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Systems Biology in Cancer Immunotherapy



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About the eBook

Over the past decades, systems biology approaches have been applied in different areas of life science research including oncology. Researchers now understand the hallmarks of cancer cells such as abnormal cell growth, inflammation, dysregulated metabolic pathways and drug resistance properties at a molecular level. Systems biology approaches have enabled researchers to investigate cancer immunology by identifying cancer related biomarkers on immune cells, and to study the effect of different therapies in tissue cultures and mouse models.

Contents

- ▶ Immune System in Cancer
- ▶ Cancer Metabolism: A Perspective on the Involvement of the Immune System and Metabolic Pathways in Cancer Development
- ▶ Signal Transduction Molecules and Pathways in Cancer: Implication of the Immune System in Modulating Cancer Development and Progression
- ▶ Cancer Immunotherapy
- ▶ Systems Biology Approach in Cancer Immunotherapy
- ▶ Perspectives

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