



Modeling the Mechanics of Cell Division: Influence of Spontaneous Membrane Curvature, Surface Tension, and Osmotic Pressure

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Many cell division processes have been conserved throughout evolution and are being revealed by studies on model organisms such as bacteria, yeasts, and protozoa. Cellular membrane constriction is one of these processes, observed almost universally during cell division. It happens similarly in all organisms through a mechanical pathway synchronized with the sequence of cytokinetic events in the cell interior. Arguably, such a mechanical process is mastered by the coordinated action of a constriction machinery fueled by biochemical energy in conjunction with the passive mechanics of the cellular membrane. Independently of the details of the constriction engine, the membrane component responds against deformation by minimizing the elastic energy at every constriction state following a pathway still unknown. In this paper, we address a theoretical study of the mechanics of membrane constriction in a simplified model that describes a homogeneous membrane vesicle in the regime where mechanical work due to osmotic pressure, surface tension, and bending energy are comparable. We develop a general method to find approximate analytical expressions for the main descriptors of a symmetrically constricted vesicle. Analytical solutions are obtained by combining a perturbative expansion for small deformations with a variational approach that was previously demonstrated valid at the reference state of an initially spherical vesicle at isotonic conditions. The analytic approximate results are compared with the exact solution obtained from numerical computations, getting a good agreement for all the computed quantities (energy, area, volume, constriction force). We analyze the effects of the spontaneous curvature, the surface tension and the osmotic pressure in these quantities, focusing especially on the constriction force. The more favorable conditions for vesicle constriction are determined, obtaining that smaller constriction forces are required for positive spontaneous curvatures, low or negative membrane tension and hypertonic media. Conditions for spontaneous constriction at a given constriction force are also determined. The implications of these results for biological

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Table of Contents Osmotic Investigations Studies On Cell Mechanics

1. Understanding the eBook Osmotic Investigations Studies On Cell Mechanics
 - The Rise of Digital Reading Osmotic Investigations Studies On Cell Mechanics
 - Advantages of eBooks Over Traditional Books
2. Identifying Osmotic Investigations Studies On Cell Mechanics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Osmotic Investigations Studies On Cell Mechanics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Osmotic Investigations Studies On Cell Mechanics
 - Personalized Recommendations
 - Osmotic Investigations Studies On Cell Mechanics User Reviews and Ratings
 - Osmotic Investigations Studies On Cell Mechanics and Bestseller Lists

5. Accessing Osmotic Investigations Studies On Cell Mechanics Free and Paid eBooks
 - Osmotic Investigations Studies On Cell Mechanics Public Domain eBooks
 - Osmotic Investigations Studies On Cell Mechanics eBook Subscription Services
 - Osmotic Investigations Studies On Cell Mechanics Budget-Friendly Options
6. Navigating Osmotic Investigations Studies On Cell Mechanics eBook Formats
 - ePub, PDF, MOBI, and More
 - Osmotic Investigations Studies On Cell Mechanics Compatibility with Devices
 - Osmotic Investigations Studies On Cell Mechanics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Osmotic Investigations Studies On Cell Mechanics
 - Highlighting and Note-Taking Osmotic Investigations Studies On Cell Mechanics
 - Interactive Elements Osmotic Investigations Studies On Cell Mechanics
8. Staying Engaged with Osmotic Investigations Studies On Cell Mechanics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Osmotic Investigations Studies On Cell Mechanics
9. Balancing eBooks and Physical Books Osmotic Investigations Studies On Cell Mechanics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Osmotic Investigations Studies On Cell Mechanics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Osmotic Investigations Studies On Cell Mechanics
 - Setting Reading Goals Osmotic Investigations Studies On Cell Mechanics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Osmotic Investigations Studies On Cell Mechanics
 - Fact-Checking eBook Content of Osmotic Investigations Studies On Cell Mechanics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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