figshare.103680>