

1. Record Nr.	UNINA9910727286603321
Titolo	The erythrocyte : a unique cell // edited by Vani Rajashekaraiiah
Pubbl/distr/stampa	London : , : IntechOpen, , 2023
ISBN	1-80356-732-5
Descrizione fisica	1 Online-Ressource (156 pages)
Disciplina	612.111
Soggetti	Erythrocytes Erythropoiesis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Reactive Oxygen Species and Antioxidant Interactions in Erythrocytes -- 2. Erythrocytes as Messengers for Information and Energy Exchange between Cells -- 3. Hormones Action on Erythrocytes and Signaling Pathways -- 4. Reticulocytes-Mother of Erythrocytes -- 5. Genetics of Thalassemia -- 6. Portal Vein Thrombosis in Patients with - Thalassemia -- 7. Congenital Defects with Impaired Red Blood Cell Deformability - The Role of Next-Generation Ektacytometry.
Sommario/riassunto	The Erythrocyte - A Unique Cell emphasizes the characteristic functions of erythrocytes and their vital role in metabolism, and their response to various situations. These changes can be used as diagnostic markers. This book gives insights into the key features of erythrocyte survival in the oxidizing environment and their functional aspects. It also examines the interactions and responses of erythrocytes with other cells and their role as messengers and potential indicators during disease conditions. Furthermore, the book discusses hormonal effects on erythrocyte functions, the major role of reticulocytes as markers, and the blood disorder- ?-thalassemia, its pathophysiology, underlying factors, and different treatments. Finally, the book examines the unique and crucial characteristic of erythrocyte deformability and its significance as a diagnostic tool for congenital defects.