

1. Record Nr.	UNINA9910148741803321
Titolo	Plant specialized metabolism : genomics, biochemistry, and biological functions // edited by Gen-ichiro Arimura, Tokyo University of Science, Tokyo, Japan, and Massimo Maffei, University of Turin, Torino, Italy
Pubbl/distr/stampa	Boca Raton : , : Taylor & Francis, , [2017] ©2017
ISBN	1-315-35337-7 1-315-37045-X 1-4987-2629-1
Descrizione fisica	1 online resource (389 pages) : illustrations
Disciplina	572/.42
Soggetti	Plants - Metabolism Plant metabolites - Synthesis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Chapter 1. Introduction to plant specialized metabolism / Gen-ichiro Arimura and Massimo Maffei -- Chapter 2. Site of synthesis of specialized metabolites / Massimo Maffei -- Chapter 3. Biodiversity and chemotaxonomic significance of specialized metabolites / Francesca Barbero and Massimo Maffei -- Chapter 4. Biosynthesis and roles of salicaceae salicylates / Riitta Julkunen-Tiitto and Virpi Virjamo -- Chapter 5. Alkaloid biosynthesis and regulation in plants / Tsubasa Shoji -- Chapter 6. Pinaceae alkaloids / Virpi Virjamo and Riitta Julkunen-Tiitto -- Chapter 7. Biosynthesis, regulation, and significance of cyanogenic glucosides / Lasse Janniche Nielsen and 5 others -- Chapter 8. Glucosinolate biosynthesis and functional roles / Tomohiro Kakizaki -- Chapter 9. Biosynthesis and regulation of plant volatiles and their functional roles in ecosystem interactions and global environmental changes / Gen-ichiro Arimura, Kenji Matsua, Takao Koeduka, and Jarmo K. Holopainen -- Chapter 10. Microbial volatiles and their biotechnological applications / Birgit Piechulla and Marie Chantal Lemfack -- Chapter 11. Volatile glycosylation : a story of glycosyltransferase for volatiles: glycosylation determining the

boundary of volatile and nonvolatile specialized metabolites / Eiichiro Ono and Toshiyuki Ohnishi -- Chapter 12. Plant secondary metabolites as an information channel mediating community-wide interactions / Andre Kessler and Kaori Shiojiri -- Chapter 13. Metabolic engineering and synthetic biology of plant secondary metabolism / Dae-Kyun Ro, Yang Qu, and Moonhyuk Kwon.

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