IN THIS ISSUE

BRIEF REVIEWS
6563 Signaling Pathways in T Follicular Helper Cells
Julia Rolf, Kirsten Fairfax, and Martin Turner

CUTTING EDGE
6569 Cutting Edge: Lack of High Affinity Competition for Peptide in Polyclonal CD4+ Responses Unmasks IL-4 Production
Joshua D. Milner, Nicolas Fazilleau, Michael McHeyzer-Williams, and William Paul

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION
6575 Vasodilator-Stimulated Phosphoprotein Regulates Inside-Out Signaling of β2 Integrins in Neutrophils
6585 Control of T Cell Reactivation by Regulatory Qa-1–Restricted CD8+ T Cells
Aditi Varthaman, Jamila Khallou-Laschet, Marc Clement, Giulia Forunoi, Hye-Jung Kim, Anh-Thu Gaston, Michael Dussiot, Giuseppina Caligiuri, André Herbeline, Srinivas Kaveri, Harvey Cantor, and Antonino Nicoletti
6592 High-Affinity B Cell Receptor Ligation by Cognate Antigen Induces Cytokine-Independent Isotype Switching
Marian L. Turner, Lynn M. Corcoran, Robert Brink, and Philip D. Hodgkin
6600 Human CD34-Derived Myeloid Dendritic Cell Development Requires Intact Phosphatidylinositol 3-Kinase–Protein Kinase B–Mammalian Target of Rapamycin Signaling
Lianne van de Laar, Miranda Buitenhuis, Felix M. Wensveen, Harry L. A. Janssen, Paul J. Coffer, and Andrea M. Wolman
6612 Human Intestinal Lamina Propria CD1c+ Dendritic Cells Display an Activated Phenotype at Steady State and Produce IL-23 in Response to TLR7/8 Stimulation
Stephanie M. Dillon, Lisa M. Rogers, Rawleigh House, Lydia A. Hostetler, Jonathan Buhrman, Martin D. McCarter, and Cara C. Wilson

On the cover: Human airway smooth muscle cells express thymic stromal lymphopoietin receptor subunits. Note the merged colocalization of thymic stromal lymphopoietin receptor (green), IL-7Ra (red), and nuclei (blue) in primary human airway smooth muscle cells. Shan, L., N. S. Redhu, A. Saleh, A. J. Halayko, J. Chakir, A. S. Gounni. 2010. Thymic stromal lymphopoietin receptor-mediated IL-6 and CC/CXC chemokines expression in human airway smooth muscle cells: role of MAPKs (ERK1/2, p38 and JNK) and STAT3 Pathways. J. Immunol. 184: 7134–7143.
Effects of Polyclonal IgG Derived from Patients with Different Clinical Types of the Antiphospholipid Syndrome on Monocyte Signaling Pathways
Anastasia Lambrianides, Christopher J. Carroll, Silvia S. Pierangeli, Charis Pericleous, Ware Branch, Jurhee Rice, David S. Latchman, Paul Townend, David A. Isenberg, Anisur Rahman, and Ian P. Giles

TGF-β–Induced Myelin Peptide-Specific Regulatory T Cells Mediate Antigen-Specific Suppression of Induction of Experimental Autoimmune Encephalomyelitis
Hong Zhang, Joseph R. Podojil, Judy Chang, Xunrong Luo, and Stephen D. Miller

Increased Hematopoietic Cells in the mertk−/− Mouse Peritoneal Cavity: A Result of Augmented Migration
Julie C. Williams, Nikki J. Wagner, H. Shelton Earp, Barbara J. Vilen, and Glenn K. Matsushima

NK Cells Delay Allograft Rejection in Lymphopenic Hosts by Downregulating the Homeostatic Proliferation of CD8+ T Cells
Daniel Zecher, Qi Li, Martin H. Oberharnscheids, Anthony J. Demetris, Warren D. Shlomchik, David M. Rothstein, and Fadi G. Lakkis

TLR Stimulation of Prostate Tumor Cells Induces Chemokine-Mediated Recruitment of Specific Immune Cell Types
Roberta Galli, Donatella Starace, Roberta Buia, Daniela F. Angelini, Alessio Paone, Paola De Cesaris, Antonio Filippini, Claudio Sette, Luca Battistini, Elio Ziparo, and Anna Riccioli

Synergy between IL-15 and Id2 Promotes the Expansion of Human NK Progenitor Cells, Which Can Be Counteracted by the E Protein HEB Required To Drive T Cell Development
Remko Schotte, Wendy Donije, Mabo Nagasawa, Yuko Yasuda, Arjen Q. Bakker, Hergen Spits, and Bianca Blom

Phosphoantigens Overcome Human TCRγ9+ γδ Cell Immunosuppression by TGF-β: Relevance for Cancer Immunotherapy
Aude-Hélène Capietto, Ludovic Martinet, Delphine Cendron, Sérén Fruchon, Frédéric Pont, and Jean-Jacques Fournié

Human β-Defensin 2 and 3 and Their Mouse Orthologs Induce Chemotaxis through Interaction with CCR2
Johann Röhrl, De Yang, Joost J. Oppenheim, and Thomas Hehlgens

Dendritic Cell-Directed CTLA-4 Engagement during Pancreatic β Cell Antigen Presentation Delays Type 1 Diabetes
Subha Karumanchil-Melekhil, Nicolas Perez, Ruobing Li, Bellur S. Prabhakar, Mark J. Holterman, and Cheniamaramarashian Vasu

Human Tumor Antigen-Specific Helper and Regulatory T Cells Share Common Epitope Specificity but Exhibit Distinct T Cell Repertoire
Julien Fourcade, Zhaojun Sun, Pavol Kudela, Bratislav Janjic, John M. Kirkwood, Talal El-Hafnawy, and Hassane M. Zarour

Distinct Roles for IL-2 and IL-15 in the Differentiation and Survival of CD8+ Effector and Memory T Cells
Diana M. Mitchell, Eugene V. Ravkov, and Matthew A. Williams

Impact of TCR Reactivity and HLA Phenotype on Naive CD8 T Cell Frequency in Humans
François Legoux, Emilie Debeaupuis, Klara Echasserieau, Henri De La Salle, Xavier Saulquin, and Marc Bonneville

Loss of Naive T Cells and Repertoire Constriction Predict Poor Response to Vaccination in Old Primates
Luka Cićin-Sain, Sue Smyk-Paerson, Norren Carrier, Laura Byrd, Caroline Koudelka, Tammie Robinson, Gwendolyn Sagarbick, Shane Tackitt, Alfred Legasse, Miranda Fischer, Dragan Nikolic-Žugich, Byung Park, Theodore Hobbs, Cynthia J. Doane, Motomi Mori, Michael T. Ashelom, Deborah A. Lewinsohn, and Janko Nikolic-Žugich

PLZF Induces the Spontaneous Acquisition of Memory/Effecter Functions in T Cells Independently of NKT Cell-Related Signals
Damian Kovalovsky, Eric S. Alonzo, Olisambu U. Uche, Maggie Eidsom, Kim E. Nichols, and Derek B. Sant’Angelo
6756 Homeostatic Expansion and Phenotypic Conversion of Human T Cells Depend on Peripheral Interactions with APCs
Takashi Onee, Hannes Kalscheuer, Meredith Chittenden, Guiling Zhao, Yong-Guang Yang, and Megan Sykes

6766 Sepsis-Induced Apoptosis Leads to Active Suppression of Delayed-Type Hypersensitivity by CD8+ Regulatory T Cells through a TRAIL-Dependent Mechanism
Jacqueline Uninger, Hirotaka Kazama, Jacqueline S. McDonough, Thomas S. Griffith, Richard S. Hotchkiss, and Thomas A. Ferguson

6773 MicroRNA-21 and MicroRNA-148a Contribute to DNA Hypomethylation in Lupus CD4+ T Cells by Directly and Indirectly Targeting DNA Methyltransferase 1
Wen Pan, Shu Zhu, Min Yuan, Huijuan Cui, Lijia Wang, Xiaohong Luo, Jia Li, Haibo Zhou, Yuanjia Tang, and Nan Shen

6782 B Cell Development in GALT: Role of Bacterial Superantigen-Like Molecules
Kari M. Severson, Michael Mallozzi, Adam Driks, and Katherine L. Knight

6790 NK Cell Regulation of CD4 T Cell-Mediated Graft-versus-Host Disease
Magali Noval Rivas, Marc Hazzan, Kathleen Weatherly, Florence Gaudray, Isabelle Salmon, and Michel Y. Braun

6799 Downregulation of Th17 Cells in the Small Intestine by Disruption of Gut Flora in the Absence of Retinoic Acid
Hye-Ran Cha, Sun-Young Chang, Jae-Hoon Chang, Jae-Ouk Kim, Jin-Young Yang, Chang-Hoon Kim, and Mi-Na Kweon

6807 Differential Roles of IL-2–Inducible T Cell Kinase-Mediated TCR Signals in Tissue-Specific Localization and Maintenance of Skin Intraepithelial T Cells
Mingcan Xia, Qian Qi, Yan Jin, David L. Wiest, Avery August, and Na Xiong

6815 Immunosuppressive Effect of Quercetin on Dendritic Cell Activation and Function
Ren-Yeong Huang, Yen-Ling Yu, Wan-Chien Cheng, Chun-Nan OuYang, Earl Fu, and Ching-Liang Chu

6822 Invariant NKT Cell Development Requires a Full Complement of Functional CD3 ζ Immunoreceptor Tyrosine-Based Activation Motifs
Amy M. Becker, Jon S. Blevins, Farol L. Tomson, Jennifer L. Eitson, Jennifer J. Medeiros, Felix Yarovinsky, Michael V. Norgard, and Nicolai S. C. van Oers

6833 Blockade of CCL1 Inhibits T Regulatory Cell Suppressive Function Enhancing Tumor Immunity without Affecting T Effector Responses
Dominque B. Hoelzinger, Shannon E. Smith, Nouwea Mirza, Ana Lucia Dominguez, Soraya Zorro Manrique, and Joseph Lustgarten

6838 An Independent Subset of TLR Expressing CCR2-Dependent Macrophages Promotes Colonic Inflammation
Andrew M. Platt, Calum C. Bain, Yvonne Bordon, David P. Sester, and Allan McI. Mowat

6858 Fusion Proteins for Versatile Antigen Targeting to Cell Surface Receptors Reveal Differential Capacity to Prime Immune Responses
Roland Kratzer, François-Xavier Mauvais, Anne Bargevin, Émilie Barilleau, and Peter van Endert

6869 Diversity of TCRs on Natural Foxp3+ T Cells in Mice Lacking Aire Expression
Danielle Daniely, Joanna Kern, Anna Cebula, and Leszek Ignatowicz

6872 Amphioxus SARM Involved in Neural Development May Function as a Suppressor of TLR Signaling
Shaochun Yuan, Kui Wu, Manyi Yang, Liqun Xu, Ling Huang, Huiling Liu, Xin Tao, Shengfeng Huang, and Anlong Xu

6885 Carbamylation-Dependent Activation of T Cells: A Novel Mechanism in the Pathogenesis of Autoimmune Arthritis
Piotr Mydel, Zeneng Wang, Mikael Brisslert, Annelie Hellvard, Leif E. Dahlberg, Stanley L. Hazen, and Maria Bokarewa

6891 Meningeal Mast Cells Affect Early T Cell Central Nervous System Infiltration and Blood-Brain Barrier Integrity through TNF: A Role for Neutrophil Recruitment?
Blayne A. Sayed, Alison L. Christy, Margaret E. Walker, and Melissa A. Brown
Multiple Mechanisms Downstream of TLR-4 Stimulation Allow Expression of NKG2D Ligands To Facilitate Macrophage/NK Cell Crosstalk
Philipp Eissmann, J. Henry Evans, Maryam Mehrabi, Emma L. Rose, Shlomo Nedvetzki, and Daniel M. Davis

Structural and Functional Insights of RANKL–RANK Interaction and Signaling
Changzhen Liu, Thomas S. Walter, Peng Huang, Shiqian Zhang, Xuehai Zhu, Ying Wu, Lucy R. Wedderburn, Peifu Tang, Raymond J. Owens, David I. Stuart, Jingshan Ren, and Bin Gao

F$_1$-Adenosine Triphosphatase Displays Properties Characteristic of an Antigen Presentation Molecule for V$_{y}$9V$_{2}$ T Cells

The Microtubule Regulator Stathmin Is an Endogenous Protein Agonist for TLR3
Malika Bsibsi, Jeffrey J. Bavrmovics, Mario H. J. Vogt, Eveline van Duijvenvoorden, Aabed Baghat, Carla Persoon-Deen, Frans Tielen, Richard Verbeek, Inge Huitinga, Bernhard Ryffel, Alexander Kros, Wouter H. Gerritsen, Sandra Amor, and Johannes M. van Noort

The Optimal Antigen Response of Chimeric Antigen Receptors Harboring the CD3z Transmembrane Domain Is Dependent upon Incorporation of the Receptor into the Endogenous TCR/CD3 Complex
John S. Bridgeman, Robert E. Hawkins, Steve Bagley, Morgan Blaylock, Mark Holland, and David E. Gilham

Evolutionarily Conserved TCR Binding Sites, Identification of T Cells in Primary Lymphoid Tissues, and Surprising Trans-Rearrangements in Nurse Shark
Michael F. Cricitiello, Yuko Ohsaka, Mark Saltis, E. Churchill McKinney, and Martin F. Flajnik

Bam32/DAPP1 Promotes B Cell Adhesion and Formation of Polarized Conjugates with T Cells
Monther Al-Alwan, Sen Hou, Ting-ting Zhang, Kennedy Makondo, and Aaron J. Marshall

Transcription-Dependent Mobilization of Nucleosomes at Accessible TCR Gene Segments In Vivo
Hrisavgi D. Kondilis-Mangum, Robin Milley Cobb, Oleg Osipovich, Sruti Srivatsan, Eugene M. Oltz, and Michael S. Krangel

Stabilization of an E3 Ligase–E2–Ubiquitin Complex Increases Cell Surface MHC Class I Expression
Lidia M. Duncan, James A. Nathan, and Paul J. Lehner

Individual Variation in the Germline Ig Gene Repertoire Inferred from Variable Region Gene Rearrangements

The Differential Evolutionary Dynamics of Avian Cytokine and TLR Gene Classes
Tim Downing, Andrew T. Lloyd, Cliona O’Farrelly, and Daniel G. Bradley

African-Derived Genetic Polymorphisms in TNFAIP3 Mediate Risk for Autoimmunity

Human Neuronal Cells Possess Functional Cytoplasmic and TLR-Mediated Innate Immune Pathways Influenced by Phosphatidylinositol-3 Kinase Signaling
Daniel C. Pelletier, Allison Simms, Jocelyn R. Farmer, and David J. Miller
TLR9-Dependent Induction of Intestinal α-Defensins by *Toxoplasma gondii*
David M. Foureau, Daniel W. Mielcarek, Laurence C. Menard, Julie Schultbess, Catherine Werts, Virginie Vasseur, Bernhard Ryffel, Lloyd H. Kasper, and Dominique Buzoni-Gatel

HIV-1 Nef Triggers Macrophage Fusion in a p61Hck- and Protease-Dependent Manner
Christel Vérollet, Yan Mei Zhang, Véronique Le Cabec, Julie Mazzolini, Guillaume Charrière, Arnaud Labrousse, Jérôme Bouchet, Indira Medina, Erik Biesen, Florence Niedergang, Serge Bénichou, and Isabelle Maridonneau-Parini

P2X<sub>7</sub> Receptor-Mediated Killing of an Intracellular Parasite, *Toxoplasma gondii*, by Human and Murine Macrophages

Type I IFN Receptor Regulates Neutrophil Functions and Innate Immunity to *Leishmania* Parasites
Lijun Xin, Diego A. Vargas-Inchaustegui, Sharon S. Raimer, Brent C. Kelly, Jiping Hu, Leiyi Zhu, Jiaren Sun, and Lynn Soong

Phagocytosis and Phagosome Acidification Are Required for Pathogen Processing and MyD88-Dependent Responses to *Staphylococcus aureus*
W. K. Eddie Ip, Anna Sokolova,Guillaume M. Charrière, Laurent Boyer, Stephanie Dejardin, Michael P. Cappillino, L. Michael Yantousa, Kazue Takahashi, Kathryn J. Moore, Adam Lucy-Hulbert, and Lynda M. Stuart

CD8<sup>+</sup> Cell Depletion Accelerates HIV-1 Immunopathology in Humanized Mice
Santhi Gorantla, Edward Makarov, Jennifer Finke-Dwyer, Catherine L. Gebhart, William Domm, Stephen Dewhurst, Howard E. Gendelman, and Larisa Y. Poluektova

Spatiotemporal Regulation of Heat Shock Protein 90-Chaperoned Self-DNA and CpG-Oligodeoxynucleotide for Type I IFN Induction via Targeting to Static Early Endosome
Koichi Okaya, Ysusuki Tamura, Keita Saito, Goro Katomi, Toshihiko Torigoe, Koichi Hirata, and Noriyuki Sato

Essential Role for TLR9 in Prime but Not Prime-Boost Plasmid DNA Vaccination To Activate Dendritic Cells and Protect from Lethal Viral Infection
Diane Rottembourg, Christophe M. Filippi, Damien Bresson, Katrin Ehrhardt, Elizabeth A. Estes, Janine E. Oldham, and Matthias G. von Herrath

Human Lung Mast Cells Mediate Pneumococcal Cell Death in Response to Activation by Pneumolysin
Glenn Cruse, Vitor E. Fernandes, Jose de Salort, Depesh Pankhania, Marta S. Marinas, Hannah Brewin, Peter W. Andrew, Peter Bradding, and Aras Kadioglu

INFLAMMATION

Identification of Complin, a Novel Complement Inhibitor that Targets Complement Proteins Factor B and C2
Archana P. Kadam and Arvind Sahu

Human Airway Eosinophils Respond to Chemoattractants with Greater Eosinophil-Derived Neutrotoxin Release, Adherence to Fibronectin, and Activation of the Ras–ERK Pathway When Compared with Blood Eosinophils
Mary Ellen Bates, Julie B. Sedgwick, Yiming Zhu, Lin Ying Liu, Rose G. Heuser, Nizar N. Jarjour, Hirohito Kita, and Paul J. Bertics

Thymic Stromal Lymphopoietin Receptor-Mediated IL-6 and CC/CXC Chemokines Expression in Human Airway Smooth Muscle Cells: Role of MAPKs (ERK1/2, p38, and JNK) and STAT3 Pathways
Lianyu Shan, Naresh Singh Redhu, Ali Saleh, Andrew J. Halayko, Jamila Chakir, and Abdelilah S. Gounni
IL-35 Stimulation of CD39+ Regulatory T Cells Confers Protection against Collagen II-Induced Arthritis via the Production of IL-10
Irina Kochetkova, Sarah Golden, Kathryn Holderness, Gayle Callis, and David W. Pascual

Lupus Serum IgG Induces Skin Inflammation through the TNFR1 Signaling Pathway
Guo-Min Deng, Lena Liu, Vasileios C. Kyttaris, and George C. Tsokos

Synoviocyte Innate Immune Responses: II. Pivotal Role of IFN Regulatory Factor 3
Susan E. Sweeney, Trevor B. Kimbler, and Gary S. Firestein

Leptin Modulates Innate and Adaptive Immune Cell Recruitment after Cigarette Smoke Exposure in Mice

Small Interfering RNA Screen for Phosphatases Involved in IgE-Mediated Mast Cell Degranulation
Juan Zhang, Mary Mendoza, Michel F. Guiraldelli, Emilia Alina Barbu, and Reuben P. Siraganian

COMMENSAL Escherichia coli Reduces Epithelial Apoptosis through IFN-αA–Mediated Induction of Guanylate Binding Protein-1 in Human and Murine Models of Developing Intestine
Julie Mirrapi, Jennifer C. Brazil, Andrew J. Berardinelli, Tala R. Nasr, Kesha Cooper, Michael Schnoor, Patricia W. Lin, Charles A. Parkos, and Nancy A. Louis

αβ1 Integrin Mediates the Recruitment of Immature Dendritic Cells across the Blood-Brain Barrier during Experimental Autoimmune Encephalomyelitis
Pooja Jain, Caroline Coisne, Gaby Enzmann, Robert Rottapel, and Britta Engelhardt

The Prostaglandin E2 E-Prostanoid 4 Receptor Exerts Anti-Inflammatory Effects in Brain Innate Immunity
Ju Shi, Jenny Johanson, Nathaniel S. Woodling, Qian Wang, Thomas J. Montine, and Katrin Andreasson

Differences in Wound Healing in Mice with Deficiency of IL-6 versus IL-6 Receptor
Molly M. McFarland-Mancini, Molly M. Funk, Andrew M. Paluch, Mingfu Zhou, Premkumar Vunoddi Giridhar, Carol A. Mercer, Sara C. Kozma, and Angela F. Drew

CLINICAL IMMUNOLOGY

TLR2 Agonists Enhance CD8+Foxp3+ Regulatory T Cells and Suppress Th2 Immune Responses during Allergen Immunotherapy
Yi-Giien Tsai, Kuender D. Yang, Dau-Ming Niu, Jien-Wen Chien, and Ching-Yuang Lin

Regulatory T Cells Protect from Local and Systemic Bone Destruction in Arthritis
Mario M. Zais, Benjamin Frey, Andreas Hess, Jochen Zwerina, Julia Luther, Falk Nimmerjahn, Klaus Engelke, George Kollias, Thomas Hunig, Georg Schett, and Jean-Pierre David

The Pathogen Recognition Receptor NOD2 Regulates Human FOXP3+ T Cell Survival
Meher K. Rahman, Emilie H. Midtling, Phyllis A. Svingen, Yuning Xiong, Michael P. Bell, Jeanne Tung, Tom Smyrk, Larry J. Egan, and William A. Faubion, Jr.

8-Methoxypsoralen Plus Ultraviolet A Therapy Acts via Inhibition of the IL-23/Th17 Axis and Induction of Foxp3+ Regulatory T Cells Involving CTLA4 Signaling in a Psoriasis-Like Skin Disorder
Tej Pratap Singh, Michael P. Schön, Katrin Wallbrecht, Kai Michaelis, Beate Rinner, Gerlinde Mayer, Ulrike Schmidtauer, Heimo Strohmaier, Xiao-Jing Wang, and Peter Wolf

Cytokine Requirements for the Differentiation and Expansion of IL-17A– and IL-22–Producing Human VγVδ2 T Cells
Kristin J. Ness-Schwickerath, Chenggang Jin, and Craig T. Morita

Timing of CD8+ T Cell Responses in Relation to Commencement of Capillary Leakage in Children with Dengue
Nguyen Thi Phuong Dung, Huynh Thi Le Duyen, Nguyen Thi Van Thuy, Tran Van Ngoc, Nguyen Van Vinh Chau, Tran Tinh Hien, Sarah L. Rowland-Jones, Tao Dong, Jeremy Farrar, Bridget Wills, and Cameron P. Simmons
Dendritic Cells from Mycobacteria-Infected Mice Inhibits Established Allergic Airway Inflammatory Responses to Ragweed via IL-10- and IL-12-Secreting Mechanisms
Laura Bilenki, Xiaoling Gao, Shuhe Wang, Jie Yang, Yijun Fan, Xiaobing Han, Hongyu Qiu, and Xi Yang

Analysis of Complex Biomarkers for Human Immune-Mediated Disorders Based on Cytokine Responsiveness of Peripheral Blood Cells
John M. Davis, III, Keith L. Knutson, Michael A. Strausbauch, Cynthia S. Crouson, Terry M. Therneau, Peter J. Wettstein, Eric L. Matteson, and Sherine E. Gabriel

B Cell Receptor-Mediated Calcium Signaling Is Impaired in B Lymphocytes of Type Ia Patients with Common Variable Immunodeficiency
Christian Foerster, Nadine Voelxen, Mirzokhid Rakhmanov, Baerbel Keller, Sylvia Gutenberger, Sigune Goldacker, Jens Thiel, Stefan Feke, Hans-Hartmut Peter, and Klaus Warnatz

CORRECTIONS
Correction: Inhibitor of NK-κB Kinases α and β Are Both Essential for High Mobility Group Box 1-Mediated Chemotaxis

Correction: Persistent γ-Herpesvirus Infection Induces a CD4 T Cell Response Containing Functionally Distinct Effector Populations
Kathleen A. Stuller, Stephanie S. Cush, and Emilio Flano

Correction: IDO Mediates TLR9-Driven Protection from Experimental Autoimmune Diabetes
Francesca Fallarino, Claudia Volpi, Teresa Zelante, Carmine Vacca, Mario Calvitti, Maria C. Fioretti, Paolo Puccetti, Luigina Romani, and Ursula Grohmann

AUTHOR INDEX

AUTHOR INDEX TO VOLUME 184

SUBJECT INDEX TO VOLUME 184