



The Role of Tight Junction Proteins in Health and Disease

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Message from the Guest Editor

Dear Colleagues,

Tight junction proteins are critical to the integrity and selective permeability of epithelial and endothelial barriers in various tissues and organs, creating tight seals between adjacent cells, controlling the passage of ions, molecules, and pathogens across cell layers. Tight junctions also contribute to tissue homeostasis, nutrient absorption, and immune response regulation in the human body. However, dysregulation of these proteins can lead to a range of diseases: increased permeability may result in inflammatory disorders, autoimmune diseases, and infections, while excessive tightness may hinder nutrient absorption or promote tumor metastasis. Understanding the role of tight junction proteins in health and disease is vital to the development of targeted therapies to address various pathological conditions related to their dysfunction.

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Guest Editor





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