



# Alien Introgression in Wheat [ Cytogenetics, Molecular Biology, and Genomics /

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Springer

Life sciences

Plant genetics

Plant breeding

Life Sciences

Plant

Breeding/Biotechnology

Plant Genetics & Genomics

Monografía

This book provides an overview of the latest advancements in the field of alien introgression in wheat. The discovery and wide application of molecular genetic techniques including molecular markers, in situ hybridization, and genomics has led to a surge in interspecific and intergeneric hybridization in recent decades. The work begins with the taxonomy of cereals, especially of those species which are potential gene sources for wheat improvement. The text then goes on to cover the origin of wheat, breeding in connection with alien introgressions, and the problems of producing intergeneric hybrids and backcross derivatives. These problems can include crossability, sterility, and unequal chromosome transmission. The work then covers alien introgressions according to the related species used, as well as new results in the field of genomics of wild wheat relatives and introgressions

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**Contenido:** Taxonomic treatments of Triticeae and the wheat genus *Triticum* -- Origin and evolution of wheat and related Triticeae species -- Wheat breeding {u2013} current status and bottlenecks -- The crossability of wheat with rye and other related species {u2013} kr genes -- Gametocidal genes -- The mode and regulation of chromosome pairing in wheat-alien hybrids (Ph genes, an updated view) -- Introgressions between wheat and rye -- Alien introgressions from wild *Triticum* species: *T. monococcum*, *T. urartu*, *T. turgidum*, *T. dicoccon*, *T. dicoccoides*, *T. carthilium*, *T. araraticum*, *T. timopheevii* and *T. Miguschovae* -- Wheat {u2013} *Aegilops* introgressions -- *Aegilops tauschii* introgressions in wheat -- Wheat-perennial Triticeae introgressions: major achievements and prospects -- Wheat - barley hybrids and introgression lines -- Genomics of wild relatives and introgressions

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