

MECHANISMS OF GENOME CHANGES AND GENE EXRESSION IN PLANT HYBRID POLYPLOIDS

Summary

Ployploidy is created by multiplication of a single genome or combination of different genomes (allopolyploids). This paper reviews literature data obtained from a study of synthetic plant allopolyploids. The available data shed light on: dynamic and stochastic changes in genome structure and function,

genome and sequences elimination, changes in gene control systems and expression, novel activation and gene repression, epigenetic changes, transposons activation and RNA role in gene regulation.