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In this book we bring together the most up-to-date information on developments, both basic and applied, that already have or are expected to impact the field of ornamental breeding. These include classical and molecular techniques, traditional and high-throughput approaches and future trends. Since not only professional scientists, but also thousands of future scientists/students as well as amateur breeders around the world contribute heavily to the field of ornamental breeding, an introductory section dealing with the basics of molecular and classical genetics and the evolution of floral diversity is included. This should enable the reader to bridge the gap between traditional and molecular genetics. Classical approaches to the creation/selection of genetic variability, including mutation and tissue culture-aided breeding, are presented. Processes affecting ornamental and agronomic traits at the molecular level are delineated, along with an in-depth analysis of developments in the protection of intellectual property rights. The thoughts and strategies of molecular and classical geneticists, which are not always complementary or even compatible, are presented side by side in this book, and will serve to spark the imaginations of breeders as well as students entering the exciting world of state-of-the-art ornamentals.