Contents

PRESIDENTIAL ADDRESS

D. Bernard Amos

The Era of the Immunogeneticist

CELLULAR IMMUNOLOGY

N. A. Speck, P. H. Maurer, and S. K. Pierce

The Functional Helper T Cell Repertoire Specific for L-Glutamic Acid\textsuperscript{10}-L-Alanine\textsuperscript{10}-L-Tyrosine\textsuperscript{10} (GAT)

L. A. Holmberg, T. A. Springer, and K. A. Ault

Natural Killer Activity in the Peritoneal Exudates of Mice Infected with \textit{Listeria monocytogenes}: Characterization of the Natural Killer Cells by Using a Monoclonal Rat Anti-Murine Macrophage Antibody (M1/70)

M. Hirashima, J. Yodoi, and K. Ishizaka

Formation of IgE-Binding Factors by Rat T Lymphocytes. II. Mechanisms of Selective Formation of IgE-Potentiating Factors by Treatment with \textit{Bordetella pertussis} Vaccine

M. Hirashima, J. Yodoi, T. F. Huff, and K. Ishizaka

Formation of IgE-Binding Factors by Rat T Lymphocytes. III. Mechanisms of Selective Formation of IgE-Suppressive Factors by Treatment with Complete Freund’s Adjuvant

T. A. Aune and C. W. Pierce

Identification and Initial Characterization of a Nonspecific Suppressor Factor (Mφ-SF) Produced by Soluble Immune Response Suppressor (SIRS)-Treated Macrophages


Spontaneous Release of a Factor with Properties of T Cell Growth Factor from a Continuous Line of Primate Tumor T Cells

J. Fan and B. Bonavida


B. M. Stadler, S. F. Dougherty, J. J. Farrar, and J. J. Oppenheim

Relationship of Cell Cycle to Recovery of IL 2 Activity from Human Mononuclear Cells, Human and Mouse T Cell Lines

E. Pure, P. C. Isakson, K. Takatsu, T. Hamaoka, S. L. Swain, R. W. Dutton, G. Dennert, J. W. Uhr, and E. S. Vitetta

Accessory Cell Stimulation of T Cell Proliferation Requires Active Antigen Processing, la-Restricted Antigen Presentation, and a Separate Nonspecific 2nd Signal Transfer of Lymphocytes of Peyer’s Patches between Immunoglobulin Allotype Congenic Mice: Repopulation of the IgA Plasma Cells in the Gut Lamina Propria

R. N. Germain

Cutaneous Basophil Responses and Immune Resistance of Guinea Pigs to Ticks: Passive Transfer with Peritoneal Exudate Cells or Serum

J. Tseng

L. M. Thoman and W. O. Weigle

L.-M. Ching, S. Muraoka, and R. G. Miller

M. L. Newhouse

P. L. Cohen, D. A. Litvin, and J. B. Winfield

J. M. Depper, H. G. Bluestein, and J. M. Depper

S. J. Brown and P. W. Askenase


Differentiation of T Cells from Immature Precursors in Murine T Cell Colonies

Cutaneous Basophil Responses and Immune Resistance of Guinea Pigs to Ticks: Passive Transfer with Peritoneal Exudate Cells or Serum

CLINICAL IMMUNOLOGY

R. L. Whisler, D. A. Bobak, and Y. G. Newhouse

Human B Lymphocyte Colony Responses. II. The Role of T Cells in the Enhancement of Colony Growth

P. L. Cohen, D. A. Litvin, and J. B. Winfield

Activated T Cells in Human Peripheral Blood: Quantitation with a Reverse Hemolytic Plaque Assay

J. M. Depper, H. G. Bluestein, and N. J. Zvaifler

Impaired Regulation of Epstein-Barr Virus-Induced Lymphocyte Proliferation in Rheumatoid Arthritis is Due to a T Cell Defect

Published monthly by The Williams & Wilkins Co., 428 E. Preston St., Baltimore, Md. 21202, U.S.A.

Subscription price $125.00 individuals, $145.00 institutions, single issue $12.00

Second class postage paid at Baltimore, Md. 21202 and at additional mailing offices.
**IMMUNOCHEMISTRY**

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Year</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. J. Betz and H. Isiuker</td>
<td>1974</td>
<td>Antibody-Independent Interactions between Escherichia coli J5 and Human Complement Components</td>
</tr>
<tr>
<td>M. Mannik and K. A. David</td>
<td>1999</td>
<td>Covalently Cross-Linked Immune Complexes Prepared with Multivalent Cross-Linking Antigens</td>
</tr>
<tr>
<td>A. Nicholson-Weller, J. Burge, and K. F. Austen</td>
<td>2035</td>
<td>Purification from Guinea Pig Erythrocyte Stroma of a Decay-Accelerating Factor for the Classical C3 Convertase, C4b2a</td>
</tr>
<tr>
<td>C. Mold and H. Gewurz</td>
<td>2089</td>
<td>Inhibitory Effect of C-Reactive Protein on Alternative C Pathway Activation by Liposomes and Streptococcus pneumoniae</td>
</tr>
<tr>
<td>W. Weitzman and J. Portmore</td>
<td>2095</td>
<td>Immunoglobulin Glycopeptides from an IgG2b-Producing Mouse Myeloma Cell Line and from Variant Cell Lines</td>
</tr>
<tr>
<td>J. Tseng</td>
<td>2140</td>
<td>Induction of Indigenous Immunoglobulin-Containing Cells by γ-Irradiation and Lymphoid Cell Transfer in Mice</td>
</tr>
<tr>
<td>T. Colter, K. Blaser, J. Kriedberg, M. Potter, and H. N. Eisen</td>
<td>2150</td>
<td>Mouse Myeloma Proteins with λ2 and λ3 Light Chains</td>
</tr>
</tbody>
</table>

**IMMUNOGENETICS AND TRANSPLANTATION**

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Year</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. E. Gress, M. N. Wesley, and R. J. Hodes</td>
<td>1763</td>
<td>The Role of H-2 in T Cell Recognition of Mls</td>
</tr>
<tr>
<td>P. Marymen, F. V. Leuven, J.-J. Cassiman, and H. V. D. Berghhe</td>
<td>1782</td>
<td>A Monoclonal Antibody to a Neo-antigen on α2-Macroglobulin Complexes inhibits Receptor-Mediated Endocytosis</td>
</tr>
<tr>
<td>P. K. Arora and G. M. Shearer</td>
<td>1822</td>
<td>Non-MHC-Linked Genetic Control of Murine Cytotoxic T Lymphocyte Responses to Hapten-Modified Syngeneic Cells</td>
</tr>
</tbody>
</table>

*Continued on page 5*
Two Distinct Murine Differentiation Antigens Determined by Genes Linked to the Ly-6 Locus

Parallel Cross-Reactivity Patterns of 2 Sets of Antigenically Distinct Cytochrome c Peptides: Possible Evidence for a Presentational Model of Ir Gene Function

Identification of a Macrophage Antigen-Processing Event Required for I-Region-Restricted Antigen Presentation to T Lymphocytes

Biochemical Characterization of Ia Alleloantigens in Guinea Pigs. I. Synthesis of Ia Antigens by Subsets Enriched for B Cells, T Cells, or Macrophages

Biochemical Characterization of Ia Alleloantigens in Guinea Pigs. II. Comparative Peptide Mapping of Ia Antigens from B Cells, T Cells, and Macrophages

The Qa-1 Alleloantigens. I. Identification and Molecular Weight Characterization of Glycoproteins Controlled by the Qa-1 and Qa-15 Alleles

Stimulation of Mouse Lymphocytes by a Mitogen Derived from Mycoplasma arthritidis. I. Transformation is Associated with an H-2-Linked Gene That Maps to the I-E/I-C Subregion

Ly-16, a New Alleloantigen Present on Cytotoxic T Cells and Controlled by a Gene(s) Linked to the Ig/h-V Locus

Influence of Age on Reactivity of 1-Way Mixed Lymphocyte Cultures in Young Chickens

MHC Antigens on Mouse Trophoblast Cells: Paucity of Ia Antigens Despite the Presence of H-2K and D

The Ontogeny and Turnover Kinetics of Paternal H-2K Antigenic Determinants on the Allogeneic Murine Placenta

Allotreactive T Cells from Individual Soft Agar Colonies Specific for Guinea Pig Ia Antigens. II. Cellular and Molecular Requirements for Optimal Proliferative Responses

Modulation of Thy-1 Alleloantibody Responses: Donor Cell-Associated H-2 Inhibition and Augmentation without Recipient Ir Gene Control

The H-2 Phenotype of the Thymus Dictates the Self-Specificity Expressed by Thymic but Not Splenic Cytotoxic T Lymphocyte Precursors in Thymus-Engrafted Nude Mice

Cellular and Antigenic Requirements for Production of Mixed Leukocyte Reaction Suppressor Factor

Studies of Defective Tolerance in Murine Lupus

Adoptive Transfer of Experimental Autoimmune Thyroiditis (EAT) with in vitro Activated Lymph Node Cells from Thyroglobulin-Sensitized Guinea Pigs: Characterization of the Cell That Transfers EAT

Adenosine 5'-Triphosphate-(ATP) Mediated Stimulation and Suppression of DNA Synthesis in Lymphoid Cells. I. Characterization of ATP Responsive Cells in Mouse Lymphoid Organs

Substrate Hydrolysis by Immune Complex-Activated Neutrophils: Effect of Physical Presentation of Complexes and Protease Inhibitors

Modulating Effect of the Late-Acting Components of the Complement System on the Bactericidal Activity of Human Polymorphonuclear Leukocytes on E. coli O111:B4

Unresponsiveness to Experimental Allergic Encephalomyelitis in Mice: Replacement of Suppressor Cells by a Soluble Factor

Response of Human Neutrophils to C5a: A Role for the Oligosaccharide Moiety of Human C5adesArg-Arg-Arg, but Not of C5a in Biologic Activity

Naturally Occurring Blocking Antibodies Modulate Immediate Hypersensitivity Responses in Human Filariasis

Immunohistologic Localization of 'Facteur Thymique Serique' (FTS) in Human Thymic Epithelium

Suppression of Experimental Allergic Encephalomyelitis in Guinea Pigs by Liposome-Associated Human Myelin Basic Protein

Continued on page 6
Continued from page 5

MICROBIAL IMMUNOLOGY

R. L. Epstein, M. L. Powers, and H. L. Weiner 1800 Interaction of Reovirus with Cell Surface Receptors. III. Reovirus Type 3 Induces Capping of Viral Receptors on Murine Lymphocytes

N. Khansari, M. Segre, and D. Segre 1889 Immunosuppression in Murine Malaria: A Soluble Immunosuppressive Factor Derived from Plasmodium berghei-Infected Blood

J. V. Weinstock and D. L. Boros 1906 Heterogeneity of the Granulomatous Response in the Liver, Colon, Ileum, and ileal Peyer's Patches to Schistosome Eggs in Murine Schistosomiasis Mansoni

R. H. Zubler and J. A. Louis 1924 Clonal Assay for T Helper Cells (T_H) and Conditions for H-2-Restricted Linked Cooperation between T_H and Hapten-Primed B Cells: Application to the Quantitation of Hemocyanin or Leishmania tropica-specific T_H in Primed Mice

R. Yarchan, B. R. Murphy, W. Strober, M. L. Clements, and D. L. Nelson 1958 In Vitro Production of Anti-Influenza Virus Antibody after Intranasal Inoculation with Cold-Adapted Influenza Virus

M. A. Vadas D. E. Burgess, R. E. Kuhn, and K. S. Carlson 2083 Cyclophosphamide Pretreatment Induces Eosinophilia to Nonparasite Antigens

TUMOR IMMUNOLOGY

A. Gronberg, R. Kiessling, E. Eriksson, and M. Hansson 1734 Variants from a MLV-Induced Lymphoma Selected for Decreased Sensitivity to NK Lysis

N. Hanna and R. C. Burton 1754 Definitive Evidence That Natural Killer (NK) Cells Inhibit Experimental Tumor Metastasis in Vivo

W. J. Johnson, C. C. Whisnant, and D. O. Adams 1787 The Binding of BCG-Activated Macrophages to Tumor Targets Stimulates Secretion of Cytolytic Factor

A. S. Kadiash, A. T. Doyle, E. H. Steinshauer, and N. A. Ghossein 1817 Natural Cytotoxicity and Interferon Production in Human Cancer: Deficient Natural Killer Activity and Normal Interferon Production in Patients with Advanced Disease

R. C. Burton, S. P. Bartlett, V. Kumar, and H. J. Winn 1864 Studies on Natural Killer (NK) Cells. II. Serologic Evidence for Heterogeneity of Murine NK Cells

H. Okada, H. Tanaka, and J.-C. Cyong 1903 Resistance to Immune Cytolysis Induced by 4NQO and MNNG: A Possible Mechanism Involved in Chemical Carcinogenicity


K. S. Landreth, C. Rosse, and J. Clagett 2027 Myelogenous Production and Maturation of B Lymphocytes in the Mouse

J. M. Jessup, C. M. Macek, B. D. Kahan, and N. R. Pells 2183 Effect of Murine Tumors upon Delayed Hypersensitivity to Dinitrochlorobenzene. III. In Vivo Activity of the Nonspecific Suppressor Cell

COMMUNICATIONS

L. Matsuuchi, J. Sharon, and S. L. Morrison 2188 An Analysis of Heavy Chain Glycopeptides of Hybridoma Antibodies: Correlation between Antibody Specificity and Sialic Acid Content

N. D. Huh, Y. B. Kim, and D. B. Amos 2190 Natural Killing (NK) and Antibody-Dependent Cellular Cytotoxicity (ADCC) in Specific Pathogen-Free (SPF) Miniature Swine and Germfree Piglets. III. Two Distinct Effector Cells for NK and ADCC

LETTER TO THE EDITOR

A. E. Kalderon 2194

Announcements 2195

Author Index 2196