CONTENTS

No. 1 (January)

Central Nervous System Involvement by Leukemia in Children
I. Relationship to Systemic Leukemia and Description of Clinical and Laboratory Manifestations
   Carol B. Hyman, James M. Bogle, Charles A. Brubaker, Kenneth Williams and Denman Hammond

II. Therapy with Intrathecal Methotrexate
   Carol B. Hyman, James M. Bogle, Charles A. Brubaker, Kenneth Williams and Denman Hammond

Expectancy for Life in Chronic Lymphatic Leukemia
   Robert A. Green and Hubert Dixon

Chronic Erythrocytic Hypoplasia Following Pernicious Anemia
   Carlos Goldstein and Liberto Pechet

The Effect of Amelioration of Anemia on the Synthesis of Fetal Hemoglobin in Sickle Cell Anemia
   L. Juden Reed, Thomas B. Bradley, Jr. and Helen M. Ranney

Electron Microscopy of the Red Cells in Erythropoietic Porphyria
   Samuel Gross, Melvin D. Schoenberg and Virgil R. Mumaw

The Histochemical Study of Zinc Content in Granulocytes in Normal Adults and in Hematologic Disorders
   Stanislaw Szmigielski and Joanna Litwin

Continuous Free-Flow Fractionation of Cellular Constituents in Rat Bone Marrow
   Howard C. Mel, Linda T. Mitchell and Bo Thorell

Excess Hemolysis in Subjects with Severe Iron Deficiency Anemia Associated and Nonassociated with Hookworm Infection
   Miguel Layrisse, Jesus Linares and Marcel Roche

The Course of Experimentally Induced Hemolytic Anemia in a Primaquine-Sensitive Caucasian
   Ivo Panuccialdi, Alberto Tizianello, Franco Ajmar and Emanuele Salvidio

Demonstration of Isoantigenic Receptors on Human Epidermal Cells and Established Cell Lines
   Edmond J. Yunis, Jorge J. Yunis and K. Gerhard Brand

Brief Report: Absorption Spectra of Inclusion Bodies in 8-Thalassemia
   Phaedra Fessas, Dimitris Loukopoulos and Bo Thorell

Analytical Review: The Molecular Basis of the Pathogenicity of Abnormal Hemoglobins—Some Recent Developments
   Paul Heller
IV CONTENTS

News and Views .......................................................... 126
Book Review .............................................................. 131
Correspondence ......................................................... 132
Abstracts ................................................................. 134

No. 2 (February)

Canine Systemic Lupus Erythematosus

Robert M. Lewis, Robert Schwartz and William B. Henry, Jr. 143

In Vivo Localization of Heterologous Anti-Erythrocyte Antibodies in the Rat Bone Marrow and Their Effect on the Proliferative Capacity of Immature Erythroid Cells

Takeo Kuroyanagi, Masanobu Saito and Akira Kurisu 161

Study of Immunologic Reactivity in Hemoblastosis. Circulating Antibody Formation as a Response to Antigenic Stimulus in Leukemia, Malignant Lymphoma, Myeloma and Myelofibrosis... J. Libánsky 169

Successful Allogenic Bone Marrow Transplantation in Man: Chimerism, Induced Specific Tolerance and Possible Anti-Leukemic Effects


DNA and RNA Synthesis of Circulating Atypical Lymphocytes in Infectious Mononucleosis..... Lois B. Epstein and George Brecher 197

Some Properties of Serum Obtained from Rabbits Immunized with Human Urinary Erythropoietin

John C. Schooley and Joseph F. Garcia 204

Intraerythrocytic Hemoglobin Crystals in Sickle Cell-Hemoglobin C Disease .................. L. W. Diggs and Ann Bell 218

The Site of Absorption of Co58-Labeled Vitamin B12 in Man

Vagn Rønnov-Jessen and Jacob Hansen 224

Thrombocytopenia Inherited as an Autosomal Dominant Trait

T. C. Bithell, P. Didisheim, G. E. Cartwright and M. M. Wintrobe 231

The Platelet-Fibrin Relationship in Human Blood Clots: An Ultrastructural Study Utilizing Ferritin-Conjugated Anti-Human Fibrinogen Antibody... James G. White, William Krivot and Robert L. Vernier 241

A Simple Rapid Method for Estimating Serum Plasmin Activity with Fibrin-Coated Latex Particles........... Humberto Costa Ferreira 258

Evaluation of a Technic for Counting Dog and Human Platelets

Robert I. Weed, S. Lee Crump and Scott N. Swisher 261

Book Reviews .......................................................... 267
Abstracts ............................................................. 269

No. 3 (March)

The Excretion of Urocanic Acid and Formimino Glutamic Acid in Megaloblastosis Accompanying Kwashiorkor

Donald M. Allen and Roger G. Whitehead 283
CONTENTS

Erythropoiesis in Rats with Acute Uremia and the Effect of Erythropoietin
Efstratios S. Kurtides, Walter A. Rambach and Howard L. Alt 292

Dry Mass Distribution Changes in Mouse Bone Marrow Cell Population during the First 24 Hours after X-Irradiation as Determined by Interferometry..... Hun Lee, Victor Richards and Maria Maichle 299

Granulocyte Reserve Following Radiation Therapy as Studied by the Response to a Bacterial Endotoxin
Samuel Hellman and Martin E. Fink 310

Surgery in Patients with Congenital Factor VII Deficiency (Congenital Hypoproconvertinemia).................. Herbert S. Strauss 325

Gastrointestinal Absorption, Plasma Transport, Surface Distribution, and Urinary and Fecal Excretion of Radioactive Vitamin B12 in Iron Deficiency.................. J. D. Cook and L. S. Valberg 335

The Effect of Incubation and Storage on Human Platelet Structure as Studied by Electron Microscopy
Barry G. Firkin, Barry J. O’Neill, Beth Dunstan and Ronald Oldfield 345

Endocrine Relationships of Leukocyte Alkaline Phosphatase
Fred Rosner and Stanley L. Lee 356

Brief Report: Commentary on Hemosiderin
G. W. Richter and M. C. Bessis 370

Brief Report: Hereditary Methemoglobinemia in Greece
Athena V. Papaspyru-Zona, Park S. Gerald and Edward M. Scott 375

Editorial: Viral Etiology of Leukemia and Lymphomas .. Ludwik Gross 377

Analytical Review: Human Gamma Globulin .......... T. B. Tomasi, Jr. 382

News and Views ................................................................. 404

Abstracts ..................................................................................... 406

No. 4 (April)

Autoimmune Hemolytic Anemia in NZB/Bl Mice Treated with the Corticosteroid Drug Betamethasone..... T. P. Casey and J. B. Howie 423

The Anemia of Human Riboflavin Deficiency
Montague Lane and Clarence P. Alfrey, Jr. 432

Folate Deficiency in Chronic Liver Disease
Frederick A. Klipstein and John Lindenbaum 443

Interaction of Hemoglobin Lepore with Sickle Cell Trait and Microcythemia (Thalassemia) in a Southern Italian Family
Ezio Silvestroni, Ida Bianco and Corrado Baglioni 457

A Quantitative Immunogenetic Study of Gene Suppression Involving A1 and H Antigens of the Erythrocyte without Affecting Secreted Blood Group Substances. The ABH Phenotypes A^b_in and O^n_in
Joel M. Solomon, Robert Waggoner and Webster C. Leyshon 470

Glucose-6-Phosphate Dehydrogenase Deficiency in Saudi Arabia: A Survey......................................................... A. P. Gelpi 486

Heterozygous Beta-Thalassemia in Association with Hereditary Elliptocytosis: A Family Study... Pasquale E. Perillie and Amoz I. Chernoff 494
The Action of Two Sulfhydryl Compounds on Normal Human Red Cells. Relationship to Red Cells of Paroxysmal Nocturnal Hemoglobinuria. Girolamo Sirchia, Soldano Ferrone and Francesco Mercuriali 502

The Normal Development of the Lymphoid Mass in the Golden Hamster and its Relationship to the Effects of Thymectomy

Marvin M. Adner, Joseph D. Sherman and William Dameshek 511

Effects of Endotoxin and Nitrogen Mustard on Leukocyte Kinetics

John C. Herion, Richard I. Walker, William B. Herring and Jeffress G. Palmer 522

A Possible Immune Reaction Producing Spontaneous Remission in Leukemia

Luther L. Burkett, Murray L. Fields and Lemuel W. Diggs 541

Comparative Studies of Platelet Survival by Different Methods in the Rabbit. Shirley Ebbe, Mario Badini and Janet Donovan 548

Analytical Review: Anticoagulant Therapy

Clarence Mersky and Arnold Drapkin 567

Abstracts of Second Conference on Blood Platelets 597

Book Reviews 614

Correspondence 619

Abstracts 626

No. 5 (May)

Defective Globin Synthesis in Hypochromic Hypersideremic Anemia (α-Thalassemia?)

Paul Heller, John Van Stone, David Apple and Richard D. Coleman 635

The Amino Acid Composition of Hemoglobin. V. The Preparation of Purified Hemoglobin Fractions by Chromatography on Cellulose Exchangers and Their Identification by Starch Gel Electrophoresis Using Tris-Borate-EDTA Buffer

Amoz I. Chernoff, Nelson Pettit and Jo Northrop 646

Chromosomal Aberrations in Pernicious Anemia. Study of Three Cases before and after Therapy

Kosmas A. Kiossoglou, W. J. Mitus and William Dameshek 662

Patterns of Granulocyte Kinetics in Health, Infection and in Carcinoma. Peter R. Galbraith, Leslie S. Valberg and Malcolm Brown 683

Peripheral Leukocyte Infusion into Lethally Irradiated Guinea Pigs

Theodore I. Malinin, Vernon P. Perry, Carey C. Kerby and Michael F. Dolan 693

Immunologic Studies of Platelet Protein. Ralph L. Nachman 703

A Normal Inhibitor of the Blood Coagulation Contact Reaction Product. H. L. Nossel and J. Niemetz 712

Starch Block Electrophoresis of Plasma and Serum Clotting Factors. Separation of Activated PTC (PTC')

Sandra Schiffman, Samuel I. Rapaport and Mary Jane Patch 724

The Development of a Myeloma-Like Condition in Mink with Aleutian Disease. David D. Porter, Frank J. Dixon and Austin E. Larsen 736
CONTENTS

Steroid Hormone Metabolism in Chronic Myelogenous Leukemia
   T. F. Gallagher, Leon Hellman, Barnett Zumoff and Daniel G. Miller 743

The Effect of Total Body Irradiation on the Labeling of Circulating Mouse Lymphocytes with Tritiated Thymidine... D. M. Whitelaw 749

Life Span of Reticulocytes in Paroxysmal Nocturnal Hemoglobinuria
   S. Y. Kan and Frank H. Gardner 759

Origin of Pulmonary Megakaryocytes
   Richard M. Kaufman, Romano Airo, Simon Pollack, William H. Crosby and Raymond Doberneck 767

The Eosinophil as a Source for Profibrinolysin in Acute Inflammation
   Jeanne M. Riddle and Marion I. Barnhart 776

Responsiveness of Hematopoietic Tissue to Erythropoietin in Relation to the Time of Administration and Duration of Action of the Hormone... John C. Schooley 795

Extraction of Erythropoietin from Kidneys of Hypoxic and Phenylhydrazine-Treated Rats
   Joseph F. Contrera, James F. Camisco/i, Arthur H. Weintraub and Albert S. Gordon 809

Platelet Levels in Infectious Mononucleosis................. R. L. Carter 817

Effects of in Vivo Hyperoxia on Erythrocytes. II. Hemolysis in a Human after Exposure to Oxygen under High Pressure
   Charles E. Mengel, Herbert E. Kann, Jr., Albert Heyman and Earl Metz 822

Hemoglobin Hope: A Beta Chain Variant
   Virginia Minnich, Robert J. Hill, Philip D. Khuri and Mary E. Anderson 830

Brief Report: Utilization of Iron by Scorbetic Guinea Pigs
   Sachchidananda Banerjee and Ardendu Sekhar Chakrabarty 839

Brief Case Report: Syndrome of Erythremia di Guglielmo after Lighting Injury with Autoimmune Antibodies and Terminating in Acute Monocytic Leukemia........ Lie-Into Luan Eng and C. Sinnadurai 845

Analytical Review: Paroxysmal Nocturnal Hemoglobinuria: Current Concepts of Certain Pathophysiologic Features
   Robert C. Hartmann and David E. Jenkins, Jr. 850

News and Views ................................................. 866

Book Reviews .................................................. 866

Abstracts ..................................................... 868

No. 6 (June)

Rapid Charcoal Assay for Intrinsic Factor (IF), Gastric Juice Unsaturated B12 Binding Capacity, Antibody to IF, and Serum Unsaturated B12 Binding Capacity
   Chester Gottlieb, Kam-Seng Lau, Louis R. Wasserman and Victor Herbert 875

Heinz Body Anemia—An Ultrastructural Study. I. Heinz Body Formation................. Richard A. Rifkind and David Danon 885
VIII CONTENTS

The in Vitro Synthesis of Hemoglobin by Human Bone Marrow in Thalassemia
Thomas F. Necheles, Manfred Steiner and Mario Baldini 897

Sickle Cell Disease. A Serum Defect in the Thromboplastin Generation Test
Henry H. Hensell, Miriam Kligerman and Lowell E. Irwin 907

Ultrastructural Studies of the May-Hegglin Anomaly
S. W. Jordan and W. E. Larsen 921

An Electron Microscopic Description of Basophilic Stippling in Red Cells. Wallace N. Jensen, Giuliana D. Moreno and Marcel C. Bessis 933

Studies on the A, B, O(H) Blood Groups on Human Cells in Culture
Lawrence N. Chessin, Sharon Bramson, William J. Kuhns and Kurt Hirshhorn 944

Quantitative Serologic and Isotopic Studies on the Rh0 Variant—D
S. P. Masouredis and P. Sturgeon 954

Studies of Plasma Fe59 Disappearance—A Manifestation of Ineffective Erythropoiesis and of Hemolysis
Norman R. Gevirtz, Louis R. Wasserman, Lena Sharney and Dina Tendler 976

Iron Metabolism in Rats with Phenylhydrazine-Induced Hemolytic Disease
Marcel E. Conrad, Lewis R. Weintraub and William H. Crosby 990

Studies on Schmauch Bodies. I. The Incidence in Normal Cats (Felis Domestic) and the Morphologic Relationship to Heinz Bodies
Tihomir Beritić 999

Possible Species Differences in RNA Metabolism of Lymph Node Cells
John J. Miller III and Judith Mitchell 1009

RNA Metabolism in Lymphocytes Stimulated by Phytohemagglutinin: Initial Responses to Phytohemagglutinin
Herbert L. Cooper and Arnold D. Rubin 1014

Immunohistochemical Study of Thrombolytic Mechanisms
N. Back, R. Hiramoto and J. L. Ambrus 1028

Editorial: Lymphocytopenia in Hodgkin’s Disease... Alan C. Aisenberg 1037

News and Views .................................................. 1043
Abstracts .......................................................... 1044