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Nota di contenuto	Preface -- Chapter 1: Blood, Body, and the "Food of Life" -- Chapter 2: The Structure of Normal Human Hemoglobin -- Chapter 3: The Function of Normal Human Hemoglobin -- Chapter 4: The Oxygen Transporters -- Chapter 5: The Red Blood Cell -- Chapter 6: Malaria: Driver of Red Blood Cell and Hemoglobin Mutations -- Chapter 7: Hemoglobin and Red Blood Cells versus Malaria -- Chapter 8: Sickle Hemoglobin and Sickle Cell Disease -- Chapter 9: Hemoglobin and Red Cell Adaptation When Oxygen Is Lacking -- Chapter 10: The Porphyrins -- Chapter 11: Hemoglobin Toxins -- Chapter 12: The Quest for a Hemoglobin Substitute -- Epilogue and Acknowledgments.
Sommario/riassunto	Life's Blood: The Story of Hemoglobin encompasses the entire clinically relevant story of hemoglobin, the only molecule we have that captures oxygen from the air we breathe and delivers it to our tissues to generate the energy without which we would not exist. Dr. Rosove covers first the discoveries of oxygen, hemoglobin, and circulation of the blood, then the structure and function of human hemoglobin, together with comparisons to other oxygen transporters in the animal kingdom. He examines the red blood cell and how it protects hemoglobin, with an in-depth look at malaria and the hemoglobin and red cell mutations malaria forced us to make defending ourselves against it, particularly sickle cell disease and the thalassemias. The author also explores adaptations to the oxygen-poor environment of

high altitude; lessons from freak hemoglobin mutations; hemoglobin toxins including carbon monoxide and chemicals and drugs that cause oxidant damage; and the quest for a hemoglobin substitute. Life's Blood is a comprehensive resource for physicians, nurses, and other health professionals, at any and every stage of career development. Even seasoned hematologists, internists, and hospitalists will find something new and informative on practically every page. The book's approachable, engaging style will also appeal to science-minded readers who will appreciate being awakened to the workings of hemoglobin, a miraculous molecule.
