

1. Record Nr.	UNINA9910842280403321
Autore	Ghosh Shyamasree
Titolo	Biology of Forensically Important Invertebrates
Pubbl/distr/stampa	Singapore : , : Springer, , 2024 ©2024
ISBN	981-9950-26-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (178 pages)
Altri autori (Persone)	BanerjeeDhriti
Disciplina	363.2562
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>Intro -- Preface -- Acknowledgement -- Contents -- About the Authors -- 1: Forensic Entomology -- 1.1 Introduction -- 1.2 Forensic Entomology: A Brief History -- 1.3 Forensically Important Invertebrates -- 1.3.1 Diptera -- 1.3.2 Coleoptera -- 1.3.3 Others -- 1.4 Insect Succession and Forensic Entomology -- 1.5 Carrion Insects: Developmental Analysis and Forensic Entomology -- 1.6 PMI Estimation -- 1.7 Forensic Entomotoxicology -- 1.8 Insect Collection and Preparation for Molecular Studies -- 1.9 Morphological Analysis by Microscopy -- 1.10 Molecular Identification -- 1.11 Maggot Analysis: An Emerging Technique -- 1.12 Forensic Entomology Techniques and Applications -- 1.13 Insects, Forensic Entomology, and Legal Perspective -- 1.14 Discussion -- References -- 2: Insects in Forensic Entomology -- 2.1 Introduction -- 2.2 Major Areas of Application of Forensic Entomology -- 2.3 Forensically Important Insects: Ecology -- 2.4 Blow Flies -- 2.5 Flesh Flies -- 2.6 Muscid Flies -- 2.7 Beetles -- 2.8 Discussion -- References -- 3: Forensic Flies: Advances in Study Through Morphological Evidences -- 3.1 Introduction -- 3.2 Evolution of Forensic Entomology -- 3.3 Flies in Forensic Entomology -- 3.3.1 Flies (Diptera) (Table 3.1) -- 3.3.2 Beetles -- 3.3.3 Other Insects -- 3.4 Morphology and Studies of Different Flies of Forensic Importance -- 3.5 SEM Studies on Forensic Flies -- 3.6 Discussion -- References -- 4: Parasitoids and Forensic Flies -- 4.1 Introduction -- 4.2 Parasitoids and Forensic Flies: A Global Scenario -- 4.3 Discussion -- References -- 5: Recent Developments in the Study of Forensic Flies -- 5.1</p>

Introduction -- 5.2 Forensic Entomology and Applications -- 5.3 Fly Age, Life Cycle, and Cuticular Hydrocarbons (CHCs) -- 5.4 CHC and Taxonomy of Forensic Flies -- 5.5 Other Biochemical Methods in the Study of Forensic Flies.
5.6 DNA-Based Methods and Its Application in Forensic Entomology -- 5.7 Artificial Intelligence and Study of Forensic Entomology -- 5.8 Challenges in the Study of Forensic Entomology -- 5.9 Discussions -- References -- 6: Molecular Taxonomy and Forensic Entomology: Where We Stand Today -- 6.1 Introduction -- 6.2 Molecular Taxonomy: Forensic Flies-A Global Study -- 6.2.1 Calliphoridae -- 6.2.2 Sarcophagidae -- 6.2.3 Studies on Different Forensically Important Insects -- 6.2.4 Studies on Parasites -- 6.3 Different Other Techniques Used in the Study of Forensically Important Insects -- 6.3.1 Morphological -- 6.3.2 Infrared Spectroscopy (IR) Techniques -- 6.3.3 Gut Contents -- 6.4 Studies on Indian Species of Forensic Flies -- 6.5 Discussion -- References -- 7: Forensic Entomology and the Veterinary World -- 7.1 Introduction -- 7.2 Veterinary and Veterolegal Cases -- 7.3 Forensic Entomology for Animal Deaths -- 7.4 Forensic Entomology and Veterinary World -- 7.5 Forensic Entomology and Crimes on Animals -- 7.6 Forensic Entomology: Animal Deaths-Case Studies -- 7.7 Environmental Forensic Toxicology Legal Perspective -- 7.8 Discussions -- References -- 8: Climate Change and Forensic Flies -- 8.1 Introduction: Climate Change-A Global Perspective -- 8.2 Climate Change and Impact on Insects -- 8.3 Climate Change and Impact on Forensic Insects -- 8.4 Discussion -- References.
