CONTENTS

REVIEW ARTICLE

Review: Hematopoietic Growth Factors: Understanding Functional Diversity in Structural Terms
K. Kaushansky and P.A. Karplus

RAPID COMMUNICATIONS

Effect of All Transretinoic Acid in Newly Diagnosed Acute Promyelocytic Leukemia. Results of a Multicenter Randomized Trial

G6PD Nara: A New Class 1 Glucose-6-Phosphate Dehydrogenase Variant With an Eight Amino Acid Deletion
A. Hirono, H. Fujii, M. Shima, and S. Miwa

Heparin Oligosaccharides Bind L- and P-Selectin and Inhibit Acute Inflammation

CLINICAL INTERVENTION AND THERAPEUTIC TRIALS

Fatal Epstein-Barr Virus-Associated Hemophagocytic Syndrome

Recombinant Granulocyte Colony-Stimulating Factor Administration to Healthy Volunteers: Induction of Immunophenotypically and Functionally Altered Neutrophils Via an Effect on Myeloid Progenitor Cells

Phase I Trial With Recombinant Human Interleukin-3 in Patients With Lymphoma Undergoing Autologous Bone Marrow Transplantation

HEMATOPOIESIS

Identification and Characterization of a High-Affinity Granulocyte-Macrophage Colony-Stimulating Factor Receptor on Primary Rat Oligodendrocytes
G.C. Baldwin, E.N. Benveniste, G.Y. Chung, J.C. Gasson, and D.W. Golde

Human Primitive Hematopoietic Progenitor Cells Are More Enriched in KITlow Cells Than in KIThigh Cells

Growth Factors Increase Amphotropic Retrovirus Binding to Human CD34+ Bone Marrow Progenitor Cells
G.M. Crooks and D.B. Kohn

Human Granulocyte-Macrophage Colony-Stimulating Factor Receptor Signal Transduction Requires the Proximal Cytoplasmic Domains of the α and β Subunits
M. Weiss, C. Yokoyama, Y. Shikama, C. Naugle, B. Druker, and C.A. Siewe

(Continued on following page)
(Contents continued)

Direct and Reversible Inhibitory Effect of the Tetrapeptide Acetyl-N-Ser-Asp-Lys-Pro (Seraspenide) on the
Growth of Human CD34+ Subpopulations in Response to Growth Factors 

D. Bonnet, F.M. Lemoine, 
S. Pontvert-Deluca, C. Baillou, A. Najman, and M. Guigon

Age-Dependent Amelioration of Hypoplastic Anemia in Ws/Ws Rats With a Small Deletion at the Kinase
Domain of c-kit 

M. Morimoto, T. Kasugai, H. Tei, T. Jippo-Kanemoto, Y. Kanakura, and Y. Kitamura

Comparison of the Human and Mouse Erythropoietin Genes Shows Extensive Homology in the Flanking
Regions

D.L. Galson, C.C. Tan, P.J. Ratcliffe, and H.F. Bunn

Mouse Strain Variability in the Expression of the Hematopoietic Stem Cell Antigen Ly-6A/E by Bone Marrow
Cells

G.J. Spangrude and D.M. Brooks

Persistence of Human Multilineage, Self-Renewing Lymphohematopoietic Stem Cells in Chimeric Sheep

G. J. Spangrude and D.M. Brooks

The 47-kD Fragment of Talin Is a Substrate for Protein Kinase P

P.C. Simons and L. Elias

HEMOSTASIS AND THROMBOSIS

Mechanisms of Thrombin Generation During Surgery and Cardiopulmonary Bypass

M.D. Boisclair, 
D.A. Lane, H. Philippou, M.P. Esnouf, S. Sheikh, B. Hunt, and K.J. Smith

Glycoprotein IIb and IIIa Retention on Fibrinogen-Coated Surfaces After Lysis of Adherent Platelets

E.I.B. Peerschke

Platelets Deficient in Glycoprotein IIIb Aggregate Normally to Collagens Type I and III But Not to Collagen
Type V

B. Kehrel, A. Kronenberg, J. Rauterberg, D. Niesing-Bresch, U. Niehues, J. Kardoeus, 
B. Schwippert, D. Tschöpe, J. van de Loo, and K.J. Clemetson

C1-Inhibitor-Serine Proteinase Complexes and the Biosynthesis of C1-Inhibitor by Hep G2 and U 937 Cells

F.A. Patston, R.L. Medcalf, Y. Kourteva, and M. Schapira

Plasma Dermatan Sulfate Proteoglycan in a Patient on Chronic Hemodialysis

M.A. Delorme, N. Coronesi, N. Chirmule, V.S. Kalyanaraman, and S. Pahwa

Amino Acid 489 Is Encoded by a Mutational “Hot Spot” on the β2 Integrin Chain: The CA/TU Human Platelet
Alloantigen System


IMMUNOBIOLOGY

Accelerated Apoptosis in Peripheral Blood Mononuclear Cells (PBMCs) From Human Immunodeficiency Virus
Type-I Infected Patients and in CD4 Cross-Linked PBMCs From Normal Individuals

N. Oyaizu, 
T.W. McCloskey, M. Coronesi, N. Chirmule, V.S. Kalyanaraman, and S. Pahwa

Phenotypic and Functional Analysis of T-Cell Precursors in the Human Fetal Liver and Thymus: CD7
Expression in the Early Stages of T- and Myeloid-Cell Development

A. Bárcena, M.O. Muench, 

Subpopulations of Bone Marrow Fibroblasts Support VLA-4–Mediated Migration of B-Cell Precursors

J. Tang, G. Scott, and D.H. Ryan

NEOPLASIA

Molecular Genetics of Myeloid Leukemia: Identification of the Commonly Deleted Segment of Chromosome 20

D. Roulston, R. Espinosa III, M. Stoffel, G.I. Bell, and M.M. Le Beau

Expression and Release of CD27 in Human B-Cell Malignancies

M.H.J. van Oers, S.T. Pals, L.M. Evers, 
C.E. van der Schoot, G. Koopman, J.M.G. Bonfier, R.Q. Hintzen, A.E.G. Kr. von dem Borne, 
and R.A.W. van Lier

(Continued on following page)
CONTENTS
(Contents continued)

Analysis of the Mechanism of Adhesion of Precursor-B Acute Lymphoblastic Leukemia Cells to Bone Marrow Fibroblasts .......................................... K. Bradstock, V. Makrynikola, A. Bianchi, and K. Byth 3437


PHAGOCYTES
Regulation of Human Neutrophil Aggregation: Comparable Latent Times, Activator Sensitivities, and Exponential Decay in Aggregability for FMLP, Platelet-Activating Factor, and Leukotriene B4 Y.P. Rochon and M.M. Frojmovic 3460

RED CELLS
Senescence of Canine Biotinylated Erythrocytes: Increased Autologous Immunoglobulin Binding Occurs on Erythrocytes Aged In Vivo for 104 to 110 Days ....... J.A. Christian, A.H. Rebar, G.D. Boon, and P.S. Low 3469

Hemoglobin S Polymerization and Gelation Under Shear II. The Joint Concentration and Shear Dependence of Kinetics ............................................................. R.E. Samuel, A.E. Guzman, and R.W. Briehl 3474

Membrane Attachment Sites for the Membrane Cytoskeletal Protein 4.1 of the Red Blood Cell .... J.C. Pinder, A. Chung, M.E. Reid, and W.B. Gratzer 3482

TRANSFUSION MEDICINE
Assessment of the Hemostatic Effectiveness of Human Platelets Treated With Aminomethyltrimethyl Psoralen and UV A Light Using a Rabbit Ear Bleeding Time Technique .... S.J. Wagner, L. Bardossy, G. Moroff, R.Y. Dodd, and M.A. Blajchman 3489

TRANSPLANTATION
Immunoglobulin Levels and Monoclonal Gammapathies in Children After Bone Marrow Transplantation E.J.A. Gerritsen, M.J.D. van Tol, A.C. Lankester, C.P.M. van der Weijden-Ragas, C.M. Jol-van der Zijde, N.J. Oudeman-Gruber, J. Radl, and J.M. Vossen 3493

CORRESPONDENCE
Rapid Detection of Chain Termination Mutations in the a2 Globin Gene ...................................................... 3503
Splenectomy for Immune Thrombocytopenia ................................. 3504
Role of Accessory Spleens in Human Immunodeficiency Virus-Related Immune Thrombocytopenic Purpura 3504
Low Incidence of Activity of P-Glycoprotein (P-170) in De Novo Acute Lymphoblastic Leukemia Determined by a Flow Cytometric Assay ................................. 3505
Plasma Cell Labeling Index, β2-Microglobulin, and C-Reactive Protein: What is the Best Combination for Myeloma Prognosis? ......................................................... 3507
Use of an Inbred Mouse Model System for Studies of Allogeneic Transfusion-Induced Immunosuppression 3509
Cytokine Priming of Acute Myeloid Leukemia May Produce a Pulmonary Syndrome When Associated With a Rapid Increase in Peripheral Blood Myeloblasts ...................................................... 3511

(Continued on following page)
SPECIAL DEPARTMENTS

Announcements ................................................................. 3513
Information for Contributors ........................................... xxiv

All manuscripts submitted to BLOOD and subsequently accepted for publication will be assessed a $50.00 charge per published page. This charge is necessary to offset the increasing costs of publication.

All manuscripts submitted for consideration for publication in BLOOD should be sent to: James D. Griffin, MD, Editor, BLOOD, The Journal of the American Society of Hematology, 1018 Beacon Street, Brookline, MA 02146. For other information, call (617) 738-9808.

The American Society of Hematology certifies that the continuing medical education offering provided by BLOOD, The Journal of The American Society of Hematology, meets the criteria for up to 22 hours of credit in Category 5(a) for the Physician’s Recognition Award of the American Medical Association.
