

SUBJECT INDEX TO VOLUME 5

- Adenoviruses 229
induced acute/persistent infection 229
- Allergens 246
- Allergen database 38
allergome as 39
SDAP database as 39
- Allergen immunotherapy 15,43
cellular mechanisms of 16
cellular regulation of 15
drug targets of 18
immunological mechanisms of 15
molecular mechanisms of 17
non-injection routes for 43
oral/bronchial/nasal immunotherapy for 44
role of interleukin-10 17
role of transforming growth factor- β 17
- Allergen-specific immunotherapy (SIT) 5,243
adjuvants in 247
allergen fragments for 9
allergen fusion for 10
allergen oligomers for 9
allergen-ISS conjugates (AIC) for 7
alternative treatments/adjuvants supporting 10
and anti-IgE therapies 10
antibodies in 249
chemically modified allergens for 6
chimeras for 9
deletion mutants for 9
efficacy of 244
genetically modified allergens for 8
maleylated allergens for 7
modifying recombinant allergens to 5
oligomeric/monomeric allergoids for 7
peptides in 246
shuffled molecules for 9
site-directed mutants for 8
toll-like receptor ligands in 247
- Allergen vaccines 53
recombinant expression systems for 53
- Allergic aspergillosis 219
acute models of 221
chemokines in 219
chronic models of 221
- Allergic disease 243
immunotherapeutic targeting of 243
subcutaneous immunotherapy for 244
sublingual immunotherapy for 244
- Allergy 35,141,211,240
alterations in regulatory T cells in 213
as therapeutic potential for allergic diseases ... 214
bioinformatic analysis of 40
CD4⁺CD25⁺ regulatory T cells 240
characterization of 36
implications for therapeutic strategy to 211
inducible T_{REGs} in 212
information management for study of 35
mouse studies of 213
natural CD4⁺CD25⁺ T_{REGs} in 211
PI-T_{reg} in 144
related data of 36
role of genomics 36
role of natural/induced regulatory T cells 141
role of proteomics 36
role of regulatory T cells in 211
role of T_{REGs} in 213
screening of epitopes of 37
targets for immunotherapy of 141
Th10 cells in 144
Th3 cells in 144
- Analgesia 118
COX suppression in 118
nitric oxide in 118
- Annexin 1 107
as agonist for lipoxin A₄ receptor 109
glucocorticoid biology of 107
- Anti-inflammation 107
- Aspirin-triggered EPI-lipoxins 91
- Asthma 253
studies in model of chronic type 254
therapeutic implications for 255
TH2/TH1 cytokines in 253
- Autoimmune disease 141
PI-T_{reg} in 144
role of natural/induced regulatory T cells 141
targets for immunotherapy of 141
Th10 cells in 144
Th3 cells in 144
- Bacterial expression system 53
- Blomia tropicalis* allergens 261
allergenic cross-reactivity of 262
as source of dust mite allergens 261
molecular cloning of 261
- Bystander suppression 186
- CD4⁺CD25⁺ regulatory T cells (T_{REGs}) 149,239
antigen-specificity of 149,152
for induction of transplantation tolerance 241
function of 153
in allergy 239
in asthma 240
in autoimmune disease 239
in experimental autoimmune disease 240
in transplant rejection 239
generation of 149
peripheral expansion of 151

peripheral generation of	150	mediators	108
thymic generation of	149	multiple mechanisms of action of	108
Chemokines	219	Gut	191
in animal models of allergic aspergillosis	221	as site for induction of antigen specific	
Cross-reactivity	203	regulatory T cells	192
botanical vs. molecular classification of		IL-10 in	195
pollen based	204	regulatory T cells in	191
Disease models	197	sites of IT _{REG} induction in	193
efficiency of IT _{REG} /NT _{REG} in	197	sites of mucosal IT _{REG} induction in	195
DNA	10	TGF- β in	196
based vaccines translating modified allergen		TLR in	195
genes	10	Histamine receptor modulation	72
15-Epi-lipoxins	81	Homologous allergens	206
as lipid mediators	81	immunodominance of conserved epitopes in ..	206
aspirin-triggered	81	House dust mite (HDM)	261
biosynthetic pathways of	81	Human lung diseases	219
15-Epi-LX pathway for	83	animal models of	219
Food allergy	23	chemokines as markers for ABPA in	219,222
cytokine therapy in	32	Hyaluronan	257
humanized monoclonal anti-IgE in	27	dichotomous effect on pulmonary	
identification of markers of persistent	26	inflammatory response	258
immunostimulation oligodeoxynucleotide-		therapeutic use in lung	257
based immunotherapy in	31	IgE production	204
management standards for	26	immunological basis for	204
mutated allergen protein immunotherapy in	30	Immune self-tolerance	167
peptide immunotherapy in	30	TGF- β 1/Foxp3 regulatory axis in	167
plasmid DNA-based immunotherapy in	30	Immunomodulators	196
prevalence of	23	for IL-10	196
probiotics in	28	Immunotherapy	5,23,243
traditional Chinese medicine (TCM) in	29	for food allergy	23
Food hypersensitivity	24	modified recombinant allergens for	5
animal models of	24	naturally occurring hypoallergens for	8
humanized monoclonal anti-IgE in	27	pathophysiology of	24
mutated allergen protein immunotherapy in	30	probiotics in	28
peptide immunotherapy in	30	recombinant allergens in	246
therapy for IGE-mediated	26	traditional Chinese medicine (TCM) in	29
Forkhead/winged-helix box (Foxp3) transcription		Inflammatory mediators	122
factor	168	in RA	122
functional association of	168	Innate immune system	229
molecular mechanisms of	169	complex effect of adenovirus early region	
molecular mechanisms underlying		proteins on	229
expression of	169	suppressive effect of adenovirus early	
structure of	168	genes on	232
TGF- β /as modulator of expression of	170	Insect cell culture	55
Gastric protection	133	expression in	55
aspirin-triggered lipoxins in	133	Interferon- γ	253
nitric oxide in	133	as target in chronic asthma	253
NO-aspirin in	133	Intestine	191
Glucocorticoids	108	IL-10 in	195
as first class of endogenous anti-inflammatory			

- TGF- β in 196
 TLR in 195
- Lipoxin 81,91,134,136
 analogs of 85
 anti-inflammatory functions of 91
 as counter-regulatory eicosanoids 91
 as lipid mediators 81
 biochemistry of 85
 biosynthetic pathways of 81
 counter-regulatory effects of inflammation 93
 effects on human T cells 98
 15-Epi-LX pathway for 83
 in adaptive immunity 102
 in allergic diseases 88
 in allergic responses 99
 in arthritis 88
 in asthma 88
 in cutaneous inflammatory diseases 88
 in gastric damage 88
 in immunomodulation 91
 in intestinal inflammatory diseases 88
 in periodontitis 88
 in renal diseases 88
 in reperfusion injury 88
 15/5-LO route for 81
 12/5-LO route for 82
 measurements in clinical studies 88
 metabolism of 84
 receptors for 97,107
 role in ALX-R transgenic mice 97
 roles in immunomodulation 98
 therapeutic use of 88
 vascular actions of 91
- Lung inflammation 230
 effect of adenovirus E1A gene on 230
- Mammalian cell culture expression system 56
- Mastocytosis 61
 anesthesia in 69
 antihistamine against 63
 carboxypeptidase A3 against 65
 cardiovascular symptoms of 63
 chymase against 65
 cutaneous signs/symptoms of 62
 effect of hymenoptera venom sensitivity 71
 gastrointestinal symptoms of 62
 general/constitutional symptoms of 62
 H1-receptor antagonists against 64
 H2-receptor antagonists against 64
 in bone marrow/lymphatic tissues 62
 in pregnancy 63
 inhibition of membrane derived lipid
 mediators 65
 management of 69
 mast cell mediator-related symptoms in 61
 neuropsychiatric symptoms of 63
 pharmacological basis of therapeutics for 63
 pulmonary symptoms of 63
- role of antibodies 72
 skeletal symptoms of 62
 treatment of 61,68
 tryptase against 64
- Mutated allergen proteins 31
 with bacterial adjuvants-heat-killed *Listeria*
 /heat killed *Escherichia coli* 31
- Natural regulatory T cells 141
- Nitric oxide 107,115,133
 in acetic acid-induced abdominal constrictions 117
 in inflammation 115
 intravital microscopy of 117
- NO-aspirin 136
- Non-injection routes 43
 history of 43
- NO-NSAIDs 116,121
 carrageenan-sponge/airpouch models for 116
 chemistry of 121
 clinical readout of 128
 effect on iNOS 127
 effect on cardiovascular system 128
 effect on gastrointestinal tract 128
 effect on immune system 127
 effect on inflammatory mediators 121
 effect on kidney 128
 effect on pro-inflammatory cytokines 125
 in adjuvant-induced arthritis 117
 in apoptosis 127
 in blood coagulation 127
 in carrageenan paw oedema 116
 in hyperalgesia 116
 in inflammation 129
 in pain 129
 in platelet aggregation 129
 indications of 129
 mitochondrial function of 127
 pre-clinical data of 116
 to inhibit COX-isoenzymes 124
 to modulate leukocyte recruitment 126
- Oral tolerance 179
 CD4⁺ T cells in 183
 CD8₊ T cells in 182
 clonal anergy in 181
 clonal deletion in 180
 mechanisms of induction of 180
 regulatory T cells in 181,182
 $\gamma\delta$ T cells/NK.1.1 T cells in 182
- Panallergens 203
 pollen-cross allergenicity mediated by 203
 T cell cross reactivity in 205
- Plant based expression systems 56
- Pollen-food allergy syndrome 27
 pollen immunotherapy for 27

Polysensitization	207	as counter-regulatory eicosanoids	91
generation of	207	counter-regulatory effects of inflammation	93
Regulatory T cells	157,167,191,211	TGF- β	170,179
antigen-specific CD4 ⁺ regulatory T cells in	191	expression/cell signaling pathways of	170
effect of immunosuppressive compounds	159	in oral tolerance induction	184
effect of monoclonal antibodies	160	producing cells of	179
implications for health/disease	167	production of	184
in allergic diseases	213	TGF- β 1	172
in immune tolerance	167	anti-proliferative/anti-apoptotic functions of ..	172
in transplantation tolerance	159	immunosuppressive functions <i>in vivo</i>	172
<i>in vivo</i> induction of	159	in T _{REG} cell populations	172,174
<i>in vivo</i> migration of	159	maintains Foxp3 in T _{REG} cell populations	174
induction of transplantation tolerance <i>via</i>	157	tolerogenic functions in effector T cell	
phenotype of	157	populations	172
suppressive mechanism of	157	T-lymphocytes	204
Sublingual immunotherapy	43	Transplantation	157
in respiratory allergy	45	adaptive T _{REGs} in	158
safety of	46	<i>in vivo</i> migration in	158
vs SCIT	47	tolerance in	158
mechanisms of action of local routes of	47	Yeast based expression	55
Synthetic lipoxin analogs	91		
anti-inflammatory functions of	91		
in immunomodulation	91		