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Nota di contenuto	Preface -- Section 1 Melatonin Structure and Synthesis -- Chapter 1 Characteristic, Synthesis, and Non-Photic Regulation of Endogenous Melatonin by Mohammed Albreiki -- Section 2 Effect of Melatonin on Reproduction -- Chapter 2 An Overview of Effects on Reproductive Physiology of Melatonin by Volkan Gelen, Emin Sengul and Abdulsamed Kukurt -- Section 3 The Antioxidant Effect of Melatonin -- Chapter 3 Biochemistry and Antioxidant Effects of Melatonin by Oguz Merhan -- Section 4 The Role of Melatonin in Various Diseases -- Chapter 4 A Promising Challenge in the Link between Melatonin and Breast Cancer: Exploring the Microbiome-Gut-Brain Axis by Alicia Gonzalez-Gonzalez, Aurora Laborda-Illanes, Soukaina Boutrig, Lidia Sanchez-Alcoholado, Daniel Castellano-Castillo, Isaac Plaza-Andrades, Jesus Peralta-Linero and Maria Isabel Queipo-Ortuno -- Chapter 5 Melatonin in Cardiovascular Diseases by Hulya Kara and Adem Kara -- Chapter 6 Melatonin Pretreatment Effect in a Parkinson Disease Experimental Model Induced by the Inhalation of Manganese in Mice by Maria Rosa Avila-Costa, Mariana Stephania Rodriguez-Alcantara, Ana Luisa Gutierrez-Valdez, Jose Luis Ordonez-Librado, Vianey Rodriguez-Lara, Leonardo Reynoso-Erazo, Claudia Dorado-Martinez, Cesar Alfonso Garcia Caballero, Enrique Montiel-Flores, Javier Sanchez-Betancourt, Rocio Tron-Alvarez, Patricia Aley-Medina and Jesus Espinosa-Villanueva -- Section 5 Melatonin as a Feed Additive -- Chapter 7 119 Use of Melatonin as a Feed Additive by Oguzhan Kahraman, Zekeriya

Safa Inanc, Huzur Derya Ark and Mustafa Selcuk Alata.

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Sommario/riassunto

Melatonin is a powerful hormone and antioxidant with numerous effects on metabolism and human health. Available as a dietary supplement for many years, it is one of the most popular over-the-counter alternative medicines available. Featuring contributions from researchers investigating the role of melatonin in various diseases and physiological conditions, this comprehensive book offers a wide range of expert reviews on the synthesis, regulation, and physiological effects of melatonin as well as its role in various diseases.

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