CONTENTS

No. 1 (July)

Agar Culture Studies in 127 Cases of Untreated Acute Leukemia: The Prognostic Value of Reclassification of Leukemia According to In Vitro Growth Characteristics ............. M.A.S. Moore, G. Spitzer, N. Williams, D. Metcalf, and J. Buckley 1

DNA Polymerases in Normal and Leukemic Human Hematopoietic Cells Mary Sue Coleman, John J. Hutton, and F.J. Bollum 19

Analysis of Interacting Cell Populations in Cultures of Marrow From Patients With Neutropenia .................. J.S. Senn, H.A. Messner, and E.R. Stanley 33

Serum Colony-stimulating Activity of Dogs With Cyclic Neutropenia T.J. Yang, J.B. Jones, E.S. Jones, and R.D. Lange 41

An Animal Model of Chronic Aplastic Marrow Failure. I. Late Marrow Failure After Busulfan ................. Alec Morley and Judith Blake 49


In Vitro Production of Erythropoietin by Kidneys Perfused With a Serum-free Solution .......................... Allan J. Erslev 77

Blood Viscosity in Waldenström’s Macroglobulinemia ...... Mart Mannik 87

Cycling Characteristics of Human Lymphocytes In Vitro Lewis M. Schiffer, Arnold M. Markoe, Alan Winkelstein, Janet S.R. Nelson, and John M. Mikulla 99

Response to Prednisolone of Cultured Immunoglobulin-producing Human Lymphoid Cells ...... James E. Strong and Benjamin Drewinko 109

Sideroblastic Anemia Treated With Immunosuppressive Therapy J. Zervas, C.G. Geary, and S. Oleesky 117
CONTENTS

Acetylation and Methylation of Histones in Pernicious Anemia
  Lawrence Kass 125

Macrophage-Eosinophil Interactions in the Inflammatory Response to
  Trichinella spiralis… Ronald S. Walls, Peter Hersey, and Paul G. Quie 131

SPECIAL DEPARTMENTS

Abstracts ............................................................... 137
News and Views ........................................................ 146

No. 2 (August)

Effects of Degree of Thrombocytopenia on Thrombocytopoietic
  Response ......................................................... T.T. Odell, Jr., and J.R. Murphy 147
Platelet Antiheparin Activity: Storage Site and Release Mechanism
  Peter N. Walsh and Giovanna Gagnarelli 157
Inhibition of Human Platelet Aggregation by Plasmin Digests of Human
  and Bovine Fibrinogen Preparations; Role of Contaminating Factor
  VIII-related Material…… D.E. Culasso, M.B. Donati, G. de Gaetano,
  J. Vermyle, and M. Verstraeete 169
Ultrastructural Changes in Human Platelets During Arachidonic
  Acid-induced Aggregation .......... Albert W. Sedar, Melvin J. Silver,
  J. Bryan Smith, Carol M. Ingerman, and James J. Kocsis 177
Transient Monoclonal Gammapathy Associated With Cytomegalovirus
  Infection ............ Helen Vodopick, Stuart J. Chaskes, Alan Solomon,
  and John A. Stewart 189
Bone Marrow Involvement in Hodgkin’s Disease: Pathology and
  Response to MOPP Chemotherapy…… C.E. Myers, B.A. Chabner,
  V.T. De Vita, and H.R. Gralnick 197
Studies of Leukemic Cell Populations in Culture…… M.T. Aye, Y. Niho,
  J.E. Till, and E.A. McCulloch 205
Cytochemical and Morphologic Identification of Macrophages and
  Eosinophils in Tissue Cultures of Normal Human Bone Marrow
  D. Shoham, E. Ben David, and L.A. Rozenszajn 221
Cationic Proteins of Human Granulocytes. II. Separation of the Cationic
  Proteins of the Granules of Leukemic Myeloid Cells ………. I. Olsson
  and P. Venge 235
Intracellular Lysozyme in Mature Neutrophils and Blast Cells in Acute
  Leukemia .... Hans Karle, Niels Ebbe Hansen, and Sven-Aage Killman 247
Human Cyclic Neutropenia: Urinary Colony-stimulating Factor and
  Erythropoietin Levels........... Du Pont Guerry, IV, John W. Adamson,
  David C. Dale, and Sheldon M. Wolff 257
CONTENTS

Stimulation of Lipid Synthesis in Reticulocytes as a Response to Membrane Damage .......... Samir K. Ballas and Edward R. Burka 263

Glycogen Metabolism in Glycogen-rich Erythrocytes Shimon W. Moses, Nava Bashan, Alisa Gutman, and Per Arne Öckerman 275

Evidence for a Physiologic Role of Erythropoietin in Fetal Erythropoiesis Esmail D. Zanjani, Leon I. Mann, Harold Burlington, Albert S. Gordon, and Louis R. Wasserman 285

SPECIAL DEPARTMENTS

Abstracts ................................................................. 291

Book Reviews .......................................................... 300

Books Received for Review ........................................ 303

Correspondence: Iron Absorption; Dyserythropoietic Anemia ......... 304

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

American Society of Hematology .................................. 310

No. 3 (September)

Antibodies to Factor VIII: Specificity and Kinetics of Iso- and Hetero-antibodies in Hemophilia A .......... J.P. Allain and D. Frommel 313

A New Variant of Glucose-6-Phosphate Dehydrogenase Deficiency Hereditary Hemolytic Anemia, G6PD Cornell: Erythrocyte, Leukocyte, and Platelet Studies ......................... Denis R. Miller and Michael R. Wollman 323


Mechanism of Erythropoietin Production by Cobaltous Chloride Marilyn E. Miller, Donald Howard, Frederick Stohlman, Jr., and Patricia Flanagan 339

Impaired Erythropoietin Response in Anemic Premature Infants George R. Buchanan and Allen D. Schwartz 347

Independence of Iron Absorption From the Rate of Erythropoiesis C. Peschle, G. P. Jori, G. Marone, and M. Condorelli 353

Correlations Between Quantitative Assay of Red Cell-bound C3, Serologic Reactions, and Hemolytic Anemia .......... Jörg Th. Fischer, Lawrence D. Petz, George Garratty, and Neil R. Cooper 359

Alterations of Granulopoiesis Following Chemotherapy Peter Greenberg, Ine Bax, Beth Mara, and Stanley Schrier 375
CONTENTS


The Effect of Corticotropin on Mouse Spleen Colony-forming Cells
Robert E. Reed 393

Inhibition of Endotoxic Lipopolysaccharide-mediated Platelet Aggregation by Cobra Venom Anticomplementary Factor
Jack S.C. Fong, James G. White, and Robert A. Good 399


Uptake and Subcellular Distribution of Vitamin B12 in Mouse L1210 Leukemic Lymphoblasts ........ Elaine M. Ryel, Leo M. Meyer, and Richard A. Gams 427

Effects of Hydrocortisone on the Yield and Bactericidal Function of Granulocytes Collected by Continuous-flow Centrifugation
Mamoru Shoji and William R. Vogler 435

Teaching Blood Morphology: Audiovisual Method Compared to Microscope Slides With Written Text and Instructor .... John Stanley and Paul Reich 445

Editorial: Hematopoietic Stem Cell Theory in Relation to Possible Lymphoblastic Conversion of Chronic Myeloid Leukemia
Dane R. Boggs 449

SPECIAL DEPARTMENTS

Abstracts ................................................................. 455

News and Views ......................................................... 465

American Society of Hematology ........................................... 466

No. 4 (October)

Azurophil and Specific Granules of Blood Neutrophils in Chronic Myelogenous Leukemia: An Ultrastructural and Cytochemical Analysis .................. Joan L. Ullyot and Dorothy F. Bainton 469

Thrombocytosis in Chronic Granulocytic Leukemia: Incidence and Clinical Significance .... Joe E. Mason, Jr., Vincent T. DeVita, and George P. Canellos 483

Löffler’s Endomyocardial Fibrosis With Eosinophilia in Association With Acute Lymphoblastic Leukemia .......... P.M. Blatt, G. Rothstein, H.L. Miller, and W.J. Cathey 489

Type I Dyserythropoietic Anemia in an Elderly Patient
Jorge E. Maldonado and Howard F. Taswell 495
CONTENTS

Human Leukocyte Reactivity to Penicilloylated Erythrocytes
   D.E. Griswold and P. Calabresi
   501

Some Factors Influencing Granulocytic Colony Formation In Vitro by Human White Blood Cells............. Wolfgang Heit, Peter Kern, Bernhard Kubanek, and Hermann Heimpel
   511

Improved Plasma Culture System for Production of Erythrocytic Colonies In Vitro: Quantitative Assay Method for CFU-E
   David L. McLeod, Mona M. Shreeve, and Arthur A. Axelrad
   517

Effect of Erythropoietin on RNA Synthesis by Normal and Leukemic Bone Marrow and Spleen Cell Suspensions In Vitro
   Evelyn E. Handler, Naomi Mendelsohn, and Eugene S. Handler
   535

Hemoglobin Andrew-Minneapolis α^4β^4_Ly^+Am: A New High-Oxygen-Affinity Mutant Human Hemoglobin .............. Solomon J. Zak, Bernadine Brimhall, Richard T. Jones, and Manuel E. Kaplan
   543

Globin Synthesis in Iron-deficiency Anemia ............ Isaac Ben-Bassat, Miriam Mozel, and Bracha Ramot
   551

Hereditary Stomatocytosis With Hemolytic Anemia in the Dog
   Peter H. Pinkerton, Sheilah M. Fletch, Peter J. Brueckner, and Denis R. Miller
   557

The Prevalence of Plasma Thromboplatin Antecedent (PTA, Factor IX) Deficiency ......................... W. Angus Muir and Oscar D. Ratnoff
   569

Increased Efficiency of Leukocyte Collection by the Addition of Hydroxyethyl Starch to the Continuous Flow Centrifuge
   John Milton Mishler, Daniel C. Hadlock, Ignacio E. Fortuny, Robert W. Nicora, and Jeffrey J. McCullough
   571

The Dependence of Shape of Human Erythrocyte Ghosts on Calcium, Magnesium, and Adenosine Triphosphate ............. Jiri Palek, Gwendolyn Stewart, and Fabian J. Lionetti
   583

Changes in Platelet Shape and Structure After Freeze Preservation
   James P. Crowley, Anthony Rene, and C. Robert Valeri
   599

Editorial: Thrombopoietin ........................................ Shirley Ebbe
   605

SPECIAL DEPARTMENTS

Abstracts .......................................................... 609

Book Reviews ..................................................... 619

Books Received for Review........................................ 622

Correspondence: CLL and Ph1; Plasmacytes ...................... 623

American Society of Hematology ................................ 627
CONTENTS

No. 5 (November)

Complement-independent Clearance of IgG-sensitized Erythrocytes: Inhibition by Cortisone .......... John P. Atkinson and Michael M. Frank 629

The Discocyte–Echinocyte Transformation: Comparison of Normal and ATP-enriched Human Erythrocytes ................ Claude J. Féo and Pierre F. Leblond 639

Effects of Erythropoietin and Androgens on Erythroid Stem Cells After Their Selective Suppression by BCNU ............. K. R. Reissmann, K. B. Udupa, and K. Kawada 649

Erythropoietic Colonies in Cultures of Human Marrow ............ A. D. Tepperman, J. E. Curtis, and E. A. McCulloch 659

Specificity of Interacting Populations Affecting Granulopoiesis in Culture ........................................ H. A. Messner, J. E. Till, and E. A. McCulloch 671

Sickle Hemoglobin in Combination With Hb \( \text{JBangkok} (\alpha^2_2 \beta^2_2 + \gamma^0 \delta^0) \) Unsal Gunday, Carol Pauli, Mir Shamsuddin, R. George Mason, William J. Heinze, and George R. Honig 683

Regeneration of Reduced Glutathione in Erythrocytes: Stoichiometric and Temporal Relationship to Hexose Monophosphate Shunt Activity .......................... Earl N. Metz, Stanley P. Balcerzak, and Arthur L. Sagone, Jr. 691

The Frequency of Heterozygosity for S and C Hemoglobins in Western Pennsylvania ........................................ Dane R. Boggs 699


The Relationship Between Platelets and Bacteria ............. Richard A. Kahn and Linda J. Flinton 715

The Fate of Soluble Fibrin Monomer in Relation to Intravascular Fibrin Formation and Degradation in Rabbits .......... Victor Gurewich, Robert Wetmore, Andrzej Nowak, and Boguslaw Lipinski 723

Unusual Inclusions Occurring in the Blasts of Four Patients With Acute Leukemia and Down’s Syndrome ................. Richard D. Brunning, Janet Parkin, Fred Dick, and Mark Nesbit 735

The Number of In Vitro Stem Cells in AKR Leukemic Mice Christiane Chevalier, Nadine Gaillard, and Emilia Frindel 743

SPECIAL DEPARTMENTS

Abstracts ................................................................. 751

Book Reviews .......................................................... 760
CONTENTS ix

Correspondence: Serum Folate Assay ................................................. 764
News and Views ................................................................. 769

No. 6 (December)

In Memoriam: Frederick Stohlman, Jr., and Bernadette Stohlman
George Brecher, Eugene P. Cronkite, William C. Moloney,
and Shirley Ebbe Front of issue

Isoniazid Therapy: Clinical and Biochemical Observations
Peter T. Otis, Donald I. Feinstein, Samuel I. Rapaport,
and Mary Jane Patch 771

Concanavalin A Inhibition of Tissue Factor (Thromboplastin) Activity
L.R. Zacharski, R. Rosenstein, and P.G. Phillips 783

Nucleotide and Serotonin Metabolism in Platelets With Defective

Kinetics of Human Monocytopoiesis ......................... Gerhard Meuret,
Joachim Bammert, and Günther Hoffmann 801

Surface Remodeling vs. Whole-Cell Hemolysis of Reticulocytes Produced
With Erythroid Stimulation or Iron-deficiency Anemia
Steven E. Come, Stephen B. Shohet, and Stephen H. Robinson 817

Erythroid Colony Formation In Vitro by Dimethylsulfoxide-treated
Erythroleukemic Cells ......... Kenneth Goldstein, Harvey D. Preisler,
John D. Lutton, and Esmail D. Zanjani 831

Leukemia in Shoe-Workers Exposed Chronically to Benzene
Muzaffer Aksoy, Şakir Erdem, and Günçağ DinÇol 837

Inhibiting Effects of Human Plasma and Serum on Neutrophil Random
Migration and Chemotaxis .............. H.U. Keller, M.W. Hess,
and H. Cottier 843

PHA Responsiveness and Subpopulations of Circulating Lymphocytes in
Pernicious Anemia ......................... A.C. MacCuish, S.J. Urbaniak,
A.H. Goldstone, and W.J. Irvine 849

A Red Cell Enzyme Method for the Diagnosis of Acute Intermittent
Porphyria ......................... C. Richard Magnussen, Joel B. Levine,
Joyce M. Doherty, Judy O. Cheesman, and Donald P. Tschudy 857

A New Abnormal Hemoglobin O Padova, α 30 (Bll) Glu → Lys, and a
Dyserythropoietic Anemia With Erythroblastic Multinuclearity
Coexisting in the Same Patient .............. L. Vettore, G. De Sandre,
E.E. Di Iorio, K.H. Winterhalter, A. Lang, and H. Lehmann 869

Methemoglobin Reductase (Cytochrome b5 Reductase) Deficiency in
Congenital Methemoglobinemia ...... Takeshi Kitao, Yoshiki Sugita,
Yoshimasa Yoneyama, and Kenichi Hattori 879