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Host-Microbe Interaction in Atopic Diseases

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Message from the Guest Editors

Atopic diseases, such as asthma and atopic dermatitis, are severe multifactorial disorders characterized by distinct clinical and pathological features. In this Special Issue, we aim to advance communication between microbiologists and immunologists and, as a result, knowledge at the interface of interactions between microbes and the host immune system.

This Special Issue will focus on the impact of pathogens on the development of atopic diseases, particularly of the lungs and skin. Both original research and review articles are welcomed. Potential topics include, but are not limited to: Molecular mechanisms of asthma and airway hyperreactivity caused by respiratory infection; Role of microbiota in skin immunity and atopic dermatitis; Immunological mechanisms causing secondary infections in atopic dermatitis; Molecular interactions between microbial products and host immune responses; Innate responses to infections including cytokine and cellular responses and functions; Links between innate responses and downstream adaptive responses; Molecular signaling from sensors or receptors for microbial products or infection-induced changes, and from cytokines induced during infections.



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Special Issue



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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

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