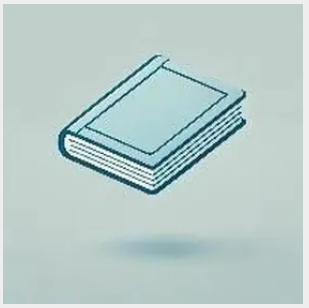
Dhanawat / Verma

Decoding the Jak-Stat Pathway

Emerging Insights and Clinical Applications Across Diseases



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Decoding the JAK-STAT Pathway: Emerging Insights and Clinical Applications Across Diseases offers a comprehensive exploration of one of the most vital molecular signaling pathways in human health and immune regulation. This reference addresses the critical need for an integrated resource that connects fundamental immunological mechanisms with translational and clinical applications, particularly in autoimmune, inflammatory, and infectious diseases. The book covers the pathway's physiological roles in cytokine signaling, immune homeostasis, and cellular communication, as well as its dysregulation in conditions such as rheumatoid arthritis, inflammatory bowel disease, neuroinflammation, and viral infections. Its chapters feature contributions from global experts, detailing recent advances in targeted therapies, including JAK inhibitors, and their potential for personalized medicine. The content is organized to highlight disease-specific roles, therapeutic strategies, and emerging research directions, making it an essential resource for immunologists, biomedical scientists, clinicians, and pharmaceutical researchers seeking an authoritative, up-to-date guide to the molecular and clinical aspects of JAK-STAT signaling. By elucidating how this pathway influences immune responses and disease progression, the book facilitates a deeper understanding of immune regulation and offers insights into novel treatment approaches, ultimately supporting advancements in immunotherapy and precision medicine across diverse patient populations worldwide.

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