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Barley

Genetics, Biochemistry, Molecular Biology and Biotechnology

Edited by P R Shewry, Long Ashton Research Station, UK

The applications of molecular biology and molecular genetics have had a major impact on our understanding of the barley plant, and have opened the way to the application of biotechnology to manipulate and improve yield, quality and agronomic characters. This major book reviews our current knowledge of the genetics, biochemistry and molecular biology of barley and how biotechnology can be used to improve crop yields and their quality for feed or in the brewing industry. The book is divided into six main sections covering: origin, evolution and wild relatives; basic genetics; analysis of metabolism and development; seed development, composition, germination and utilization; pathogen resistance; and biotechnology. It will therefore represent a major reference volume for research workers in cereal chemistry, agronomy and plant biotechnology, who are interested in either the barley crop or in barley as a model biological system.

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