This information is current as of July 16, 2017.
IN THIS ISSUE

PILLARS OF IMMUNOLOGY

7193 Bridging B Cell and T Cell Recognition of Antigen
Hidde L. Ploegh

Kenneth L. Rock, Baruj Benacerraf, and Abul K. Abbas

Antonio Lanzavecchia

BRIEF REVIEWS

7209 Invertebrate Immune Systems—Specific, Quasi-Specific, or Nonspecific?
Andrew F. Rowley and Adam Powell

CUTTING EDGE

7215 Cutting Edge: A Transcriptional Repressor and Corepressor Induced by the STAT3-Regulated Anti-Inflammatory Signaling Pathway
Karim C. El Kasmi, Amber M. Smith, Lynn Williams, Geoffrey Neale, Athanasia Panopoulos, Stephanie S. Watowich, Hans Hämmer, Brian M. J. Foxwell, and Peter J. Murray

7220 Cutting Edge: Tissue-Resident Memory CTL Down-Regulate Cytolytic Molecule Expression following Virus Clearance
Justine D. Mintern, Carole Guillonneau, Francis R. Carbone, Peter C. Doherty, and Stephen J. Turner

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

7225 Intravenous Transfusion of BCR-Activated B Cells Protects NOD Mice from Type 1 Diabetes in an IL-10-Dependent Manner
Shabbir Hussain and Terry L. Delovitch

Cbl-b Regulates Antigen-Induced TCR Down-Regulation and IFN-γ Production by Effector CD8 T Cells without Affecting Functional Avidity
Mohammed Shamim, Som G. Nanjappa, Anju Singh, Erin Hemmila Plisch, Scott E. LeBlanc, Jane Walent, John Swaren, Christine Seroogy, and M. Suresh

Defects in the Acquisition of CD8 T Cell Effector Function after Priming with Tumor or Soluble Antigen Can Be Overcome by the Addition of an OX40 Agonist
William L. Redmond, Michael J. Gough, Bridget Charbonneau, Timothy L. Ratliff, and Andrew D. Weinberg

Specific Immunogenicity of Heat Shock Protein gp96 Derives from Chaperoned Antigenic Peptides and Not from Contaminating Proteins
Robert J. Binder, John B. Kelly III, Ralph E. Vatner, and Pramod K. Srivastava

CUGBP1 Is Required for IFN-γ-Mediated Induction of Dominant-Negative CEBPβ and Suppression of SIV Replication in Macrophages
Justyna M. Dudaronek, Sheila A. Barber, and Janice E. Clements

A Novel Approach to Specific Allergy Treatment: The Recombinant Allergen-S-Layer Fusion Protein rSbsC-Bet v 1 Matures Dendritic Cells That Prime Th0/Th1 and IL-10-Producing Regulatory T Cells
Marianne Gerstmayr, Nicola Ilk, Irna Schabusova, Beatrice Jain-Schmid, Eva M. Egelseer, Uwe B. Sleytr, Christof Ebner, and Barbara Bohle

Regulated Expression of BAFF-Binding Receptors during Human B Cell Differentiation
Jaime R. Darce, Bonnie K. Arendt, Xiaosheng Wu, and Diane F. Jelinek

CTLA-4 FasL Induces Early Apoptosis of Activated T Cells by Interfering with Anti-Apoptotic Signals
Ariel Orbach, Jacob Rachmilewitz, Miram Parnas, Jui-Han Huang, Mark L. Tykocinski, and Michael Dranitzki-Elhalel

Ex Vivo Expansion of CD4+CD25+FoxP3+ T Regulatory Cells Based on Synergy between IL-2 and 4-1BB Signaling

Ikaros Enforces the Costimulatory Requirement for IL2 Gene Expression and Is Required for Anergy Induction in CD4+ T Lymphocytes
Rajan M. Thomas, Neelanjana Chunder, Chunxia Chen, Sarah E. Umetsu, Susan Winandy, and Andrew D. Wells

A New Role of CTLA-4 on B Cells in Thymus-Dependent Immune Responses In Vivo
Dagmar Quandt, Holger Hoff, Marion Rudolph, Simon Fillatreau, and Monika C. Brunner-Weinzierl

Murine Gammaherpesvirus-68 Infection Alters Self-Antigen Presentation and Type 1 Diabetes Onset in NOD Mice
Katherine A. Smith, Stacey Estathiou, and Anne Cooke

Defective T Cell Development and Function in the Absence of Abelson Kinases
Jing Jin Gu, Nu Zhang, You-Wen He, Anthony J. Koleske, and Ann Marie Pendergast

PECAM-1 Ligation Negatively Regulates TLR4 Signaling in Macrophages
Yuxiang Rui, Xingguang Liu, Nan Li, Yingming Jiang, Guoyou Chen, Xue Tao Cao, and Jianli Wang

CCL2 Inhibits the Apoptosis Program Induced by Growth Factor Deprivation, Rescuing Functional T Cells
Eva Diaz-Guerra, Rolando Vernal, M. Julia del Prete, Augusto Silva, and Jose A. Garcia-Sanz

CCRE7 Expression in Developing Thymocytes Is Linked to the CD4 versus CD8 Lineage Decision
Xinye Yin, Ena Ladi, Shiao Wei Chen, Ou Li, Nigel Killeen, Dietmar J. Kappes, and Ellen A. Robey

Pivotal Roles of CD4+ Effector T cells in Mediating Agonistic Anti-GITR mAb-Induced-Immune Activation and Tumor Immunity in CT26 Tumors
Pengfei Zhou, Lawrence L’italien, Douglas Hodges, and Xiao Min Schebye

Activation of Immature Hepatic NK Cells As Immunotherapy for Liver Metastatic Disease
NKp30 Ligation Induces Rapid Activation of the Canonical NF-κB Pathway in NK Cells
Rahul Pandey, Christine M. DeStephan, Lisa A. Madge, Michael J. May, and Jordan S. Orange

Functional Outcome of B Cell Activation by Chromatin Immune Complex Engagement of the B Cell Receptor and TLR9
Liliana Busconi, Jason W. Bauer, Joseph R. Tumang, Amy Lauw, Kristin Perkins-Mesires, Abigail S. Taboh, Christina Lau, Ronald B. Corley, Thomas L. Rothstein, Frances E. Lund, Timothy W. Behrens, and Ann Marshak-Rothstein

Sensitive Gene Expression Profiling of Human T Cell Subsets Reveals Parallel Post-Thymic Differentiation for CD4+ and CD8+ Lineages
Victor Appay, Andrea Bosio, Stefanie Lokan, Yvonne Wienczek, Christian Biervert, Daniel Küsters, Estelle Devere, Daniel Spitzer, Pedro Romero, Nathalie Rufer, and Serge Leyvrau

Therapeutic Effect of Anthracene-Based Anticancer Agent Ethonafide in an Animal Model of Multiple Sclerosis
Wen-Hua Piao, Rudy Wong, Xue-Feng Bai, Jianhua Huang, Denise I. Campagnolo, Robert T. Dorr, Timothy L. Vollmer, and Fu-Dong Shi

Keratinocyte Growth Factor Induces Expansion of Murine Peripheral CD4+ Foxp3+ Regulatory T Cells and Increases Their Thymic Output
Mariëtte Brunsima, Peter L. van Soest, Pieter J. M. Leenen, Bart N. Lambrecht, Tom Cupedo, Bob Löwenberg, Jan J. Cornelissen, and Eric Braakman

1,3,7-Trimethylxanthine (Caffeine) May Exacerbate Acute Inflammatory Liver Injury by Weakening the Physiological Immunosuppressive Mechanism
Akio Ohta, Dmitriy Lukashev, Edwin K. Jackson, Bertil B. Fredholm, and Michail Sitkovsky

Murine Lupus Susceptibility Locus Sle1a Controls Regulatory T Cell Number and Function through Multiple Mechanisms
Carla M. Cuda, Suigui Wan, Eric S. Sobel, Byron P. Croker, and Laurence Morel

Loss of IL-7 Receptor α on CD4+ T Cells Defines Terminally Differentiated B Cell-Helping Effector T Cells in a B Cell-Rich Lymphoid Tissue
Hyung W. Lim and Chang H. Kim

Functional Role of P-Selectin Glycoprotein Ligand 1/P-Selectin Interaction in the Generation of Tolerogenic Dendritic Cells
Ana Urzainqui, Gloria Martinez del Hoyo, Anaita Lamana, Hortensia de la Fuente, Olga Barreiro, Isabel M. Olazabal, Pilar Martin, Martin K. Wild, Dietmar Vestweber, Roberto Gonzalez-Amaro, and Francisco Sánchez-Madrid

Programmed Death 1 Ligand (PD-L) 1 and PD-L2 Limit Autoimmune Kidney Disease: Distinct Roles
Julia Menke, Julie A. Lucas, Geraldine C. Zeller, Mary E. Keir, Xiao R. Huang, Naotake Tsuiboi, Tanya N. Mayadas, Han Y. Lan, Arlene H. Sharpe, and Vicki R. Kelley

Dose-Dependent Differential Regulation of Cytokine Secretion from Macrophages by Fractalkine
Noriko Mizutani, Toshiharu Sakurai, Takahiro Shibata, Koji Uchida, Jun Fujita, Rei Kawashima, Yuki I. Kawamura, Noriko Toyama-Sorimachi, Toshio Inai, and Tacko Dobi

Alloimmunity to Human Endothelial Cells Derived from Cord Blood Progenitors
Yajaira Suárez, Benjamin R. Shepherd, Deepak A. Rao, and Jordan S. Pober

Continuous RANKL Inhibition in Osteoprotegerin Transgenic Mice and Rats Suppresses Bone Resorption without Impairing Lymphorganogenesis or Functional Immune Responses
Marina Stolina, Denise Dwyer, Michael S. Ominsky, Timothy Corbin, Gwyneth Van, Brad Bolon, Ildiko Sarosi, James McCabe, Debra J. Zack, and Paul Kostenuik

Dendritic Cells Present Lytic Antigens and Maintain Function throughout Persistent γ-Herpesvirus Infection
Fiona Kupresanin, Jonathan Chow, Adele Mount, Christopher M. Smith, Philip G. Stevenson, and Gabrielle T. Belz

A Novel Mutation in the Nfk2 Gene Generates an NF-κB “Super Repressor”
Transgenic Expression of Bcl-xL or Bcl-2 by Murine B Cells Enhances the In Vivo Antipolysaccharide, but Not Antiprotein, Response to Intact Streptococcus pneumoniae
Gouri Chattopadhyay, Abdul Q. Khan, Goutam Sen, Jesus Colino, Wendy duBois, Anatoly Rubtsov, Raul M. Torres, Michael Potter, and Clifford M. Snapper

Role of CD30 in B/T Segregation in the Spleen
Vasileios Bekiaris, David Wishers, Stephanie H. Glanville, Fiona M. McConnell, Sonia M. Parnell, Mi-Yeon Kim, Fabrina M. C. Gaspar, Eric Jenkinson, Clive Sweet, Graham Anderson, and Peter J. L. Lane

Transitional B Cells Lose Their Ability to Receptor Edit but Retain Their Potential for Positive and Negative Selection
Hongpeng Wang, Jiansun Feng, Chen-Feng Qi, Zhaoyang Li, Herbert C. Morse III, and Stephen H. Clarke

X-linked Inhibitor of Apoptosis Regulates T Cell Effector Function
Simone P. Zehntner, Lyne Bourbonnière, Craig S. Moore, Stephen J. Morris, Danielle Methot, Martine St. Jean, Eric Lacasse, Andrea L. O. Hebb, George S. Robertson, Jon Durkin, John W. Gillard, and Trevor Owens

Subtle Defects in Pre-TCR Signaling in the Absence of the Tec Kinase Itk
Julie A. Lucas, Martin Felices, John W. Evans, and Leslie J. Berg

The Rheumatoid Arthritis-Associated Autoantigen hnRNP-A2 (RA33) Is a Major Stimulator of Autoimmunity in Rats with Pristane-Induced Arthritis

Differential Development of Murine Dendritic Cells by GM-CSF versus Flt3 Ligand Has Implications for Inflammation and Trafficking
Yuekang Xu, Yifan Zhan, Andrew M. Lew, Shalin H. Naik, and Michael H. Kershaw

Airway Eosinophils: Allergic Inflammation Recruited Professional Antigen-Presenting Cells
Hai-Bin Wang, Ionita Ghiran, Klaus Matthaei, and Peter F. Weller

Role of STAT3 in CD4+CD25+FOXP3+ Regulatory Lymphocyte Generation: Implications in Graft-versus-Host Disease and Antitumor Immunity
Jean-René Pallandre, Emilie Brillard, Gilles Créange, Amandine Radlovic, Jean-Paul Remy-Martin, Philippe Saas, Pierre-Simon Rohrich, Xavier Pivon, Xiang Ling, Pierre Tiberghien, and Christophe Borg

Molecular and Structural Immunology

Peptide-Mediated Disruption of NFκB/NRF Interaction Inhibits IL-8 Gene Activation by IL-1 or Helicobacter pylori
Myriam Bartels, Aike Torben Schweda, Ursula Dreikhausen, Ronald Frank, Klaus Reich, Winfried Beil, and Mahsbah Nourbakhsh

PRDM1/BLIMP-1 Modulates IFN-γ-Dependent Control of the MHC Class I Antigen-Processing and Peptide-Loading Pathway
Gina M. Doody, Sophie Stephenson, Charles McManamy, and Reuben M. Tooze

A Hypoallergenic Vaccine Obtained by Tail-to-Head Restructuring of Timothy Grass Pollen Profilin, Phl p 12, for the Treatment of Cross-Sensitization to Profilin
Kerstin Westrich, Birgit Lishart, Margarete Focke-Tejkl, Tea Puskar, Walter Keller, Tanja Ball, Adriano Mari, Arnulf Hartl, Angelika Stöckl, Sandra Scheckhofer, Josef Thalhammer, Fatima Ferreira, Stefan Vieths, Lothar Vogel, Alexandra Böhm, Peter Valant, and Rudolf Valenta

A Novel Population of Human Melanoma-Specific CD8 T Cells Recognizes Melan-A\textsuperscript{MART-1}
Immunodominant Nonapeptide but Not the Corresponding Decapeptide
Laurent Derré, Mathias Ferber, Cédric Touvey, Estelle Devreux, Vincent Zoete, Antoine Leimgruber, Pedro Romero, Olivier Michelin, Frédéric Lévy, and Daniel E. Speiser

Tapasin Increases Efficiency of MHC I Assembly in the Endoplasmic Reticulum but Does Not Affect MHC I Stability at the Cell Surface
Maya W. Everett and Michael Edidin
Kinetics of MHC-CD8 Interaction at the T Cell Membrane
Jun Huang, Lindsey J. Edwards, Brian D. Evavold, and Cheng Zhu

Increased Phosphorylation of the Carboxyl-Terminal Domain of RNA Polymerase II and Loading of Polyadenylation and Cotranscriptional Factors Contribute to Regulation of the lg Heavy Chain mRNA in Plasma Cells
Scott A. Shell, Kathleen Martincic, Joseph Tran, and Christine Milcarek

Soluble CD14 Discriminates Slight Structural Differences between Lipid As That Lead to Distinct Host Cell Activation
Yasuyuki Asai, Yutaka Makimura, Atsushi Kawahata, and Tomohiko Ogawa

HOST DEFENSE

Host Defense Peptide LL-37, in Synergy with Inflammatory Mediator IL-1β, Augments Immune Responses by Multiple Pathways
Jie Yu, Neeloffer Mookherjee, Kathleen Wee, Dawn M. E. Bowdish, Jelena Pistolic, Yuexin Li, Linda Rehaume, and Robert E. W. Hancock

Membrane Vesicles Are Immunogenic Facsimiles of Salmonella typhimurium That Potently Activate Dendritic Cells, Prime B and T Cell Responses, and Stimulate Protective Immunity In Vivo
Robert C. Alaniz, Brooke L. Deatherage, Jinnie C. Lara, and Brad T. Cookson

Characterization of the Deregulated Immune Activation Occurring at Late Stages of Mycobacterial Infection in TNF-Deficient Mice
Manuela Flórido and Rui Appelberg

Differential Requirements by CD4⁺ and CD8⁺ T Cells for Soluble and Membrane TNF in Control of Francisella tularensis Live Vaccine Strain Intramacrophage Growth
Siobhán C. Cowley, Jonathon D. Sedgwick, and Karen L. Elkins

A Critical Role of Protein Kinase Cδ Activation Loop Phosphorylation in Formyl-Methionyl-Leucyl-Phenylalanine-Induced Phosphorylation of p47phox and Rapid Activation of Nicotinamide Adenine Dinucleotide Phosphate Oxidase
Ni Cheng, Rong He, Jun Tian, Mary C. Dinauer, and Richard D. Ye

Extensive Characterization of IFN-Induced GTPases mGBP1 to mGBP10 Involved in Host Defense
Daniel Degrandi, Carolin Konermann, Cornelia Beuter-Gunia, Alexandra Kresse, Jan Würtzner, Stefanie Kurig, Sandra Beer, and Klaus Pfeiffer

Novel Structural Determinants on SIRPα that Mediate Binding to CD47
Winston Y. Lee, Dominique A. Weber, Oskar Lar, Eric A. Severson, Ingrid McCall, Rita P. Jen, Alex C. Chin, Tao Wu, Kim M. Gernet, and Charles A. Parkos

Secretory IgA Mediates Bacterial Translocation to Dendritic Cells in Mouse Peyer’s Patches with Restriction to Mucosal Compartment
Khalil A. Kadouzi and Blaise Cortés

In Vivo Depletion of CD11c⁺ Cells Impairs Scapie Agent Neuroinvasion from the Intestine
Claudine R. Raymond, Pierre Aucouturier, and Neil A. Mabbott

Human Cytomegalovirus Differentially Controls B Cell and T Cell Responses through Effects on Plasmacytoid Dendritic Cells
Stefania Varani, Madeleine Cederarv, Sari Feld, Charlotte Tammik, Giada Frascaroli, Maria P. Landini, and Cecilia Söderberg-Nauclér

Identification of Signaling Pathways in Macrophage Exposed to Porphyromonas gingivalis or to Its Purified Cell Wall Components
Qingde Zhou and Salomon Amar
Inflammation

An IL-17F/A Heterodimer Protein Is Produced by Mouse Th17 Cells and Induces Airway Neutrophil Recruitment
Spencer C. Liang, Andrew J. Long, Frann Bennett, Matthew J. Whitters, Riyaz Karim, Mary Collins, Samuel J. Goldman, Kyraki Dunoussi-Joannopoulos, Cara M. M. Williams, Jill F. Wright, and Lynette A. Fouser

Galectin-3 Functions as an Adhesion Molecule to Support Eosinophil Rolling and Adhesion under Conditions of Flow
Savita P. Rao, Zhuangzhi Wang, Riaz I. Zuberi, Lyudmila Sikora, Nooshin S. Bahait, Bruce L. Zuraw, Fu-Tong Liu, and P. Sriramarao

Activation of p38 MAPK by Reactive Oxygen Species Is Essential in a Rat Model of Stress-Induced Gastric Mucosal Injury
Yi-Tao Jia, Wei Wei, Bing Ma, Yu Xu, Wen-Jun Liu, Yu Wang, Kai-Yang Lv, Hong-Tai Tang, Duo Wei, and Zhao-Fan Xia

Inhibition of CINC-1 Decreases Right Ventricular Damage Caused by Experimental Pulmonary Embolism in Rats
John Zagorski, Michael A. Gellar, Maria Obraztsova, Jeffrey A. Kline, and John A. Watts

Chemotaxis of Mouse Bone Marrow Neutrophils and Dendritic Cells Is Controlled by ADP-Ribose, the Major Product Generated by the CD38 Enzyme Reaction
Santiago Partida-Sanchez, Andreas Gasler, Ralf Flieger, Cornelia C. Siebrands, Werner Dammermann, Guixiu Shi, Betty J. Mousseau, Adriana Sumoza-Toledo, Hariyadan Bhagat, Timothy F. Walseth, Andreas H. Guse, and Frances E. Lund

Heme Oxygenase-1 Inhibits the Expression of Adhesion Molecules Associated with Endothelial Cell Activation via Inhibition of NF-κB RelA Phosphorylation at Serine 276
Mark P. Seldon, Gabriela Silva, Nadja Pejanovic, Rasmus Larsen, Isabel Pombo Gregoire, Josina Filipe, Josef Anrather, and Miguel Soares

Amelioration of Chronic Murine Colitis by Peptide-Mediated Transduction of the IkB Kinase Inhibitor NEMO Binding Domain Peptide

A Complement C3 Inhibitor Specifically Targeted to Sites of Complement Activation Effectively Ameliorates Collagen-Induced Arthritis in DBA/1J Mice
Hongbin Song, Fei Qiao, Carl Atkinson, V. Michael Holers, and Stephen Tomlinson

NF-κB-Inducing Kinase Regulates Cyclooxygenase 2 Gene Expression in Macrophages by Phosphorylation of PU.1
Anser C. Azim, Xuerong Wang, Gye Young Park, Rusana T. Sadikot, Hongmei Cao, Biji Mathew, Michael Atchison, Richard B. van Bremen, Myungsoo Joo, and John W. Christman

Activation of Protein Kinase D1 in Mast Cells in Response to Innate, Adaptive, and Growth Factor Signals
Thomas R. Murphy, Henry J. Legere III, and Howard R. Katz

Cysteinyl Leukotrienes Are Autocrine and Paracrine Regulators of Fibrocyte Function
Kevin M. Vannelia, Tracy R. McMillan, Ryan P. Charbeneau, Carol A. Wilke, Peedikayil E. Thomas, Galen B. Toeus, Marc Peters-Golden, and Bethany B. Moore

Tissue- and Stimulus-Dependent Role of Phosphatidylinositol 3-Kinase Isoforms for Neutrophil Recruitment Induced by Chemoattractants In Vivo

Histamine Directly and Synergistically with Lipopolysaccharide Stimulates Cyclooxygenase-2 Expression and Prostaglandin I₂ and E₂ Production in Human Coronary Artery Endothelial Cells
Xiaoyu Tan, Suzanne Esengue, Jaya Talreja, Jeff Reese, Daniel J. Stechslicht, and Kottarappat N. Dileepan
7907 Functional Expression of H4 Histamine Receptor in Human Natural Killer Cells, Monocytes, and Dendritic Cells  
Bassam B. Damaj, Cecilia Barrena Becerra, Henry J. Esher, Ying Wen, and Azzam A. Maghazachi

CLINICAL IMMUNOLOGY

7916 FcγRIIa Genotype Predicts Progression of HIV Infection  
Donald N. Forthal, Gary Landucci, Jay Bream, Lisa P. Jacobson, Tran B. Phan, and Benjamin Montoya

7924 Effective Proliferation of Human Regulatory T Cells Requires a Strong Costimulatory CD28 Signal That Cannot Be Substituted by IL-2  
Andreas A. Hombach, David Kofler, Anja Hombach, Gunter Rappl, and Hinrich Abken

7932 Cross-Reactive CD4+ T Cells against One Immunodominant Tumor-Derived Epitope in Melanoma Patients  
Pavol Kudela, Bratislav Janjic, Julien Fourcade, Florence Castelli, Pedro Andrade, John M. Kirkwood, Talal El-Hefnawy, Massimo Amicosante, Bernard Maillere, and Hassane M. Zarour

7941 CD4+CD25int T Cells in Inflammatory Diseases Refractory to Treatment with Glucocorticoids  
Richard W. J. Lee, Thomas J. Creed, Lauren P. Schewitz, Paul V. Newcomb, Lindsay B. Nicholson, Andrew D. Dick, and Colin M. Dayan

7949 TWEAK/Fn14 Interactions Are Instrumental in the Pathogenesis of Nephritis in the Chronic Graft-versus-Host Model of Systemic Lupus erythematosus  
Zeguo Zhao, Linda C. Burkly, Sean Campbell, Noa Schwartz, Alberto Molano, Arpita Choudhury, Robert A. Eisenberg, Jennifer S. Michaelson, and Chaim Putterman

7959 Lack of Chromatin and Nuclear Fragmentation In Vivo Impairs the Production of Lupus Anti-Nuclear Antibodies  
Lorenza Frisoni, Lenese McPhie, Sun-Ah Kang, Marc Monestier, Michael Madaio, Minoru Satoh, and Roberto Caricchio

7967 Identification of an Antigenic and Immunogenic Motif Expressed by Two 7-Mer Rituximab-Specific Cyclic Peptide Mimotopes: Implication for Peptide-Based Active Immunotherapy  
Federico Perosa, Elvira Favoino, Chiara Vicenti, Francesca Merchionne, and Franco Dammacco

7975 Agrin Signalling Contributes to Cell Activation and Is Overexpressed in T Lymphocytes from Lupus Patients  
Elizabeth C. Jury, Jillian Eldridge, David A. Isenberg, and Panagiotis S. Kabouridis

7984 Author Index
7987 AAI Membership Application
7988 AAI Trainee Membership Application