Contents

CELLULAR IMMUNOLOGY

A. K. Szakal, M. H. Kosco, and J. G. Tew 341 A Novel In Vivo Follicular Dendritic Cell-Dependent Iccosome-Mediated Mechanism for Delivery of Antigen to Antigen-Processing Cells

M. H. Kosco, A. K. Szakal, and J. G. Tew 354 In Vivo Obtained Antigen Presented by Germinal Center B Cells to T Cells In Vitro

H. Martinez-Valdez, P. J. Doherty, E. Thompson, S. H. Benedict, E. W. Gelfand, and A. Cohen 361 Antagonistic Effects of Calcium Ionophores and Phorbol Esters on T Cell Receptor mRNA Levels in Human Thymocytes

M. Krusemeier and E. C. Snow 367 Induction of Lymphokine Responsiveness of Hapten-Specific B Lymphocytes Promoted through an Antigen-Mediated T Helper Lymphocyte Interaction


G. Matsuzaki, Y. Yoshikai, K. Kishihara, and K. Nomoto 384 Expression of T Cell Antigen Receptor Genes in the Thymus of Irradiated Mice after Bone Marrow Transplantation

J. Krieger, D. M. Denis, R. W. Chesnutt, and H. M. Grey 388 Studies on the Capacity of Intact Cells and Purified la from Different B Cell Sources to Function in Antigen Presentation to T Cells

N. Suciu-Foca, J. Cai, C. Gutierrez, E. Reed, S. Morrison, B. Pernis, and D. W. King 395 New Differentiation Antigens Associated with the Growth and Maturation of B Lymphocytes

L. A. Casten and S. K. Pierce 404 Receptor-Mediated B Cell Antigen Processing: Increased Antigenicity of a Globular Protein Covalently Coupled to Antibodies Specific for B Cell Surface Structures


Y. Asano, T. Nakayama, M. Kubo, I. Fujisawa, H. Karasuyama, A. Singer, R. J. Hodes, and T. Tada 419 Analysis of Two Distinct B Cell Activation Pathways Mediated by a Monoclonal T Helper Cell. II. T Helper Cell Secretion of Interleukin 4 Selectively Inhibits Antigen-Specific B Cell Activation by Cognate, but Not Noncognate, Interactions with T Cells


CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

G. Trenn, G. R. Pettit, H. Takayama, J. Hu-Li, and M. V. Svitkovsky 433 Immunomodulating Properties of a Novel Series of Protein Kinase C Activators: The Bryostatins

P. J. Higgins and H. L. Weiner 440 Suppression of Experimental Autoimmune Encephalomyelitis by Oral Administration of Myelin Basic Protein and Its Fragments

T. Logtenberg, P. M. B. Melsen, A. Kroon, F. H. J. Gmelig-Meyling, and R. E. Bal- lieux 446 Autoantibody Production upon Lymphocyte Stimulation with Autoantigen-Xenoantigen Conjugates

D. G. Karounos, J. P. Grudier, and D. S. Pisetsky 451 Spontaneous Expression of Antibodies to DNA of Various Species Origin in Sera of Normal Subjects and Patients with Systemic Lupus Erythematosus

Continued on page 4
Expression of High Affinity Receptors for Murine Interleukin 4 (BSF-1) on Hemopoietic and Nonhemopoietic Cells

Differential Effects of Interleukin 2 vs B Cell Growth Factor on Human B Cells

Interleukin 2 Functions through Novel Interleukin 2 Binding Molecules in T Cells

Up-Regulation of Interleukin 4 Receptor Expression on Immature (Lyt-2−/L3T4−) Thymocytes

Synergistic Inhibition of Human Marrow Granulocyte-Macrophage Progenitor Cells by Prostaglandin E and Recombinant Interferon-α, -β, and -γ and an Effect Mediated by Tumor Necrosis Factor

Overlapping Polypeptide Induction in Human Fibroblasts in Response to Treatment with Interferon-α, Interferon-γ, Interleukin-α, Interleukin 1β, and Tumor Necrosis Factor

Endotoxin-Induced Interferon-γ Production in Culture Cells Derived from BCG-Infected C3H/HeJ Mice

Effect of Granulocyte-Macrophage Colony-Stimulating Factor on Monocytes

B Cell Stimulatory Factor-2 Is Involved in the Differentiation of Cytotoxic T Lymphocytes

Inhibition of Macrophage Tumoricidal Activity by Glucocorticoids

Autoimmune MRL/1pr Mice Sera Contain IgG with Interleukin 3-Like Activity

Monoclonal Autoantibodies with Interleukin 3-Like ActivityDerived from a Mouse

Enhancement of Antigen- and Mitogen-Induced Human T Lymphocyte Proliferation by Tumor Necrosis Factor-α

Identification of the DRw10 DRβ1-Chain Allele as Encoding a Polymorphic Class II Major Histocompatibility Complex Epitope Otherwise Restricted to DRβ1 Molecules of the DRw53 Type

The Structure of the Murine Fc Receptor for IgG: Assignment of Intrachain Disulfide Bonds, Identification of N-Linked Glycosylation Sites, and Evidence for a Fourth Form of Fc Receptor

A Double Monoclonal IgG1x and IgG2x in a Single Myeloma Patient: Variation in Clonal Products and Therapeutic Responses

lgA:lgM and lgA:lgA Hybrid Hybridomas Secrete Heteropolymeric Immunoglobulins That Are Polyvalent and Bispecific

Inhibition of Cytotoxic T Lymphocyte and Natural Killer Cell-Mediated Lysis by O,S,S-Trimethyl Phosphorodithioate Is at an Early Postrecognition Step

Regulation of Human Basophil and Lung Mast Cell Function by Cyclic Adenosine Monophosphate

The Requirement for High Intracellular Cyclic Adenosine Monophosphate Concentrations Distinguishes Two Pathways of B Cell Activation Induced with Lymphokines and Antibody to Immunoglobulin

Motility of Murine Lymphocytes during Transit through Cell Cycle: Analysis by a New In Vitro Assay

Continued on page 5
MICROBIAL IMMUNOLOGY

S. K. Chapes, D. Duffin, and A. G. Paulsen

Characterization of Macrophage Recognition and Killing of SV40-Transformed Tumor Cells That Are “Resistant” or “Susceptible” to Contact-Mediated Killing

R. J. Booth, D. P. Harris, J. M. Love, and J. D. Watson

Antigenic Proteins of Mycobacterium leprae: Complete Sequence of the Gene for the 18-kDa Protein

K. Ljunggren, F. Chiiodi, G. Biberfeld, E. Norrby, M. Jondal, and E.-M. Fenyo

Lack of Cross-Reaction in Antibody-Dependent Cellular Cytotoxicity between Human Immunodeficiency Virus (HIV) and HIV-Related West African Strains

Y. Hosaka, F. Sasao, K. Yamanaka, J. R. Bennink, and J. W. Yewdell

Recognition of Noninfectious Influenza Virus by Class I-Restricted Murine Cytotoxic T Lymphocytes


Epitopes of an Influenza Viral Peptide Recognized by Antibody at Single Amino Acid Resolution

R. Cavallesco and M. E. A. Pereira

Antibody to Trypanosoma cruzi Neuraminidase Enhances Infection In Vitro and Identifies a Subpopulation of Trypomastigotes


Assessment in Humans of a Synthetic Peptide-Based Vaccine against the Sporozoite Stage of the Human Malaria Parasite, Plasmodium falciparum


Inhibition of Macrophage Priming by Sulfatide from Mycobacterium tuberculosis

MOLECULAR BIOLOGY • MOLECULAR GENETICS

C. T. Lutz and J. M. Davie

Genetics and Primary Structure of V, Gene Segments Encoding Antibody to Streptococcal Group A Carbohydrate: Comparison of V, Gene Structure with Idiotope Expression

M. M. Goldrick and P. D. Gottlieb

Analysis of the Effect of a Strain-Specific Alteration in the Upstream Octamer Region on Transcription of a Mouse V, Ser Light Chain Gene

S. Sakamoto, J. R. Ortaldo, and H. A. Young

Methylation Patterns of the T Cell Receptor β-Chain Gene in T Cells, Large Granular Lymphocytes, B Cells, and Monocytes

TUMOR IMMUNOLOGY

H. B. Solvason, V. K. Ghanta, and R. N. Hiramoto

Conditioned Augmentation of Natural Killer Cell Activity: Independence from Nocteceptive Effects and Dependence on Interferon-β

L. W. Hostetler and M. L. Kripke

Proportion of Antigenic Variants Induced by In Vitro UV Irradiation Differs in Clones Derived from a Single Tumor

H.-G. Ljunggren, C. Öhle, P. Högland, T. Yamasaki, G. Klein, and K. Kärre

Afferent and Efferent Cellular Interactions in Natural Resistance Directed against MHC Class I Deficient Tumor Grafts

J. L. Lasky, N. M. Ponzio, and G. J. Thorbecke

Characterization and Growth Factor Requirements of SJL Lymphomas. I. Development of a B Cell Growth Factor-Dependent In Vitro Cell Line, cRCS-X

Author Index

688