Contents

TRIBUTE

J. Cruse  2861  A Centenary Tribute: Michael Heidelberger and the Metamorphosis of Immunologic Science

CELLULAR IMMUNOLOGY

O. Vainio, T. Veromaa, E. Eerola, P. Toivanen, and M. J. H. Ratcliffe  2864  Antigen-Presenting Cell-T Cell Interaction in the Chicken Is MHC Class II Antigen Restricted
W. R. Hein, S. McClure, M.-F. Beyer, L. Dudler, and Z. Trnka  2869  A Novel Glycoprotein Expressed on Sheep T and B Lymphocytes Is Involved in a T Cell Activation Pathway
L. Inverardi, R. L. Geller, J. T. Gleason, and G. Gromo  2876  Anti-CD2 Monoclonal Antibodies and Calcium Ionophore A23187 Modulate Lytic Activity in CD4+ and CD8+ Alloreactive Clones
T. L. Rothstein and D. L. Kolber  2880  Peritoneal B Cells Respond to Phorbol Esters in the Absence of Co-Mitogen
P. D. Boyer and E. V. Rotenberg  2886  IL-2 Receptor Inducibility Is Blocked in Cortical-Type Thymocytes
F. Manca, D. Fenoglio, A. Kunkl, C. Cambiaggi, M. Sasso, and F. Celada  2893  Differential Activation of T Cell Clones Stimulated by Macrophages Exposed to Antigen Complexed with Monoclonal Antibodies: A Possible Influence of Paratope Specificity on the Mode of Antigen Processing
A. Rivas, S. Takada, J. Koide, G. Sonderstrup-McDevitt, and E. G. Englemann  2912  CD4 Molecules Are Associated with the Antigen Receptor Complex on Activated but Not Resting T Cells
D. K. Goroff and F. D. Finkelman  2919  Activation of B Cells in Vivo by a Fab/Fc Fragment of a Monoclonal Anti-IgD Antibody Requires an Interaction between the Antibody Fragment and a Cellular Fc Receptor
S. N. Goud, N. Muthusamy, and B. Subbarao  2925  Differential Responses of B Cells from the Spleen and Lymph Node to TNP-Ficol

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

M. O. Dailey, J. Schreurs, and H. Schulman  2931  Hormone Receptors on Cloned T Lymphocytes: Increased Responsiveness to Histamine, Prostaglandins, and β-Adrenergic Agents as a Late Stage Event in T Cell Activation
R. M. Bennet, S. H. Hefeneider, A. Bakke, M. Merritt, C. A. Smith, D. Mourich, and M. C. Heinrich  2937  The Production and Characterization of Murine Monoclonal Antibodies to a DNA Receptor on Human Leukocytes
J. D. Mountz, W. C. Gause, F. D. Finkelman, and A. D. Steinberg  2943  Prevention of Lymphadenopathy in MRL-1pr/1pr Mice by Blocking Peripheral Lymph Node Homing with Mel-14 in Vivo

Continued on page 4
Continued from page 3

M. Rodriguez and S. Sriram 2950 Successful Therapy of Theiler's Virus-Induced Demyelination (DA Strain) with Monoclonal Anti-Lyt-2 Antibody
A. A. Gaspari and S. I. Katz 2956 Induction and Functional Characterization of Class II MHC (Ia) Antigens on Murine Keratinocytes
S. A. Stimpson, F. G. Dalldorf, I. G. Otterness, and J. H. Schwab 2964 Exacerbation of Arthritis by IL-1 in Rat Joints Previously Injured by Peptidoglycan-Polysaccharide
E. W. Shores, R. A. Eisenberg, and P. L. Cohen 2977 T-B Collaboration in the in Vitro Anti-Sm Autoantibody Response of MRL/Mp-lpr Mice

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

I. Lemaire 2983 Neurotensin Enhances IL-1 Production by Activated Alveolar Macrophages
T. B. Issekutz, J. M. Stoltz, and P. v.d. Meide 2989 Lymphocyte Recruitment in Delayed-Type Hypersensitivity: The Role of IFN-γ
D. Wallach, H. Holtmann, H. Engelmann, and Y. Nophar 2994 Sensitization and Desensitization to Lethal Effects of Tumor Necrosis Factor and IL-1
S. Schütze, P. Scheurich, C. Schlüter, U. Ucer, K. Pfizenmaier, and M. Kronke 3000 Tumor Necrosis Factor-Induced Changes of Gene Expression in U937 Cells: Differentiation-Dependent Plasticity of the Responsive State
L. E. M. Bermudez and L. S. Young 3006 Tumor Necrosis Factor, Alone or in Combination with IL-2, but Not IFN-γ, Is Associated with Macrophage Killing of Mycobacterium avium Complex
E. L. Morgan, M. V. Hobbs, D. J. Noonan, and W. O. Weidle 3014 Induction of IL-1 Secretion from Human Monocytes by Fc Region Subfragments of Human IgG
W. W. Hancock, M. E. Pleau, and L. Kobzik 3021 Recombinant Granulocyte-Macrophage Colony-Stimulating Factor Down-Regulates Expression of IL-2 Receptor on Human Mononuclear Phagocytes by Induction of Prostaglandin E
G. R. Harriman, D. Y. Kunimoto, J. F. Elliott, V. Paetkau, and W. Strober 3033 The Role of IL-5 in IgA B Cell Differentiation

IMMUNOCHEMISTRY

F. Pontillon, P. Moulier, P. M. Ronco, and P. J. Verroust 3052 Angiotensin II (AlI)-Related Idiotype Network. I. Common Occurrence of All Internal Image on Rabbit Anti-Idiotype Antibodies
M. Budisavljevic, M. Geniteau-Legendre, B. Baudouin, F. Pontillon, P. J. Verroust, and P. M. Ronco 3059 Angiotensin II (AlI)-Related Idiotype Network. II. Heterogeneity and Fine Specificity of All Internal Images Analyzed with Monoclonal Antibodies
T. Kinoshita, J. Takeda, K. Hong, H. Kozono, H. Sakai, and K. Inoue 3066 Monoclonal Antibodies to Mouse Complement Receptor Type 1 (CR1): Their Use in a Distribution Study Showing That Mouse Erythrocytes and Platelets are CR1 Negative

Continued on page 5
Continued from page 4

P. Giacomini, R. Tecce, R. Gambari, A. Sacchi, P. B. Fisher, and P. G. Natali 3073 Recombinant Human IFN-γ but Not IFN-α or IFN-β, Enhances MHC- and Non-MHC-Encoded Glycoproteins by a Protein Synthesis-Dependent Mechanism

B. H. Littman and K. M. Sanders 3082 Effects of Vitamin D₃ and IFN-γ on the Synthesis of the Second Complement Component, C2, by a Human Myeloid Leukemia (HL-60) Cell Line

D. Kvale, D. Levhaug, L. M. Sollid, and P. Brandtzæg 3086 Tumor Necrosis Factor-α Up-Regulates Expression of Secretory Component, the Epithelial Receptor for Polymeric Ig


E. H. Sasso, C. V. Barber, F. A. Nardella, W. J. Yount, and M. Mannik 3098 Antigenic Specificities of Human Monoclonal and Polyclonal IgM Rheumatoid Factors: The Cy2-Cy3 Interface Region Contains the Major Determinants

H. B. Fleit and M. Kuhnle 3108 Characteristics of a Human Monoclonal Anti-Sm Autoantibody Expressing an Interspecies Idiotype


H. B. Fleit and M. Kuhnle 3120 Biochemical Characterization of an Fcγ Receptor Purified from Human Neutrophils

F. Koning, A. M. Lew, W. L. Maloy, R. Valas, and J. E. Coligan 3126 The Biosynthesis and Assembly of T Cell Receptor α- and β-Chains with the CD3 Complex

IMMUNOPHARMACOLOGY

M. M. Harnett and G. G. B. Klaus 3135 G Protein Coupling of Antigen Receptor-Stimulated Polyphosphoinositide Hydrolysis in B Cells

C. S. Tripp, P. Needleman, J. T. Kassab, and J. V. Weinstock 3140 Macrophages Isolated from Liver Granulomas of Murine Schistosoma mansoni Synthesize Predominantly TxA₂ during the Acute and Chronic Phases of Infection

M. I. Cybulsky, D. J. McComb, and H. Z. Movat 3144 Neutrophil Leukocyte Emigration Induced by Endotoxin: Mediator Roles of IL-1 and Tumor Necrosis Factor α

J. T. Ransom, M. Chen, V. M. Sandoval, J. A. Pasternak, D. Digiusto, and J. C. Cambier 3150 Increased Plasma Membrane Permeability to Ca²⁺ in Anti-Ig-Stimulated B Lymphocytes Is Dependent on Activation of Phosphoinositide Hydrolysis

J. P. Buyon, S. B. Abramson, M. Phillips, S. G. Slade, G. D. Ross, G. Weissmann, and R. J. Winchester 3156 Dissociation between Increased Surface Expression of Gp165/95 and Homotypic Neutrophil Aggregation

G. Kimani, M. G. Tonnesen, and P. M. Henson 3161 Stimulation of Eosinophil Adherence to Human Vascular Endothelial Cells in Vitro by Platelet-Activating Factor

MICROBIAL IMMUNOLOGY


C. S. Edén, R. Shahin, and D. Bries 3180 Host Resistance to Mucosal Gram-Negative Infection: Susceptibility of Lipopolysaccharide Nonresponder Mice

W. M. Kast, C. J. P. Boog, B. O. Roep, A. C. Voordouw, and C. J. M. Melief 3186 Failure or Success in the Restoration of Virus-Specific Cytotoxic T Lymphocyte Response Defects by Dendritic Cells

Continued on page 6
Continued from page 5

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>W. J. Masterson, D. Taylor, and M. J. Turner</td>
<td>3194</td>
<td>Topologic Analysis of the Epitopes of a Variant Surface Glycoprotein of <em>Trypanosoma brucei</em></td>
</tr>
<tr>
<td>I. M. Katona, J. F. Urban, Jr., and F. D. Finkelman</td>
<td>3206</td>
<td>The Role of L3T4+ and Lyt-2+ T Cells in the IgE Response and Immunity to <em>Nippostrongylus brasiliensis</em></td>
</tr>
</tbody>
</table>

**MOLECULAR BIOLOGY • MOLECULAR GENETICS**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. D. Sturgess, M. G. Peterson, L. J. McNeillage, S. Whittingham, and R. L. Coppel</td>
<td>3212</td>
<td>Characteristics and Epitope Mapping of a Cloned Human Autoantigen La</td>
</tr>
<tr>
<td>D. R. Katzenberg and B. K. Birshtein</td>
<td>3219</td>
<td>Sites of Switch Recombination in IgG2b- and IgG2a-Producing Hybridomas</td>
</tr>
<tr>
<td>W. Born, J. White, J. Kappler, and P. Marrack</td>
<td>3228</td>
<td>Rearrangement of IgH Genes in Normal Thymocyte Development</td>
</tr>
<tr>
<td>J. S. Maiter, J. C. Reed, and M. Kamoun</td>
<td>3233</td>
<td>Induction and Regulation of CD2 mRNA in Human Lymphocytes</td>
</tr>
<tr>
<td>N. Sittisombut, J. Mordacq, and K. L. Knight</td>
<td>3237</td>
<td>Rabbit MHC. II. Sequence Analysis of the R-DP α- and β-Genes</td>
</tr>
</tbody>
</table>

**TUMOR IMMUNOLOGY**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>K. Takahashi, K. Ono, Y. Hirabayashi, and M. Taniguchi</td>
<td>3244</td>
<td>Escape Mechanisms of Melanoma from Immune System by Soluble Melanoma Antigen</td>
</tr>
<tr>
<td>T. J. Powell, Jr., R. Spann, M. Vakil, J. F. Kearney, and E. W. Lamon</td>
<td>3266</td>
<td>Activation of a Functional Idiotype Network Response by Monoclonal Antibody Specific for a Virus (M-MuLV)-Induced Tumor Antigen</td>
</tr>
</tbody>
</table>

**ERRATA**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author Index</td>
<td>3280</td>
<td></td>
</tr>
</tbody>
</table>