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Nota di contenuto	Chapter 1. Annelid Coelomic Fluid Proteins -- Chapter 2. Crustacean Hemolymph Lipoproteins -- Chapter 3. The Anti-lipopolysaccharide Factors in Crustaceans -- Chapter 4. Insect Defense Proteins and Peptides -- Chapter 5. Insect Hemolymph Immune Complexes -- Chapter 6. Hemoglobin in Arthropods – Daphnia as a Model -- Chapter 7. Molluscan Hemocyanins -- Chapter 8. Arachnid Hemocyanins -- Chapter 9. Multifunctional Roles of Hemocyanins -- Chapter 10. Recent Insights into the Diversity and Evolution of Invertebrate Hemerythrins and Extracellular Globins -- Chapter 11. Embryonic and Fetal Human Hemoglobins: Structures, Oxygen Binding, and Physiological Roles -- Chapter 12. Sick Cell Hemoglobin -- Chapter 13. Multiplicity and Polymorphism of Fish Hemoglobins -- Chapter 14. Hemoglobin: Structure, Function and Allostery -- Chapter 15. Serum Albumin, Lipid and Drug Binding -- Chapter 16. High-density Lipoproteins and Apolipoprotein A1 -- Chapter 17. Serum Amyloid A (SAA) proteins -- Chapter 18. Physiological Roles of the von Willebrand factor-factor VIII

interaction -- Chapter 19. Antigen-Antibody Complexes -- Chapter 20. C-reactive Protein and its Structural Isoforms: An Evolutionary Conserved Marker and Central Player in Inflammatory Diseases and Beyond.

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### Sommario/riassunto

This book focuses on respiratory proteins, the broad hemoglobin family, as well as the molluscan and arachnid hemocyanins (and their multifunctional roles). Featuring 20 chapters addressing invertebrate and vertebrate respiratory proteins, lipoproteins and other body fluid proteins, and drawing on the editors' extensive research in the field, it is a valuable addition to the Subcellular Biochemistry book series. The book covers a wide range of topics, including lipoprotein structure and lipid transport; diverse annelid, crustacean and insect defense proteins; and insect and vertebrate immune complexes. It also discusses a number of other proteins, such as the hemerythrins; serum albumin; serum amyloid A; von Willebrand factor and its interaction with factor VIII; and C-reactive protein. Given its scope, the book appeals to biologists, biomedical scientists and clinicians, as well as advanced undergraduates and postgraduates in these disciplines. Available as a printed book and also as an e-book and e-chapters, the fascinating material included is easily accessible.

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