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- J. P. Manzella and N. J. Roberts, Jr. 1940 Human Macrophage and Lymphocyte Responses to Mitogen Stimulation after Exposure to Influenza Virus, Ascorbic Acid, and Hyperthermia
- M.-S. Tsoi, R. Storb, S. Dobbs, K. J. Kopecky, E. Santos, P. L. Weiden, and E. D. Thomas 1970 Nonspecific Suppressor Cells in Patients with Chronic Graft-vs-Host Disease after Marrow Grafting
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IMMUNOCHEMISTRY

- N. Haeffner-Cavaillon, M. Klein, and K. J. Dorrington 1905 Studies on the Fcγ Receptor of the Murine Macrophage-Like Cell Line P388D₁. I. The Binding of Homologous and Heterologous Immunoglobulin G
- N. Haeffner-Cavaillon, K. J. Dorrington, and M. Klein 1914 Studies on the Fcγ Receptor of the Murine Macrophage-Like Cell Line P388D₁. II. Binding of Human IgG Subclass Proteins and Their Proteolytic Fragments
- K. P. Kato, T. J. Wang, and W. J. Esselman 1977 Radiolabeling and Isolation of Thy-1 Active Glycolipids from Murine Brain and Lymphoma Cell Lines
- T. Kinoshita, K. Hong, and K. Inoue 1989 C9 Hemolytic Activity of the Soluble C5b-9 Complex of Guinea Pig Complement, Analogous to Human SC5b-9
- E. Severinson Gronowicz, C. Doss, F. Assisi, E. S. Vitetta, R. L. Coffman, and S. Strober 2049 Surface Ig Isotypes on Cells Responding to Lipopolysaccharide by IgM and IgG Secretion
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D. H. Sachs, J. S. Arn, and T. H. Hansen 1965 Two New Recombinant H-2 Haplotypes, One of Which Juxtaposes K^b and I^k Alleles
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- R. C. Bast, Jr., R. C. Knapp, A. K. Mitchell, J. G. Thurston, R. W. Tucker, and S. F. Schlossman 1945 Immunotherapy of a Murine Ovarian Carcinoma with *Corynebacterium parvum* and Specific Heteroantisera. I. Activation of Peritoneal Cells to Mediate Antibody-Dependent Cytotoxicity
- A. K. Bhan, V. Kumar, and M. Bennett 1952 Differential Growth of Allogeneic Bone Marrow and Leukemia Cells in Irradiated Guinea Pigs
- M. Wolcott, J. W. Pickering, and J. L. Williams 1985 Inhibition of Growth of ASL-1w Murine Leukemia Cells by Anti-thymus Leukemia Antigen (TL) Serum in the Absence of Complement
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