



HAL
open science

Breeding Strategies

Eduardo D. Munaiz

► **To cite this version:**

| Eduardo D. Munaiz. Breeding Strategies. Master. France. 2023. hal-04573175

HAL Id: hal-04573175

<https://hal.science/hal-04573175>

Submitted on 16 May 2024

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

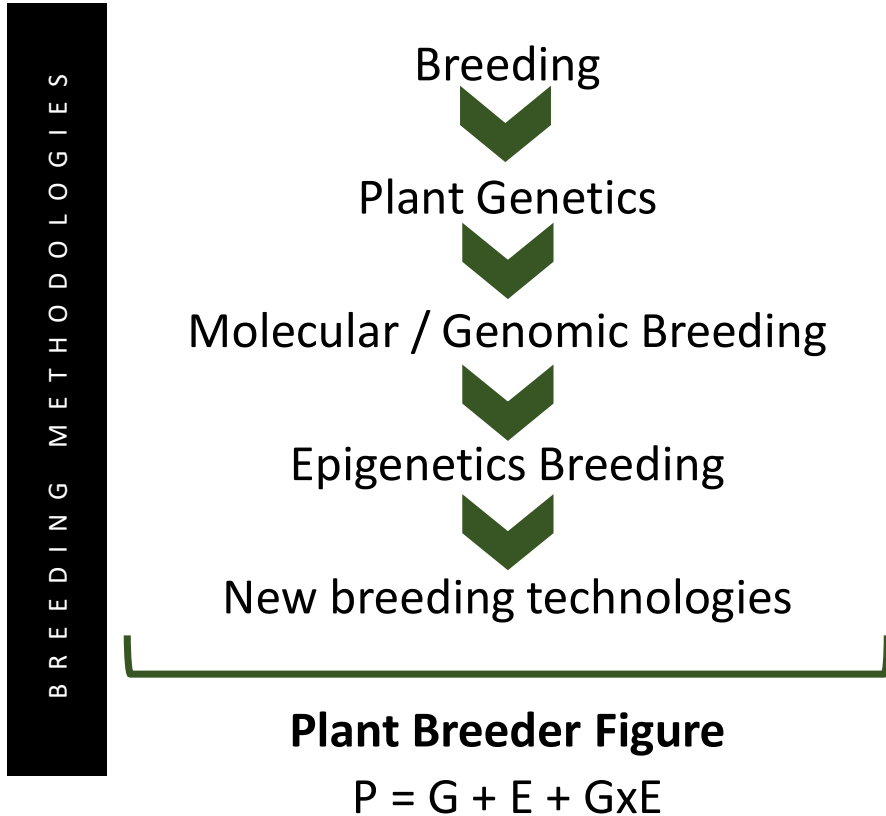
Breeding Strategies

MS in Plant Breeding

Dr. Eduardo D. Munaiz
Associate Professor



➤ Conceptualization of the Content of the Course

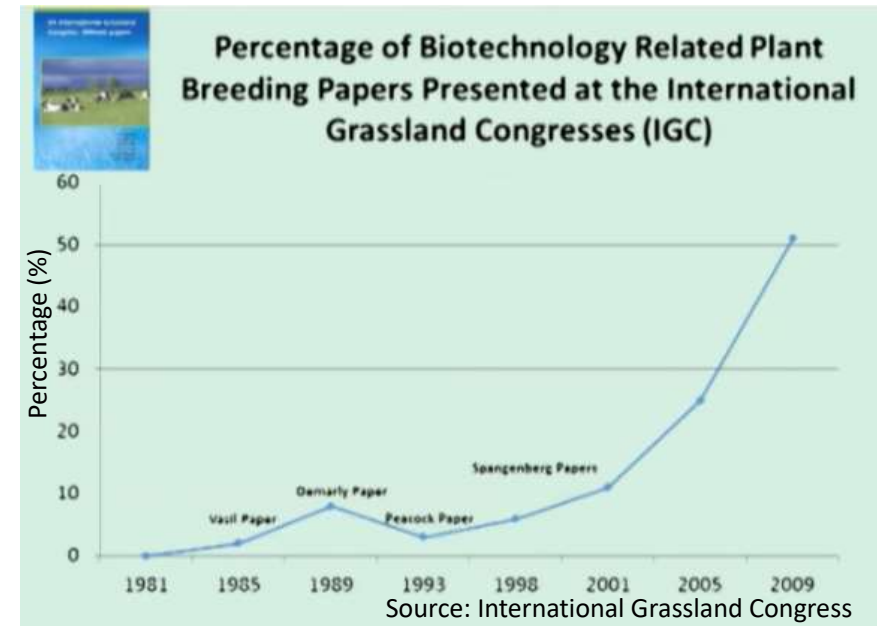


P= Phenotype

G= Genotype

E= Environment

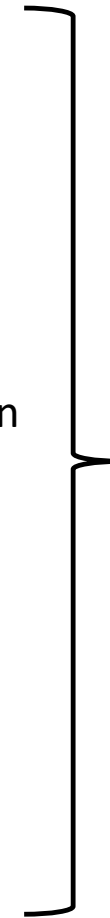
GxE= G by E interaction



➤ Breeding Strategies Guideline

General Content

1. Genetics in Plant breeding
2. Breeding Methods Self-pollinated species
3. Breeding Methods Cross-pollinated species
4. Genetic gain and genotype by environment interaction
5. Hybrid breeding and selection theory
6. Molecular breeding
7. Genomics in breeding
8. New breeding technologies



9. Breeding strategies for abiotic and biotic stresses

10. Breeding strategies for disease resistance

11. Breeding strategies for yield increase