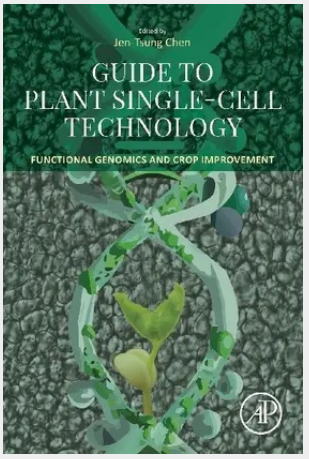
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Guide to Plant Single-Cell Technology

Functional Genomics and Crop Improvement



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Guide to Plant Single-Cell Technology: Functional Genomics and Crop Improvement summarizes the current status of single-cell technology in plants involving food and energy crops. Presenting methods and applications of emerging high-throughput technologies performed using the single-cell platform it includes an emphasis on single-cell RNA sequencing and eventually towards single-cell omics, which are highly complementary and effective for profiling the plant cell subject to either environmental factors or pathogenic threats. These technologies can advance the exploration of plant physiology as well as precision crop breeding for future anti-stress and high-yield plants and achieve sustainable agriculture. The book covers crop improvement and breeding strategies involving single-cell technology to produce future stress-tolerant and high-yield plants, which have better performances on growth, and development to achieve enhanced production of foods and biomass. Guide to Plant Single-Cell Technology: Functional Genomics and Crop Improvement will be a valuable reference resource for academics and researchers in plant and crop sciences.

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