

CHAPTER 08 POLYMER NETWORKS AND THE CYTOSKELETON INTRODUCTION TO CELL MECHANICS AND MECHANOBIOLOGY%0A

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(References: Alberts et al., Molecular Biology of the Cell, 3rd Ed., Chapter 16, and Howard, Mechanics of Motor Proteins and the Cytoskeleton, Chapters 9-11) We will consider the self-assembly of two of the three major filaments in

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The ability of a eukaryotic cell to resist deformation, to transport intracellular cargo and to change shape during movement depends on the cytoskeleton, an interconnected network of filamentous

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Chapter 2 2 Mechanics of the Cytoskeleton

Mechanics of the Cytoskeleton 2.2.1 Introduction The cytoskeleton, the system of protein filaments that permeate the cytoplasmic space of all eukaryotic cells, is primarily responsible for the structural integrity exhibited by a cell and determines its deformation in response to a given stress. This fibrous matrix is instrumental to a wide variety of essential cell functions ranging from

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Cell Membranes and the Cytoskeleton Department of Physics

The interplay between the three-dimensional protein network called the cytoskeleton and the two-dimensional lipid bilayer which forms the cell membrane is a central feature of cell biology and a richly complex physical and chemical phenomenon.

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Cell mechanics and the cytoskeleton

Cell mechanics and the cytoskeleton Daniel A. Fletcher^{1,2} & R. Dyrche Mullins³ The ability of a eukaryotic cell to resist deformation, to transport intracellular cargo and to change shape during movement depends on the cytoskeleton, an interconnected network of filamentous polymers and regulatory proteins. Recent work has demonstrated that both internal and external physical forces can act

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