



## **Red Cell Shape: Physiology, Pathology, Ultrastructure**

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# Red Cell Shape: Physiology, Pathology, Ultrastructure

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This monograph is a collection of invited contributions from a group of investigators who share a common interest in the interrelationships between the shape, structure, and functional characteristics of normal and pathologic erythrocytes. Most of the authors participated in a workshop on red cell shape held in June, 1972 at the Institute of Cell Pathology, Hopital de Bicetre, Paris. We hope that these various contributions on the physiology, pathology, and ultrastructure of red cell shape will be useful and stimulating for other investigators interested in the correlation of shape and structure with the biochemistry and biophysics of the red cell. The text is divided into four sections. Section I deals with red cell shape, including the presentation of a rational descriptive nomenclature and a discussion of post splenectomy changes. Section II deals with biochemical factors that underlie the discocyte-echinocyte (crenated) and discocyte-stomatocyte (cup-shaped) transformation. This section includes discussions of plasma factors, and of the biochemical dynamics of erythrocyte lipids and consideration of the effects of such factors as cellular ATP, calcium, aging, and various chemical agents as determinants of shape. Section III, which deals with biophysical measurements, includes studies of the deformability of cells of different shapes, descriptions of ways to define precisely the geometric dimensions of the red cell under various circumstances, and a model of membrane structure, which is proposed to account for the dimensions of red cells that undergo shape change.

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