

1. Record Nr.	UNINA9910688259603321
Titolo	Model Organisms in Plant Genetics // Ibrokhim Y. Abdurakhmonov
Pubbl/distr/stampa	London : , : IntechOpen, , 2022
Descrizione fisica	1 online resource (112 pages) : illustrations
Disciplina	616.0
Soggetti	Medical genetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	Model plants are required for research when targeted plant species are difficult to study or when research material is unavailable. Importantly, knowledge gained from model plants can be generally translated to other related plant species because many key cellular and molecular processes are conserved and regulated by 'blueprint' genes inherited from a common ancestor. Model Organisms in Plant Genetics addresses characteristics of model plants such as Arabidopsis, moss, soybean, maize, and cotton, highlighting their advantages and limitations as well as their importance in studies of plant development, plant genome polyploidization, adaptive selection, evolution, and domestication, as well as their importance in crop improvement.