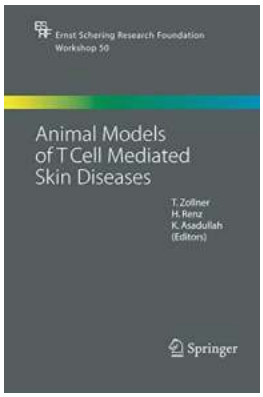
Animal Models of Cell Mediated Skin Diseases: A Groundbreaking Research by Ernst Schering Foundation

In the field of dermatology, understanding the pathogenesis and developing effective treatments for cell-mediated skin diseases has always been a significant challenge. Fortunately, the dedicated research and groundbreaking work conducted by the Ernst Schering Foundation have paved the way for remarkable advancements in this field.

This article aims to provide an in-depth exploration of animal models used in the study of cell-mediated skin diseases, highlighting the crucial contributions made by the Ernst Schering Foundation.

The Significance of Animal Models

Animal models are crucial tools in medical research, enabling scientists to study the complex processes involved in various diseases. They provide insights into disease mechanisms, treatment options, and potential diagnostic methods.



Animal Models of T Cell-Mediated Skin Diseases (Ernst Schering Foundation Symposium Proceedings, 50) by Henry Stephens (2005th Edition)

4.6 out of 5

Language	: English
File size	: 7808 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 418 pages

Screen Reader : Supported

When it comes to cell-mediated skin diseases, such as psoriasis, atopic dermatitis, and contact dermatitis, animal models play an indispensable role in understanding the underlying causes and finding effective therapies.

Ernst Schering Foundation: Pioneering Research

The Ernst Schering Foundation has been at the forefront of groundbreaking research in the field of dermatology. Their commitment to advancing scientific knowledge has resulted in the development of innovative animal models that serve as valuable tools for studying cell-mediated skin diseases.

Through rigorous experimentation and meticulous observation, the foundation has contributed significantly to our understanding of inflammatory processes, immune responses, and the complex interactions within the skin.

Psoriasis: Decoding its Mechanisms

Psoriasis is a chronic autoimmune disease characterized by red, scaly patches on the skin. Ernst Schering Foundation's research team has successfully created animal models that mimic the pathogenesis of psoriasis in humans, allowing scientists to decipher the intricate mechanisms behind the disease.

By inducing the disease in these animal models, researchers can observe the immune system's response, identify key inflammatory mediators, and explore potential therapeutic targets.

Atopic Dermatitis: Unraveling the Allergic Response

Atopic dermatitis, commonly known as eczema, is a chronic skin condition characterized by intense itching and inflammation. Understanding the allergic response involved in atopic dermatitis is essential for developing better treatments.

The Ernst Schering Foundation has developed animal models that accurately mimic the allergic response seen in humans. By studying these models, researchers have gained insights into the cellular mechanisms that trigger the disease and identified molecules responsible for the allergic inflammation.

Contact Dermatitis: Investigating Sensitization

Contact dermatitis is a type of skin inflammation caused by exposure to allergens or irritants. The foundation's animal models have played a vital role in understanding the process of sensitization, where the immune system recognizes a foreign substance as harmful.

Through the use of these animal models, researchers can study the immune response to specific allergens, identify the factors influencing sensitization, and develop new approaches for preventing and treating contact dermatitis.

Implications for Future Research and Treatment

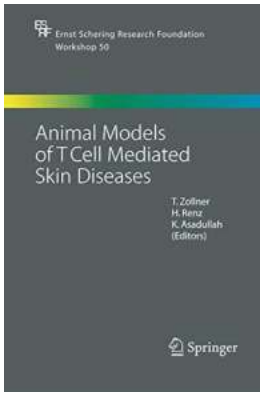
The animal models developed by the Ernst Schering Foundation have revolutionized the study of cell-mediated skin diseases. Not only have they provided a deeper understanding of the underlying mechanisms, but they have also paved the way for innovative treatment approaches.

With these animal models, researchers can test novel therapies, evaluate their efficacy, and identify potential side effects. This critical information significantly

accelerates the development of safe and effective treatments for patients suffering from cell-mediated skin diseases.

The Ernst Schering Foundation's relentless pursuit of scientific knowledge has unlocked groundbreaking advancements in the study of cell-mediated skin diseases. Through the development of innovative animal models, scientists now possess a powerful tool to understand disease mechanisms, explore therapeutic targets, and develop improved treatment options.

As researchers continue to build upon the foundation's work, the future holds great promise for a world where cell-mediated skin diseases are more effectively diagnosed and treated, bringing relief to countless individuals affected by these conditions.



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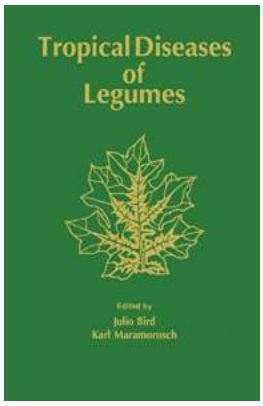
Pharmaceutical companies are spending increasing amounts of money on drug discovery and development. Nevertheless, attrition rates in clinical development are still very high, and up to 90% of new compounds fail in clinical phase I - III trials, which is partially due to lack of clinical efficacy. This indicates a strong need

for highly predictive in vitro and in vivo models. The "50th International Workshop of the Ernst Schering Research Foundation" focussed on "Animal Models of T Cell-Mediated Skin Diseases". Such animal models should have impact not only on inflammatory dermatoses but also on other inflammatory disorders due to their model character. The current volume summarises recent advances in animal research that are important for anti-inflammatory drug discovery.



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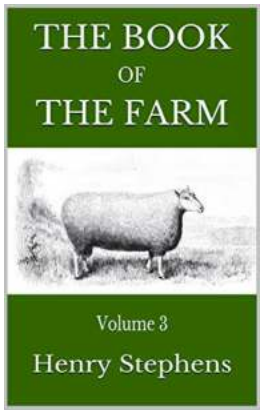

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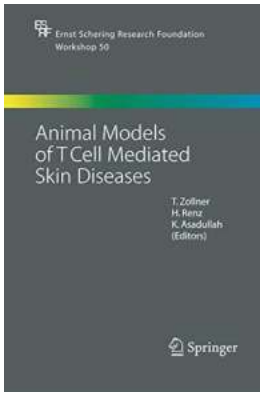

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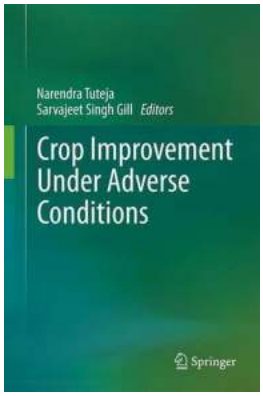

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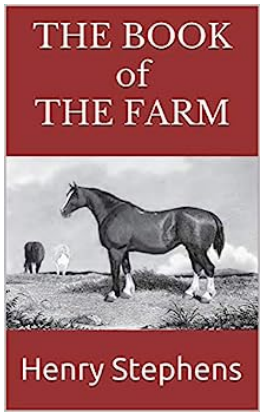

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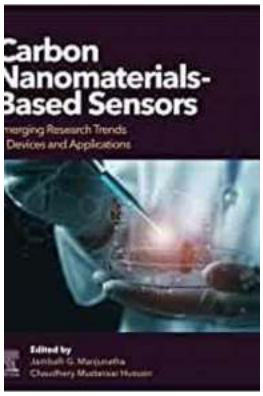

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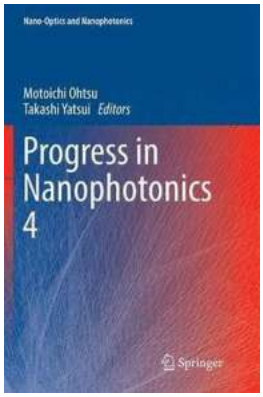

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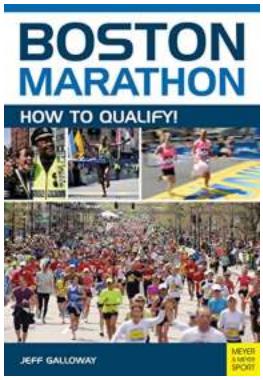

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