



## **Plant Breeding**

Plant Breeding, regarded both as an art and as a science, is presented in the light of its importance in ensuring food security. The main goal is to train students on the basic principles of reproduction and laboratory techniques for the creation of new plant types. Its basic principles and concepts are analyzed, its goals are formulated, the main steps of an improvement program are described. The selection methods used in Plant Breeding are outlined, classified according to their applications and the role of modern molecular techniques in facilitating and accelerating breeding programs are highlighted. The importance of plant genetic resources conservation is highlighted under the prism of Plant Breeding.