Cellular Immunology and Immune Regulation

5887 Intrathymic Lymphoid Precursor Cells during Fetal Thymus Development
Mariastefania Antica, Li Wu, Ken Shortman, and Roland Scollay

5896 Functional Effects of CD30 on a Large Granular Lymphoma Cell Line, YT: Inhibition of Cytotoxicity, Regulation of CD28 and IL-2R, and Induction of Homotypic Aggregation
Michael A. Bowen, Kristin J. Olsen, Lirong Cheng, David Avila, and Eckhard R. Podack

5907 Production of Soluble IL-4 Receptors by Murine Spleen Cells Is Regulated by T Cell Activation and IL-4
Paula M. Chilton and Rafael Fernandez-Botran

5918 Subsets of Activated CD4 T Lymphocytes Refractory for Secretion of IL-2 Are Distinguished by Expression of Ly-6A/E in BALB/c Mice
Elaine K. Codias and Thomas R. Malek

5930 HLA-A1 and HLA-A3 T Cell Epitopes Derived from Influenza Virus Proteins Predicted from Peptide Binding Motifs
Marianne DiBrino, Tomiko Tsuchida, Richard V. Turner, Kenneth C. Parker, John E. Coligan, and William E. Biddison

5936 Administration of Anti-CD45 mAb Specific for a B Cell-Restricted Epitope Abrogates the B Cell Response to a T-Dependent Antigen in Vivo
Rana Domiati-Saad, Edward W. Ogle, and Louis B. Justement

5948 Reversion of the SCID Phenotype by Human T Cell Grafts: Development of Cross-Species Immunocompetence
Catherine M. Donjon, Hanna Morkowski, Roy K. Cheung, J. Steven Leeder, and Hans-Michael Dosch

5955 Influence of Membrane Ig Receptor Density and Affinity on B Cell Signaling by Antigen: Implications for Affinity Maturation
Julia George, Steven J. Penner, John Weber, Janice Berry, and J. Latham Clajlin

5966 Naturally Processed HLA Class I Bound Peptides from c-myc-Transfected Cells Reveal Allele-Specific Motifs
Paul E. Harris, Adriana Colovai, Zhuoru Liu, Riccardo Dalla Favera, and Nicole Suciu-Foca

5973 Naturally Processed Cytokine-Derived Peptide Sound to HLA-Class II Molecules
Paul E. Harris, Antonella Mafsei, Zhuoru Liu, Ioana Colovai, Elaine F. Reed, Giorgio Inghirami, and Nicole Suciu-Foca

5984 Identification of a Novel Population of CD8α+β− Bone Marrow-Derived Dendritic Epidermal Cells: This Unique Population is Subsequently Outnumbered by Thymus-Independent Expansion of the CD8α+β+ Dendritic Epidermal Cells
Jun Hayakawa, Tetsuo Shichara, Noriko Moriya, Kimiko Arakaki, Masaji Nagashima, Hideo Yagita, and Hiromichi Ishikawa
Avidity for Antigen Can Influence the Helper Dependence of CD8+ T Lymphocytes
William R. Heath, Lars Kjer-Nielsen, and Matthias W. Hoffmann

Coexpression of NKR-P1 and αβ-TCR on Lymphoid Cells in Fully Xenogeneic (Rat→ Mouse) Chimeras and Syngeneically Reconstituted (A→ A) Rats
Christina L. Kaufman, William H. Chambers, and Suzanne T. Ildstad

Keratinocyte-Derived IL-7 Serves as a Growth Factor for Dendritic Epidermal T Cells in Mice
Hiroyuki Matsue, Paul R. Bergstresser, and Akira Takashima

Dissociation of the Peptide-MHC Class I Complex Limits the Binding Rate of Exogenous Peptide
David M. Ojcius, Jean-Pierre Abastado, Armanda Casrouge, Estelle Mottez, Lucien Cabanie, and Philippe Kourilsky

A Lymphostromal Molecule, Thymic Shared Ag-1, Regulates Early Thymocyte Development in Fetal Thymus Organ Culture
Elise S. Randle, Gary A. Waanders, Marilina Masciantonio, Dale I. Godfrey, and Richard L. Boyd

Elevation of Intracellular cAMP in Human T Lymphocytes by an Anti-CD44 mAb
Barbara L. Rothman, Nancy Kennure, Keith A. Kelley, Michael Katz, and Thomas M. Aune

CD28-Mediated Costimulation Is Necessary for the Activation of T Cell Receptor-γδ+ T Lymphocytes
Anne I. Sperling, Peter S. Linsley, Terrance A. Barrett, and Jeffrey A. Bluestone

Difference in Signal Transduction Pathway for IL-2 and IL-4 Production in T Helper 1 and T Helper 2 Cell Clones in Response to Anti-CD3
Toshiki Tamura, Tetsuya Yanagida, and Hideo Nariuchi

Two Separate Mechanisms of T Cell Clonal Anergy to Mls -1
Katsuyuki Yui, Yasuo Ishida, Makoto Katsumata, Shinji Komori, Thomas M. Chused, and Ryo Abe

Molecular and Structural Immunology

Mouse MHC Class I-like Fc Receptor Encoded Outside the MHC
Jeremy J. Ahouse, Chanah L. Hagerman, Plavi Mitral, Debra J. Gilbert, Neal G. Copeland, Nancy A. Jenkins, and Neil E. Simister

A cDNA Clone Encoding the Mouse Qa-1 Histocompatibility Antigen and Proposed Structure of the Putative Peptide Binding Site

E-Box Activator of the C4 Promoter Is Related to but Distinct from the Transcription Factor Upstream Stimulating Factor
Marie-Dominique Galibert, Yuko Miyagoe, and Tommaso Meo

Few V Gene Segments Dominate the T Cell Receptor β-Chain Repertoire of the Human Thymus
Rita Jores and Tommaso Meo

Third Component of Trout Complement: cDNA Cloning and Conservation of Functional Sites
John D. Lambris, Zhege Lao, Jian Pang, and Jochem Alsenz

cAMP Activates the IL-5 Promoter Synergistically with Phorbol Ester through the Signaling Pathway Involving Protein Kinase A in Mouse Thymoma Line EL-4
Hyun Jun Lee, Naoko Koyano-Nakagawa, Yoshiyuki Naito, Junji Nishida, Naoko Arai, Ken-ichi Arai, and Takashi Yokota

Role of the B Cell Antigen Receptor in Antigen Processing and Presentation: Involvement of the Transmembrane Region in Intracellular Trafficking of Receptor/Ligand Complexes
Ko-Jiunn Liu, Vandana S. Parikh, Philip W. Tucker, and Byung S. Kim
Analysis of T Cell Receptors Specific for Recognition of Class Ia Antigens
Linda C. Lowen, Carla J. Aldrich, and James Forman

Characterization of the Gene for the Human High Affinity IgE Receptor (FceRI) α-Chain
Jesse Pang, Gareth R. Taylor, Donald G. Munroe, Armana Ishaque, Wai-Ping Fung-Leung, Catherine Y. Lau, Fu-Tong Liu, and Lubing Zhou

Mapping the Major Human T Helper Epitopes of Tetanus Toxin: The Emerging Picture
Jeanette C. Reece, H. Mario Geysen, and Stuart J. Rodda

Selection for Amino Acid Sequence and JP Element Usage in the Beta Chain of DBA/2Vβ- and DBA/2Vβ-Derived Myoglobin-Specific T Cell Clones
Giovina Ruberti, Violette Paragas, Dewey Kim, and C. Garrison Fathman

Met-ase: Cloning and Distinct Chromosomal Location of a Serine Protease Preferentially Expressed in Human Natural Killer Cells
Mark J. Smyth, Thomas J. Sayers, Theresa Wiltroux, James C. Powers, and Joseph A. Trapani

Binding Site on the Murine IFN-γ Receptor for IFN-γ Has Been Identified Using the Synthetic Peptide Approach
Maria A. VanVolkenburg, Nathan D. Griggs, Michael A. Jarpe, Judith L. Pace, Stephen W. Russell, and Howard M. Johnson

Structure of the Gene for the F Allele of Complement Receptor Type 1 and Sequence of the Coding Region Unique to the S Allele
Dennis P. Vik and Winnie W. Wong

cDNA Cloning and Expression of Guinea Pig Neutrophil Attractant Protein-1 (NAP-1): NAP-1 Is Highly Conserved in Guinea Pig
Teizo Yoshimura and Donald G. Johnson

Implication of HLA-DR Residues at Positions 67, 71, and 86 in Interaction Between HLA-DR11 and Peptide HA306-320
Dominique Zeliszewski, Jost J. Golvano, Pierre Gaudebout, Isabelle Dorval, Catherine Freidel, Lucette Gebuhrer, Hervé Betuel, Francisco Borras-Cuesta, and Ghislaine Sterkers

Host Defense

Direct Evidence that Interferon-β Mediates Enhanced HLA-Class I Expression in Measles Virus-Infected Cells
Suhayl S. Dhib-Jalbut and Elliot P. Cowan

CD2-Deficient Mice Generate Virus-Specific Cytotoxic T Lymphocytes upon Infection with Lympocytic Choriomeningitis Virus
Claire F. Evans, Glenn F. Rall, Nigel Killeen, Dan Littman, and Michael B. A. Oldstone

Conglutinin Acts As an Opsonin for Influenza A Viruses
Kevan L. Hartshorn, Kedarnath Sastry, Daniel Brown, Mitchell R. White, Thomas B. Okarma, Young-Moo Lee, and Alfred I. Tauber

Very Late Antigen-5 and Complement Receptor Type 3 Cooperatively Mediate the Interaction between Bordetella pertussis and Human Monocytes
Wouter L.W. Hazenbos, Bernard M. van den Berg, and Ralph van Furth

β2M−/− Knockout Mice Contain Low Levels of CD8+ Cytotoxic T Lymphocyte that Mediate Specific Tumor Rejection
Esti Lamoust-Smith, Virginia K. Clements, and Suzanne Ostrand-Rosenberg

In Vitro Candidastatic Properties of the Human Neutrophil Calprotectin Complex
6302 Shared T Cell-Defined Antigens on Independently Derived Tumors
Deepak M. Sahasrabudhe, Dvora Burystyn, Janice C. Dusel, Barbara L. Hibner, John Leslie Collins, and Maurice Zauderer

6311 Role of CD4+ T Cells in the Expansion of the CD4-, CD8- γδ T Cell Subset in the Spleens of Mice during Blood-Stage Malaria
Henri C. van der Heyde, Dean D. Manning, and William P. Weidanz

Inflammation

6318 Antigen-Dependent Stimulation by Bone Marrow-Derived Mast Cells of MHC Class II-Restricted T Cell Hybridoma
Pierre Frandji, Carole Oskéritzian, Florina Cacaraci, Josette LaPeyre, Roger Peronet, Bernard David, Jean-Gérard Guillet, and Salaheddine Mécheri

6329 Inducible Nitric Oxide Synthase from a Rat Alveolar Macrophage Cell Line Is Inhibited by Nitric Oxide
Jeanette M. Griscavage, Norma E. Rogers, Michael P. Sherman, and Louis J. Ignarro

6338 Neutrophils Roll on E-Selectin
Michael B. Lawrence and Timothy A. Springer

6347 Intravenous Interleukin-8 Inhibits Granulocyte Emigration from Rabbit Mesenteric Venules Without Altering L-Selectin Expression or Leukocyte Rolling
Klaus Ley, Joffre B. Baker, Myron I. Cybulsky, Michael A. Gimbrone, Jr., and Francis W. Luscinskas

6358 IL-3 Alters Free Arachidonic Acid Generation in CSa-Stimulated Human Basophils
Donald W. MacGlashan, Jr. and Walter C. Hubbard

6370 Effects of IL-13 on Phenotype, Cytokine Production, and Cytotoxic Function of Human Monocytes: Comparison with IL-4 and Modulation by IFN-γ or IL-10
René de Waal Malefyt, Carl G. Figdor, Richard Huijbens, Sheela Mohan-Peterson, Bruce Bennett, Janice Culpepper, Warren Dong, Gerard Zarowski, and Jan E. de Vries

6382 Tyrosine Phosphorylation of a γ-Chain Homodimer Associated with FcγRIII (CD16) in Cultured Human Monocytes
Midori Masuda, Arthur J. Verhoeven, and Dirk Roos

6389 Macrophage Progenitors from Mouse Bone Marrow and Spleen Differ in Their Expression of the Ly-6C Differentiation Antigen
Jeffrey M. McCormack, Pieter J. M. Leenen, and William S. Walker

6399 Induction by Chemokines of Lipid Mediator Synthesis in Granulocyte-Macrophage Colony-Stimulating Factor-Treated Human Neutrophils
Patrick P. McDonald, Marc Pouliot, Pierre Borgeat, and Shaun R. McColl

6410 Protective Effects of Selectin Chimeras in Neutrophil-Mediated Lung Injury
Michael S. Mulligan, Susan R. Watson, Christopher Fennie, and Peter A. Ward

6418 Multiple Sites on IL-8 Responsible for Binding to α and β IL-8 Receptors
Ingrid U. Schraufstätter, Diana S. Barritt, Min Ma, Zenaida G. Oades, and Charles G. Cochrane

6429 Binding of Monomeric Human IgG Defines an Expression Polymorphism of FcγRIII on Large Granular Lymphocyte/Natural Killer Cells
Barbara A. Vance, T. W. J. Huizinga, Kathisen Wardwell, and Paul M. Guyre
Clinical Immunology

6442 Increased Gene Expression of Acetylcholine Receptor and Myogenic Factors in Passively Transferred Experimental Autoimmune Myasthenia Gravis
Orna Asher, Wilfried A. Kues, Veit Witzemann, Socrates J. Tzartos, Sara Fuchs, and Miriam C. Souroujon

6451 Interferon-γ Prevents Graft-Versus-Host Disease after Allogeneic Bone Marrow Transplantation in Mice
Herbert P.M. Brok, Peter J. Heidt, Peter H. van der Meide, Chris Zurcher, and Jaak M. Vossen

6460 Human T Cell Clones Reactive Against U-Small Nuclear Ribonucleoprotein Autoantigens from Connective Tissue Disease Patients and Healthy Individuals
Robert W. Hoffman, Yoshihiko Takeda, Gordon C. Sharp, David R. Lee, Don L. Hill, Hidetoshi Kaneoka, and Charles W. Caldwell

6470 C33 Antigen and M38 Antigen Recognized by Monoclonal Antibodies Inhibitory to Syncytium Formation by Human T Cell Leukemia Virus Type 1 Are Both Members of the Transmembrane 4 Superfamily and Associate with Each Other and with CD4 or CD8 in T Cells
Toshio Imai and Osamu Yoshiie

6482 Differential Expression in Rheumatoid Synovium and Synovial Fluid of α4β7 Integrin: A Novel Receptor for Fibronectin and Vascular Cell Adhesion Molecule-1
Andrew I. Lazarovits and Jacob Karsh

6490 Regulation of Human CD44H and CD44E Isoform Binding to Hyaluronan by Phorbole Myristate Acetate and Anti-CD44 Monoclonal and Polyclonal Antibodies
Hua-Xin Liao, Marc C. Levesque, Karen Patton, Bethany Bergamo, Dawn Jones, M. Anthony Moody, Marilyn J. Telen, and Barton F. Haynes

6500 Analysis of Glomeruli-Eluted Gp330 Autoantibodies and of Gp330 Antigen of Heymann Nephritis
Sudesh P. Makker

6509 Polyclonal B Cell Activation Arises from Different Mechanisms in Lupus-Prone (NZB x NZW)F1 and MRL/Mp-lpr/lpr Mice
Ramón Merino, Masahiro Iwamoto, Liliane Fossati, and Shozo Izui

6517 Expression of α-3, α-5, and β-4 Neuronal Acetylcholine Receptor Subunit Transcripts in Normal and Myasthenia Gravis Thymus: Identification of Thymocytes Expressing the α-3 Transcripts
Mirta Mihovilovic, and Allen D. Roses

6525 Constitutive Expression of IL-6 Receptors and Their Role in the Excessive B Cell Function in Patients with Systemic Lupus Erythematosus
Hiroko Nagafuchi, Noboru Suzuki, Yutaka Mizushima, and Tsuyoshi Sakane

6535 Characterization of Dermal Dendritic Cells Obtained from Normal Human Skin Reveals Phenotypic and Functionally Distinctive Subsets
Frank O. Nestle, Xiang-Guang Zheng, Craig B. Thompson, Laurence A. Turka, and Brian J. Nickoloff

6546 Role of γ8 T Cells in Murine Collagen-Induced Arthritis
Gary M. Peteman, Charles Spencer, Anne I. Sperling, and Jeffrey A. Bluestone

6559 Preferential Use of a H Chain V Region in Antitumor-Associated Glycoprotein-72 Monoclonal Antibodies
Mark W. Rixon, Brian B. Gourlie, Donald A. Kaplan, Jeffrey Schlom, and Peter S. Mézes

6569 V4.21-Encoded Natural Autoantibodies with Anti-i Specificity Mirror those Associated with Cold Hemagglutinin Disease
Mieke E. M. Schutte, Johan H. van Es, Leslie E. Silberstein, and Ton Logtenberg
Targeting of T Lymphocytes to Neu/HER2-Expressing Cells Using Chimeric Single Chain Fv Receptors
Ilana Stancovski, Daniel G. Schindler, Tova Waki, Yosef Yarden, Michael Sela, and Zelig Eshhar

Further Characterization of the Interaction between the C1q Subcomponent of Human C1 and the Transmembrane Envelope Glycoprotein gp41 of HIV-1
Nicole M. Thielens, Isabelle M. Bally, Christoph F. Ebenbichler, Manfred P. Dierich, and Gérard J. Arlaud

TSG-6: A TNF-, IL-1-, and LPS-Inducible Secreted Glycoprotein Associated with Arthritis
Hans-Georg Wisniewski, Rainer Maier, Martin Lotz, Sicy Lee, Lidija Klampfer, Tae H. Lee, and Jan Vilček

Influence of a Recombinant Human Soluble Tumor Necrosis Factor Receptor FC Fusion Protein on Type II Collagen-Induced Arthritis in Mice
Paul H. Wooley, Julie Dutcher, Michael B. Widmer, and Steven Gillis

Author Index
Information for Contributors
Submission Form
Membership Form
Errata