Mechanisms of Immune Surveillance and Response at the Oral Mucosa

Elharras Yahya*

Department immunology, Heidelberg University, Germany

Abstract

The oral mucosa represents a critical site for immune surveillance due to its constant exposure to external pathogens and antigens. This article explores the mechanisms underlying immune surveillance and response in the oral mucosa, emphasizing the roles of innate and adaptive immune components. Key mechanisms include the function of oral mucosal dendritic cells, the role of mucosal-associated lymphoid tissue (MALT), and the dynamic interactions between epithelial cells and immune cells. We discuss the impact of these mechanisms on the local immune response, highlighting how they contribute to both protective immunity and pathological conditions. Understanding these processes provides insights into oral health and disease, including conditions such as oral infections and autoimmune disorders. This comprehensive review aims to elucidate the complexities of oral mucosal immunity and its implications for clinical practice and research.

Keywords:

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Introduction

Results

*Corresponding author: Elharras Yahya, Department immunology, Heidelberg University, Germany, E-mail: eyahya0@gmail.com

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Conclusion

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- References
- Brandtzaeg P, Farstad N, Johansen E, Morton C, Norderhaug N, et al. (1999) The B-cell system of human mucosae and exocrine glands. Immunol Rev 171: 45-87.
- 2. Paredes F (2021) Metabolic adaptation in hypoxia and cancer. Cancer Lett 502: 133-142.
- Benassi B (2006) C-myc phosphorylation is required for cellular response to oxidative stress. Mol Cell 21: 509-19.
- Ruddle H, Akirav M (2009) Secondary lymphoid organs: responding to genetic and environmental cues in ontogeny and the immune response. J Immunol 183: 2205-2212.
- Lazado CC (2014) Mucosal immunity and probiotics in fsh. Fish Shellfsh Immunol 39: 78-89.
- Cheng (2021) Omega-3 Fatty Acids Supplementation Improve Nutritional Status and Infammatory Response in Patients With Lung Cancer: A Randomized Clinical Trial. Front nutr 30: 686752.
- 7. Macpherson AJ, Mcoy D, Johansen F, Brandtzaeg P (2008) The immune geography of IgA induction and function. Mucosal Immunol 1: 11-22.
- Shi H, Han X, Jiang N, Cao Y, Alwalid O, et al. (2020) Radiological fndings from 81 patients with COVID-19 pneumonia in Wuhan, China: a descriptive study. Lancet Infect Dis 20: 425-434.
- Wu T, Leung K, Leung M (2020) Nowcasting and forecasting the potential domestic and international spread of the 2019-nCoV outbreak originating in Wuhan, China: a modelling study. The Lancet 395: 689-697.
- 10. Don K (2004) Serum albumin: Relationship to infammation and nutrition. Seminars in Dialysis 17: 432-437.