This information is current as of May 1, 2017.
TABLE OF CONTENTS

3579  Commentary: Novel Vaccine Approaches
Hildegund C. J. Ertl and Zhiquan Xiang

3583  Commentary: “The Good, the Bad, and the Ugly”: The Role of Chemokines in Models of Human Disease
Robert M. Strieter, Theodore J. Standiford, Gary B. Huffnagle, Lisa M. Colletti, Nicholas W. Lukacs, and Steven L. Kunkel

3587  Shortened Telomeres in Clonally Expanded CD28−CD8+ T Cells Imply a Replicative History That Is Distinct from Their CD28+CD8+ Counterparts
Joanita Monteiro, Franak Bhatiwalla, Harry Ostrer, and Peter K. Gregersen

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

3591  Different Patterns of TCR Transgene Expression in Single-Positive and Double-Negative T Cells: Evidence for Separate Pathways of T Cell Maturation
Lirong Cheng, Sussan Dejbakhsh-Jones, Roland Liblau, DeFu Zeng, and Samuel Strober

3602  T Cell Suppression in Transplantation Tolerance Through Linked Recognition
Joanna D. Davies, Louise Y. W. Leong, Andrew Mellor, Stephen P. Cobbold, and Herman Waldmann

3608  Staphylococcal Enterotoxin D Functions as a Human B Cell Superantigen by Rescuing V(H)4-Expressing B Cells from Apoptosis
Rana Domiati-Saad, Jeanne F. Attrep, Hans-Peter Brezinschek, Anne H. Cherrie, David R. Karp, and Peter E. Lipsky

3621  Cytokine Production by T Lymphocytes from Young and Aged Mice
Christian R. Engwerda, Barbara S. Fox, and Barry S. Handwerger

3631  Aberrant Regulation of Cytokines in HIV-1 TAT72-Transgenic Mice
Hildegardo H. Garza, Jr., Om Prakash, and Daniel J. J. Carr
3638 Regulation of the Fas Lytic Pathway in Cloned CTL
Alison Glass, Craig M. Walsh, David H. Lynch, and William R. Clark

3645 Specificity and Degeneracy of Minor Histocompatibility Antigen-Specific MHC-Restricted CTL
Björn R. Gundlach, Karl-Heinz Wiesmüller, Tobias Junct, Stefan Kienle, Günther Jung, and Peter Walden

3652 Intercellular Adhesion Molecule-1 Is Necessary but Not Sufficient to Activate CD4\(^+\) T Cells: Discovery of a Novel Costimulator on Kidney Tubule Cells
David T. Hagerty

3660 Sustained T Cell Receptor-Mediated Ca\(^{2+}\) Responses Rely on Dynamic Engagement of Receptors
Brian Behnam Hashemi, James P. Slattery, David Holowka, and Barbara Baird

3668 Specific Regulation of VLA-4 and \(\alpha_4\beta_7\) Integrin Expression on Human Activated T Lymphocytes
Trinidad Hernández-Caselles, María Martínez-Esparza, Andrew I. Lazarovits, and Pedro Aparicio

3678 Concanamycin A, a Powerful Tool for Characterization and Estimation of Contribution of Perforin- and Fas-Based Lytic Pathways in Cell-Mediated Cytotoxicity
Takao Kataoka, Nobukata Shinohara, Hajime Takayama, Kazuaki Takaku, Shunzo Kondo, Shin Yonehara, and Kazuo Nagai

3687 DNA Immunization Induces Antibody and Cytotoxic T Cell Responses to Hepatitis B Core Antigen in H-2\(^b\) Mice
Andreas Kuhöber, Hans-Peter Pudollek, Kurt Reifenberg, Francis V. Chisari, Hans-Jürgen Schlicht, Jörg Reimann, and Reinhold Schirmbeck

3696 CD59 and CD48 Expressed by Rat Retinal Pigment Epithelial Cells Are Major Ligands for the CD2-Mediated Alternative Pathway of T Cell Activation
Janet Liversidge, Rosie Dawson, Sharon Hoey, Dorothy McKay, Peter Grabowski, and John V. Forrester

3704 Differential Activity of Dexamethasone on IL2-, IL4-, or IL-9-Induced Proliferation of Murine Factor-Dependent T Cell Lines
Jamila Louahed, Jean-Christophe Renaud, Jean-Baptiste Demoulin, Gail Baughman, Suzanne Bourgeois, Kazuo Sugamura, and Jacques Van Snick

3711 Expression of IFN Regulatory Factor Family Proteins in Lymphocytes: Induction of Stat-1 and IFN Consensus Sequence Binding Protein Expression by T Cell Activation
Nancy Nelson, Yuka Kanno, Chun Hong, Christina Contursi, Tadashi Fujita, B. J. Fowlkes, Errin O'Connell, Jane Hu-Li, William E. Paul, Dragana Jankovic, Alan F. Sher, John E. Coligan, Angela Thornton, Ettore Appella, Yili Yang, and Keiko Ozato

3721 Analysis of the Role of MHC Class II Presentation in the Stimulation of Cytotoxic T Lymphocytes by Antigens Targeted into the Exogenous Antigen-MHC Class I Presentation Pathway
Kenneth L. Rock and Karen Clark
A Fundamental Subdivision of Circulating Lymphocytes Defined by Adhesion to Mucosal Addressin Cell Adhesion Molecule-1: Comparison with Vascular Cell Adhesion Molecule-1 and Correlation with $\beta_7$ Integrins and Memory Differentiation
Lusijah S. Rott, Michael J. Briskin, David P. Andrew, Ellen L. Berg, and Eugene C. Butcher

CD40 Expressed on Thymic Epithelial Cells Provides Costimulation for Proliferation but Not for Apoptosis of Human Thymocytes

TCR $\alpha\beta$ Gene Usage for Myelin Basic Protein Recognition in Healthy Monozygous Twins
Ananth Shanmugam, Christiane Copie-Bergman, Bruno Falissard, Olivier Debrui, Jean Philippe Jais, Danielle Rebibo, Jean François Bach, and Elisabeth Tournier-Lasserve

Peptide-Dependent Expression of HLA-B7 on Antigen Processing-Deficient T2 Cells
Kelly D. Smith and Charles T. Lutz

T Cell Tolerance Is Influenced by Concomitant T Cell Recognition of Cross-Reactive Self-Peptides
Robert C. Tam, Eugenia V. Fedoseyeva, Marina Moskalenko, Marvin R. Garovoy, and Gilles Benichou

Molecular and Structural Immunology

Generation of a New $\gamma\delta$ T Cell-Specific Monoclonal Antibody (GD3.5): Biochemical Comparisons of GD3.5 Antigen with the Previously Described Workshop Cluster 1 (WC1) Family
Ward M. Jones, Bruce Walcheck, and Mark A. Jutila

AP-1 Regulates the Basal and Developmentally Induced Transcription of the CD11c Leukocyte Integrin Gene
Cristina López-Rodríguez, Hanneke C. Kluin-Nelemans, and Angel L. Corbi

Early B Cell Factor Interacts with a Subset of $\kappa$ Promoters
Mikael Sigvardsson, Peter Åkerblad, and Tomas Leanderson

The Generation of Antibody Diversity in the Turtle
Alexander Turchin and Ellen Hsu

A DNA Binding Protein in Human Thymocytes Recognizes the T Cell Receptor-$\delta$-Deleting Element $\psi\delta$
Martie C. M. Verschuren, Cristel J. L. van Bergen, Ellen J. van Gastel-Mol, Ad J. J. C. Bogers, and Jacques J. M. van Dongen

T Cell Recognition of MHC Class II-Associated Peptides Is Independent of Peptide Affinity for MHC and Sodium Dodecyl Sulfate Stability of the Peptide/MHC Complex: Effects of Conservative Amino Acid Substitutions at Anchor Position 1 of Influenza Matrix Protein$_{19-31}$
Shenhong Wu, Jack Gorski, David D. Eckels, and Debra K. Newton-Nash
Rejection of MHC Class II-Transfected Tumor Cells Requires Induction of Tumor-Encoded B7-1 and/or B7-2 Costimulatory Molecules
Sivasubramanian Baskar, Virginia K. Clements, Laurie H. Glimcher, Nasrin Nabavi, and Suzanne Ostrand-Rosenberg

Chemotactic Activity of Mycobacterial Lipoarabinomannans for Human Blood T Lymphocytes In Vitro

Oxidative Killing of Cryptococcus neoformans by Human Neutrophils: Evidence That Fungal Mannitol Protects by Scavenging Reactive Oxygen Intermediates
Vishnu Chaturvedi, Brian Wong, and Simon L. Newman

Role of Host Antigen Receptor-Bearing and Antigen Receptor-Negative Cells in Immune Response to Rat Adenocarcinoma 13762
Alan B. Frey

Regulation of Lymphocyte Homing into the Brain During Viral Encephalitis at Various Stages of Infection
David N. Irani and Diane E. Griffin

Immunization with Granulocyte-Macrophage Colony-Stimulating Factor-Transduced, but Not B7-1-Transduced, Lymphoma Cells Primes Idiotype-Specific T Cells and Generates Potent Systemic Antitumor Immunity
Hyam I. Levitsky, Jami Montgomery, Mojgan Ahmadzadeh, Kevin Staveley-O'Carroll, Frank Guarneri, Dan L. Longo, and Larry W. Kwak

Mechanisms of Trypanosoma cruzi-Induced Down-Regulation of Lymphocyte Function: Inhibition of Transcription and Expression of IL-2 Receptor γ (p64IL-2R) and β (p70IL-2R) Chain Molecules in Activated Normal Human Lymphocytes
Sarmila Majumder and Felipe Kierszenbaum

Adoptive Immunotherapy with Tumor-Specific T Lymphocytes Generated from Cytokine Gene-Modified Tumor-Primed Lymph Node Cells
Koichiro Ohno, Hirohisa Yoshizawa, Hiroko Tsukada, Tetsuro Takeda, Yoshifumi Yamaguchi, Kentaro Ichikawa, Yoshie Maruyama, Yoshiyuki Suzuki, Eiichi Suzuki, and Masaaki Arakawa

Binding and Presentation of Peptides Derived from Melanoma Antigens MART-1 and Glycoprotein-100 by HLA-A2 Subtypes: Implications for Peptide-Based Immunotherapy

Acceleration of Influenza Virus Clearance by Th1 Cells in the Nasal Site of Mice Immunized Intranasally with Adjuvant-Combined Recombinant Nucleoprotein
Shin-ichi Tamura, Kenji Miyata, Kazutoshi Matsuo, Hideki Asanuma, Hidehiro Takahashi, Katsuhisa Nakajima, Yujiro Suzuki, Chikara Aizawa, and Takeshi Kurata
Human Herpes Simplex Virus (HSV)-Specific CD8+ CTL Clones Recognize HSV-2-Infected Fibroblasts after Treatment with IFN-γ or When Virion Host Shutoff Functions Are Disabled
Michael A. Tigges, Song Leng, David C. Johnson, and Rae Lyn Burke

Enhanced Tumor Outgrowth after Peptide Vaccination: Functional Deletion of Tumor-Specific CTL Induced by Peptide Vaccination Can Lead to the Inability to Reject Tumors
René E. M. Toes, Ria J. J. Blom, Rienk Offringa, W. Martin Kast, and Cornelis J. M. Melief

Protective Immunity in BALB/c Mice Against the Simian Virus 40-Induced mKSA Tumor Resulting from Injection of Recombinant Large T Antigen: Requirement of CD8+ T Lymphocytes
Jens Zerrahn, Olaf Utermöhlen, Gabriele Warnecke, Wolfgang Deppert, and Fritz Lehmann-Grube

INFLAMMATION

Down-Regulation by IL-4 and Up-Regulation by IFN-γ of Mast Cell Induction from Mouse Spleen Cells
Zhi-Qing Hu, Naoko Zenda, and Tadakatsu Shimamura

Induction of IL-12 p40 Messenger RNA Expression and IL-12 Production of Macrophages Via CD40-CD40 Ligand Interaction
Takuma Kato, Rie Hakamada, Hidehiro Yamane, and Hideo Nariuchi

Galectin-3 Promotes Adhesion of Human Neutrophils to Laminin
Ichiro Kuwabara and Fu-Tong Liu

Stem Cell Factor (c-kit Ligand) Influences Eosinophil Recruitment and Histamine Levels in Allergic Airway Inflammation

Activation of Human Monocytes Through CD40 Induces Matrix Metalloproteinases
Najma Malik, Brad W. Greenfield, Alan F. Wahl, and Peter A. Kiener

Salicylates Inhibit IκB-α Phosphorylation, Endothelial-Leukocyte Adhesion Molecule Expression, and Neutrophil Transmigration
Jacqueline W. Pierce, Margaret A. Read, Han Ding, Francis W. Luscinskas, and Tucker Collins

Extracellular ATP Activates Mast Cells Via a Mechanism That Is Different from the Activation Induced by the Cross-Linking of Fc Receptors
Nobuyuki Sudo, Kazuo Tanaka, Yasuhiro Koga, Yuushi Okumura, Chiharu Kudo, and Kikuo Nomoto

Eosinophil Degranulation in the Presence of Bronchial Epithelial Cells: Effect of Cytokines and Role of Adhesion
Shigeru Takafuji, Takayuki Ohtoshi, Hajime Takizawa, Kenji Tadokoro, and Koji Ito
3986 Neutrophils Undergo Apoptosis Following Ingestion of *Escherichia coli*
R. William G. Watson, H. Paul Redmond, Jiang Huai Wang, Claire Condron, and David Bouchier-Hayes

**Clinical Immunology**

3994 Binding of HIV-1 Virions or gp120-Anti-gp120 Immune Complexes to HIV-1-Infected Quiescent Peripheral Blood Mononuclear Cells Reveals Latent Infection
Laurence Briant, Nolwenn Coudronnière, Véronique Robert-Hebmann, Monsef Benkivine, and Christian Desaux

4005 Phage Display Cloning and Characterization of an Immunogenetic Marker (Perinuclear Anti-Neutrophil Cytoplasmic Antibody) in Ulcerative Colitis

4012 Intact Antigen Receptor-Mediated Calcium Signals in Patients with Early Stage HIV-1 Infection
Thomas E. Hickey, Patrick J. Blair, Steve Perfetto, Douglas S. Smoot, Kenneth F. Wagner, Daniel C. St. Louis, Douglas L. Mayers, Jeffrey N. Siegel, and Carl H. June

4018 Human Lupus Anti-Spliceosome A Protein Autoantibodies Bind Contiguous Surface Structures and Segregate into Two Sequential Epitope Binding Patterns
Judith A. James and John B. Harley

4027 Endometrial T, B, and NK Cells in Patients with Recurrent Spontaneous Abortion: Altered Profile and Pregnancy Outcome
Marie-Hélène Lachapelle, Pierre Miron, Robert Hemmings, and Denis Claude Roy

4035 Selective Reduction of Va14+ NK T Cells Associated with Disease Development in Autoimmune-Prone Mice
Marco A. Mieza, Toshihiro Itoh, Jun Q. Cui, Yasuhiko Makino, Tetsu Kawano, Kennichi Tsuchida, Takao Koike, Toshikazu Shirai, Hideo Yagita, Akio Matsuzawa, Haruhiko Koseki, and Masaru Taniguchi

4041 Murine Lupus in the Absence of αβ T Cells
Stanford L. Peng, Michael P. Madaio, Dennis P. M. Hughes, I. Nicholas Crispe, Michael J. Owen, Li Wen, Adrian C. Hayday, and Joe Craft

4050 Flow Cytometric and Functional Analyses of Central Nervous System-Infiltrating Cells in SJL/J Mice with Theiler's Virus-Induced Demyelinating Disease: Evidence for a CD4+ T Cell-Mediated Pathology
Jonathan G. Pope, William J. Karpus, Carol VanderLugt, and Stephen D. Miller

4059 Immunization with Short Peptides from the Sequence of the Systemic Lupus Erythematosus-Associated 60-kDa Ro Autoantigen Results in Anti-Ro Ribonucleoprotein Autoimmunity
R. Hal Scofield, William E. Henry, Biji T. Kurien, Judith A. James, and John B. Harley

4067 Author Index