# Coefficient of Relatedness

**English:** *Coefficient of relatedness, coefficient of relationship*
**Czech:** *koeficient příbuznosti*

Coefficient of relatedness refers to probability that two related individuals have inherited a particular allele of the single locus / gene from their common ancestor (such allele is referred to as IBD - identical by descent). The coefficient is calculated as follows

$$r = \left(\frac{1}{2}\right)^n$$

where n represents the number of steps in genealogy.



## Links

### Related articles

- Coefficient of Inbreeding