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ISBN: 978-3-030-61152-1

Plant Growth Regulators pp 275–303

Strigolactones: A Novel Carotenoid-Derived Phytohormone – Biosynthesis, Transporters, Signalling, and Mechanisms in Abiotic Stress

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Chapter | <u>First Online: 26 March 2021</u> **434** Accesses | **3** Citations | **3** Altmetric

Abstract

Phytohormones (PHs) play central roles in improving the survival ability of plants to various abiotic stresses. The major PHs are auxins, abscisic acid (ABA), gibberellins (GAs), jasmonic acid (JA), salicylic acid (SA), ethylene (ET), cytokinin (CK), and brassinosteroids (BRs), and nitric oxide (NO), polyamines (PA), and plant peptide are also considered as PHs. Besides them, newly identified PHs are strigolactones (SLs) and karrikins (KARs). Among them, SLs have been categorized as novel carotenoid-derived PHs, although they were primarily