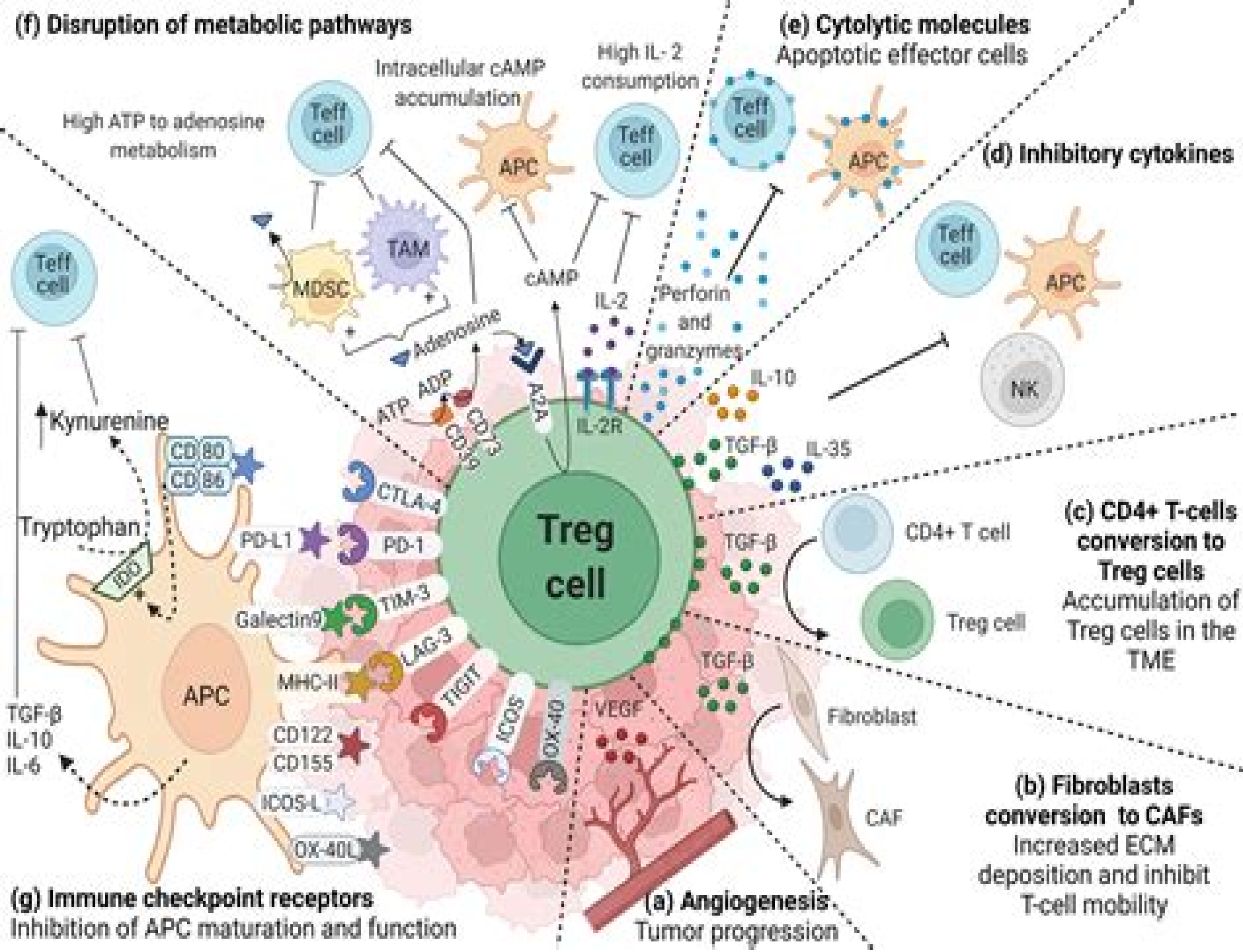


(f) Disruption of metabolic pathways



Regulatory T Cells In Inflammation Progreb In Inflammation Research

Deepali Vijay Sawant



Regulatory T Cells In Inflammation Progreb In Inflammation Research:

Regulatory T Cells in Inflammation Arne N. Akbar, 2005-03-22 Scientific interest in regulatory T cells has revived during the last decade Initially described in the early seventies as suppressor T cells the concept of suppressor regulatory T cells went through turbulent times during the eighties when molecular analysis failed to identify putative suppressor genes The constructive and elegant cellular experiments on regulatory T cells during the nineties initiated by Shimon Sakaguchi and co workers however have brought these cells back into the limelight Nowadays regulatory T cells are regarded as essential components of the immune system and several different subsets of regulatory T cells have been described Considerable regulatory function has been attributed to the CD4 CD25 T cell subset These cells act by suppressing adaptive and possibly also innate immune responses thereby maintaining or restoring the balance between immunity and tolerance The suppressive effects of CD4 CD25 regulatory T cells are cell contact dependent but a role for soluble factors particularly in vivo has been suggested as well The aim of this book is to bring together recent developments and viewpoints in the field of CD4 CD25 regulatory T cells and to discuss the potential use of regulatory T cells in immunotherapy of inflammatory diseases By linking data on regulatory T cells from experimental models with recent findings from the clinic this topical book will be of interest to immunologists and other biomedical researchers as well as clinicians that are interested in regulation and manipulation of the immune response during chronic inflammatory disease

Regulatory T Cells in Inflammation Leonie S. Taams, Arne N. Akbar, Marca H.M. Wauben, 2009-09-03 Regulatory T cells are essential components of the immune system and several different subsets of regulatory T cells have been described Considerable regulatory function has been attributed to the CD4 CD25 T cell subset These cells act by suppressing adaptive and possibly innate immune responses thereby maintaining or restoring the balance between immunity and tolerance The suppressive effects of CD4 CD25 regulatory T cells are cell contact dependent Recent developments and viewpoints in the field of CD4 CD25 regulatory T cells as well as the potential use of regulatory T cells in immunotherapy of inflammatory diseases are discussed in this volume By linking data from experimental models with recent findings from the clinic this book will be of interest to immunologists and other biomedical researchers as well as clinicians interested in the regulation and manipulation of the immune response during inflammatory disease

Regulation of Inflammation in Chronic Disease Jixin Zhong, Guixiu Shi, 2019-07-19 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

Chronic Inflammation Masayuki Miyasaka, Kiyoshi Takatsu, 2016-11-01 This book provides readers with the most

up to date information on cutting edge research concerning chronic inflammation We now know that when inflammation becomes chronic it acts as a strong disease promoting factor in a variety of disorders including arteriosclerosis obesity cancer and Alzheimer disease Chronic inflammation is hence called as the silent killer it upsets the body's homeostatic mechanism insidiously In spite of these developments we know very little about the mechanism underlying chronic inflammation Particularly we do not know precisely what induces chronic inflammation or what promotes its prolongation in a spatiotemporal framework Neither do we have clear knowledge about how chronic inflammation destroys various tissues or how it predisposes individuals to many different diseases To make the situation worse we have no effective treatment against chronic inflammation Since 2010 two major research programs CREST and PRESTO aimed at clarifying the mechanisms underlying chronic inflammation were launched in Japan and investigators of different research areas with a brilliant track record were selected by their research proposals Subsequently they have made their best efforts to answer the conundrum concerning chronic inflammation This book is a compendium of such research efforts In each chapter the CREST or PRESTO funded researchers summarize their original work concerning mechanisms of induction progression or resolution underlying chronic inflammation The most emphasized characteristic is the molecular aspect of chronic inflammation The book thus presents the most recent progress made in the molecular understanding of chronic inflammation

The Immuno-regulatory Role of Natural Killer T Cells in Inflammatory Disease J. L. Croxford, Takashi Yamamura, 2005-01-01

T Cell Differentiation and Function in Tissue Inflammation Amit Awasthi, Ritobrata Goswami, 2020-03-11

Regulatory T cells and Autoimmune Diseases Mitesh Kumar Dwivedi, DeLisa Fairweather, 2024-05-27

Regulatory T cells and Autoimmune Diseases addresses recent findings concerning the role of Tregs in the pathogenesis of autoimmune diseases as well as their therapeutic aspects In particular this book deals with the various Treg based mechanisms which can lead to autoimmune diseases and covers the different aspects of linking Tregs with autoimmune mechanisms involved in disease development by discussing animal models and human studies The book specifically focuses on the Treg based therapeutics and their targets to manage all known autoimmune rheumatic central nervous system bowel liver thyroid kidney myopathic skin blood blood vessel and eye diseases and aims to provide a must have reference for designing therapeutic strategies to treat these autoimmune diseases Additionally the book covers the vaccines induced effects on functioning of Tregs and development of CAR Tregs therapy for these autoimmune diseases and concludes with current challenges and future prospects of Treg based therapeutics It is carefully designed to meet the requirements of both basic and advanced researchers in the area and give new dimensions and insight into the regulatory T cells role in autoimmune disease pathogenesis and therapeutic aspects Brings the reader up to date on the mechanisms of regulatory T cells Tregs in pathogenesis and therapeutics of all autoimmune diseases known to date Provides explicit color illustrations and comprehensible tables for explaining the mechanistic aspects and emerging information in the field Includes human clinical trials and animal model studies for Tregs

in diverse autoimmune diseases for the mitigation of the symptoms of autoimmune diseases Offers scientifically applicable and relevant content for readers of various disciplines including biomedical sciences medical microbiology biotechnology immunology and medicine Study on the Immunomodulatory Potential of Regulatory T Cells Induced by B Cells in Joint Inflammation [1],2016 The Molecular Mechanisms of Chronic Inflammation Development Masaaki Murakami,Toshio Hirano, Inflammation is critical for the development of many complex diseases and disorders including autoimmune diseases metabolic syndrome neurodegenerative diseases cancers and cardiovascular diseases Inflammation comes as two types chronic inflammation which can be defined as a dysregulated form of inflammation and acute inflammation which can be defined as a regulated form Because of its special role in the aforementioned diseases establishing methods to control chronic inflammation is important for developing cures and treatments One challenge for this purpose has been the ability to distinguish chronic and acute inflammation based on molecular biology diagnostics Thus this Research Topic is focused on articles that can shed some new light on the molecular mechanisms responsible for the development of chronic inflammation and its related conditions *From Molecules to Mothers* Robert M. Samstein,Cornell University. Weill Cornell Graduate School of Medical Sciences,2013 Regulatory T Treg cells are critical for control of immune responses and thus maintenance of immune homeostasis in a variety of inflammatory conditions The transcription factor Foxp3 is necessary and sufficient for Treg cell lineage development both in the thymus and the periphery and their ability to suppress immune responses Deficiency of Foxp3 or Treg regulation results in widespread inflammation in mice and humans highlighting its essential role However how Treg cells function to limit inflammation in a variety of settings is poorly understood The work described herein attempts in three studies to elucidate some of the details of how and where regulatory T cells function In the gut IL 10 activation of STAT3 signalling is shown to be essential for Treg cell control of Th17 inflammation and a resulting colitis suggesting that Tregs respond to and amplify existing negative regulatory circuits Using DNase seq and ChIP seq Foxp3 is shown to predominantly utilize preexisting or TCR signalling driven enhancers supporting a model of Foxp3 exploitation of a preformed enhancer landscape in order to direct Treg cell differentiation and function Lastly extra thymically generated Treg cells are shown to be important for maternal fetal tolerance and the mechanisms necessary for their differentiation appear to have evolved in placental mammals Taken together these studies provide further insight into regulatory T cell function and offer the potential for therapeutic development in a variety of disease settings Regulatory T Cells Xuehui He,2023-06 In healthy humans effector immune cells are activated by the presence of pathogens Various signaling pathways coordinate the growth and proliferation of the immune cells to fight the invading pathogen and keep the host healthy A portion of white blood cells known as regulatory T cells Treg help to control the rapid proliferation of effector immune cells including effector T cells as well as antigen presenting cells to make sure the inflammation is kept in check When Treg cells are depleted or undergo loss of suppressive functionality hyperinflammatory disease results However Treg depletion can also provoke and

enhance tumor immunity Therefore targeting Treg cells is a promising approach for both autoimmune disease and cancer immunotherapy To attenuate or enhance Treg mediated immune suppression it is necessary to find a specific molecular marker that can selectively and reliably differentiate between Treg and effector T cells Further elucidation of the cellular and molecular processes underlying the development and function of regulatory immune cells will help to establish new strategies for the treatment and prevention of immune mediated disease

Control of Inflammation, Helper T Cell Responses and Regulatory T Cell Function by BCL6 Deepali Vijay Sawant,2012 Regulatory T Treg cells represent an important layer of immune regulation indispensable for curtailing exuberant inflammatory responses and maintaining self tolerance Treg cells have translational potential for autoimmunity inflammation transplantation and cancer Therefore delineating the molecular underpinnings underlying the development suppressor function and stability of Tregs is particularly warranted The transcriptional repressor BCL6 is a critical arbiter of helper T cell fate promoting the follicular helper Tfh lineage while repressing Th1 Th2 and Th17 differentiation BCL6 deficient mice develop a spontaneous and severe Th2 type inflammatory disease including myocarditis and pulmonary vasculitis suggesting a potential role for BCL6 in Treg cell function BCL6 deficient Treg cells are competent in controlling Th1 responses but fail to control Th2 inflammation in an airway allergen model Importantly mice with BCL6 deleted specifically in the Treg lineage develop severe myocarditis thus highlighting a critical role for BCL6 in Treg mediated control of Th2 inflammation BCL6 deficient Tregs display an intrinsic increase in Th2 genes and microRNA 21 miR 21 expression MiR 21 is a novel BCL6 gene target in T cells and ectopic expression of miR 21 directs Th2 differentiation in non polarized T cells MiR 21 is up regulated in mouse models of airway inflammation and also in human patients with eosinophilic esophagitis and asthma Thus miR 21 is a clinically relevant biomarker for Th2 type pathologies Our results define a key function for BCL6 in repressing Gata3 function and miR 21 expression in Tregs and provide greater understanding of the control of Th2 inflammatory responses by Treg cells

T Cell Regulation in Allergy, Asthma and Atopic Skin Diseases Kurt Blaser,2008-01-01 This book presents the state of the art in cellular and molecular mechanisms regulating the immune response in allergic inflammation Special attention is given to the central role of regulatory T cells Treg in immune regulation and induction of peripheral tolerance as well as to the relevance of Th17 cells in chronic inflammation The importance of Treg and Th17 cells is demonstrated in bronchial asthma atopic eczema contact dermatitis and delayed type hypersensitivity Furthermore T cell mediated regulatory mechanisms in helminthic infections and fungal allergy are discussed Several chapters are devoted to the therapeutic consequences that these recently discovered T cell functions may have Their role as a potential target for specific immunotherapy is evaluated and novel approaches for peripheral tolerance induction and treatment of allergic and asthmatic diseases and inflammation are suggested Stem cell transplantation as a future therapeutic intervention in regulatory T cell disorders is also considered Well edited and up to date this volume is recommended reading for allergologists immunologists dermatologists and any

scientist interested in the immunological events regulating allergic inflammation in general and allergic manifestations in different organs

Translational Studies on Inflammation Ane C.F. Nunes,2020-01-08 Inflammation is known worldwide from the bench to the bedside but it is a hard theme to approach with one single point of view In this sense a selection of translational studies would support the medical scientific community to better understand the complex network of the inflammatory process its maintenance and potential treatment targets The eleven chapters that compose this book present interesting insights into inflammation and its mechanisms merging classic background with innovative approaches From the molecular basis to experimental models the chapters selected for this book bring to readers at different academic levels updated and practical data on inflammation Find out what drives interdisciplinary medical research on inflammation and enjoy this informative collection

After Major Injury Regulatory T-cells Suppress Inflammation and Mortality from a "second-hit" Ann Marie McKenna,2009

Cellular Stress and Inflammation: How the Immune System Drives Tissue Homeostasis Fabrizio Antonangeli,Francesca Velotti,Ola Grimsholm,Marianna Nicoletta Rossi,2021-05-10

The role of regulatory T cells in controlling inflammatory responses Marco Romano,Joshua Daniel Ooi,Estefania Nova-Lamperti,Thomas Wekerle,2023-04-17

Inflammation, Chronic Diseases and Cancer Mahin Khatami,2012-03-09 This book is a collection of excellent reviews and perspectives contributed by experts in the multidisciplinary field of basic science clinical studies and treatment options for a wide range of acute and chronic inflammatory diseases or cancer The goal has been to demonstrate that persistent or chronic unresolved or subclinical inflammation is a common denominator in the genesis progression and manifestation of many illnesses and or cancers particularly during the aging process Understanding the fundamental basis of shared and interrelated immunological features of unresolved inflammation in initiation and progression of chronic diseases or cancer are expected to hold real promises when the designs of cost effective strategies are considered for diagnosis prevention or treatment of a number of age associated illnesses such as autoimmune and neurodegenerative diseases as well as many cancers

Diet, immunity and inflammation A. Kiliç,D.A. Kesper,P.I. Pfefferle,H. Renz,2013-09-30 For several decades the incidence and prevalence of chronic inflammatory diseases have been increasing particularly in westernized countries These diseases include allergic conditions asthma eczema as well as autoimmune diseases It is now well established that the development of clinical phenotypes is the result of an intimate interaction between genetic predisposition and environmental exposures The adaptive immune system plays an important role in orchestrating the inflammatory response In this regard T helper cell differentiation into Th1 Th2 Th17 Treg and other T cell subsets plays an important role Recent data further indicate that there is a high degree of flexibility and plasticity among these effector cells T helper cell differentiation is tightly controlled by epigenetic mechanisms These include DNA methylation histone acetylation and the role of microRNA Epigenetic regulation represents an important mode of action for environmental factors including nutritional agents stress and microbial compounds to regulate gene expression resulting in disease development

Tissue-resident Memory Tr1 Cells, Interleukin-10, and the Extracellular Matrix in Airway Inflammation Carlos Obed Medina, 2020 Interleukin 10 IL 10 is an anti inflammatory cytokine with pleiotropic effects on antigen presentation T cell activation and other immune phenotypes IL 10 is a crucial regulator of immune responses including those involved in type 2 allergic responses autoimmunity and inflammation induced fibrosis IL 10 is particularly important in allergic asthma a common debilitating disease that disproportionately affects children minorities and urban populations Regulatory T cells including Foxp3 regulatory T cells Treg and type 1 regulatory T cells Tr1 play a significant role in IL 10 production These tolerogenic cell types have been proposed to contribute to immune tolerance in different perhaps distinct contexts However while Foxp3 Treg biology has been investigated extensively Tr1 biology is relatively poorly understood Recent efforts have sought to provide IL 10 exogenously or to induce human Tr1 cells for therapeutic treatment of allergic asthma and other disorders However these efforts are stymied by limitations in our understanding of Tr1 biology and the factors that govern IL 10 production Extracellular matrix ECM molecules including hyaluronan HA and heparan sulfate HS may modulate both Tr1 induction and IL 10 activity and provide a novel potential mechanism for enhancing existing Tr1 cell therapies HA acts as a tissue integrity signal capable of promoting homeostatic tolerance in its high molecular weight form or amplifying pro inflammatory responses in its fragmented low molecular weight form Heparin and HS can bind a number of soluble growth factors chemokines and cytokines including IL 10 and modulate their activity in vitro and in vivo In this thesis I have examined the cells and tissue ECM factors that influence Tr1 and IL 10 levels in the lung with an emphasis on allergic inflammation Moreover I present investigations into the impact of extracellular matrix molecules on tolerogenic cytokines and regulatory T cells In Chapter 2 I describe my work characterizing the cells and kinetics involved in IL 10 production in a mouse model of allergic asthma I report that Tr1 cell frequencies rise with inflammation and comprise the majority of the IL 10 producing cells at the peak of inflammation These Tr1 cells are capable of forming antigen specific tissue resident memory but lose their inhibitory phenotype and propensity to produce IL 10 upon secondary challenge Continual stimulation is required to maintain expression of the transcription factors Irf1 and Batf and consequent IL 10 production in memory Tr1 cells This loss of IL 10 production in memory Tr1 cells suggests a critical need for novel approaches to maintain Tr1 phenotype long term within tissue extracellular matrix In Chapter 3 I describe the use of high molecular weight hyaluronan HMW HA to promote the induction of IL 10 producing Tr1 cells and tolerance to airway allergens We created a modified version of hyaluronan cross linked to antigen which we call XHA which allows for the delivery of allergens in the context of anti inflammatory co stimulation Intranasal administration of Ova loaded XHA in previously sensitized mice reduced inflammatory cell counts airway hyperresponsiveness allergen specific IgE and Th2 cytokine production This inhibition was mediated by the suppressive effects of HA on dendritic cell maturation and was dependent on IL 10 production Importantly these effects were durable for weeks providing an advantage over current desensitization protocols In Chapter 4 I describe

the therapeutic delivery of IL 10 using HA and HS hydrogels in a mouse model of bleomycin induced fibrosis The inclusion of HS facilitates the slow release of IL 10 prolonging its bioavailability and increasing its efficacy relative to IL 10 administered alone This work highlights the anti fibrotic effects of IL 10 and the potential for using ECM for delivering this Chapter 5 focuses on the role of HS and the enzyme heparanase HPSE in regulatory T cell homeostasis I report that Foxp3 Treg use HPSE to access IL 2 a tolerogenic cytokine that promotes Treg survival from the tissue ECM These investigations highlight the importance of ECM factors in cytokine signaling and immune regulation Finally in Chapter 6 I describe the impact of a HS mimetic PG545 on lymphocyte polarization I demonstrate that PG545 promotes Foxp3 Treg polarization and can ameliorate allergic hypersensitivity in the skin Together these studies highlight crucial insights into IL 10 and regulatory T cell mediated tolerance in airway inflammation These studies open the door for further study into the roles and potential utilization of extracellular matrix and tissue specific cues to promote the maintenance of airway tolerance

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