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| Y. Ron, D. Lo, and J. Sprent                                    | 1764 | T Cell Specificity in Twice-Irradiated F <sub>1</sub> → Parent Bone Marrow Chimeras: Failure to Detect a Role for Immigrant Marrow-Derived Cells in Imprinting Intrathymic H-2 Restriction                 |
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| L. G. Simpson and P. C. Isakson                                 | 1797 | Role of DNA Synthesis in Secretion of Immunoglobulin from Murine B Cells Stimulated by T Cell Derived Lymphokines  |
| D. Rubinstein, A. K. Roska, and P. E. Lipsky                    | 1803 | Liver Sinusoidal Lining Cells Express Class II Major Histocompatibility Antigens But Are Poor Stimulators of Fresh Allogeneic T Lymphocytes  |
| D. E. Griswold, S. Alessi, A. M. Badger, G. Poste, and N. Hanna | 1811 | Differential Sensitivity of T Suppressor Cell Expression to Inhibition by Histamine Type 2 Receptor Antagonists  |
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| P. Flood, W. Ptak, and D. R. Green                              | 1829 | Mechanism of Action of a T Suppressor Factor (TsF) in Contact Sensitivity: The T Cell Target for TsF Activity in Adoptive Transfer of Immunity Is Not the Effector Cell                                    |
| J. LaBaer, R. Y. Tsien, K. A. Fahey, and A. L. DeFranco         | 1836 | Stimulation of the Antigen Receptor on WEHI-231 B Lymphoma Cells Results in a Voltage-Independent Increase in Cytoplasmic Calcium  |

## CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

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| P. Christadoss, J. M. Lindstrom, N. Talal, C. R. Duvic, A. Kalantri, and M. Shenoy  | 1845 | Immune Response Gene Control of Lymphocyte Proliferation Induced by Acetylcholine Receptor-Specific Helper Factor Derived from Lymphocytes of Myasthenic Mice                |
| D. Sgroi, R. N. Cohen, E. G. Lingenheld, M. K. Strong, T. Binder, I. Goldschneider, D. Greiner, M. Grunnet, and R. B. Clark | 1850 | T Cell Lines Derived from the Spinal Cords of Mice with Experimental Allergic Encephalomyelitis Are Self Reactive  |
| F. Alderuccio, B.-H. Toh, A. J. Barnett, and J. S. Pedersen   | 1855 | Identification and Characterization of Mitochondria Autoantigens in Progressive Systemic Sclerosis: Identity with the 72,000 Dalton Autoantigen in Primary Biliary Cirrhosis |

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- B. A. Woda and C. A. Biron 1860 Natural Killer Cell Number and Function in the Spontaneously Diabetic BB/W Rat
- C. A. Laskin, G. Haddad, and C. A. Soloninka 1867 The Regulatory Role of NZB T Lymphocyte in the Production of Anti-DNA Antibodies in Vitro
- J. L. M. Ferrara, A. Marion, J. F. McIntyre, G. F. Murphy, and S. J. Burakoff 1874 Amelioration of Acute Graft vs Host Disease Due to Minor Histocompatibility Antigens by in Vivo Administration of Anti-Interleukin 2 Receptor Antibody

---

#### CYTOKINES • MEDIATORS • REGULATORY MOLECULES

---

- R. S. Yamamoto, C. F. Ware, and G. A. Granger 1878 The Human LT System. XI. Identification of LT and "TNF-like" LT Forms from Stimulated Natural Killers, Specific and Nonspecific Cytotoxic Human T Cells in Vitro
- M. Kobayashi, J. M. Plunkett, I. K. Masunaka, R. S. Yamamoto, and G. A. Granger 1885 The Human LT System. XII. Purification and Functional Studies of LT and "TNF-like" LT Forms from a Continuous Human T Cell Line
- J. S. Pober, M. A. Gimbrone, Jr., L. A. Lapierre, D. L. Mendrick, W. Fiers, R. Rothlein, and T. A. Springer 1893 Overlapping Patterns of Activation of Human Endothelial Cells by Interleukin 1, Tumor Necrosis Factor, and Immune Interferon
- L. Borish, D. O'Reilly, M. S. Klempner, and R. E. Rocklin 1897 Leukocyte Inhibitory Factor (LIF) Potentiates Neutrophil Responses to Formyl-Methionyl-Leucyl-Phenylalanine
- C. W. Turck, J. A. Kapp, and D. R. Webb 1904 Structural Analyses of a Monoclonal Heterodimeric Suppressor Factor Specific for L-Glutamic acid<sup>60</sup>-L-Alanine<sup>30</sup>-L-Tyrosine<sup>10</sup>

---

#### IMMUNOCHEMISTRY

---

- E. F. Plow and T. S. Edgington 1910 Lymphocyte Suppressive Peptides from Fibrinogen Are Derived Predominantly from the A $\alpha$  Chain
- J. S. Peacock, T. R. Londo, D. A. Roess, and B. G. Barisas 1916 Biologic Activity of Antigen Receptors Artificially Incorporated onto B Lymphocytes
- T. R. Londo, J. S. Peacock, D. A. Roess, and B. G. Barisas 1924 Lateral Diffusion of Antigen Receptors Artificially Incorporated onto B Lymphocytes
- J. M. Pesando, L. Graf, and P. Hoffman 1932 HLA-DP Can Be Expressed with or without -DR Molecules on a Malignant B Cell Line
- F. J. Stevens, J. Jwo, W. Carperos, H. Köhler, and M. Schiffer 1937 Relationships between Liquid- and Solid-Phase Antibody Association Characteristics: Implications for the Use of Competitive ELISA Techniques to Map the Spatial Location of Idiopes
- H. Schäfer, D. Mathey, F. Hugo, and S. Bhakdi 1945 Deposition of the Terminal C5b-9 Complement Complex in Infarcted Areas of Human Myocardium
- J. Tschopp, D. Masson, and S. Schäfer 1950 Inhibitor of the Lytic Activity of Perforin by Lipoproteins

---

#### IMMUNOPHARMACOLOGY

---

- T. Meshulam, P. Proto, R. D. Diamond, and D. A. Melnick 1954 Calcium Modulation and Chemotactic Response: Divergent Stimulation of Neutrophil Chemotaxis and Cytosolic Calcium Response by the Chemotactic Peptide Receptor
- D. E. Feltner, R. H. Smith, and W. A. Marasco 1961 Characterization of the Plasma Membrane Bound GTPase from Rabbit Neutrophils. I. Evidence for an N<sub>i</sub>-like Protein Coupled to the Formyl Peptide, C5a, and Leukotriene B<sub>4</sub> Chemotaxis Receptors
- D. W. Goldman, H. Enkel, L. A. Gifford, D. E. Chenoweth, and J. T. Rosenbaum 1971 Lipopolysaccharide Modulates Receptors for Leukotriene B<sub>4</sub>, C5a, and Formyl-Methionyl-Leucyl-Phenylalanine on Rabbit Polymorphonuclear Leukocytes

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- S. S. Graves, J. Bramhall, and B. Bonavida 1977 Studies on the Lethal Hit Stage of Natural Killer Cell-Mediated Cytotoxicity. I. Both Phorbol Ester and Ionophore Are Required for Release of Natural Killer Cytotoxic Factors (NKCF), Suggesting a Role for Protein Kinase C Activity
- L.-Y. Chau, R. L. Hoover, K. F. Austen, and R. A. Lewis 1985 Subcellular Distribution of Leukotriene C<sub>4</sub> Binding Units in Cultured Bovine Aortic Endothelial Cells
- Y. Wei, K. Heghinian, R. L. Bell, and B. A. Jakschik 1993 Contribution of Macrophages to Immediate Hypersensitivity Reaction
- K. E. Barrett, E. F. Szucs, and D. D. Metcalfe 2001 Mast Cell Heterogeneity in Higher Animals: A Comparison of the Properties of Autologous Lung and Intestinal Mast Cells from Nonhuman Primates
- H. N. Claman, K. L. Choi, W. Sujansky, and A. E. Vatter 2009 Mast Cell "Disappearance" in Chronic Murine Graft-vs-Host Disease (GVHD)-Ultrastructural Demonstration of "Phantom Mast Cells"

---

#### MICROBIAL IMMUNOLOGY

---

- R. Correa-Oliveira, S. L. James, D. McCall, and A. Sher 2014 Identification of a Genetic Locus, *Rsm-1*, Controlling Protective Immunity against *Schistosoma mansoni*
- J. V. Weinstock and J. Kassab 2020 Chemotactic Response Of Splenic Mononuclear Cells to Angiotensin II in Murine Schistosomiasis
- W. G. Powderly, G. B. Pier, and R. B. Markham 2025 In Vitro T Cell-Mediated Killing of *Pseudomonas aeruginosa*. IV. Nonresponsiveness in Polysaccharide-Immunized BALB/c Mice Is Attributable to Vinblastine-Sensitive Suppressor T Cells
- D. R. Blanco, J. D. Radolf, M. A. Lovett, and J. N. Miller 2031 Correlation of Treponemicidal Activity in Normal Human Serum with the Presence of IgG Antibody Directed against Polypeptides of *Treponema phagedenis* Biotype Reiter and *Treponema pallidum*, Nichols Strain

---

#### MOLECULAR BIOLOGY • MOLECULAR GENETICS

---

- G. Tosato, G. E. Marti, R. Yarchoan, C. A. Heilman, F. Wang, S. E. Pike, S. J. Korsmeyer, and K. Siminovitch 2037 Epstein-Barr Virus Immortalization of Normal Cells of B Cell Lineage with Nonproductive, Rearranged Immunoglobulin Genes

---

#### TUMOR IMMUNOLOGY

---

- J. M. Greenberg, T. Quertermous, J. G. Seidman, and J. H. Kersey 2043 Human T Cell  $\gamma$ -Chain Gene Rearrangements in Acute Lymphoid and Non-lymphoid Leukemia: Comparison with the T Cell Receptor  $\beta$ -Chain Gene
- D. Piatier-Tonneau, P. Turmel, C. Auffray, and D. Charron 2050 Construction of Chain- and Locus-Specific HLA Class II DNA Probes. Study of HLA-Class II Transcripts in Leukemias
- J. R. Medoff, V. D. Clack, and J. K. Roche 2057 Characterization of an Immunosuppressive Factor from Malignant Ascites That Resembles a Factor Induced in Vitro by Carcinoembryonic Antigen
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