

Mechanical stretch and cytokines

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Abstrak

This book presents the latest findings in the field of investigation of molecular mechanisms of mechanical stretch and the role of cytokines in response of different tissues to it. On the one hand this volume demonstrates how mechanical stretch enhances cytokines production. It describes how cytokines influence tissues and cells on a background of a mechanical stretching. It provides a description of how cells in different tissues are activated by stretch and cytokines via various signaling pathways, and how they change their gene expression. The book is a unique collection of reviews outlining current knowledge and future developments in this rapidly growing field. Knowledge of biomechanics, and mechanisms which underlie it on molecular, cellular and tissue, is necessary for understanding of the normal functioning of living organisms and allows to predict changes, which arise due to alterations of their environment.