Vol. XVII, 1961

BLOOD
The Journal of Hematology

CONTENTS

No. 1


Studies in Experimental Autoimmune Disorders. I. Clinical and Laboratory Features of Autoimmunization (Runt Disease) in the Mouse
Herman Oliner, Robert Schwartz and William Dameshek 20

The Role of Haptoglobin in the Clearance and Distribution of Extracorporeal Hemoglobin........ Robert K. Murray, George E. Connell and James H. Pert 45

The Amino Acid Composition of Hemoglobin. II. Analytical Technics
Amoz I. Chernoff and Jevons C. Liu 54

The Body Hematocrit/Venous Hematocrit Ratio and the "Splenic Reservoir"........ Hugh Fudenberg, Mario Baldini, John P. Mahoney and William Dameshek 71

pH Dependent Hemolytic Systems. I. Their Relationship to Paroxysmal Nocturnal Hemoglobinuria........ Stanley Yachnin, Mitsuko T. Laforet and Frank H. Gardner 83

A New Method for the Preparation of Human Cadaver Bone Marrow for Transfusion........ R. N. Ray, M. Cassell and H. Chaplin, Jr. 97

The In Vivo Differentiation of Human Leukocytes into Histiocytes, Fibroblasts and Fat Cells in Subcutaneous Diffusion Chambers
Nicholas L. Petrakis, Mary Davis and Salvatore P. Lucia 109

The Electrophoretic Mobility of Red Blood Cells of Normal Human Beings.............. John Angers and Antonio Rottino 119

Report ............................................................. 125

Obituary ......................................................... 127

Book Reviews .................................................. 128

Abstracts ....................................................... 131

No. 2

The Antigenicity of Normal and Leukemic Human Leukocytes
T. E. Brittingham and Hugh Chaplin, Jr. 139
Thalassemia in the West Indies ........... L. N. Went and J. E. Maclver 166
A Study of Prednisone Therapy in Chronic Lymphocytic Leukemia
Richard K. Shaw, Dane R. Boggs, Harold R. Silberman and
Emil Frei, III 182
Reticuloendothelial Clearance of Blood Thromboplastin by Rats
Theodore H. Spaet, Herbert I. Horowitz, Dorothea Zucker-Franklin,
Jose Cintron and Jerzy J. Biezenski 196
Neoplastic Lymphoid Reticulum Cells in the Peripheral Blood: A Histo-
Chemical Study .......... W. J. Mitus, I. B. Mednicoff, B. Wittels and
W. Dameshek 206
A Histochemical Method for Sulfatase Activity in Hemic Cells and Organ
Imprints .............. James H. Austin and Margaret Bischel 216
The Effect of Hemorrhage on Plasma Iron Turnover ...... Eb C. Girvin,
Seng Kah Ooi and Stanley Pi Shu Wong 225
The Morphology of Glucose 6 Phosphate Dehydrogenase Deficient
Erythrocytes: Electron-Microscopic Studies .......... D. Danon,
Ch. Sheba and B. Ramot 229
Mononuclear Cells, Hyaline Bodies and the Plasma: An Analytic Review
Jack W. Shields 235
Book Reviews ......................................................... 252
News and Views ......................................................... 253
Abstracts .............................................................. 254

No. 3
Platelet and Fibrinogen Survival in Normal and Abnormal States of
Coagulation ...... Edward Adelson, Jack J. Rheingold, Olive Parker,
Ampero Buenaventura and Col. William H. Crosby 267
Quantitative Hemagglutination Studies in the Rh Blood Group System
I. The Assay of the Anti-D (Rh0) Agglutinin .............. 282
II. A Study of the D (Rh0) Agglutinogen .............. 291
Capt. Robert Silber, Mary B. Gibbs, Elsa F. Jahn and
Col. Joseph H. Akersyd
Protective Effect of Leukapheresis in Man Against Large Dose Antineo-
plastic Chemotherapy ....... H. R. Bierman, K. H. Kelly, G. J. Marshall
and R. L. Byron, Jr. 303
Glucose-6-Phosphate Dehydrogenase Activity in Platelets
Harold Wurzel, Thomas McGreary, Liesel Baker and
Lewis Gumerman 314
Leukemia and Lymphoma Mortality in Relation to Cosmic Radiation
Leonard Craig and Herbert Seidman 319
Fumarase Activity of Human Leukocytes and Erythrocytes
Kouichi R. Tanaka and William N. Valentine 328
Cytoplasmic Inclusions in Acute Hemocytoblastic Leukemia: Case Re-
port .... I. G. Saratou, G. P. Bourroul, M. Silveira, J. D. Prospero and
J. J. Angulo 334
CONTENTS

815

Polycythemia Vera in Childhood. Studies of Iron Kinetics with Fe59 and Blood Clotting Factors

P. M. Aggeler, M. Pollycove, S. Hoag, W. G. Donald and J. H. Lawrence 345

Megaloblastic Erythropoiesis in Acquired Hemolytic Anemia

M. L. W. Willoughby, M. A. Pears, A. A. Sharp and M. J. Shields 351

Book Reviews ................................................................. 357

American Society of Hematology—Third Annual Meeting ......................... 358

Abstracts ........................................................................... 380

No. 4

Reciprocal Relationship of Hemoglobins A2 and F in β Chain Thalassemias, a Key to the Genetic Control of Hemoglobin F

Wolf W. Zuelzer, Abner R. Robinson and Clifford R. Booker 393

Inhomogeneities in Alkali-Resistant Hemoglobin. Demonstration of Zone Electrophoretic Differences Using a Cationic Detergent Electrolyte

Kirk Conklin Hoerman 409

Studies on the Formation of Heinz Bodies. II. The Nature and Significance of Heinz Bodies

John D. Harley and Alvin M. Maier 418

Study of Humoral Factors Regulating the Production of Leukocytes. I. Demonstration of a "Neutropoietin" in the Plasma after Administration of Triamcinolone to Rats .... Shu Chu Shen and Takashi Hoshino 434

Modification of Irradiation Injury in the Monkey by Bone Marrow Transplantation ........ B. G. Crouch and Richard R. Overman 444

The Diego Factor in a Puerto Rican Family: A Case of Anti-Diego

Hubert J. Van Peenen, John Scudder, James A. Jack and Erika Awer 457

Blood Group Antibody Levels in Hiroshima ........ James W. Hollingsworth, Howard B. Hamilton, Gilbert W. Beebe and Mitsuru Yamasaki 462

pH Dependent Hemolytic Systems. II. Serum Factors Involved in Red Cell Lysis

Stanley Yachnin and Frank H. Gardner 474

Histochemical Demonstration of Diaphorases and Dehydrogenases in Normal Human Leukocytes and Platelets ........ Károly Balogh, Jr., and Richard B. Cohen 491

The Morphology of Buffy Coat from Cord Blood of Normal Human Newborns ... P. Efrati, L. Rozenszajn and E. Shapira 497

Henry M. Stratton, an Anniversary Recognition by William Dameshek, M.D. .......................................................... 504

Book Reviews ................................................................. 507

News and Views .................................................................. 511

Abstracts ........................................................................... 513

No. 5

Studies on Erythropoiesis. XVII. Some Quantitative Aspects of the Erythropoietic Response to Erythropoietin .... Clifford W. Gurney, Nancy Wackman and Edward Filmanowicz 531
Pyridoxine-Responsive Anemia: Report of 2 Cases in Brothers and a Review of the Literature...........Luis Sánchez Medal, Jorge Elizondo, Jesus Torres Gallardo and Carlos Gittler 547
The Hemolytic Anemia of Human Bartonellosis...........César Reynafarje and José Ramos 562
Studies on Homologous Bone Marrow Transplantation in Irradiated Rabbits................Serio Piomelli and Marcus S. Brooke 579
The Mechanism of the Development of Anemia in Untreated Chronic Lymphatic Leukemia...........Prawase Wasi and Matthew Block 597
Sickle Cell Trait as a Tag for Bone Marrow Transplantation
Daniel G. Miller 610
A Case of Juvenile Pernicious Anemia: Study of the Effects of Folic Acid and Vitamin B₁²........David H. Clément, Charles A. Nichol and Arnold D. Welch 618
An Attempt to Produce Hypersplenism in the Dog, Using Methylcellulose S. M. Weissman, T. A. Waldmann, E. Levin and N. I. Berlin 632
Supravital Blood Studies, Using Acridine Orange Fluorescence John F. Jackson 643
The Intercellular Substances of Bone Marrow. 1. Preliminary Studies of the Physical and Chemical Character of the Intercellular Bone Marrow Substances in Normal Rabbits................Robert E. Carter, Barbara Fleishacker and William L. Jackson 650
Brief Note: Hemoglobin S in Eti-Turks and the Allawits in Lebanon Muzaffer Aksoy 657
News and Views ........................................... 660
Abstracts .................................................. 662

No. 6

Unidentified Reticuloendothelial Cell Storage Disease
Theodore I. Malinin 675
Electron Microscopic Study of Leukocytes in Infectious Mononucleosis Roland Paegle 687
Uric Acid Excretion in Patients with Malignant Lymphomas Nicholas Primikiris, Leon Stutzman and Avery A. Sandberg 701
A Chromosomal Female with Hemophilia A........William J. Mellman, Irving J. Wolman, Harold A. Wurzel, Paul S. Moorhead and Donald H. Qualls 719
Hematologic Findings in Children Exposed to A-Bomb Radiation in Utero in Hiroshima................Tsugiso Takamura and Shoichi Ueda 728
Staining of Leukocytes by the Tetrazolium Method: Correlation of Results with the Leukocyte Count and with the Clinical Classification
Peter M. Marcuse and Joan Cochran 738