Contents

M. M. Mayer 1195 Presidential Address

CELLULAR IMMUNOLOGY

E. E. Emeson 1204 Migratory Behavior of Lymphocytes with Specific Reactivity to Alloantigens. I. Selective Recruitment to Spleen, Bone Marrow, and Liver after an Intravenous Challenge

Y. Weinstein 1223 20α-Hydroxysteroid Dehydrogenase: A T Lymphocyte-Associated Enzyme

W. H. Fridman, A. Guimezanes, and R. H. Gisler 1266 Characterization of Suppressive Immunoglobulin-Binding Factor (IBF). I. Production of IBF by a θ-Positive Lymphoma (L-5178-Y)

C. Neauport-Sautea and W. H. Fridman 1269 Characterization of Suppressive Immunoglobulin-Binding Factor (IBF). II. Purification and Molecular Weight Determination of IBF Produced by L-5178-Y θ-Positive Lymphoma

E. L. Morgan and C. H. Tempelis 1293 The Role of Antigen-Antibody Complexes in Mediating Immunologic Unresponsiveness in the Chicken

T. Ternynck, M. Rodrigot, and S. Avrameas 1321 Kinetics of Antibody and Immunoglobulin-Producing Cells Appearing in Popliteal Lymph Nodes of Mice Stimulated with Horseradish Peroxidase

A. Muckerheide, A. J. Pesce, and J. G. Michael 1340 Immunosuppressive Properties of a Peptic Fragment of BSA

H. Wagner, A. Starzinski-Powitz, H. Jung, and M. Röllinghoff 1365 Induction of I Region-Restricted Hapten-Specific Cytotoxic T Lymphocytes

R. G. Coffey, E. M. Hadden, and J. W. Hadden 1387 Evidence for Cyclic GMP and Calcium Mediation of Lymphocyte Activation by Mitogens

K. Nomoto, K. Himeno, A. Kuroiwa, and K. Takeya 1395 Preferential Induction of Jones-Mote Hypersensitivity in Guinea Pigs Treated with Tolerogenic Antigen

Z. Eshhar, D. Armerding, T. Waks, and D. H. Katz 1457 Activation of T and B Lymphocytes in Vitro. V. Cellular Locus, Metabolism and Genetics of Induction, and Production of the Allogeneic Effect Factor

D. Armerding, Z. Eshhar, and D. H. Katz 1468 Activation of T and B Lymphocytes in Vitro. VI. Biochemical and Physicochemical Characterization of the Allogeneic Effect Factor

S. J. Betz and D. C. Morrison 1475 Chemical and Biologic Properties of a Protein-Rich Fraction of Bacterial Lipopolysaccharides. I. The in Vitro Murine Lymphocyte Response


S. Z. Ben-Sasson, M. F. Lipscomb, T. F. Tucker, and J. W. Uhr 1493 Specific Binding of T Lymphocytes to Macrophages. II. Role of Macrophage-Associated Antigen

B. Bonavida 1530 Antigen-Induced Cyclophosphamide-Resistant Suppressor T Cells Inhibit the in Vitro Generation of Cytotoxic Cells from One-Way Mixed Leukocyte Reactions

CLINICAL IMMUNOLOGY

A. R. Hayward and A. R. Lawton 1213 Induction of Plasma Cell Differentiation of Human Fetal Lymphocytes: Evidence for Functional Immaturity of T and B Cells

T. Hirano, T. Kuritani, T. Kishimoto, and Y. Yamamura 1235 In Vitro Immune Response of Human Peripheral Lymphocytes. I. The Mechanism(s) Involved in T Cell Helper Functions in the Pokeweed Mitogen-Induced Differentiation and Proliferation of B Cells

J. Shen, F. Wilson, M. Shifrine, and M. E. Gershwin 1299 Select Growth of Human T Lymphocytes in a Single Phase Semisolid Culture

J. R. Ortaido, G. D. Bonnard, and R. B. Herberman 1351 Cytotoxic Reactivity of Human Lymphocytes Cultured in Vitro

D. L. Nelson, B. M. Bundy, and W. Strober 1401 Spontaneous Cell-Mediated Cytotoxicity by Human Peripheral Blood Lymphocytes in Vitro

R. A. Clark and S. J. Klebanoff 1413 Studies on the Mechanism of Antibody-Dependent Polymorphonuclear Leukocyte-Mediated Cytotoxicity
L. K. Richman and W. R. Brown
T. Hoffman, C. Y. Wang, R. J. Winchester, M. Ferrarini, and H. G. Kunkel
M. Ferrarini, T. Hoffman, S. M. Fu, R. Winchester, and H. G. Kunkel

L. K. Richman and W. R. Brown
T. Hoffman, C. Y. Wang, R. J. Winchester, M. Ferrarini, and H. G. Kunkel
M. Ferrarini, T. Hoffman, S. M. Fu, R. Winchester, and H. G. Kunkel

1507 Cytoxic Activity of Human Lymphocytes: Quantitative Analysis of T Cell and K Cell Cytotoxicity, Revealing Enzyme-Like Kinetics
1515 Immunochemical Characterization of IgM in Human Intestinal Fluids
1520 Human Lymphocytes Bearing "la-like" Antigens; Absence in Patients with Infantile Agammaglobulinemia
1525 Receptors for IgM on Certain Human B Lymphocytes

IMMUNOCHEMISTRY

D. T. Fears
G. M. Bernier, C. A. Johnson, and M. W. Fanger
P. Weiss-Carrington, M. E. Roux, and M. E. Lamm
M. A. Arnaout, A. E. Davis, III, F. S. Rosen, and C. A. Alper
K.-I. Yamamoto, T. F. Lint, and H. Gewurz
A. L. Sandberg, L. G. Reisz, J. M. Goodson, H. A. Simmons, and S. E. Mergenhagen
D. Hansburg, D. E. Briles, and J. M. Davie
M. J. F. Benfari, S. R. Cooperband, and F. L. Moolten
M. J. F. Benfari, S. R. Cooperband, and F. L. Moolten
K. Yamamoto

1230 Physicochemical Characterization of a Vascular Permeability Factor Produced by Con A-Stimulated Human Lymphocytes
1248 Purification of C3b Inactivator and Demonstration of Its Two Polypeptide Chain Structure
1260 Structural and Biosynthetic Studies of a Human IgA Half Molecule
1306 Plasma Cells and Epithelial Immunoglobulins in the Mouse Mammary Gland during Pregnancy and Lactation
1316 Complement Activation in Semisolid Media: Insolubilization of Alternative Pathway Convertases in Agar Gels with C3 Nephritic Factor-Containing Sera
1346 Enhancement of C56-Initiated Lysis by Cell-Bound C3 Fragments: Evidence for a Mechanism Independent of the Prior Binding of C5b to C3b
1358 On the Mechanism of Membrane Damage by C: Exposure of Hydrophobic Sites on Activated C Proteins
1378 Initiation of Bone Resorption by the Classical and Alternative C Pathways and Its Mediation by Prostaglandins
1406 Analysis of the Diversity of Murine Antibodies to Dextran B1355. II. Demonstration of Multiple Idiotypes with Variable Expression in Several Strains
1427 Characterization of Antigen-Binding Receptors in Vitro. I. An Equilibrium Method for Measuring Antigen Binding in Murine Cells
1432 Characterization of Antigen-Binding Receptors in Vitro. II. Antigen-Binding Capacity and Affinity of Lymphoid Receptors after Immunization
1482 Lytic Activity of C5-9 Complexes for Erythrocytes from the Species Other than Sheep: C9 Rather than C6-Dependent Variation in Lytic Activity

IMMUNOGENETICS AND TRANSPLANTATION

E. K. Wakeland, J. M. Foppoli, and A. A. Benedict
C. Grillot-Courvalin, B. J. Alter, and F. H. Bach
Y. P. Yung and G. Cudkowicz
A. Gilman-Sachs, D. P. Eskinazi, and S. Dray
H. C. Passos, M. Siqueira, M. H. Reis, V. C. A. Ferreira, O. M. Ibanez, O. A. Sant'anna, and G. Biozzi
P. W. Wright, S. M. Loop, and I. D. Bernstein

1218 Structural and Genetic Studies on Chicken 7S Immunoglobulin Allotypes. III. Proposed Nomenclature for the CS-I Gene Alleles
1253 Antigenic Requirements for the Generation of Secondary Cytotoxicity
1310 Abrogation of Resistance to Foreign Bone Marrow Grafts by Carrageenans. II. Studies with the Anti-macrophage Agents α, β, and λ-Carrageenans
1369 Allotype Suppression at the CHn Locus of IgM in Heterozygous Rabbits with Concomitant Suppression at the VHcl Locus of All Ig Classes
1439 Genetic Control of Immune Response to Protein Antigens. I. Two-Way Selective Breeding of Mice for Quantitative Antibody Responsiveness to Bovine Serum Albumin and Rabbit γ-Globulin
1538 In Vitro Reactivity in Allograft Tolerance: Persistence of Mixed Leukocyte Culture Reactivity in Highly Tolerant Rats

IMMUNOPATHOLOGY

J. N. Gilliam and E. R. Hurd

1285 The Differential Effects of 6-MP and Cyclophosphamide on Immunoglobulin Deposition in the Skin and Kidney of NZB/NZW F1 Mice

Continued on page 4
Continued from page 3

J. E. Swierkosz and R. H. Swanborg
P. L. Cohen and M. Ziff

1501 Immunoregulation of Experimental Allergic Encephalomyelitis: Conditions for Induction of Suppressor Cells and Analysis of Mechanism

Abnormal Polyclonal B Cell Activation in NZB/NZW F1 Mice

TUMOR IMMUNOLOGY

G. F. Burns, C. R. Baker, J. C. Cawley, and F. G. J. Hayhoe
R. C. Burton, S. E. Chism, and N. L. Warner
M. J. Brunda and P. Minden
G. A. Miller and J. D. Feldman

1279 The Rate of Membrane Turnover by the Hairy Cells of Leukemic Reticuloendotheliosis: A Kinetic Study of a Receptor for IgM
1329 In Vitro Induction of Tumor Specific Immunity. IV. Does Autosensitization Occur with in Vitro Culture of T Lymphocytes?
1374 Antibodies to Bacterial and Tumor-Derived Antigens in Sera from Normal Guinea Pigs
1445 Effect of Macrophages and Antibodies on in Vivo Growth of Moloney Sarcoma in the Rat

VIRAL AND MICROBIAL IMMUNOLOGY

R. M. Zinkernagel, A. Althage, and F. C. Jensen
B. King, C. J. Wust, and A. Brown
M. Piantelli, R. Pozzuoli, E. Arru, and P. Musiani
J. S. Dahl, S. B. Hellewell, and R. P. Levine
J. T. Hicks, J. L. Sullivan, and P. Albrecht
G. Hess, J. W-K. Shih, P. M. Kaplan, and J. L. Gerin

1242 Cell-Mediated Immune Response to Lymphocytic Choriomeningitis and Vaccinia Virus in Rats
1275 Partial Purification of Antigens from Eggs of Schistosoma mansoni that Elicit Delayed Hypersensitivity
1289 Antibody-Dependent, Complement-Mediated Homologous and Cross-Cytolysis of Togavirus-Infected Cells
1382 Echinococcus granulosus: Identification of Subunits of the Major Antigens
1419 A Mycoplasma Mutant Resistant to Lysis by C: Variations in Membrane Composition and Altered Response to the Terminal C Complex
1452 Immune Responses during Measles Infection in Immunosuppressed Rhesus Monkeys
1542 The Demonstration of Subtype (d or y)-Specific Determinants on the Surface of the Presumed Hepatitis B Virus

COMMUNICATIONS

F. Ligler, E. S. Vitetta, and J. W. Uhr

1545 Cell Surface Immunoglobulin. XXII. Reappearance of Surface IgM and IgD on Murine Splenocytes after Removal by Capping

Announcements 1547
Author Index 1548