CONTENTS

No. 1 (July)

Diurnal Variation of Proliferative Activity in the Human Bone Marrow

Alvin M. Mauer 1

Some Properties of "RLP"—A Factor from Sheep Spleen Capable of Inhibiting Radiation Leukemogenesis in Mice

I. Berenblum, G. Cividalli, N. Trainin and M. E. Hodes 8

Megakaryocytopoiesis in the Rat

Shirley Ebbe and Frederick Stohlman, Jr. 20

Tissue Culture of Cells Already in DNA Synthesis from Patients with Infectious Mononucleosis

Archie A. MacKinney, Jr. 36

The Removal of in Vitro Damaged Erythrocytes from the Circulation of Normal and Splenectomized Rats

John E. Ultmann and Clara S. Gordon 49

Alterations of Erythrocyte Lactate Dehydrogenase in Man

W. H. Starkweather, L. Cousineau, H. K. Schoch and C. J. Zarafonetis 63

Increased Hemolysis after Intramuscular Iron Administration in Patients with Paroxysmal Nocturnal Hemoglobinuria

Charles E. Mengel, Herbert E. Kann, Jr. and Bert W. O'Malley 74

The Carbohydrate Intermediates of Erythrocytes Deficient in Glucose-6-Phosphate Dehydrogenase

A. William Shafer 82

Unbound Amino Acids in the Plasma and Erythrocytes of Children with Various Anemias and with Erythroblastosis Fetalis

María Nicolaidou, Charles C. Lund and Rapier H. McMenamy 91

Brief Report: Adherence and Separation of Leukemic Cells on Glass Bead Columns

Yale Rabinowitz 100

Proposal for Adoption of an International Method and Standard Solution for Hemoglobinometry, Specifications for Preparation of the Standard Solution, and Notification of Availability of a Reference Standard Solution 104

No. 2 (August)

Immunologic and Cytogenetic Studies of Chronic Lymphocytic Leukemic Cells....Joost J. Oppenheim, Jacqueline Whang and Emil Frei, III 121

III

Medical Library

ST. VINCENT'S HOSPITAL

New York 11, N. Y.
IV CONTENTS

The Persistence of Extramedullary Leukemic Infiltrates during Bone Marrow Remission of Acute Leukemia

Boyd A. Nies, Gerald P. Bodey, Louis B. Thomas, George Brecher and Emil J. Freireich 133

Failure of Thymectomy to Alter the Subsequent Course of Human Acute Leukemia in Drug-Induced Remission

Rouben M. Jihi, Milton S. Sacks, Eugene J. Linberg and Carroll L. Spurling 142

Chronic Granulocytic Leukemia Complicated by Ulcerative Colitis: Elevated Leukocyte Alkaline Phosphatase and Possible Modifier Gene Deletion

Robert B. Rosen and Raymond L. Teplitz 148

Studies of the Reticuloendothelial Mass and Sequestering Function of Rat Bone Marrow

Willis R. Keene and James H. Jandl 157

Correlation of S Hemoglobin with Glucose-6-Phosphate Dehydrogenase Deficiency and Its Significance

Roger A. Lewis and Michael Hathorn 176

Renal Mechanism for Excretion of Porphyrin Precursors in Patients with Acute Intermittent Porphyrinemia and Chronic Lead Poisoning

Robert Druyan, Birgitta Haeger-Aronsen, Wilfried von Studnitz and Jan Waldenström 181

Comparison of Hematologic and Febrile Response to Endotoxin in Man

Sheldon M. Wolff, Melvin Rubenstein, John H. Mulholland and David W. Alling 190

Measurement of Serum B12 Level Using Radioisotope Dilution and Coated Charcoal

Kam-Seng Lau, Chester Gottlieb, Louis R. Wasserman and Victor Herbert 202

Brief Report: Simplified Myeloperoxidase Stain Using Benzidine Dihydrochloride

Leonard S. Kaplow 215

Editorial: Therapy of Acute Leukemia, 1965

William Dameshek, Thomas F. Necheles, Harvey E. Finkel and Donald M. Allen 220

News and Views 226

Book Reviews 231

Correspondence 233

Abstracts 235

No. 3 (September)

Polycythemia Vera: Age Relationships and Survival

Edwin E. Osgood 243

Exaggerated Delayed Hypersensitivity to Mosquito Bites in Chronic Lymphocytic Leukemia

Robert I. Weed 257

Morphologic and Developmental Differences between the Cells of the Chicken's Thymus and Bursa of Fabricius

Raymond D. A. Peterson and Robert A. Good 259
CONTENTS

Leukocyte Labeling in Rats during and after Continuous Infusion of Tritiated Thymidine: Implications for Lymphocyte Longevity and DNA Reutilization

Stephen H. Robinson, George Brecher, Ira S. Lourie and James E. Haley 281

The Effect of Differing Demands for Blood Cell Production on DNA Synthesis by Hemopoietic Colony-Forming Cells of Mice

A. J. Becker, E. A. McCulloch, L. Siminovitch and J. E. Till 296

Quantitation of Femoral Bone Marrow Cellularity of Rats with Acute Chloroleukemia

Evelyn E. Varsa, Eugene S. Handler and Albert S. Gordon 309

Hepatic Xanthine Oxidase and Ferritin Iron in the Developing Rat

A. Mazur and A. Carleton 317

Experimental Production of Cold Agglutinins in Rabbits

Nicolas Costea, Vincent Yakulis and Paul Heller 323

Observations on Leukemia in Wistar and Wistar Furth Rats

William C. Moloney, Antonio E. Boschetti and Geraldine Dowd 341

Brief Report: Observations on Conjugated and Unconjugated Blood Folate Levels in Megaloblastic Anemia and the Effects of Vitamin B12

K. N. Jeejeebhoy, S. M. Pathare and J. M. Noronha 354

A Case of Prolonged Thrombocytopenia in Childhood Terminating in Leukemic Reticuloendotheliosis

Colin A. S. Galloway and Elizabeth M. Innes 360

Analytical Review: Leaky Red Cells ......................... James H. Jandl 367

Editorial: Radiophosphorous Therapy in Polycythemia .... Baruch Modan 383

Book Review ................................................................. 387

Abstracts ........................................................................ 389

No. 4 (October)

The Cellular Basis of the Genetically Determined Hemopoietic Defect in Anemic Mice of Genotype Sl/Sld

E. A. McCulloch, L. Siminovitch, J. E. Till, E. S. Russell and S. E. Bernstein 399

Effects of Large Doses of Androgen on Rodent Erythropoiesis and Body Composition .......... David G. Nathan and Frank H. Gardner 411

Anemia in Experimental Protein Deficiency in the Rhesus Monkey with Special Reference to Iron Metabolism

S. K. Sood, M. G. Deo and V. Ramalingaswami 421

Heinz Body Anemia: An Ultrastructural Study. II. Red Cell Sequestration and Destruction ................. Richard A. Rikkind 433

Granulocytocytois in Human Bone Marrow Cultures Studied by Means of Kinematography ..................... I. Boll and A. Kühn 449

The Philadelphia Chromosome in an Unusual Case of Myeloproliferative Disease ............... Clark W. Heath, Jr. and William C. Moloney 471
CONTENTS

Alkaline Phosphatase in Neutrophil Leukocytes of Patients with Infectious Mononucleosis and the Effect of Corticosteroid Therapy
Ludmila Srémková, Karel Kouba and Naděžda Bendová 479

Reticuloendothelial Phagocytic Function in Patients with Leukemia, Lymphoma and Multiple Myeloma
George S. Groch, Pasquale E. Perillie and Stuart C. Finch 489

The Activation of Factor VIII by Thrombin
A. H. Özge-Anwar, G. E. Connell and J. F. Mustard 500

News and Views .................................................. 510
Book Reviews ..................................................... 510
Abstracts .......................................................... 512

No. 5 (November)

Evidence for a New Plasma Thromboplastin Factor. I. Case Report, Coagulation Studies and Physicochemical Properties
William E. Hathaway, Loretta P. Belhasen and Helen S. Hathaway 521

Effect of Heparin upon Various Forms of the Thrombohemorrhagic Phenomenon (THP)
Hans Selye, Beatriz Tuchweber and Giulio Gabbiani 533

Intravascular Activation of the Clotting System with Phospholipids
F. Rodríguez-Erdmann 541

Fine Structural Localization of Adenosine Triphosphatase in Human Platelets and Other Blood Cells
James G. White and William Krivit 554

An Assay for the Mitogenic Activity of Phytohemagglutinin Preparations
Douglass C. Tormey and Gerald C. Mueller 569

The Mitotic Activity of Circulating Atypical Mononuclear Cells in Infectious Mononucleosis......................... R. L. Carter 579

Erythroid Homograft Following Leukocyte Transfusion in a Patient with Acute Leukemia
I. Clinical Studies and Implications
Robert H. Levin, Jacqueline Whang, Paul P. Carbone and Emil J. Freireich 587

II. Serologic and Immunochemical Studies
Paul J. Schmidt, Mitsuo Yokoyama, Mary H. McGinniss and Robert H. Levin 597

Chromosomal Aberrations in Acute Leukemia
Kosmas A. Kiossoglou, W. J. Mitus and William Dameshek 610

The Effectiveness of Combinations of Antileukemic Agents in Inducing and Maintaining Remission in Children with Acute Leukemia
Emil Frei, III et al. 642

An Epidemiological Study of Polycythemia Vera........ Baruch Modan 657

A Fetal Hemoglobin with Abnormal γ-Polypeptide Chains: Hemoglobin Warren

Two δ-Chain Abnormal Hemoglobins in One Individual
Titus H. J. Huisman and Ralph C. Lee 677
### CONTENTS

Hematologic and Biochemical Indices in the East African Baboon  
*Henry Foy, Athena Kondi and Verstistine Mbaya* 682

Authors' Summaries of Articles Accepted July, 1965 687

News and Views 691

Book Reviews 692

Abstracts 694

No. 6 (December)

The Sites of Hemoglobin Catabolism.  
*Willis R. Keene and James H. Jandl* 705

Circulating Megakaryocytes and Platelet Release in the Lung  
*Richard M. Kaufman, Romano Airo, Simeon Pollack and William H. Crosby* 720

Effect of Anticoagulant and ABO Incompatibility on Recovery of Transfused Human Platelets  
*Richard H. Aster* 732

Platelet Tagging with Tritium Labeled Diisopropylfluorophosphate  
*Edward Adelson, Richard M. Kaufman, Ciro Berdeguez, Arnold A. Lear and Jack J. Rheingold* 744

Giant Hemangioma with Thrombocytopenia  
*Herbert E. Brizel and Giovanni Raccuglia* 751

The Effect of Orally Administered Bovine Spleen Preparations on Platelet and Leukocyte Counts of Rats  
*Daniel C. Plunket, William H. Crosby, Ferdinand Ruiz and Hans-Jürg Huser* 757

Elaboration of a Model for the Formation of Lymphocytes in the Thymic Cortex of Young Adult Rats  
*G. Sainte-Marie and C. P. Leblond* 765

Human Bone Marrow Chromosomes in Megaloblastic Anemia  
*Edward R. Powsner and Lawrence Berman* 784

Relation of Reticulocytosis to Positive Coombs Tests in NZB and Other Mice  
*Pamela J. Giltinan, Leslie C. Norins and Margaret C. Holmes* 790

Unstable Chromosome Changes in Tuberculin-Stimulated Leukocyte Cultures from Irradiated Patients. Evidence for Immunologically Committed, Long-Lived Lymphocytes in Human Blood  
*Peter C. Nowell* 798

A Clinical and Experimental Study of Acquired Inhibitors to Factor VIII  
*Harold R. Roberts, Margaret B. Scales, John T. Madison, William P. Webster and George D. Penick* 805

Brief Report: The Early Loss of Radioactivity in Cr51 Survival Curves: Destruction of Cells or Loss of the Label?  
*N. Kleine and H. Heimpel* 819

Bilirubin Formation in the Liver from Nonhemoglobin Sources. Experiments with Isolated, Perfused Rat Liver  
*Stephen H. Robinson, Charles A. Owen, Jr., Eunice V. Flock and Rudi Schmid* 823