

Mucosal immunology is the study of immune system responses that occur at mucosal membranes of the intestines, the urogenital tract, and the respiratory system. The mucous membranes are in constant contact with microorganisms, food, and inhaled antigens. In healthy states, the mucus immune system protects the organism against infectious pathogens and maintains a tolerance towards non-harmful commensal microbes and noncancerous substances. Disruption of this balance between tolerance and deprivation of pathogens can lead to pathological conditions such as food allergies, irritable bowel syndrome, susceptibility to infections, and more.<sup>1</sup>

In the present book, ten typical literatures about mucosal immunology published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on mucosal immunology. We hope this book can demonstrate advances in mucosal immunology as well as give references to the researchers, students and other related people.

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<sup>1</sup> [https://en.wikipedia.org/wiki/Mucosal\\_immunology](https://en.wikipedia.org/wiki/Mucosal_immunology)