CONTENTS

No. 1 (July)

Gamma Heavy Chain Disease: Rapid, Sustained Response to Cyclophosphamide and Prednisone...Roger M. Lyons, Hugh Chaplin, Thomas W. Tillack, and Philip W. Majerus 1

Hydroxyurea in the Management of the Hematologic Complications of Chronic Granulocytic Leukemia ...............Joel H. Schwartz and George P. Canellos 11

Functional and Morphologic Characteristics of the Leukemic Cells of a Patient With Acute Monocytic Leukemia: Correlation With Clinical Features...Charles A. Schiffer, Frances T. Sanel, Bruce K. Stechmiller, and Peter H. Wiernik 17

Acute Myelogenous Leukemia of the Wistar/Furth Rat: Establishment of a Continuous Tissue Culture Line Producing Lysozyme In Vitro and In Vivo ..................Joel S. Greenberger, David S. Rosenthal, Stuart A. Aaronson, and William C. Moloney 27

Modulation of Murine Granulocyte Proliferation in Diffusion Chamber Cultures......................J. B. Marmor, J. L. Russell, A. M. Miller, and S. H. Robinson 39

The Effect of Azathioprine (Imuran) on the Kinetics of Monocytes and Macrophages During the Normal Steady State and an Acute Inflammatory Reaction......Andreas E. Gassman and Ralph van Furth 51

The Relative Spatial Distribution of CFU, and CFU; in the Normal Mouse Femur.................B. I. Lord, Nydia G. Testa, and J. H. Hendry 65


The Factors Controlling Stem Cell Recirculation. II. ACTH-induced Inhibition of Migration of Hemopoietic Stem Cells ........G. I. Bezin, R. M. Khaitov, B. B. Moroz, R. V. Petrov, and O. O. Romashko 79

In Vitro Production of Erythropoietin by Mouse Fetal Liver J. R. Zucali, V. Stevens, and E. A. Mirand 85
CONTENTS

Bone Marrow Sinus Cell Packing: A Determinant of Cell Release

Jack K. Chamberlain, Leon Weiss, and Robert I. Weed 91

Ethnic Variation in Red Cell Glutathione Peroxidase Activity

E. Beutler and F. Matsumoto 103

Active Transport of GSSG From Reconstituted Erythrocyte Ghosts

J. Prchal, S. K. Srivastava, and E. Beutler 111

Metal Ion Contents of Gel-filtered Platelets From Patients With Storage Pool Disease

Bruce Lages, Michael C. Scrutton, Holm Holmsen, H. James Day, and Harvey J. Weiss 119

Content and Thrombin-induced Release of Acid Hydrolases in Gel-filtered Platelets From Patients With Storage Pool Disease

Holm Holmsen, Carol A. Setkowsky, Bruce Lages, H. James Day, Harvey J. Weiss, and Michael C. Scrutton 131

Cat Leukemia Virus and Immunology

Friedrich Deinhardt 143

SPECIAL DEPARTMENTS

Abstracts .................................................................................................................. 147

Correspondence (Granulomas From Prosthetic Valve) .................. 157

News and Views ...................................................................................................... 159

Information for Contributors ................................................................................ xiv

No. 2 (August)

Heckathorn's Disease: Variable Functional Deficiency of Antihemophilic Factor (Factor VIII) .......... Oscar D. Ratnoff and Jessica H. Lewis 161


Studies on a Circulating Anticoagulant in Systemic Lupus

Erythematous: Evidence for Inhibition of the Function of Activated Plasma Thromboplastin Antecedent (Factor Xla) ...... Henry Krieger, John P. Leddy, and Robert T. Breckenridge 189

Mediterranean Macrothrombocytopenia .......... Wieland E. von Behrens 199

Platelet Storage at 22°C: Role of Gas Transport Across Plastic Containers in Maintenance of Viability............... Scott Murphy and Frank H. Gardner 209

Clinical Staging of Chronic Lymphocytic Leukemia ........ Kanti R. Rai, Arthur Sawitsky, Eugene P. Cronkite, Arjun D. Chanana, Robert N. Levy, and Bernard S. Pasternack 219

The Effect of Hydrocortisone on the Kinetics of Normal Human Lymphocytes ........ Anthony S. Fauci and David C. Dale 235
CONTENTS

Effect of Papain on the Interaction Between Human Monocytes, Erythrocytes, and IgG .......... *Margaret A. Kenna, Richard A. Cooper, and Alan D. Schreiber* 245

The Effect of Carbon Monoxide on Red Cell Life Span in Sickle Cell Disease ........................................... *Ernest Beutler* 253

Studies on Pure Red Cell Aplasia. VII. Presence of Proerythroblasts and Response to Splenectomy: A Case Report .......... *S. Donald Zaentz, Sanford B. Krantz, and David A. Sears* 261

Energy Metabolism in Human Erythrocytes: The Role of Phosphoglycerate Kinase in Cation Transport .......... *George B. Segel, Stephen A. Feig, Bertil E. Glader, Aixa Müller, Paul Dutcher, and David G. Nathan* 271

Basophil Counting With a New Staining Method Using Alcian Blue *Harriet S. Gilbert and Leonard Ornstein* 279

A Measurement Technique for Cell Adhesiveness .......... *Ian T. Young and Stephanie E. Sher* 287

SPECIAL DEPARTMENTS

Abstracts .................................................................................................................. 295

Correspondence: CML Neutrophils................................................................. 305

News and Views .................................................................................................. 307

American Society of Hematology................................................................. 308

Information for Contributors ........................................................................... xviii

Advertiser’s Index ............................................................................................... xxvi

No. 3 (September)

The Effects of ATP on Platelets: Evidence Against the Central Role of Released ADP in Primary Aggregation .......... *Donald E. Macfarlane and David C. B. Mills* 309

Platelet Size in Man .......................................................................................... 321


Complement-sensitive Red Cells in Aplastic Anemia .......... *Isaac Ben-Bassat, Frida Brok-Simoni, and Bracha Ramot* 357


Erythrocyte Volume Distribution in Normal and Abnormal Subjects .......... *J. David Bessman and Randall K. Johnson* 369
CONTENTS

Red Cell Iron Uptake in Hereditary Microcytic Anemia
   John A. Edwards and James E. Hoke 381

The Development of Vertebral Bone Marrow of Human Fetuses
   Li-Tsun Chen and Leon Weiss 389

Heterogeneity of Human Circulating Anticoagulants Against
   Antihemophilic Factor (Factor VIII) ..........Man-Chiu Poon,
   Alan C. Wine, Oscar D. Ratnoff, and George M. Bernier 409

Studies of the Human Factor VIII/von Willebrand's Factor Protein.
   II. Identification and Characterization of the von Willebrand Protein
      Harvey R. Gralnick and Barry S. Coller 417

BCG in the Treatment of Acute Lymphocytic Leukemia ...Ruth M. Heyn,
   Patricia Joo, Myron Karon, Mark Nesbit, Nomie Shore,
   Norman Breslow, John Weiner, Allen Reed, and Denman Hammond 431

Immunoglobulins on the Surface of Blast Cells in Human Acute
   Leukemia ........R. S. Samoilova, T. I. Bulicheva, and S. V. Skurkovich 443

Regeneration of Blood-forming Organs After Autologous Leukocyte
   Transfusion in Lethally Irradiated Dogs. I. Distribution and
   Cellularity of the Bone Marrow in Normal Dogs ............W. Calvo,
   T. M. Fliedner, E. W. Herbst, and I. Fache 453

SPECIAL DEPARTMENTS

Abstracts ................................................................. 459

Correspondence: Fibrosis of the Bone Marrow .................. 468

Book Reviews ............................................................. 469

Books Received for Review ........................................... 474

News and Views ......................................................... 476

American Society of Hematology .................................. 478

Information for Contributors ..................................... xxvii

Advertiser's Index ................................................... xxxi

No. 4 (October)

Acute Monoblastic Leukemia: Diagnosis and Treatment of Ten Cases
   Robert W. McKenna, Clara D. Bloomfield, Fred Dick, Mark E. Nesbit,
   and Richard D. Brunning 481

Hairy Cell Leukemia: Functional, Immunologic, Kinetic, and
   Ultrastructural Characterization .......L. Debusscher, J. L. Bernheim,
   E. Collard-Rongé, A. Govaerts, R. Hooghe, F. J. Lejeune, M. Zeicher,
   and P. A. Stryckmans 495
CONTENTS

DNA-metabolizing Enzymes in Normal Human Lymphoid Cells. VI. Induction of DNA Polymerases α, β, and γ Following Stimulation With Phytohemagglutinin R. J. Mayer, R. Graham Smith, and Robert C. Gallo 509

A New Hematologic Syndrome With a Distinct Karyotype: The 5 q – Chromosome G. Sokal, J. L. Michaux, H. Van Den Berghe, A. Cordier, J. Rodhain, A. Ferrant, M. Moriau, M. De Bruyere, and J. Sonnet 519

Treatment of Life-threatening Hemorrhage Due to Acquired Factor VIII Inhibitor Tomás Pintado, Howard F. Taswell, and E. J. Walter Bowie 535

A Rapid and Sensitive 125I-Fibrin Solid-Phase Fibrinolytic Assay for Plasmin Leonard A. Moroz and Norbert J. Gilmore 543

The Resistance of Fibrinogen and Soluble Fibrin Monomer in Blood to Degradation by a Potent Plasminogen Activator Derived From Cadaver Limbs Victor Gurewich, Elisabeth Hyde, and Boguslaw Lipinski 555

Ultrastructural Changes of Endothelium Associated With Thrombocytopenia Craig S. Kitchens and Leon Weiss 567

Short Communication: Elevated Platelet Count and Megathrombocyte Number in Sickle Cell Anemia Michael L. Freedman and Simon Karpatkin 579

Iron Metabolism, Sickle Cell Disease, and Response to Cyanate Charles M. Peterson, Joseph H. Graziano, Alfred de Ciutiis, Robert W. Grady, Anthony Cerami, Mark Worwood, and Allan Jacobs 583


Clinical and Laboratory Observations on Serum Folate-binding Protein Edward R. Eichner, Charles J. Paine, Valerie L. Dickson, and Marion D. Hargrove, Jr. 599

The Influence of Temperature on Red Cell Deformability Joseph R. Williamson, Maureen 0. Shanahan, and Robert M. Hochmuth 611

Abnormal Erythroid Maturation in Mice Induced by Isoniazid Bernard S. Morse, Dennis Giuliani, Vera Minak, and Murray Nussbaum 625

Limitation of Splenic Growth as Studied by Heterotopic Splenic Implants Mehdi Tavassoli 631

SPECIAL DEPARTMENTS

Abstracts .................................................. 637

Correspondence: B12 Binders; 3H-Thymidine; Myeloma; Heparin; Metabolic inhibitors; 5′Nucleotidase ........................................ 647
CONTENTS

News and Views ................................................................. 657
American Society of Hematology ........................................ 658
Information for Contributors ............................................. xx
Advertiser’s Index ............................................................. xxv

No. 5 (November)

Hereditary Stomatocytosis: Membrane and Metabolism Studies

William C. Mentzer, Jr., W. Byron Smith, Jerry Goldstone, and Stephen B. Shohet 659

F-Cells in the Adult: Normal Values and Levels in Individuals With Hereditary and Acquired Elevations of Hb F ......... W. G. Wood, G. Stamatoyannopoulos, G. Lim, and P. E. Nute 671


Thymidylate Synthetase Activity in Bone Marrow Cells in Pernicious Anemia ...... Shinobu Sakamoto, Michiko Niina, and Fumimaro Takaku 699

Use of Cell Separation and Short-Term Culture Techniques to Study Erythroid Cell Development ...... Jonathan Glass, Linda M. Lavidor, and Stephen H. Robinson 705

Immunoglobulin D Myeloma and Amyloidosis: Immunochemical and Structural Studies of Bence Jones and Amyloid Fibrillar Proteins Gilbert C. White, II, Robert J. Jacobson, Richard A. Binder, Reinhold P. Linke, and George G. Glenner 713

Congenital Neutropenia: Neutrophil Proliferation With Abnormal Maturation ....................... Richard T. Parmley, Makio Ogawa, Charles P. Darby, Jr., and Samuel S. Spicer 723

Damaged DNA in Lymphocytes of Aplastic Anemia .... Yasuo Hashimoto, Fumimaro Takaku, and Kinori Kosaka 735


Fluorescent Labeling of Human Platelets ............... William C. Horne, Kathleen M. Guilmette, and Elizabeth R. Simons 751
CONTENTS

A Hitherto Undescribed Plasma Factor Acting at the Contact Phase of Blood Coagulation (Flaujeac Factor): Case Report and Coagulation Studies ..........Marie-José Lacombe, Bruno Varet, and Jean-Paul Levy 761

Bovine Factor V: A Calcium-containing metalloprotein Alfred C. Greenquist and Robert W. Colman 769

Cytogenetic Studies in a Patient With Acute Granulocytic Leukemia of Seven and One-half Years Duration .................L. G. Littlefield and H. A. Vodopick 783

Deoxycytidine Kinase: Properties of the Enzyme From Human Leukemic Granulocytes .................C. Norman Coleman, Ronald G. Stoller, James C. Drake, and Bruce A. Chabner 791

In Memoriam: Professor Carl de Gruchy ..............A. Baikie, B. G. Firkin, D. G. Penington 805

SPECIAL DEPARTMENTS

Abstracts .................................................................................................................. 807
News and Views ........................................................................................................ 816
Correspondence: Fletcher Factor ............................................................................. 817
Information for Contributors .................................................................................. xx
Advertiser's Index ..................................................................................................... xxix

No. 6 (December)

Frederick Stohlman, Jr., M.D................................................................. 821


Antibody Responses to Leukemia-Associated Antigens During Immunotherapy of Chronic Myelocytic Leukemia K. Ramachandar, M. A. Baker, and R. N. Taub 845

The Heterogeneity and Properties of Folate Binding Proteins From Chronic Myelogenous Leukemia Cells .....................Craig D. Fischer, Maria da Costa, and Sheldon P. Rothenberg 855

Ultrastructural Histochemical Alteration of the Plasma Membrane in Chronic Myelocytic Leukemia ..........G. Adolph Ackerman 869
CONTENTS

Impaired T-cell Transformation in Chronic Lymphocytic Leukemia (CLL): Demonstration of a Blastogenesis Inhibitory Factor
Peter D. Utsinger 883

Osmotic Behavior of Normal and Leukemic Lymphocytes
S. Ben-Sasson, R. Shaviv, Z. Bentwich, S. Slavin, and F. Doljanski 891

Functional Abnormalities of Human Neutrophils Collected by Continuous Flow Filtration Leukopheresis Daniel G. Wright, Jean C. Kauffmann, Michael J. Chusid, Goeffrey P. Herzig, and John I. Gallin 901

Granule Enzymes of Polymorphonuclear Neutrophils: A Phylogenetic Comparison P. Gregory Rausch and Terry G. Moore 913

Defective Polymorphonuclear Leukocyte Metabolism and Function in Canine Cyclic Neutropenia Michael J. Chusid, Joseph S. Bujak, and David C. Dale 921

Multiple Myeloma With Intramedullary Masses of M-Component George M. Bernier, Vincent Del Duca, Jr., Robert Brereton, and Richard C. Graham, Jr. 931

Growth Stimulation of Human Bone Marrow Cells in Agar Culture by Vascular Cells Søren Knudtzon and Børge Thing Mortensen 937

Absence of One Component of Spectrin Adenosine Triphosphatase in Hereditary Spherocytosis F. H. Kirkpatrick, G. M. Woods, and P. L. La Celle 945

Abnormal Erythrocyte Metabolism in Hepatic Disease J. Robert Smith, Neil E. Kay, Arlan J. Gottlieb, and Frank A. Oski 955


In Memoriam: Winifred M. Ashby Virgil F. Fairbanks 977

SPECIAL DEPARTMENTS

Abstracts ................................................. 979
Correspondence ........................................ 990
Book Reviews ....................................... 993
Books Received for Review .......................... 997
News and Views ...................................... 1000
American Society of Hematology Abstracts .......... 1001
Volume Indexes ...................................... 1158
Information for Contributors ..................... xxiii
Advertisers’ Index ................................... xxix