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G. A. Zimmerman, G. A. Wiseman, and H. R. Hill 1866 Human Endothelial Cells Mediate Granulocyte Adherence and Chemotaxis

M. G. Ch. Carlson, C. G. B. Peterson, and P. Venge 1875 Human Eosinophil Peroxidase: Purification and Characterization

T. Ishizaka, M. Iwata, and K. Ishizaka 1880 Release of Histamine and Arachidonate from Mouse Mast Cells Induced by Glycosylation Enhancing Factor and Bradykinin


S. M. Sepe and R. A. Clark 1896 Oxidant Membrane Injury by the Neutrophil Myeloperoxidase System. II. Injury by Stimulated Neutrophils and Protection by Lipid-Soluble Antioxidants

H. D. Perez, R. R. Ong, and F. Elfman 1902 Removal or Oxidation of Surface Membrane Sialic Acid Inhibits Formylpeptide Induced Polymorphonuclear Leukocyte Chemotaxis

A. R. Chen and H. S. Koren 1909 Impaired Oxidative Burst Does Not Affect Human Monocyte Tumoricidal Activity

V. E. Kelley, A. Ferretti, S. Izui, and T. B. Strom 1914 A Fish Oil Diet Rich in Eicosapentaenoic Acid Reduces Cyclooxygenase Metabolites and Suppresses Lupus in MRL-1pr Mice

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**MICROBIAL IMMUNOLOGY**

K. A. Jooner, K. A. Warren, C. Hammer, and M. M. Frank 1920 Bactericidal but not Nonbactericidal C5b-9 Is Associated with Distinctive Outer Membrane Proteins in Neisseria gonorrhoeae

J. T. Stout, F. M. Strickland, and J. Cerny 1926 Regulation of Idiotype Expression. I. The Effect of Antigen Dose on Expression of Certain T15 Idiotopes during Primary IgM Response to S. pneumoniae R36a

P. M. Kaye, B. M. Chain, and M. Feldman 1930 Nonphagocytic Dendritic Cells Are Effective Accessory Cells for Anti-Mycobacterial Responses In Vitro

D. M. Pratt, E. Bennett, G. Grimaldi, and C. L. Jaffe 1935 Subspecies and Species Specific Antigens of Leishmania mexicana Characterized by Monoclonal Antibodies

M. Jendoubi, P. Dubois, and L. P. da Silva 1941 Characterization of One Polypeptide Antigen Potentially Related to Protective Immunity against the Blood Infection by Plasmodium falciparum in the Squirrel Monkey

P. J. Pirson and M. E. Perkins 1946 Characterization with Monoclonal Antibodies of a Surface Antigen of Plasmodium falciparum Merozoites

R. Ramasamy and R. T. Reese 1952 A Role for Carbohydrate Moieties in the Immune Response to Malaria

S. L. James 1956 Induction of Protective Immunity against Schistosoma mansoni by a Nonliving Vaccine Is Dependent upon the Method of Antigen Presentation

S. Lustigman, A. A. F. Mahmoud, and J. Hamburger 1961 Glycopeptides in Soluble Egg Antigen of Schistosoma mansoni: Isolation, Characterization and Elucidation of Their Immunochemical and Immunopathological Relation to the Major Egg Glycoprotein (MEG)


B. S. Kaplan, S. Uni, M. Akikawa, and A. A. F. Mahmoud 1975 Effector Mechanism of Host Resistance in Murine Giardiasis: Specific IgG and IgA Cell-Mediated Toxicity


J. J. Wirth and F. Kierszenbaum 1989 Stimulatory Effects of Leukotriene B4 on Macrophage Association with and Intracellular Destruction of Trypanosoma cruzi

J. L. Hurwitz, C. J. Hackett, E. C. McAndrew, and W. Gerhard 1994 Murine Th Response to Influenza Virus: Recognition of Hemagglutinin, Neuraminidase, Matrix and Nucleoproteins

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