**Inbreeding – Cause and Consequence**

**Summary**

Inbreeding is a type of offspring production that the parents are having a blood relationship.

The offspring will have a higher rate of getting a pair of homozygous alleles with the blood related parents. If their parents are genetic carrier of the same disease, their children will have the possibility of getting the disease.

Possibility of Genetic Disorder occur is 25%-50% more if it is inbreeding instead of normal breed. The distinguishment of X-linked traits and autosome matters.

The possibility of a person finding a partner who carries the same genetic disease is 1‱ to below 10%. A person has 4 - 5 types of recessive disease gene on average. The death rate of inbreeding offspring dying before the age of 20 is 8.1%.

Coefficient of Inbreeding: Calculated by counting all the individuals on each routes and sum up.

COI formula for Autosome: