Contents

CELLULAR IMMUNOLOGY

T. Takeuchi, S. F. Schlossman, and C. Morimoto 665
J. D. Dasgupta and E. J. Yunis 672
P. Anderson, M.-L. Blue, C. Morimoto, and S. F. Schlossman 678
J. H. Phillips and L. L. Lanier 683
M. N. ElMasry, E. J. Fox, and R. R. Rich 688
K. L. Elkins, P. W. Stashak, and P. J. Baker 695
G. J. Deenan, S. V. Hunt, and D. Opstelten 702
C. S. Reiss, D. Wang, D. Ghosh, C. Gaposchkin, and E. Kleff 711
H. A. Young and J. R. Ortaldo 724

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

R. A. Eisenberg, S. Y. Craven, and P. L. Cohen 728
K. M. Weston, E. T. H. Yeh, M.-S. Sy 734
A. M. Stanisz, R. Scicchitano, P. Darin, J. Bienenstock, and D. G. Payan 749

Antibodies to the L3T4 and Lyt-2 Molecules Interfere with Antigen Receptor-Driven Activation of Cloned Murine T Cells
The T4 Molecule Differentially Regulating the Activation of Subpopulations of T4+ Cells
Receptor-Like Role of HLA-Class I Antigens: Regulation of T Cell Activation
Cross-linking of T3 (CD3) with T4 (CD4) Enhances the Proliferation of Resting Lymphocytes
Acquisition of Non-MHC Restricted Cytotoxic Function by IL 2 Activated Thymocytes with an “Immature” Antigenic Phenotype
Sequential Effects of Prostaglandins and Interferon-γ on Differentiation of CD8+ Suppressor Cells
Cell-Associated IgM, But Not IgD or I-A/E, Is Important in the Activation of Suppressor T Cells by Antigen-Primed B Cells
A Stathmokinetic Study of B Lymphocytopoiesis in Rat Bone Marrow: Proliferation of Cells Containing Cytoplasmic μ-Chains, Terminal Desoxynucleotidyl Transferase and Carrying HIS24 Antigen
Recognition of EBV Plasma Membrane Protein Expressed on Murine Cells after Gene Transfer
Differential Presentation of HLA-DR, DP, and DP Restriction Elements by Interferon-γ-Treated Dermal Fibroblasts
One-Signal Requirement for Interferon-γ Production by Human Large Granular Lymphocytes

Isotype Progression and Clonality of Anti-Sm Autoantibodies in MRL/Mp-lpr/lpr Mice
Autoimmunoreactivity Accelerates the Development of Autoimmunity and Lymphoproliferation in MRL/Mp-lpr/lpr Mice
Specificity of Monoclonal Anti-Z-DNA Antibodies from Unimmunized MRL/Mp-lpr/lpr Mice
Distribution of Substance P Receptors on Murine Spleen and Peyer’s Patch T and B Cells
Corticosteroid Therapy Suppresses Spontaneous Interleukin 2 Release and Spontaneous Proliferation of Lung T Lymphocytes of Patients with Active Pulmonary Sarcoidosis

Continued on page 4
Continued from page 3

**CYTOKINES • MEDIATORS • REGULATORY MOLECULES**

- K. Morikawa, H. Kubagawa, T. Suzuki, and M. D. Cooper
  - Recombinant Interferon-α, -β, and -γ Enhance the Proliferative Response of Human B Cells
  - Inhibition of B Lymphocyte Activation by Interferon-γ

  - Detection of Receptors for Murine B Cell Stimulatory Factor 1 (BSF1): Role of Macrophage-Derived Hybridoma Growth Factor in the in Vitro and in Vivo Proliferation of Newly Formed B Cell Hybridomas

- K. Nakajima, T. Hirano, K. Koyama, and T. Kishimoto
  - Neutrophil Chemotactic Factor Produced by Lipopolysaccharide (LPS)-Stimulated Human Blood Mononuclear Leukocytes: Partial Characterization and Separation from Interleukin 1 (IL 1)

- R. Bazin and R. Lemieux
  - C3a(C3adesArg) Induces Production and Release of Interleukin 1 by Cultured Human Monocytes

  - In Vivo Immunostimulating Activity of the 163–171 Peptide of Human IL-1β

- K. Nakajima, T. Hirano, K. Koyama, and T. Kishimoto
  - Interferon-α, -β, and -γ Augment the Levels of rRNA Precursors in Peritoneal Macrophages But Not in Macrophage Cell Lines and Fibroblasts

- N. Haeflner-Cavaillon, J.-M. Cavaillon, M. Laude, M. D. Kazatchkine
  - Purification and NH2-Terminal Sequence of a Plasmacytoma Growth Factor Derived from the Murine Macrophage Cell Line P388D1

**IMMUNOCHEMISTRY**

- J. L. Pasquali, A. M. Knapp, A. Farradji, and A. Weryha
  - Mapping of Four Light Chain-Associated Idiotopes of a Human Monoclonal Rheumatoid Factor

- A. Solomon and D. T. Weiss
  - Structural Analysis of an HLA-B27 Population Variant, B27f: Multiple Patterns of Amino Acid Changes within a Single Polypeptide Segment Generate Polymorphism in HLA-B27

- J. A. Hansen, and J. A. López de Castro
  - Fine Specificity of HLA-B27 Cellular Allorecognition: HLA-B27f Is a Functional Variant Distinguishable by Cytolytic T Cell Clones

- S. Rojo, P. Aparicio, S. Y. Choo, J. A. López de Castro
  - Structural Analysis of an HLA-B27 Population Variant, B27f: Multiple Patterns of Amino Acid Changes within a Single Polypeptide Segment Generate Polymorphism in HLA-B27

  - Fine Specificity of HLA-B27 Cellular Allorecognition: HLA-B27f Is a Functional Variant Distinguishable by Cytolytic T Cell Clones

- L. J. Miller and T. A. Springer
  - Structural Analysis of an HLA-B27 Population Variant, B27f: Multiple Patterns of Amino Acid Changes within a Single Polypeptide Segment Generate Polymorphism in HLA-B27

- J. A. Hansen, and J. A. López de Castro
  - Fine Specificity of HLA-B27 Cellular Allorecognition: HLA-B27f Is a Functional Variant Distinguishable by Cytolytic T Cell Clones

- T. Nakajima, M. Sarfati, and G. Delespesse
  - Biosynthesis and Glycosylation of p150,95 and Related Leukocyte Adhesion Proteins

- R. J. Robb and R. M. Kutny
  - Structure-Function Relationships for the IL 2-Receptor System. IV. Analysis of the Sequence and Ligand-Binding Properties of Soluble Tac Protein

**IMMUNOPHARMACOLOGY**

  - Co-Sedimentation of Chondroitin Sulfate A Glycosaminoglycans and Proteoglycans with the Cytolytic Secretory Granules of Rat Large Granular Lymphocyte (LGL) Tumor Cells, and Identification of a mRNA in Normal and Transformed LGL that Encodes Proteoglycans

- K. Hellstrand and S. Hermodsson
  - Role of Serotonin in the Regulation of Human Natural Killer Cell Cytotoxicity

  - Inhibition of Human Natural Killer (NK) Activity by Calcium Channel Modulators and a Calmodulin Antagonist

- J. M. Chiang, A. Jin, and A. H. Kang
  - The Control of Mediator Release from RBL-2H3 Cells: Role for Ca2+, Na+, and Protein Kinase C

- T. M. Chang, A. Jin, and A. H. Kang
  - Platelet-Collagen Interaction: Inhibition by a Monoclonal Antibody Raised against Collagen Receptor

Continued on page 5
Continued from page 4

D. B. Chandler and J. D. Fulmer
H. Kriegbaum, B. Benninghoff, B. Hacker-Shahin, and W. Droge
B. M. Susskind and J. Chandrasekaran

893 Prostaglandin Synthesis and Release by Subpopulations of Rat Alveolar Macrophages
899 Correlation of Immunogenicity and Production of Ornithine by Peritoneal Macrophages
905 Inhibition of Cytolytic T Lymphocyte Maturation with Ornithine, Arginine, and Putrescine

MICROBIAL IMMUNOLOGY

E. K. Godney and C. J. Gauntt
S. M. Phillips, G. P. Linette, B. L. Doughty, J. E. Byram, and F. von Lichtenberg
B. C. Cole, J. W. Tuller, and G. J. Sullivan

913 Murine Natural Killer Cells Limit Coxsackievirus B3 Replication
919 In Vivo T Cell Depletion Regulates Resistance and Morbidity in Murine Schistosomiasis
927 Stimulation of Mouse Lymphocytes by a Mitogen Derived from Mycoplasma arthritidis. VI. Detection of a Non-MHC Gene(s) in the Ea-Bearing RIII Mouse Strain that Is Associated with a Specific Lack of T Cell Responses to the M. arthritidis Soluble Mitogen

MOLECULAR BIOLOGY • MOLECULAR GENETICS

N. Holmes, P. Ennis, A. M. Wau, D. W. Denney, and P. Parham
A. Maffei, L. Scarpellino, M. Bernard, G. Carra, M. Jotter-and-Bellomo, J. Guardiola, and R. S. Accolla
M. A. Collart, D. Belin, J.-D. Vassali, and P. Vassalli
W. H. Fletcher, W. W. Shiu, T. A. Ishida, D. L. Haviland, and C. F. Ware
L. K. Harris and J. C. Cambier

936 Multiple Genetic Mechanisms Have Contributed to the Generation of the HLA-A2/A28 Family of Class I MHC Molecules
942 Distinct Mechanisms Regulate MHC Class II Gene Expression in B Cells and Macrophages
949 Modulations of Functional Activity in Differentiated Macrophages Are Accompanied by Early and Transient Increase or Decrease in c-fos Gene Transcription
956 Resistance to the Cytolytic Action of Lymphotoxin and Tumor Necrosis Factor Coincides with the Presence of Gap Junctions Uniting Target Cells
963 B Lymphocyte Activation: Transmembrane Signal Transduction by Membrane Immunoglobulin in Isolated Cell Membranes

TUMOR IMMUNOLOGY

N. Berenstein and R. Levy
Y. Kaufmann, M. Levanon, J. Davidsohn, and B. Ramot

971 Treatment of a Murine B Cell Lymphoma with Monoclonal Antibodies and IL 2
977 Interleukin 2 Induces Human Acute Lymphocytic Leukemia Cells to Manifest Lymphokine-Activated-Killer (LAK) Cytotoxicity

Author Index

983