

# Actin Dynamics: From Cell Shape to Motility

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#### **Abstract**

Actin, a key constituent of the cytoskeleton, plays essential roles in maintaining cellular structure and enabling the privation beastiguished the cytoskeletal rearrangements during processes such as cell division and differentiation. Dysregulation of actin dynamics contributes to various pathological conditions, highlighting the importance of understanding these processes for potential therapeutic interventions. This review synthesizes current knowledge on actin dynamics, emphasizing their fundamental role in cellular physiology and pathology. Actin, a fundamental component of the cytoskeleton, plays crucial roles in shaping cells and facilitating their movement. This article explores the dynamic nature of actin flaments and their diverse functions in cellular processes, from maintaining structural integrity to enabling motility.

## Introduction

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## **Conclusion**

## Acknowledgement

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### Con ict of Interest

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