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Titolo	Functions and biotechnology of plant secondary metabolites [[electronic resource] /] / edited by Michael Wink
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Altri autori (Persone)	WinkMichael
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	ANNUAL PLANT REVIEWSVOLUME 39; CONTENTS; List of contributors; Preface; 1 Introduction; 1.1 Ecological function of secondary metabolites; 1.2 Presence of defence and signal compounds at the right time and place; 1.3 Molecular modes of action of SM; 1.4 Biotechnology and utilization of SM; 1.5 Conclusions; 2 Molecular Modes of Action of Defensive Secondary Metabolites; 2.1 Introduction; 2.2 Molecular modes of action - an overview; 2.3 Accumulation of defence and signal compounds in plants; 2.4 Animal responses: detoxification mechanisms and adaptations; 2.5 Concluding remarks 3 Chemical Defence in Marine Ecosystems3.1 Introduction; 3.2 Marine natural products in allelopathic interactions; 3.3 Chemical defence against fouling; 3.4 Chemical defences of marine invertebrates and algae against consumers; 3.5 Favoured allocation of defensive metabolites in vulnerable and valuable parts of marine invertebrates and algae; 3.6 The flexible response: stress-induced accumulation of defence metabolites and activation of protoxins; 3.7 Endosymbionts as

sources for allelochemicals found in marine invertebrates; 3.8
Conclusions and outlook
4 Plant-Microbe Interactions and Secondary Metabolites with
Antibacterial, Antifungal and Antiviral Properties 4.1 Introduction; 4.2
Phytoalexins; 4.3 Antibacterial and antifungal agents of higher plants;
4.4 Secondary metabolites from higher plants with antiviral properties;
4.5 Conclusions; 5 New Medical Applications of Plant Secondary
Metabolites; 5.1 Introduction; 5.2 Compounds with anticancer and
chemopreventive activity; 5.3 Antiviral compounds; 5.4 Antimalarial
drugs; 5.5 Anti-inflammatory drugs; 5.6 Antidepressant drugs; 5.7
Anti-ischaemic drugs; 5.8 Immunostimulatory drugs
5.9 Conclusions 6 Production of Natural Products by Plant Cell and
Organ Cultures; 6.1 Introduction; 6.2 Production of natural products by
cell and organ cultures; 6.3 Elicitation; 6.4 Increase/decrease of
product yields by genetic manipulation; 6.5 Biosynthetic pathways
delineation using RNA-interference; 6.6 Mass cultivation of plant cell
cultures; 6.7 Production of recombinant proteins by plants and plant
cell cultures; 6.8 Production of plant natural products in microbes; 6.9
Perspectives; Index; Colour plate (between pages 50 and 51)

Sommario/riassunto

This important volume commences with an overview of the modes of action of defensive secondary metabolites, followed by detailed surveys of chemical defense in marine ecosystems, the biochemistry of induced defense, plant-microbe interactions and medical applications. A chapter is also included covering biotechnological aspects of producing valuable secondary metabolites in plant cell and organ cultures. This is a comprehensive and fully updated new edition, edited by Professor Michael Wink and including contributions from many internationally acknowledged experts in the field.

2. Record Nr.	UNISA996309082503316
Autore	Slunitschek Matthias
Titolo	Hermann Kurz und die 'Poesie der Wirklichkeit' : Studien zum Frühwerk, Texte aus dem Nachlass // Matthias Slunitschek
Pubbl/distr/stampa	De Gruyter, 2017 Berlin ; ; Boston : , : De Gruyter, , [2017] ©2017
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Descrizione fisica	1 online resource (756 p.)
Collana	Untersuchungen zur deutschen Literaturgeschichte ; ; 150
Disciplina	831/.7
Soggetti	Hermann Kurz Kurz, Hermann Pre-march Schwaben /Literatur, Literaturgeschichte Swabian literature Vormärz literary history LITERARY CRITICISM / European / German
Lingua di pubblicazione	Tedesco
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Nota di contenuto	Frontmatter -- Vorwort -- Inhalt -- I. Einleitung -- II. ‚Gemütspoesie‘ im Vormärz -- III. Regionalität und Historizität -- IV. Stadtrepublikanische Gedächtniskultur als literarisches Paradigma -- V. Annäherungen an die schwäbische Geschichtslandschaft -- VI. Poetik und Programm -- VII. Quellen und Literatur -- VIII. Textanhang -- Register
Sommario/riassunto	Hermann Kurz (1813-1873) zählt mit seinen Romanen "Schillers Heimatjahre" und "Der Sonnenwirt" zu den Begründern des historischen, realistischen und sozialen Erzählens im deutschen Vormärz. Die Studie widmet sich aber dem bislang kaum gewürdigten Frühwerk, um die biographischen und ästhetischen Grundlagen sowie die Leit- und Entwicklungslinien des Autors nachzuzeichnen. Wie sich zeigt, stellt dieser frühe Werkkomplex (1828-1845) ein

Schreibkontinuum quer durch fast alle Gattungen dar, mit beachtlichen Anteilen an Übersetzungen (aus mehreren europäischen Sprachen und dem Mittelhochdeutschen). Pionierhafte Textinterpretationen erschließen das Erzählverfahren und die Funktion insbesondere der frühen Erzählungen über Reutlingen, Tübingen und die Schwäbische Alb, aber auch der frühen Gedichte, Essays und literarhistorischen Arbeiten. Dabei werden Ansätze einer eigenständigen Poetik in Anschluss an die neuere (Schiller, Uhland, Schwab, Hauff, Mörike) und ältere Literatur (Gottfried von Straßburg, Grimmelshausen) deutlich. Der Editionsanhang präsentiert neben den Jugendgedichten die verschollene Endfassung der Meisternovelle "Die beiden Tubus". Die Arbeit wurde ausgezeichnet mit dem Gustav-Schwab-Preis 2017 des Schwäbischen Heimatbundes.
