

Mucosal Immunosenescence: Unraveling the Aging Immune Barriers

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Aging is an inevitable and complex biological process that impacts every facet of human physiology, including the immune system. Mucosal surfaces, lining the respiratory, gastrointestinal, and urogenital tracts, play a pivotal role in the body's defense against pathogens, allergens, and environmental challenges. However, as individuals age, these mucosal immune defenses undergo profound changes, collectively referred to as mucosal immunosenescence. This abstract provides an overview of the phenomenon of mucosal immunosenescence. It delves into the key immunological alterations that occur at mucosal sites with aging, highlighting the decline in immune cell function, reduced antibody responses, and altered microbiota composition. These age-related changes can leave older individuals more

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