

QUANTITATIVE GENETICS

Title Coefficient of inbreeding – IntrogressionPurpose:

Help students learn how to calculate coefficient of inbreeding under Introgression, using IBD concept.

Goal:

Apply the concept of identity by descent (IBD) to determine coefficients of inbreeding and kinship in a regular system of inbreeding.

Keywords:

Coefficient of Kinship, Coefficient of Inbreeding, Regular Systems of Plant Breeding

ALA: How to represent pedigrees in diagrams in introgressing an allele.

1. Diagram a pedigree for introgressing an allele from an unrelated line into a recipient line using backcrossing.
2. Determine the coefficients of inbreeding and relationships for all members of the pedigree.