This information is current as of October 22, 2022.
TABLE OF CONTENTS

CUTTING EDGE

1585 Lactate Dehydrogenase-Elevating Virus (LDV): Lifelong Coexistence of Virus and LDV-Specific Immunity
Maries F. van den Broek, Roman Sporri, Chen Even, Peter G. W. Plagemann, Edgar Hänseler, Hans Hengartner, and Rolf M. Zinkernagel

1589 Identification and Characterization of a Novel β Chemokine Containing Six Conserved Cysteines
Joseph A. Hedrick and Albert Zlotnik

1594 Human Monocytic Cells Contain High Levels of Intracellular Fas Ligand: Rapid Release Following Cellular Activation
Peter A. Kiener, Patricia M. Davis, Bruce M. Rankin, Seymour J. Klebanoff, Jeffrey A. Ledbetter, Gary C. Starling, and W. Conrad Liles

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

1599 IL-4 Expression by Grafts from Transgenic Mice Fails to Prevent Allograft Rejection
Regula Mueller, Joanna D. Davies, Troy Krahl, and Nora Sarvetnick

1604 IL-12 Production by Central Nervous System Microglia Is Inhibited by Astrocytes
Francesca Aloisi, Giuseppe Penna, Joanna Cerase, Begoña Menéndez Iglesias, and Luciano Adorini

1613 Cot Kinase Regulation of IL-2 Production in Jurkat T Cells
Alicia Ballester, Rafael Toebena, Carlos Lisbona, Victor Calvo, and Susana Alemany

On the cover: Graphical representations of MHC class I molecules H-2Db and HLA-A2.1. Identical residues are shown in green. A murine CTL clone (AHII112.2) displays peptide-specific recognition of both of these molecules, and cytolytic assays suggest that these are functionally equivalent epitopes. This TCR appears to make a different, but overlapping set, of contacts with each class I/peptide complex. In this instance, cross-recognition appears to be the result of both shared and complex-specific contacts. (Figure 8 from Loftus, D. J., Y. Chen, D. G. Covell, V. H. Engelhard, and E. Appella. 1997. Differential contact of disparate class I/peptide complexes as the basis for epitope cross-recognition by a single T cell receptor. J. Immunol. 158:3651.)
Modulation of Lymphocyte Interaction with Endothelium and Homing by HIV-1 gp120
Manuela Bragardo, Donatella Buonfilio, Maria Jose Feito, Sara Bonisso, Valter Redoglia, Jose Maria Rajo, Sara Ballester, Pilar Portoles, Giovanni Garbarino, Fabio Malavasi, and Umberto Dianzani

Ion Channels, Ca$^{2+}$ Signaling, and Reporter Gene Expression in Antigen-Specific Mouse T Cells
Hubert H. Kerschbaum, Paul A. Negulescu, and Michael D. Cahalan

Three Domains of SLP-76 Are Required for Its Optimal Function in a T Cell Line
Michael A. Musci, David G. Moito, Susan E. Ross, Nan Fang, and Gary A. Koretzky

Degenerate and Promiscuous Recognition by CTL of Peptides Presented by the MHC Class I A3-like Superfamily: Implications for Vaccine Development
Stephen C. Threlkeld, Peggy A. Wentworth, Spyros A. Kalams, Barbara M. Wilkes, Debbie J. Ruhl, Elissa Keogh, John Sidney, Scott Southwood, Bruce D. Walker, and Alessandro Sette

Characterization of IL-12 Receptor β1 Chain (IL-12Rβ1)-Deficient Mice: IL-12Rβ1 Is an Essential Component of the Functional Mouse IL-12 Receptor
Chang-you Wu, Jessica Ferrante, Maurice K. Gately, and Jeanne Magram

Introduction of Soluble Proteins into the MHC Class I Pathway by Conjugation to an HIV tat Peptide

Weak Peptide Agonists Reveal Functional Differences in B7-1 and B7-2 Costimulation of Human T Cell Clones
David E. Anderson, Lara J. Ausubel, Jeff Krieger, Per Hollsberg, Gordon J. Freeman, and David A. Hafler

Augmentation of Mature CD4$^+$ T Cell Responses to Isolated Antigenic Class II Proteins by Fibronectin and Intercellular Adhesion Molecule-1
Anders Brunmark and Anne M. O'Rourke

Mechanisms of L-Selectin Regulation by Activated T Cells
Cheng-Chi Chao, Robert Jensen, and Morris O. Dailey

The Avian chB6 (Bu-1) Alloantigen Can Mediate Rapid Cell Death
Phillip E. Funk, Clive A. Tregaskes, John R. Young, and Craig B. Thompson

Peptide Antigen or Superantigen-Induced Down-Regulation of TCRs Involves Both Stimulated and Unstimulated Receptors
Florence Niedergang, Alice Dautry-Varsat, and Andres Alcover

CD28-B7 T Cell Costimulatory Blockade by CTLA4Ig in Sensitized Rat Recipients: Induction of Transplantation Tolerance in Association with Depressed Cell-Mediated and Humoral Immune Responses
Kazuhiko Onodera, Anil Chandraker, Meike Schaub, Thomas H. W. Stadlbauer, Stephan Korom, Robert Peach, Peter S. Linsley, Mohamed H. Sayegh, and Jerzy W. Kupiec-Weglinski
Recombinant Soluble αβ T Cell Receptors Protect T Cells from Immune Suppression: Requirement for Aggregated Multimeric, Disulfide-Linked αβ Heterodimers
Vipin Paliwal, Wlodzimierz Ptak, Johann Sperl, Emory Braswell, and Philip W. Askenase

A Solution to the Rheumatoid Factor Paradox: Pathologic Rheumatoid Factors Can Be Tolerized by Competition with Natural Rheumatoid Factors
Jeffrey J. Stewart, Harvey Agosto, Samuel Litwin, J. Douglas Welsh, Mark Shlomchik, Martin Weigert, and Philip E. Seiden

The Requirement of Intestinal Bacterial Flora for the Development of an IgE Production System Fully Susceptible to Oral Tolerance Induction
Nobuyuki Sudo, Sada-aki Sawamura, Kazuo Tanaka, Yahji Aiba, Chiharu Kubo, and Yasuhiro Koga

Homing of Naive and Memory T Lymphocyte Subsets to Peyer's Patches, Lymph Nodes, and Spleen
Marnan Williams and Eugene C. Butcher

T Cell Receptor Engagement Induces Tyrosine Phosphorylation of FAK and Pyk2 and their Association with Lck
Nancy N. Berg and Hanne L. Ostergaard

T Cell Antigen Receptor-Induced IL-2 Production and Apoptosis Have Different Requirements for Lck Activities
Chan D. Chung, Linda A. Lewis, and M. Carrie Miceli

T Cell Genetic Background Determines Maintenance of IL-12 Signaling: Effects on BALB/c and B10.D2 T Helper Cell Type 1 Phenotype Development
Mehmet L. Güler, Nils G. Jacobson, Ueli Gubler, and Kenneth M. Murphy

TCR Expression in Human Fetal Intestine and Identification of an Early T Cell Receptor β-Chain Transcript
Jacob C. Koningsberger, Andreas Chott, Ton Logtenberg, Lucietta J. J. M. Wiegmans, Richard S. Blumberg, Gerard P. van Berge Henegouwen, and Steven P. Balk

Induction of Germinal Center B Cell Markers In Vitro by Activated CD4+ T Lymphocytes: The Role of CD40 Ligand, Soluble Factors, and B Cell Antigen Receptor Cross-Linking
Garet P. Lahvis and Jan Cerny

Self γ2aβ Protein Is Presented In Vivo by γ2aβ B Cells but Not by Dendritic Cells
Francesca Granucci, Maria Foti, Andrea Cossarizza, and Paola Ricciardi-Castagnoli

Molecular and Structural Immunology

Differential Interaction of Nuclear Factors with the Leukocyte-Specific pp52 Promoter in B and T cells
Sidney A. Omori, Stephen Smale, Anne O'Shea-Greenfield, and Randolph Wall
1809 B Cell Responses to a Peptide Epitope: IV. Subtle Sequence Changes in Flanking Residues Modulate Immunogenicity

Lalitha Vijayakrishnan, Surojit Sarkar, Rajendra P. Roy, and Kanury V.S. Rao

**HOST DEFENSE**

1820 *Salmonella typhimurium* Infections in Mice Deficient in Interleukin-4 Production: Role of IL-4 in Infection-Associated Pathology

Paul Everest, Jenny Allen, Anastasia Papakonstantinopoulou, Pietro Mastroeni, Mark Roberts, and Gordon Dougan

1828 Presentation Via the Class I Pathway by *Leishmania amazonensis*-Infected Macrophages of an Endogenous Leishmanial Antigen to CD8⁺ T Cells

Peter E. Kima, Nancy H. Ruddle, and Diane McMahon-Pratt

1835 Congenic Mapping of the Insulin-Dependent Diabetes (Idd) Gene, Idd10, Localizes Two Genes Mediating the Idd10 Effect and Eliminates the Candidate FcgRI

Patricia L. Podolin, Paul Denny, Christopher J. Lord, Natasha J. Hill, John A. Todd, Laurence B. Peterson, Linda S. Wicker, and Paul A. Lyons

1844 Cytotoxic CD8⁺ T Cells Recognize EBV Antigen but Poorly Kill Autologous EBV-Infected B Lymphoblasts: Immunodominance Is Elicited by a Peptide Epitope That Is Presented at Low Levels In Vitro

Yan Shi, Kelly D. Smith, Michael G. Kurilla, and Charles T. Lutz

1853 *Yersinia* Invasin, a Bacterial β₁-Integrin Ligand, Is a Potent Inducer of Lymphocyte Motility and Migration to Collagen Type IV and Fibronectin

Ignacio Arencibia, Nivia Carballeira Suárez, Hans Wolf-Watz, and Karl-Gösta Sundqvist

1860 Biologic Activity of Proteoglycan Macrophage Colony-Stimulating Factor

Shinya Sum, Fumihiko Kimura, Jun Ota, Kazuo Motoyoshi, Takehito Itoh, Yuji Mishima, Muneo Yamada, and Seiichi Shimamura

1868 FcεRI-Deficient Mice Infected with *Schistosoma mansoni* Mount Normal Th2-Type Responses While Displaying Enhanced Liver Pathology

Dragana Jankovic, Marika C. Kullberg, David Dombrowicz, Susan Barbieri, Patricia Caspar, Thomas A. Wynn, William E. Paul, Allen W. Cheever, Jean-Pierre Kinet, and Alan Sher

1876 Virus Dissemination Through the Brain Parenchyma Without Immunologic Control

Philip G. Stevenson, Samantha Freeman, Charles R. M. Bangham, and Simon Hawke

1885 DNA Vaccines Against Lymphoma: Promotion of Anti-Idiotypic Antibody Responses Induced by Single Chain Fv Genes by Fusion to Tetanus Toxin Fragment C

Myfanwy B. Spellerberg, Delin Zhu, Andrew Thompsett, Catherine A. King, Terry J. Hamblin, and Freda K. Stevenson

1893 Matching Antibody Class with Pathogen Type and Portal of Entry: Cognate Mechanisms Regulate Local Isotype Expression Patterns in Lymph Nodes Draining the Respiratory Tract of Mice Inoculated with Respiratory Viruses, According to Virus Replication Competence and Site of Inoculation

Mark Y. Sangster, X. Yanie Mo, Robert Sealy, and Christopher Coleclough
Perforin-Mediated Cytolysis Plays a Limited Role in Host Resistance to *Toxoplasma gondii*

Eric Y. Denkers, George Yap, Tanya Scharton-Kersten, Hugues Charest, Barbara A. Butcher, Patricia Caspar, Sara Heiny, and Alan Sher

**INFLAMMATION**

Human Endothelial Cell Activation and Mediator Release in Response to the Bacterial Exotoxins *Escherichia coli* Hemolysin and Staphylococcal α-Toxin

Friedrich Grimminger, Frank Rose, Ulf Sibelius, Matthias Meinhardt, Bernd Pötzsch, Reiner Spiestersbach, Sucharit Bhakdi, Norbert Suttorp, and Werner Seeger

Expression of Leukocyte Fucosyltransferases Regulates Binding to E-Selectin: Relationship to Previously Implicated Carbohydrate Epitopes

Amy J. Wagers, Lloyd M. Stoolman, Reiji Kannagi, Ron Craig, and Geoffrey S. Kansas

Human Dermal Microvascular Endothelial Cells Express the Melanocortin Receptor Type 1 and Produce Increased Levels of IL-8 upon Stimulation with α-Melanocyte-Stimulating Hormone

Mechthild Hartmeyer, Thomas Scholzen, Eva Becher, Ranjit S. Bhardwaj, Thomas Schwarz, and Thomas A. Luger

Induction of Ceruloplasmin Synthesis by IFN-γ in Human Monocytic Cells

Barsanjit Mazumder, Chinmay K. Mukhopadhyay, Alan Prok, Martha K. Cathcart, and Paul L. Fox

Suppression of Ongoing Ocular Inflammatory Disease by Topical Administration of Plasmid DNA Encoding IL-10

Massoud Daheshia, Nelly Kuklin, Sivadasan Kanangat, Elanchezhiyan Manickan, and Barry T. Rouse

Potentiation of C1 Inhibitor by Glycosaminoglycans: Dextran Sulfate Species Are Effective Inhibitors of In Vitro Complement Activation in Plasma

Walter A. Wuillemin, Henk te Velthuis, Yvonne T. P. Lubbers, Cornelis P. de Ruig, Eric Eldering, and C. Erik Hack

Thrombopoietin Promotes Adhesion of Primitive Human Hemopoietic Cells to Fibronectin and Vascular Cell Adhesion Molecule-1: Role of Activation of Very Late Antigen (VLA)-4 and VLA-5

Li Cui, Veslemøy Ramsfjell, Ole J. Borge, Ole P. Veiby, Sti Lok, and Sten E. W. Jacobsen

Listeria monocytogenes Potently Induces Up-Regulation of Endothelial Adhesion Molecules and Neutrophil Adhesion to Cultured Human Endothelial Cells

Matthias Krüll, Ralph Nöst, Stefan Hippenstiel, Eugen Domann, Trinad Chakraborty, and Norbert Suttorp

P- and L-Selectin Mediate Distinct but Overlapping Functions in Endotoxin-Induced Leukocyte-Endothelial Interactions in the Rat Mesenteric Microcirculation

Kelly L. Davenpeck, Douglas A. Steeber, Thomas F. Tedder, and Bruce S. Bochner

Selective Conversion of Big Endothelins to Tracheal Smooth Muscle-Constricting 31-Amino Acid-Length Endothelins by Chymase from Human Mast Cells

Ayako Nakano, Fumiko Kishi, Kazushi Minami, Hideki Wakabayashi, Yutaka Nakaya, and Hiroshi Kido
1993  Receptor Expression and Responsiveness of Human Dendritic Cells to a Defined Set of CC and CXC Chemokines  
Silvano Sozzani, Walter Luini, Alessandro Borsatti, Nadia Polentarutti, Dan Zhou, Lorenzo Piemonti, Giovanna D'Amico, Christine A. Power, Timothy N. C. Wells, Marco Gobbi, Paola Allavena, and Alberto Mantovani

2001  Pathogenetic Effector Function of CD4-Positive T Helper 1 Cells in Hepatitis B Virus Transgenic Mice  
Alessandra Franco, Luca G. Guidotti, Monte V. Hobbs, Valerie Pasquetto, and Francis V. Chisari

CLINICAL IMMUNOLOGY

2010  Characterization of Autoantibodies in Pemphigus Using Antigen-Specific Enzyme-Linked Immunosorbent Assays with Baculovirus-Expressed Recombinant Desmogleins  
Ken Ishii, Masayuki Amagai, Russell P. Hall, Takashi Hashimoto, Atsushi Takayanagi, Shinobu Gamou, Nobuyoshi Shimizu, and Takeji Nishikawa

2018  Human T Cell Leukemia Virus Type I (HTLV-I)-Specific CD8+ CTL Clones from Patients with HTLV-I-Associated Neurologic Disease Secrete Proinflammatory Cytokines, Chemokines, and Matrix Metalloproteinase  

2026  Allergenic Properties of Ovomucoid in Man  
Sara K. Cooke and Hugh A. Sampson

2033  Autoantibodies to Ribosomal P Proteins Penetrate into Live Hepatocytes and Cause Cellular Dysfunction in Culture  
Mirna Koscec, Eugen Koren, Marianne Wolfson-Reichlin, Robert D. Fugate, Edward Trieu, Ira N. Targoff, and Morris Reichlin

2042  Accumulation of Human T Lymphotropic Virus (HTLV)-I-Specific T Cell Clones in HTLV-I-Associated Myelopathy/Tropical Spastic Paraparesis Patients  
Torsten A. Höger, Steven Jacobson, Taketo Kawanishi, Tomohiro Kato, Kusuki Nishioda, and Kazuhiko Yamamoto

2049  HIV-1 Envelope-Specific CD4+ T Helper Cells from Simian/Human Immunodeficiency Virus-Infected Rhesus Monkeys Recognize Epitopes Restricted by MHC Class II DRB10406 and DRB201 Molecules  
Christine Lekutis and Norman L. Letvin

2058  Intercellular Adhesion Molecule-1 Deficiency Protects MRL/MpJ-Fas+pr Mice from Early Lethality  
Daniel C. Bullard, Philip D. King, M. John Hicks, Bo Dupont, Arthur L. Beaudet, and Keith B. Elkon

2068  Author Index