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Autore	Brickenkamp C. S
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Titolo	Chemoecology of insect eggs and egg deposition [[electronic resource] /] / Monika Hilker, Torsten Meiners (editors)
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Nota di contenuto	Chemoecology of Insect Eggs and Egg Deposition; Contents; List of Contributors; Acknowledgements; Chemoecology of Insect Eggs and Egg Deposition: An Introduction; Chemoecology of Insect Eggs; Chapter 1 Novel Morphological and Physiological Aspects of Insect Eggs; 1.1 Introduction; 1.2 Structure, Microstructure and Physiology of Eggs and Eggshells in Various Insect Orders; 1.2.1 Eggshell Layers; 1.2.2 Physiological Functions of the Eggshell; 1.3 Cell Types that Participate in Egg Formation: Panoistic and Meroistic Ovarioles; 1.4 Formation of Egg Polarity 1.5 Vitellogenesis: How Does the Yolk Get into the Egg?1.6 Eggshell Morphogenesis; 1.6.1 Formation of the Vitelline Membrane; 1.6.2 Formation of Chorion Layers; 1.7 Eggshell Composition and Assembly; 1.7.1 Chemistry and Molecular Events; 1.7.2 Hardening of the Eggshell; 1.8 Nurse Cells and Follicle Cells Programmed Cell Death; 1.9 Concluding Remarks; 1.10 Acknowledegments; 1.11 References; Chapter 2 Insect Accessory Reproductive GIands: Key Players in

Production and Protection of Eggs; 2.1 Introduction; 2.2 Development and Structure of Accessory Reproductive Glands (= ARC); 2.2.1 Male ARG
2.2.2 Female ARG2.3 Functions and Biochemistry of ARG Products; 2.3.1 Male ARG Products; 2.3.2 Female ARG Products; 2.4 Concluding Remarks; 2.5 Acknowledgements; 2.6 References; Chapter 3 Chemical Protection of Insect Eggs; 3.1 Introduction; 3.2 Defensive Components of Intrinsic Origin; 3.2.1 Autogenously Produced Defensive Components Applied onto the Eggs; 3.2.2 Autogenously Produced Defensive Components within the Eggs; 3.3 Defensive Components of Extrinsic Origin; 3.3.1 Chemically Defensive Plant Material Covering Eggs; 3.3.2 Sequestered Defensive Components within the Eggs
3.4 Chemical Defence and Egg Cannibalism3.5 Concluding Remarks; 3.6 Acknowledgements; 3.7 References; Chapter 4 Paternal Investment in Egg Defence; 4.1 Introduction; 4.2 Enemies of Insect Eggs; 4.3 Types of Egg Defences; 4.3.1 Fireflies; 4.4 Chemical Defences: Cantharidin; 4.4.1 Meloid Beetles; 4.4.2 Cantharidiphiles; 4.5 Chemical Defences: Pyrrolizidine Alkaloids; 4.5.1 Arctiid Moths; 4.5.2 Danaine Butterflies; 4.5.3 lthomiine Butterflies; 4.6 Chemical Defences: Cucurbitacins; 4.7 The Issue of Paternity; 4.8 When Defence Backfires; 4.9 Other Paternal Contributions; 4.10 Puddling
4.11 Concluding Remarks4.12 Acknowledgements; 4.13 References; Chapter 5 Brood Protection in Social Insects; 5.1 Introduction; 5.2 Interspecific Brood Defence; 5.2.1 Mechanical Defence; 5.2.2 Chemical Defence; 5.3 lntraspecific Brood Defence; 5.3.1 Defence Against Non-Nestmates; 5.3.2 Defence against Nestmates: Kin Conflict and Egg Cannibalism; 5.3.3 Queen-Queen Conflict and Brood Defence; 5.3.4 Worker-Worker Conflict and Brood Defence; 5.3.5 Queen-Worker Conflict and Brood Defence; 5.3.6 Compliant Brood Cannibalism: Diploid Males; 5.4 Concluding Remarks; 5.5 Acknowledgements; 5.6 References
Chapter 6 The Role of Microorganisms for Eggs and Progeny

Sommario/riassunto

This is the first book focusing on the chemoecology of insect eggs and egg deposition. It covers a wide range of different issues including herbivorous and carnivorous insects, social insects and those of medical and veterinary importance. The knowledge compiled in this book may promote future studies on evolutionary aspects on insect reproductive behaviour as well as on controlling insect pests by targeting the egg stage.