

Contents

PRESIDENTIAL ADDRESS

- | | | |
|------------|---|---|
| W. E. Paul | 1 | Between Two Centuries: Specificity and Regulation in Immunology |
|------------|---|---|
-

COMMUNICATION

- | | | |
|---|---|--|
| M. W. Vermeulen, J. R. David,
and H. G. Remold | 7 | Differential mRNA in Human Macrophages Activated by Interferon- γ and Muramyl Dipeptide |
|---|---|--|
-

CELLULAR IMMUNOLOGY

- | | | |
|--|----|---|
| C. M. Snapper and W. E. Paul | 10 | B Cell Stimulatory Factor-1 (Interleukin 4) Prepares Resting Murine B Cells to Secrete IgG1 upon Subsequent Stimulation with Bacterial Lipopolysaccharide |
| A. Bernard, H. C. Tran, and L. Boumsell | 18 | Three Different Erythrocyte Surface Molecules Are Required for Spontaneous T Cell Rosette Formation |
| M. R. MacKenzie, T. G. Paglieroni, and N. L. Warner | 24 | Multiple Myeloma: An Immunologic Profile. IV. The EA Rosette-Forming Cell Is a Leu-1 Positive Immunoregulatory B Cell |
| S. Sone, T. Utsugi, A. Nii, and T. Ogura | 29 | Effects of Human Alveolar Macrophages on the Induction of Lymphokine (IL 2)-Activated Killer Cells |
| O. Shapira-Nahor, E. Eynat, and S. Z. Ben-Sasson | 35 | Isotype Specificity of Antigen-Specific Helper Clone in Vivo |
| T.-P. Lee, J. Venuti, I. Macara, R. Kawauchi, P. J. Davis, and B. K. Mookerjee | 42 | Characteristics of Calmodulin Binding to Purified Human Lymphocyte Plasma Membranes |
| M. E. Kanof, W. Strober, and S. P. James | 49 | Induction of CD4 Suppressor T Cells with Anti-Leu-8 Antibody |
-

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- | | | |
|--|----|--|
| J. D. Katz, R. Mitsuyasu, M. S. Gottlieb, L. T. Lebow, and B. Bonavida | 55 | Mechanism of Defective NK Cell Activity in Patients with Acquired Immunodeficiency Syndrome (AIDS) and AIDS-Related Complex. II. Normal Antibody-Dependent Cellular Cytotoxicity (ADCC) Mediated by Effector Cells Defective in Natural Killer (NK) Cytotoxicity |
| N. S. Magnuson, L. E. Perryman, C. R. Wyatt, P. H. Mason, and J. E. Talmadge | 61 | Large Granular Lymphocytes from SCID Horses Develop Potent Cytotoxic Activity after Treatment with Human Recombinant Interleukin 2 |
| D. A. Hafler, D. S. Benjamin, J. Burks, and H. L. Weiner | 68 | Myelin Basic Protein and Proteolipid Protein Reactivity of Brain- and Cerebrospinal Fluid-Derived T Cell Clones in Multiple Sclerosis and Postinfectious Encephalomyelitis |
| C. M. Gomez and D. P. Richman | 73 | Chronic Experimental Autoimmune Myasthenia Gravis Induced by Monoclonal Antibody to Acetylcholine Receptor: Biochemical and Electrophysiologic Criteria |
| K. M. Das, S. Sakamaki, M. Vecchi, and B. Diamond | 77 | The Production and Characterization of Monoclonal Antibodies to a Human Colonic Antigen Associated with Ulcerative Colitis: Cellular Localization of the Antigen by Using the Monoclonal Antibody |

Continued on page 4

Continued from page 3

D. J. Chavez, J. A. McIntyre, J. A. Colliver, and W. P. Faulk	85	Allogeneic Matings and Immunization Have Different Effects on Nulliparous and Multiparous Mice
E. S. Cathcart, R. F. Mortensen, C. A. Leslie, J. M. Conte, and W. A. Gonnerman	89	A Fish Oil Diet Inhibits Amyloid P Component (AP) Acute Phase Responses in Arthritis Susceptible Mice

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

T. A. Bird and J. Saklatvala	92	Studies on the Fate of Receptor-Bound ¹²⁵ -Interleukin 1 β in Porcine Synovial Fibroblasts
P. J. Conlon, K. H. Grabstein, A. Alpert, K. S. Prickett, T. P. Hopp, and S. Gillis	98	Localization of Human Mononuclear Cell Interleukin 1
R. A. Daynes, B. A. Robertson, B.-H. Cho, D. K. Burnham, and R. Newton	103	α -Melanocyte-Stimulating Hormone Exhibits Target Cell Selectivity in Its Capacity to Affect Interleukin 1-Inducible Responses in Vivo and in Vitro
M. Kennedy, P. Wassmer, and P. Erb	110	A Novel Role for Interleukin 2 in Antibody Responses: Down-Regulation of T Helper Cell Activation
G. J. Nau, R. L. Moldwin, D. W. Lancki, D.-K. Kim, and F. W. Fitch	114	Inhibition of IL 2-Driven Proliferation of Murine T Lymphocyte Clones by Supraoptimal Levels of Immobilized Anti-T Cell Receptor Monoclonal Antibody
J. D. Watson, M. Eszes, R. Overell, P. Conlon, M. Widmer, and S. Gillis	123	Effect of Infection with Murine Recombinant Retroviruses Containing the v-src Oncogene on Interleukin 2- and Interleukin 3-Dependent Growth States
G. H. Reem, S. Carding, and E. L. Reinherz	130	Lymphokine Synthesis Is Induced in Human Thymocytes by Activation of the CD 2 (T11) Pathway
R. M. Crawford, D. S. Finbloom, J. Ohara, W. E. Paul, and M. S. Meltzer	135	B Cell Stimulatory Factor-1 (Interleukin 4) Activates Macrophages for Increased Tumoricidal Activity and Expression of Ia Antigens
M. G. Goodman	142	Interaction between Cytokines and 8-Mercaptoguanosine in Humoral Immunity: Synergy with Interferon
A. Celada and R. D. Schreiber	147	Internalization and Degradation of Receptor-Bound Interferon- γ by Murine Macrophages: Demonstration of Receptor Recycling

IMMUNOPHARMACOLOGY

E. Ninio, F. Joly, C. Hiebolt, G. Bessou, J. M. Mencia-Huerta, and J. Benveniste	154	Biosynthesis of PAF-Acether. IX. Role for a Phosphorylation-Dependent Activation of Acetyltransferase in Antigen-Stimulated Mouse Mast Cells
J. A. Warner, K. B. Yancey, and D. W. MacGlashan, Jr.	161	The Effect of Pertussis Toxin on Mediator Release from Human Basophils
V. J. Merluzzi, R. B. Faanes, M. Czajkowski, K. Last-Barney, P. C. Harrison, J. Kahn, and R. Rothlein	166	Membrane-Associated Interleukin 1 Activity on Human U937 Tumor Cells: Stimulation of PGE ₂ Production by Human Chondrosarcoma Cells
M. D. P. Boyle, V. A. Chiodo, M. J. P. Lawman, A. P. Gee, and M. Young	169	Urokinase: A Chemotactic Factor for Polymorphonuclear Leukocytes in Vivo

IMMUNOCHEMISTRY

R. P. Braun and J. S. Lee	175	Equilibrium Binding Parameters of an Autoimmune Monoclonal Antibody Specific for Double-Stranded DNA
J. C. Edberg, G. A. Kujala, and R. P. Taylor	180	Clearance Kinetics and Immunochemistry in Rabbits of Soluble Antibody/DNA Immune Complexes: Effects of Antibody Class and DNA Conformation
S. K. Sanders, H. Kubagawa, T. Suzuki, J. L. Butler, and M. D. Cooper	188	IgM Binding Protein Expressed by Activated B Cells
T. Kaidoh and I. Gigli	194	Phylogeny of C4b-C3b Cleaving Activity: Similar Fragmentation Patterns of Human C4b and C3b Produced by Lower Animals

Continued on page 5

MICROBIAL IMMUNOLOGY

M. Kotb, J. B. Dale, and E. H. Beachey	202	Stimulation of S-Adenosylmethionine Synthetase in Human Lymphocytes by Streptococcal M Protein
R. M. Maizels, M. W. Kennedy, M. Meghji, B. D. Robertson, and H. V. Smith	207	Shared Carbohydrate Epitopes on Distinct Surface and Secreted Antigens of the Parasitic Nematode <i>Toxocara canis</i>
P. J. Brindley and A. Sher	215	The Chemotherapeutic Effect of Praziquantel against <i>Schistosoma mansoni</i> Is Dependent on Host Antibody Response
P. Scott, E. Pearce, P. Natovitz, and A. Sher	221	Vaccination against Cutaneous Leishmaniasis in a Murine Model. I. Induction of Protective Immunity with a Soluble Extract of Promastigotes

MOLECULAR BIOLOGY • MOLECULAR GENETICS

J. Schifffenbauer, D. K. Didier, M. Kleerman, K. Rice, S. Shuman, V. L. Tieber, D. J. Kittlesen, and B. D. Schwartz	228	Complete Sequence of the HLA DQ α and DQ β cDNA from a DR5/DQw3 Cell Line
T. Manser	234	Mitogen-Driven B Cell Proliferation and Differentiation Are Not Accompanied by Hypermutation of Immunoglobulin Variable Region Genes
T. J. Koerner, T. A. Hamilton, and D. O. Adams	239	Suppressed Expression of Surface Ia on Macrophages by Lipopolysaccharide: Evidence for Regulation at the Level of Accumulation of mRNA
D. Fertsch, D. R. Schoenberg, R. N. Germain, J. Y. L. Tou, and S. N. Vogel	244	Induction of Macrophage Ia Antigen Expression by rIFN- γ and Down-Regulation by IFN- α/β and Dexamethasone Are Mediated by Changes in Steady-State Levels of Ia mRNA
J. Schmid and C. Weissmann	250	Induction of mRNA for a Serine Protease and a β -Thromboglobulin-Like Protein in Mitogen-Stimulated Human Leukocytes

TUMOR IMMUNOLOGY

M. Abe and D. W. Kufe	257	Identification of a Family of High Molecular Weight Tumor-Associated Glycoproteins
L. D. Powell, S. W. Whiteheart, and G. W. Hart	262	Cell Surface Sialic Acid Influences Tumor Cell Recognition in the Mixed Lymphocyte Reaction
S. Raychaudhuri, Y. Saeki, J.-J. Chen, H. Iribe, H. Fuji, and H. Kohler	271	Tumor-Specific Idiotypic Vaccines. II. Analysis of the Tumor-Related Network Response Induced by the Tumor and by Internal Image Antigens (Ab2 β)
E. Lotzová and C. A. Savary	279	Generation of NK Cell Activity from Human Bone Marrow
J. J. Mulé, J. C. Yang, R. Lafreniere, S. Shu, and S. A. Rosenberg	285	Identification of Cellular Mechanisms Operational in Vivo during the Regression of Established Pulmonary Metastases by the Systemic Administration of High-Dose Recombinant Interleukin 2
S. Shu, T. Chou, and S. A. Rosenberg	295	Generation from Tumor-Bearing Mice of Lymphocytes with in Vivo Therapeutic Efficacy
D. Guerry IV, M. A. Alexander, D. E. Elder, and M. F. Herlyn	305	Interferon- γ Regulates the T Cell Response to Precursor Nevi and Biologically Early Melanoma
C. D. Gregory, T. Tursz, C. F. Edwards, C. Tetaud, M. Talbot, B. Caillou, A. B. Rickinson, and M. Lipinski	313	Identification of a Subset of Normal B Cells with a Burkitt's Lymphoma (BL)-Like Phenotype
Author Index	319	