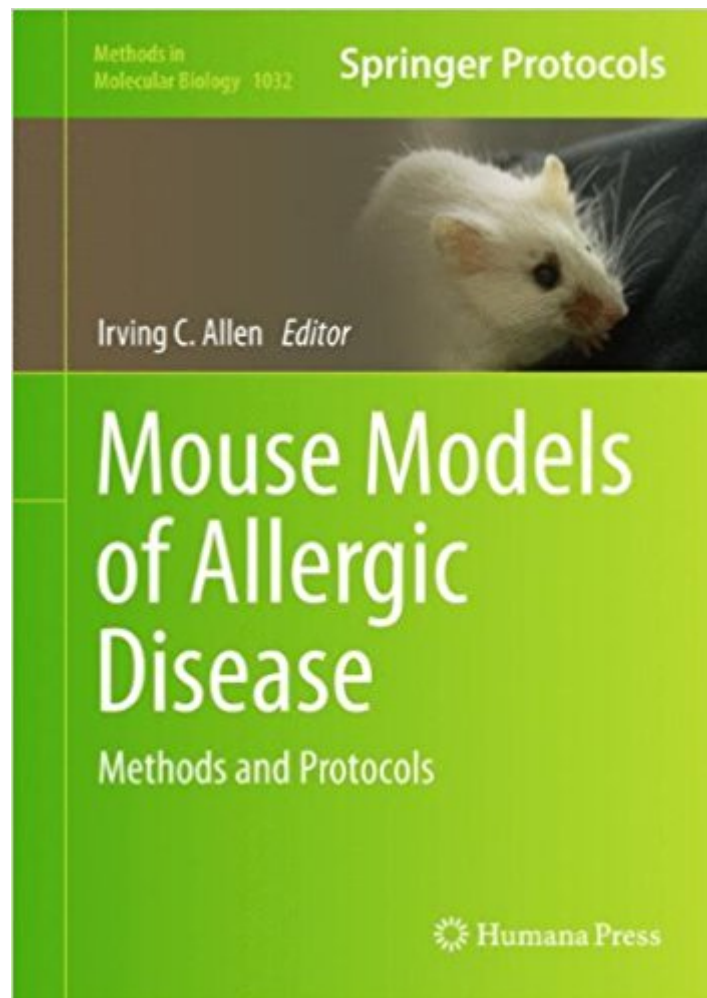




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Mouse Models Of Allergic Disease: Methods And Protocols (Methods In Molecular Biology)



Synopsis

Over the last half century, a dramatic increase in allergic diseases has been observed throughout industrialized nations, which has resulted in significant worldwide socio-economic challenges. In *Mouse Models of Allergic Disease: Methods and Protocols*, a wide range of expert contributors provide detailed protocols for the design and execution of experiments to thoroughly analyze critical elements associated with a diverse range of allergic diseases, all through the lens of mouse models that accurately recapitulate clinically relevant aspects of the respective human disease. The volume opens with a section featuring techniques essential for effective ex vivo cell isolation and evaluation of specific cell types relevant to a diverse range of allergic diseases, and the book then moves on to cover in vivo protocols to evaluate prevalent mouse models of human allergic diseases, including mouse models of systemic anaphylaxis, contact hypersensitivity, allergic rhinitis, and asthma, as well as a collection of chapters on in vivo and ex vivo protocols used to assess indirect mediators of allergic diseases, such as the nervous system, non-hematopoietic cells, and the composition of the gut microbiome. Written in the highly successful *Methods in Molecular Biology* series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Timely and authoritative, *Mouse Models of Allergic Disease: Methods and Protocols* serves as an essential collection of protocols that allow both novice and expert researchers the ability to accurately develop, evaluate, and characterize the mechanisms associated with these disorders.

Book Information

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â œThis book is a collection of beautifully written chapters that are suitable to explore in-depth use of mouse models to understand allergic disease. â | This is a must read book for trainees, clinicians and researchers engaged in the study of allergy related manifestations. Undoubtedly, this book will provide an in-depth understanding regarding the use of mouse in allergic research. Using this invaluable text, various key phenomena behind allergic reactions can be explored.â • (Sandeep Kumar, World Allergy Organization, worldallergy.org, May, 2015)

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