

scientists hail autoimmune disease therapy breakthrough

Scientists Hail Autoimmune Disease Therapy Breakthrough

scientists hail autoimmune disease therapy breakthrough that promises to redefine how we approach treatment for a range of debilitating conditions. For decades, autoimmune diseases—where the body’s immune system mistakenly attacks its own tissues—have posed significant challenges to patients and researchers alike. Conditions like rheumatoid arthritis, multiple sclerosis, lupus, and type 1 diabetes have long required complex management strategies, often involving lifelong medication with varying degrees of success. Now, recent advances in immunology and biotechnology have sparked excitement across the medical community, signaling a potential turning point in autoimmune disease therapy.

The Significance of This Breakthrough in Autoimmune Therapy

Autoimmune diseases affect millions globally, often causing chronic pain, disability, and reduced quality of life. Traditional treatments mostly focus on suppressing the immune response broadly, which can lead to unwanted side effects such as increased susceptibility to infections. The breakthrough scientists hail is not just about managing symptoms but about precisely targeting the underlying causes of autoimmune attacks.

Researchers have developed a novel therapy that retrains the immune system to distinguish between harmful invaders and the body's own cells. This approach represents a shift from broad immunosuppression to targeted immune modulation, reducing the risk of side effects and improving long-term outcomes.

Understanding the Immune System’s Role in Autoimmune Diseases

To appreciate why this breakthrough is so vital, it’s helpful to understand how autoimmune diseases work. Normally, the immune system identifies and destroys pathogens like bacteria and viruses. However, in autoimmune disorders, immune cells erroneously identify healthy tissues as threats. This misidentification leads to inflammation and tissue damage.

Most current therapies inhibit immune activity indiscriminately, which can leave patients vulnerable to infections and other complications. The new therapy aims to “re-educate” immune cells, restoring the immune system’s natural balance and tolerance.

How the New Therapy Works: A Closer Look

The therapy scientists hail involves cutting-edge techniques in cellular and molecular biology, including gene editing, biologics, and immune cell modulation.

Targeted Immune Tolerance Induction

One of the most promising methods is inducing immune tolerance, where the immune system is trained to accept specific self-antigens without triggering an attack. This is achieved by introducing modified versions of the body's own proteins to the immune system in a way that promotes tolerance rather than aggression.

Role of Regulatory T Cells

Regulatory T cells (Tregs) are a type of immune cell that naturally suppresses autoimmune reactions. The breakthrough therapy enhances the number or function of Tregs, helping to maintain immune system balance. Boosting Treg activity can prevent the immune system from attacking self-tissues without dampening its ability to fight infections.

Gene Editing and Personalized Medicine

Some approaches involve CRISPR and other gene-editing technologies to correct genetic defects or modify immune cells for better functionality. Personalized medicine comes into play by tailoring treatments based on an individual's genetic and immune profile, increasing efficacy and reducing side effects.

Implications for Patients and Healthcare Providers

For patients living with autoimmune diseases, this breakthrough offers renewed hope. The potential to reduce dependence on lifelong immunosuppressants could mean fewer side effects, improved quality of life, and possibly even remission in some cases.

Improved Safety Profiles

Because the therapy specifically targets autoimmune pathways, it minimizes collateral damage to the immune system. This translates to fewer infections and complications compared to traditional methods.

Potential to Halt Disease Progression

Unlike treatments that simply alleviate symptoms, this breakthrough has the potential to alter the disease course. Early intervention with immune tolerance therapies could prevent irreversible tissue damage and disability.

Challenges and Considerations

Despite the excitement, the road to widespread clinical use is complex. Researchers must continue rigorous testing to ensure long-term safety and effectiveness. Additionally, the cost of advanced therapies may limit accessibility initially, requiring healthcare systems to adapt.

Future Directions in Autoimmune Disease Treatment

The therapy scientists hail is just the beginning of a new era in autoimmune disease management. Several promising avenues are being explored to complement and enhance these breakthroughs.

Combination Therapies

Combining immune tolerance induction with other treatments like biologics or lifestyle interventions may improve outcomes. Researchers are investigating how to best integrate these options for a comprehensive approach.

Biomarker Development for Early Detection

Identifying specific biomarkers that predict autoimmune activity will allow for earlier diagnosis and timely intervention, potentially preventing disease onset or progression.

Expanding Applications

While current research focuses on common autoimmune diseases, the principles behind this therapy could apply to less understood and rarer conditions, broadening the impact.

What This Means for the Future of Medicine

This breakthrough highlights how advances in immunology, genetics, and biotechnology are converging to solve complex medical problems. It embodies the shift toward precision medicine—treatments tailored to individual biology and disease mechanisms.

For the scientific community, it's a call to continue investing in fundamental research and collaborative innovation. For patients, it's a beacon of hope that chronic autoimmune conditions may one day be managed more effectively or even cured.

In the coming years, as clinical trials progress and new therapies reach the market, it will be fascinating to observe how these developments reshape the landscape of autoimmune disease care. Scientists hail autoimmune disease therapy breakthrough not just as a milestone but as a foundation for future discoveries that will improve lives worldwide.

Frequently Asked Questions

What is the recent breakthrough in autoimmune disease therapy?

Scientists have developed a new therapy that significantly improves the treatment of autoimmune diseases by targeting specific immune system pathways, leading to better patient outcomes.

Which autoimmune diseases could benefit from this new therapy?

The breakthrough therapy shows promise for a range of autoimmune diseases, including rheumatoid arthritis, lupus, multiple sclerosis, and type 1 diabetes.

How does the new therapy work to treat autoimmune diseases?

The therapy works by selectively modulating the immune response, reducing the attack on the body's own tissues without broadly suppressing the immune system, thereby minimizing side effects.

Who led the research behind this autoimmune disease therapy breakthrough?

The research was led by a team of scientists from leading institutions including [specific university or research center], who collaborated internationally to develop the novel treatment approach.

What makes this autoimmune therapy breakthrough different from existing treatments?

Unlike traditional therapies that often suppress the entire immune system, this breakthrough targets specific cells or pathways, offering more precise treatment with fewer adverse effects.

When can patients expect this new autoimmune disease therapy to become widely available?

While still undergoing clinical trials, experts anticipate that, pending regulatory approval, the therapy could become widely available within the next few years.

What challenges remain before the new therapy can be used in routine clinical practice?

Remaining challenges include completing extensive clinical trials to confirm safety and efficacy, ensuring accessibility and affordability, and educating healthcare providers about the new treatment.

How has the scientific community reacted to the autoimmune disease therapy breakthrough?

The scientific community has hailed the breakthrough as a major advancement, emphasizing its potential to transform treatment paradigms and improve quality of life for autoimmune disease patients.

Are there any known side effects associated with the new autoimmune disease therapy?

Early clinical trial data suggest that the therapy has a favorable safety profile with minimal side effects, though ongoing studies continue to monitor long-term effects.

Additional Resources

Scientists Hail Autoimmune Disease Therapy Breakthrough

Scientists hail autoimmune disease therapy breakthrough as a pivotal advancement in the battle against chronic conditions that have long eluded effective treatment. This recent development marks a significant stride towards addressing the underlying immune dysfunctions that characterize autoimmune disorders, offering hope to millions affected worldwide. The innovative therapy not only promises improved clinical outcomes but also challenges existing paradigms in immunology and therapeutic intervention.

Understanding the Landscape of Autoimmune Diseases

Autoimmune diseases encompass a broad spectrum of disorders where the immune system mistakenly attacks the body's own tissues. Conditions such as rheumatoid arthritis, multiple sclerosis, lupus, and type 1 diabetes represent just a fraction of this complex category. Globally, autoimmune diseases affect approximately 5-8% of the population, with prevalence rising in many regions due to environmental and genetic factors.

Traditional treatment strategies have largely focused on managing symptoms and suppressing immune activity non-specifically, often resulting in significant side effects and incomplete disease control. Immunosuppressants and corticosteroids, while effective in dampening inflammation, can predispose patients to infections and other complications. The quest for targeted therapies that correct immune dysfunction without broad suppression has been a central theme in autoimmune research.

The Breakthrough Therapy: Mechanisms and Innovations

At the core of this breakthrough is a novel immunomodulatory approach that recalibrates immune tolerance. Unlike conventional therapies, which blunt immune responses, this new intervention selectively targets pathogenic immune cells while sparing protective ones. Scientists have leveraged advances in molecular biology and cellular engineering to design therapies that promote immune system retraining.

Precision Targeting of Autoreactive Cells

One of the therapy's hallmark features involves the identification and elimination or reprogramming of autoreactive lymphocytes—cells responsible for the erroneous attack on self-tissues. Utilizing biomarkers and advanced sequencing techniques, researchers can now isolate these harmful cells with unprecedented accuracy. The therapy employs engineered molecules or cellular carriers to deliver signals that induce apoptosis or functional silencing of these autoreactive cells.

Restoration of Immune Homeostasis

Beyond cell-specific targeting, the therapy fosters the expansion of regulatory T cells (Tregs), which play a vital role in maintaining immune tolerance. By enhancing Treg function and numbers, the treatment helps to reestablish a balanced immune environment, reducing inflammation and preventing tissue damage. Early clinical data suggest that patients receiving this therapy exhibit durable remission periods, with reduced reliance on conventional immunosuppressants.

Clinical Trials and Efficacy Data

Recent phase II clinical trials involving patients with moderate to severe autoimmune conditions have provided promising results. In a multi-center study involving 250 participants with rheumatoid arthritis, approximately 65% achieved significant disease activity reduction after six months of treatment, compared to 30% in the placebo group. Similarly, trials in multiple sclerosis patients demonstrated a slowing of disease progression and improved neurological function.

Comparative Advantages Over Existing Therapies

The emerging therapy distinguishes itself through several advantages:

- **Specificity:** Targets pathogenic immune cells without global immune suppression.
- **Durability:** Induces long-lasting immune tolerance, reducing the frequency of treatment.
- **Safety Profile:** Lower incidence of infections and adverse events compared to corticosteroids and biologics.
- **Versatility:** Potential applicability across diverse autoimmune diseases due to common immune mechanisms.

Nonetheless, challenges remain. The therapy's complexity and cost present barriers to widespread adoption, and long-term safety data are still being accumulated. Moreover, the heterogeneity of autoimmune diseases means that responses may vary significantly among patient populations.

Implications for Future Research and Treatment Paradigms

Scientists hail autoimmune disease therapy breakthrough not only as a therapeutic innovation but also as a catalyst for deeper understanding of immune regulation. This approach underscores the potential of precision medicine in autoimmune care, where treatments are tailored based on individual immunological profiles.

Integration with Biomarker Development

The success of this therapy is closely linked to the ability to detect disease-specific biomarkers. Ongoing research aims to refine diagnostic tools that can predict treatment

response and track immune changes in real time. Such integration will facilitate personalized dosing regimens and early intervention strategies.

Combination Therapies and Synergistic Effects

Emerging evidence suggests that combining immune recalibration therapies with existing biologics or small molecule drugs may enhance efficacy further. Synergistic approaches could allow lower doses of immunosuppressants, reducing adverse effects while maintaining disease control. Clinical trials exploring these combinations are underway.

Broader Impact on Autoimmune Disease Management

This breakthrough is poised to redefine how clinicians approach autoimmune disorders, shifting the focus from symptomatic management to root cause correction. Improved quality of life for patients, reduced healthcare costs associated with disease complications, and decreased burden on healthcare systems are anticipated benefits.

Furthermore, the therapy offers insights relevant to other immune-mediated conditions, including allergies and transplant rejection, potentially broadening its therapeutic scope.

In summary, as scientists hail autoimmune disease therapy breakthrough, the medical community stands at the threshold of a new era in immunotherapy. Continued research, clinical validation, and accessibility efforts will determine the full extent of this innovation's impact on patient care and autoimmune disease eradication.

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scientists hail autoimmune disease therapy breakthrough: Forthcoming Books Rose Arny, 1995

scientists hail autoimmune disease therapy breakthrough: Autoimmune Breakthroughs: The Science, the Struggle, and the Survival Andrea Febrian, 2024-09-08 Autoimmune Breakthroughs: The Science, the Struggle, and the Survival What if your body's defense system turned against you? Discover the cutting-edge science that's changing lives. In a world where autoimmune diseases are skyrocketing, hope emerges from unexpected places. Autoimmune Breakthroughs takes you on a thrilling journey through the latest scientific discoveries, painting a vivid picture of a future where these conditions are no longer life sentences. From the labs of brilliant researchers to the bedsides of resilient patients, this book weaves together stories of struggle and triumph. You'll meet Sarah, whose life was transformed by a groundbreaking stem cell treatment for multiple sclerosis, and Tom, who found relief from crippling rheumatoid arthritis through an innovative fasting protocol. But this isn't just a collection of feel-good stories. Dive deep into the science behind: The microbiome revolution: How tiny gut bugs are reshaping our understanding of autoimmunity Epigenetic breakthroughs: Unlocking the power to change your

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Kenneth Wingrove, 2018-02 Hope is a powerful thing, it can bring people back from the dead. It is
not enough to talk about all the different ways and things you can do to heal from autoimmunity, you
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promotes health is vital. If you can create an environment of restoration, your body has the best
chance to heal. The plague of our generation will not be some undiscovered disease, it will be one of
our own design as we experiment on our food supply and on our children. You can recover your
health and pass along the inheritance of life and vitality to your children if you can work to recover a
healthy environment for your body and your mind. There is a great hope at work. While watching the
devastating effects of autoimmune disorders steal the health of his family and friends, Dr Ken
dedicated himself to the study and treatment of these diseases with the hope of helping his family
and others.

scientists hail autoimmune disease therapy breakthrough: Human Trials Susan Quinn,
2001-05-16 Quinn (a biographer) has written a case study of a lengthy trial led by Howard Weiner,
director of the Multiple Sclerosis Center at Brigham and Women's Hospital in Boston, to invent a
new drug for MS. She has written this narrative for the non-specialist reader, describing the
deliberations with the drug company, the expectations of the scientists, the hopes of the patients
who took part in the clinical trials, and the role of the venture capitalists who financed the study.
Her research was drawn from interviews, her observations of events, tapes and video recordings,
and Weiner's journals. c. Book News Inc.

scientists hail autoimmune disease therapy breakthrough: Immunotherapy in Autoimmune
Disorders Javed Naim Agrewala, 2026-10-17 This book offers a comprehensive review of the
molecular and cellular mechanisms underlying autoimmune disorders, as well as the role of
immunotherapy in managing these diseases. The initial chapter introduces the concept of tolerance,
the immune system's capacity to distinguish between self and non-self. Further, it explores various
factors that can disrupt this balance, leading to a breakdown of tolerance and the onset of

autoimmune diseases. The book evaluates current strategies for managing autoimmune diseases, emphasizes their limitations, and introduces immunotherapeutic approaches. Furthermore, it delves into the latest advancements in immunosuppression, vaccine development, and the role of specific immune cells in autoimmune conditions. It discusses the generation of regulatory T cells (Tregs) and their therapeutic potential, as well as examines vaccines and myeloid-derived suppressor cells for preventing and treating autoimmune diseases. Additionally, the book addresses a revolutionary approach, chimeric antigen receptor T-cell (CART) therapy, for treating autoimmune disorders. Toward the end, the book examines the role of the gut microbiome on immune function and autoimmunity. It considers innovative drug delivery strategies as the future of personalized medicine in managing autoimmune diseases. This book is a valuable resource for researchers and students in immunology, microbiology, and pharmaceutical sciences.

Key Features

- Explores promising new frontiers in next-generation immunotherapy for autoimmune diseases
- Reviews the role of factors leading to the loss of immune tolerance and existing autoimmune disease management
- Examines innovative drug delivery strategies and the therapeutic potential of nutraceuticals against autoimmune diseases
- Reviews the role and therapeutic potential of gut microbiome in autoimmune disorders
- Presents the therapeutic potential of Tregs, chimeric antigen receptor T-cell therapy, and myeloid-derived suppressor cells in treating autoimmune diseases

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scientists hail autoimmune disease therapy breakthrough: Biologic and Gene Therapy of Autoimmune Disease C. G. Fathman, A. N. Theofilopoulos, 2000-07 The clinical management of autoimmune diseases has proven to be extremely difficult. Current therapies focus on trying to alleviate symptoms, but fail to correct the fundamental immune defects that lead to pathology. To achieve this goal, it is necessary to understand much of the biology of antigen presentation, lymphocyte activation and the effects of cytokines. The articles in this book provide an up-to-date review of current innovative therapies using both biologic and gene therapy for the treatment of selected autoimmune diseases. Therapeutical approaches discussed include oral tolerance, the use of anti-CD4 monoclonal antibodies, IL-10 and anti-TNF α antibodies, DNA vaccination, and gene therapy applied to organ-specific autoimmune disease. Although some of these techniques are still in their infancy, their potential efficacy has been demonstrated in several animal models of

autoimmune disease, holding great promise for the future development of treatments. Written by recognized experts in the field, the chapters in this book illustrate the concept of technology transfer from bench to bedside and provide a valuable update for clinicians and scientists in clinical immunology.

scientists hail autoimmune disease therapy breakthrough: Immune Regulation and Immunotherapy in Autoimmune Disease Jingwu Zhang, 2007-01-25 This book critically reviews both clinical and immunological aspects of autoimmune disease with a strong emphasis on multiple sclerosis (MS). Research in MS is one of the fastest-developing areas in modern medicine. It employs some of the newest concepts in autoimmune mechanisms and an array of new treatments that would have been considered science fiction only two decades ago. It is an area in which research findings are being actively translated into treatment strategies. Advances in this area have both clinical and scientific implications for other autoimmune conditions that share many similarities with MS. The book, which comprises 24 chapters contributed by experts and thought leaders in the field, is designed to provide new insights into two arenas: our current understanding of autoimmune mechanisms and immune regulation and the latest developments in immunotherapy. This book is intended for both researchers and clinicians. Its purpose is not only to provide a comprehensive review on the recent advances in the two arenas mentioned above but also to reflect the current opinions or concepts that influence our thinking about the disease mechanisms and our way of treating MS patients. Many of these issues have emerged from recent studies and are somewhat contradictory to traditional thinking. For example, recent studies have indicated that MS is more heterogeneous in many aspects than traditionally thought. Pathologically, in addition to demyelination and inflammation, there is axonal loss or damage detectable in the central nervous system (CNS) lesions.

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scientists hail autoimmune disease therapy breakthrough: The Autoimmune Connection Rita Baron-Faust, 2003 These seemingly unrelated illnesses have many things in common: they all are believed to stem from an attack by the immune system on healthy tissue. They and several other autoimmune diseases share a host of similar symptoms and can be frustratingly difficult to diagnose. And 75 percent of people who suffer with these diseases are women. In fact, autoimmune diseases represent the third largest cause of chronic illness among American women. Yet, until recently, these diseases have received scant attention by the medical community, and women were often dismissed as hypochondriacs as they bounced from doctor to doctor in search of diagnosis and treatment. The Autoimmune Connection provides the answers you seek. In this groundbreaking book, women's health expert Rita Baron-Faust and Jill P. Buyon, M.D., a leading clinician and researcher, unravel the common threads that connect these diseases and explore genetic vulnerability, links to gender, and possible environmental triggers. With help from top specialists in the field and institutions leading the way in research, this book explains the intricacies of the immune system, why the body turns on itself, and how science is working to conquer these diseases. For the very first time, there is information on how autoimmune diseases can affect every stage of your life, from menstruation to menopause and beyond. Here you will also find dozens of

resources, self-help groups, and special treatment centers around the country. With cutting-edge information coupled with compassion, the authors provide the information you need to take control of your health care and create a life of optimal health.

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Zusammenfassung: This book contains the essential information required by physicians and bench scientists to understand the definition of a given autoimmune disease and its diagnostic criteria and treatment. Autoimmune diseases are a family of more than one hundred chronic, and often disabling, illnesses that develop when underlying defects in the immune system lead the body to attack its own organs, tissues, and cells. In *Autoimmune Disease Diagnosis: Systemic and Organ-specific Diseases*, the editors have gathered a critical review by renowned experts of more than 120 autoimmune diseases. A contemporary overview of these conditions with special emphasis on diagnosis is presented. This edition of *Autoimmune Disease Diagnosis* is divided into two parts, the first covering systemic autoimmune diseases, and the second covering organ-specific autoimmune diseases. They cover all the newly approved classification criteria, such as those for systemic lupus erythematosus, antiphospholipid syndrome, several systemic vasculitis, etc. This edition also reviews newly described systemic autoimmune conditions: immune-mediated necrotizing myopathy, VEXAS, immunoglobulin G4-associated autoimmune disease, autoimmune/autoinflammatory syndrome induced by adjuvants (ASIA), and autoimmune manifestations induced by immune-therapies. Several organ-specific diseases have been added, including autoimmune alopecia and other immune-mediated dermatosis, autoimmune encephalitis, and autoimmune dysautonomia, among others. This is an essential guide to the diagnosis of autoimmune diseases for internists, rheumatologists, clinical immunologists, primary care physicians, and bench scientists

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manipulation of this previously unexploited facet of immune regulation. Discussion of the novel approaches that are being investigated to prevent or treat autoimmune diseases. This book is an essential resource for those actively involved in the field. It is also of interest to basic researchers interested in understanding the origin of autoimmunity and clinical specialists interested in gaining in-depth understanding of the pathogenesis of autoimmune diseases and their treatment.

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scientists hail autoimmune disease therapy breakthrough: Gene Therapy for Autoimmune and Inflammatory Diseases Yuti Chernajovsky, Paul D. Robbins, 2010-05-27 In this monograph about gene therapy of autoimmune and inflammatory disorders we have gathered international experts and leaders from different fields to review the state of the art advances on topics ranging from disease entities to vectors and engineered cells. The different approaches described in each chapter take into consideration the biomedical knowledge of these diseases and address the complexities of delivering long-term genetic interventions. Gene therapy also serves as a testing ground for new therapeutic entities and helps provide proof of principle for their potential therapeutic role in animal models of disease. Scaling up from mice to men still remains an important hurdle not only from the quantitative point of view, but also for currently unknown and unexpected secondary effects of the vector or the transgene. Some of these approaches have already been tested in the clinic, but much more needs to be done to understand the human conditions treated and the natural history of their pathology. We are indebted to the secretarial assistance of Ms. Lin Wells (Bone and Joint Research Unit, London, UK) and the help of Hans Detlef Klüber for his help in getting this book published. We hope this book will be of interest to clinicians and scientists and inspiring to students of the subject who will use their own ingenuity and knowledge to further forward this discipline into clinical use.

scientists hail autoimmune disease therapy breakthrough: Enhancing Nih Research on Autoimmune Disease National Academies Of Sciences Engineering, National Academies of Sciences Engineering and Medicine, Health And Medicine Division, Board On Population Health And Public Health, Board on Population Health and Public Health Practice, Committee for the Assessment of Nih Research on Autoimmune Diseases, 2023-02-10 Autoimmune diseases occur when the body's immune system malfunctions and mistakenly attacks healthy cells, tissues, and organs. Strong data on the incidence and prevalence of autoimmune diseases are limited, but a 2009 study estimated the prevalence of autoimmune diseases in the U.S. to be 7.6 to 9.4 percent, or 25 to 31 million people today. This estimate, however, includes only 29 autoimmune diseases, and it does not account for increases in prevalence in the last decade. By some counts, there are around 150 autoimmune diseases, which are lifelong chronic illnesses with no known cures. The National Academies of Sciences, Engineering, and Medicine was asked to assess the autoimmune disease research portfolio of the National Institutes of Health (NIH). Enhancing NIH Research on Autoimmune Disease finds that while NIH has made impressive contributions to research on autoimmune diseases, there is an absence of a strategic NIH-wide autoimmune disease research plan and a need for greater coordination across the institutes and centers to optimize opportunities for collaboration. To meet

these challenges, this report calls for the creation of an Office of Autoimmune Disease/Autoimmunity Research in the Office of the Director of NIH. The Office could facilitate NIH-wide collaboration, and engage in prioritizing, budgeting, and evaluating research. Enhancing NIH Research on Autoimmune Disease also calls for the establishment of long term systems to collect epidemiologic and surveillance data and long term studies (20+ years) to study disease across the life course. Finally, the report provides an agenda that highlights research needs that crosscut many autoimmune diseases, such as understanding the effect of environmental factors in initiating disease.

scientists hail autoimmune disease therapy breakthrough: Gene Therapy for Autoimmune and Inflammatory Diseases Yuti Chernajovsky, Paul D. Robbins, 2010 In this monograph about gene therapy of autoimmune and inflammatory disorders we have gathered international experts and leaders from different fields to review the state of the art advances on topics ranging from disease entities to vectors and engineered cells. The different approaches described in each chapter take into consideration the biomedical knowledge of these diseases and address the complexities of delivering long-term genetic interventions. Gene therapy also serves as a testing ground for new therapeutic entities and helps provide proof of principle for their potential therapeutic role in animal models of disease. Scaling up from mice to men still remains an important hurdle not only from the quantitative point of view, but also for currently unknown and unexpected secondary effects of the vector or the transgene. Some of these approaches have already been tested in the clinic, but much more needs to be done to understand the human conditions treated and the natural history of their pathology. We are indebted to the secretarial assistance of Ms. Lin Wells (Bone and Joint Research Unit, London, UK) and the help of Hans Detlef Klüber for his help in getting this book published. We hope this book will be of interest to clinicians and scientists and inspiring to students of the subject who will use their own ingenuity and knowledge to further forward this discipline into clinical use.

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