This information is current as of May 28, 2017.
Contents

CELLULAR IMMUNOLOGY

D. J. Cassell and J. Forman 4075 Regulation of the Cytotoxic T Lymphocyte Response against QA-1 Alloantigens
L. H. Dang, M. T. Michalek, F. Takei, B. Benacerraf, and K. L. Rock 4082 Role of ICAM-1 in Antigen Presentation Demonstrated by ICAM-1 Defective Mutants
N. H. Dang, Y. Torimoto, K. Deusch, S. F. Schlossman, and C. Morimoto 4092 Comitogenic Effect of Solid-Phase Immobilized Anti-1F7 on Human CD4 T Cell Activation via CD3 and CD2 Pathways
H. W. Davidson, M. A. West, and C. Watts 4101 Endocytosis, Intracellular Trafficking, and Processing of Membrane IgG and Monovalent Antigen/Membrane IgG Complexes in B Lymphocytes
T. F. Gajewski, S. R. Schell, and F. W. Fitch 4110 Evidence Implicating Utilization of Different T Cell Receptor-Associated Signaling Pathways by T H1 and T H2 Clones
B. L. Gocinski and R. E. Tige-laar 4121 Roles of CD4+ and CD8+ T Cells in Murine Contact Sensitivity Revealed by in Vivo Monoclonal Antibody Depletion
B. B. Hubbard, M. W. Glacken, J. R. Rodgers, and R. R. Rich 4129 The Role of Physical Forces on Cytotoxic T Cell-Target Cell Conjugate Stability
S. Kitagawa, S. Sato, T. Azuma, S. Hori, T. Hamaoka, and H. Fujiwara 4139 Requirement of the Thymus for the Recovery of Anti-Alloantigen Helper T Cells from Tolerance Induced by Intravenous Presensitization with Alloantigenic Cells
A. H. Lazarus, G. B. Mills, and T. L. Delovitch 4147 Antigen-Induced Ca2+ Signaling and Desensitization in B Cells
H. Spits, X. Paliard, V. H. Engelhard, and J. E. de Vries 4156 Cytotoxic Activity and Lymphokine Production of T Cell Receptor (TCR)-αβ+ and TCR-γδ+ Cytotoxic T Lymphocyte (CTL) Clones Recognizing HLA-A2 and HLA-A2 Mutants: Recognition of TCR-γδ+ CTL Clones Is Affected by Mutations at Positions 152 and 156
Z. Zhang and J. G. Michael 4163 Orally Inducible Immune Unresponsiveness Is Abrogated by IFN-γ Treatment

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

C. N. Baxevanis, G. J. Reclos, and M. Papamichail 4166 Decreased HLA-DR Antigen Expression on Monocytes Causes Impaired Suppressor Cell Activity in Multiple Sclerosis
C. Clayberger, M. Rosen, P. Parham, and A. M. Krensky 4172 Recognition of an HLA Public Determinant (Bw4) by Human Allogeneic Cytotoxic T Lymphocytes
P. J. Gomatos, N. M. Stamatos, H. E. Gendelman, A. Fowler, D. L. Hoover, D. C. Kalter, D. S. Burke, E. C. Tamront, and M. S. Melitzer 4183 Relative Inefficiency of Soluble Recombinant CD4 for Inhibition of infection by Monocyte-Tropic HIV in Monocytes and T Cells
M. Lotz, J. Kekow, and D. A. Carson 4189 Transforming Growth Factor-β and Cellular Immune Responses in Synovial Fluids
E. S. Schulman, R. B. Pollack, T. J. Post, and S. P. Peters 4195 Histochemical Heterogeneity of Dispersed Human Lung Mast Cells
Y. Tanaka, H. Tozawa, Y. Koyanagi, and H. Shida 4202 Recognition of Human T Cell Leukemia Virus Type I (HTLV-I) gag and pX Gene Products by MHC-Restricted Cytotoxic T Lymphocytes Induced in Rats against Syngeneic HTLV-I-Infected Cells

Continued on page 4
### CYTOKINES • MEDIATORS • REGULATORY MOLECULES


Y. Hitoshi, N. Yamaguchi, S. Mita, E. Sonoda, S. Takaki, A. Tominaga, and K. Takatsu


J. Moeller, L. Hultner, E. Schmitt, M. Breuer, and P. Dörmer

J.-C. Renaud, A. Goethals, F. Houssiau, H. Merz, E. Van Roost, and J. Van Snick

G. Walz, B. Zanker, C. Barth, K. J. Wieder, S. C. Clark, and T. B. Strom

#### 4212 Monoclonal Antibodies Block Murine IL-4 Receptor Function

#### 4218 Distribution of IL-5 Receptor-Positive B Cells: Expression of IL-5 Receptor on LY-1(CD5)^+ B Cells

#### 4226 IL-6 Stimulates Osteoclast-Like Multinucleated Cell Formation in Long Term Human Marrow Cultures by Inducing IL-1 Release

#### 4231 Purification of MEA, a Mast Cell Growth-Enhancing Activity, to Apparent Homogeneity and Its Partial Amino Acid Sequencing

#### 4235 Human P40/IL-9: Expression in Activated CD4^+ T Cells, Genomic Organization, and Comparison with the Mouse Gene

#### 4242 Transcriptional Modulation of Human IL-6 Gene Expression by Verapamil

### IMMUNOCHEMISTRY

C. E. Hack, J. Paardekooper, and F. Van Milligen

J. Hebert, D. Bernier, Y. Boutin, M. Jobin, and W. Mourad

M. W. Nickells and J. P. Atkinson


T. L. O'Keefe, S. Bandyopadhyay, S. K. Datta, and T. Imanishi-Kari


T. Shinji, R. Ono, and S. Ferrone

#### 4249 Demonstration in Human Plasma of a Form of C3 That Has the Conformation of "C3b-Like C3"

#### 4256 Generation of Anti-Idiotypic and Anti-Anti-Idiotypic Monoclonal Antibodies in the Same Fusion: Support of Jerne's Network Theory

#### 4262 Characterization of CR1- and Membrane Cofactor Protein-Like Proteins of Two Primates

#### 4269 Inhibition of Factor I by Diisopropylfluorophosphate: Evidence of Conformational Changes in Factor I Induced by C3b and Additional Studies on the Specificity of Factor I

#### 4275 V Region Sequences of an Idiotypically Connected Family of Pathogenic Anti-DNA Autoantibodies

#### 4284 Human Epidermal Langerhans Cells Express Only the 40-Kilodalton Fcγ Receptor (FcRII)

#### 4291 Fine Specificity and Idiotype Diversity of a Murine Anti-HLA-DQw3 Monoclonal Antibody Elicited with a Syngeneic Antidiotyptic Monoclonal Antibody

### IMMUNOPHARMACOLOGY

J. Balsinde, B. Fernández, and E. Diez

J. B. Klein, T. M. Schepers, W. L. Dean, G. Sonnenfeld, and K. R. McLeish

L. Kobzik, J. J. Godleski, and J. D. Brain

#### 4298 Regulation of Arachidonic Acid Release in Mouse Peritoneal Macrophages: The Role of Extracellular Calcium and Protein Kinase C

#### 4305 Role of Intracellular Calcium Concentration and Protein Kinase C Activation in IFN-γ Stimulation of U937 Cells

#### 4312 Selective Down-Regulation of Alveolar Macrophage Oxidative Response to Opsonin-Independent Phagocytosis

*Continued on page 5*
M. Peters-Golden, R. W. McNish, J. K. Brieland, and J. C. Fantone
A. Yen, I. Gigli, and K. E. Barrett

4320 Diminished Protein Kinase C-Activated Arachidonate Metabolism Accompanies Rat Macrophage Differentiation in the Lung

4327 Dual Effects of Protoporphyrin and Long Wave Ultraviolet Light on Histamine Release from Rat Peritoneal and Cutaneous Mast Cells

MICROBIAL IMMUNOLOGY

E. Cenci, L. Romani, A. Vecchiarelli, P. Puccetti, and F. Bistoni

4333 T Cell Subsets and IFN-γ Production in Resistance to Systemic Candidosis in Immunized Mice

J. A. M. Langermans, M. E. B. van der Hulst, P. H. Nibbering, and R. van Furth

4340 Activation of Mouse Peritoneal Macrophages during Infection with Salmonella typhimurium Does Not Result in Enhanced Intracellular Killing

M. Makino, H. C. Morse III, T. N. Fredrickson, and J. W. Hartley

4347 H-2-Associated and Background Genes Influence the Development of a Murine Retrovirus-Induced Immunodeficiency Syndrome

R. C. Mathew, S. Ragheb, and D. L. Boros

4356 Recombinant IL-2 Therapy Reverses Diminished Granulomatous Responsiveness in Anti-L3T4-Treated, Schistosoma mansoni-Infected Mice


4362 Antigenic Variation of Giardia lamblia in Experimental Human Infections

C. V. Paya, R. A. Schoon, and P. J. Leibson

4370 Alternative Mechanisms of Natural Killer Cell Activation during Herpes Simplex Virus Infection


4376 Target Antigens of Transmission Blocking Immunity of Plasmodium vivax Malaria: Characterization and Polymorphism in Natural Parasite Isolates

R. P. Prioli, J. S. Mejia, and M. E. A. Pereira

4384 Monoclonal Antibodies against Trypanosoma cruzi Neuraminidase Reveal Enzyme Polymorphism, Recognize a Subset of Trypomastigotes, and Enhance Infection in Vitro

MOLECULAR BIOLOGY • MOLECULAR GENETICS

M. J. Dewey, C. Rheumae, F. G. Berger, and H. Baumann

A.-M. Eades, M. Litfin, and H. J. Rahmsdorf

4392 Inducible and Tissue-Specific Expression of Rat α-1-Acid Glycoprotein in Transgenic Mice

4399 The IFN-γ Response of the Murine Invariant Chain Gene Is Mediated by a Complex Enhancer That Includes Several MHC Class II Consensus Elements

I. Hue, J. Trucy, C. McCoy, D. Couez, B. Malissen, and M. Malissen

4410 A Novel Type of Aberrant T Cell Receptor α-Chain Gene Rearrangement: Implications for Allelic Exclusion and the V-J Recombination Process

J. S. Hunt, J. L. Fishback, G. Chumbley, and Y. W. Loke

4420 Identification of Class I MHC mRNA in Human First Trimester Trophoblast Cells by in Situ Hybridization

B. Parhami-Seren, J. Sharon, and M. V. Margolies

4426 Structural Characterization of H Chain-Associated Idiotopes of Anti-p-Azophenylarsonate Monoclonal Antibodies


4434 Monocyte Adherence Results in Selective Induction of Novel Genes Sharing Homology with Mediators of Inflammation and Tissue Repair


4442 Northern Hybridization Analysis of Vα Gene Expression in Murine Monoclonal Antibodies Directed to Cancer-Associated Ganglioside Antigens Having Various Sialic Acid Linkages

Continued on page 6
M. E. Dato and Y. B. Kim 4452 Characterization and Utilization of a Monoclonal Antibody Inhibiting Porcine Natural Killer Cell Activity for Isolation of Natural Killer and Killer Cells

A. Eisenthal, R. B. Cameron, and S. A. Rosenberg 4463 Induction of Antibody-Dependent Cellular Cytotoxicity in Vivo by IFN-α and Its Antitumor Efficacy against Established B16 Melanoma Liver Metastases when Combined with Specific Anti-B16 Monoclonal Antibody

T. Kalland 4472 Regulation of Natural Killer Progenitors: Studies with a Novel Immunomodulator with Distinct Effects at the Precursor Level

L. Remels, L. Fransen, K. Huyggen, and P. De Baetselier 4477 Poly I:C-Activated Macrophages Are Tumoricidal for TNF-α-Resistant 3LL Tumor Cells

S. L. Topalian, A. Kasid, and S. A. Rosenberg 4487 Immunoselection of a Human Melanoma Resistant to Specific Lysis by Autologous Tumor-Infiltrating Lymphocytes: Possible Mechanisms for Immunotherapeutic Failures

Author Index 4496