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biosynthesis; 1.3 Gibberellin signalling; 1.4 Physiological responses to gibberellins; References; Chapter 2: Gibberellin biosynthesis in higher plants; 2.1 Introduction; 2.2 Synthesis of ent-kaurene; 2.3 Reactions catalysed by cytochrome P450 mono-oxygenases; 2.4 Reactions catalysed by 2-oxoglutarate-dependent dioxygenases; 2.5 Sites of gibberellin biosynthesis
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4.8 Monitoring intra- and intercellular gibberellin concentration
4.9 Conclusion: new aspects for gibberellin transport; Acknowledgements; References; Chapter 5: Gibberellins in fungi, bacteria and lower plants: biosynthesis, function and evolution; 5.1 Introduction; 5.2 Gibberellin biosynthesis in fungi; 5.3 Gibberellin biosynthesis in bacteria; 5.4 Gibberellin biosynthesis and signalling components in lower plants; 5.5 Concluding remarks; References; Chapter 6: Gibberellin hormone signal perception: down-regulating DELLA repressors of plant growth and development; 6.1 Introduction
6.2 DELLA proteins are repressors of gibberellin responses
6.3 Gibberellin signalling lifts DELLA repression of gibberellin responses; 6.4 The gibberellin receptor GID1 (GA-INSENSITIVE DWARF1); 6.5 The structural requirements for gibberellin binding by GID1; 6.6 The structural requirements for the GID1-DELLA protein-protein interaction; 6.7 The DELLA destruction model: negative regulation of DELLA repressors by SLY1/GID2 and the ubiquitin-proteasome pathway; 6.8 Regulation of DELLA by phosphorylation and O-GlcNAc modification; 6.9 Evidence for gibberellin-independent DELLA regulation
6.10 Evidence for gibberellin signalling without DELLA destruction
6.11 Concluding remarks; Acknowledgements; References; Chapter 7: DELLA Proteins: Master Regulators of Gibberellin-Responsive Growth and Development; 7.1 Introduction; 7.2 DELLAs regulate downstream gibberellin signalling; 7.3 Gibberellins relieve DELLA-growth repression by targeting their degradation; 7.4 Functional diversification of DELLA genes; 7.5 DELLA activity invokes rapid changes in the transcriptome; 7.6 DELLA proteins activate transcription
7.7 DELLAs regulate transcription by physical interaction with transcriptional regulators
