CONTENTS

BLOOD

The Journal of
The American Society of Hematology

VOL 69, NO 3
MARCH 1987

CONTENTS

Review: Protein Kinase C and the Activation of the Human Neutrophil NADPH-Oxidase......... Alfred I. Tauber 711

Diversity of the Effect of Recombinant Tumor Necrosis Factors α and β on Human Myelogenous Leukemia Cell Lines.................. Miloslav Beran, Borje S. Andersson, Peter Kelleher, Kathleen Whalen, Kenneth McCredie, and Jordan Gutterman 721

Erythrocyte Deformation in Shear Flow: Influences of Internal Viscosity, Membrane Stiffness, and Hematocrit Kazunori Kon, Nobuji Maeda, and Takeshi Shiga 727

Lack of Association Between Abnormalities of the Chromosome 9 Short Arm and Either “Lymphomatous” Features or T Cell Phenotype in Childhood Acute Lymphocytic Leukemia............................... Andrew J. Carroll, Robert P. Castleberry, and William M. Crist 735

Increased Resistance to Membrane Deformation of Shape-Transformed Human Red Blood Cells ...... Anne Chabanel, Walter Reinhart, and Shu Chien 739


Characterization of Glucocorticoid Receptors and Glucocorticoid Receptor mRNA in Human Leukemia Cells: Stabilization of the Receptor by Diisopropylfluorophosphate ........... Clark W. Distelhorst and Roger Miesfeld 750

In Vitro and In Vivo Effects of Deferoxamine in Neonatal Acute Leukemia............................ Zeev Estrov, Akio Tawa, Xin-Hua Wang, Ian D. Dubé, Hassan Sulih, Amos Cohen, Erwin W. Geifand, and Melvin H. Freedman 757

Activation of Neutrophil Superoxide Production by Concanavalin A Can Occur at Low Levels of Intracellular Ionized Calcium.......................................................... John C. Whitin, Kazuhiro Takahashi, and Harvey J. Cohen 762

Inactivation of Single-Chain Urokinase (Pro-urokinase) by Thrombin and Thrombin-like Enzymes: Relevance of the Findings to the Interpretation of Fibrin-Binding Experiments......................... Victor Gurewich and Ralph Pannell 769

Large Numbers of Primitive Stem Cells Are Active Simultaneously in Aggregated Embryo Chimeric Mice D.E. Harrison, C. Lerner, P.C. Hoppe, G.A. Carlson, and D. Alling 773

Factor XIII A Is Synthesized and Expressed on the Surface of U937 Cells and Alveolar Macrophages Richard L. Kradin, Garry W. Lynch, James T. Kurnick, Mark Erikson, Robert B. Colvin, and Jan McDonagh 778

Thrombocytopenia Associated With Pregnancy in a Patient With Type IIIB von Willebrand's Disease Margaret E. Rick, Sybil B. Williams, Ronald A. Sacher, and Laurie P. McKeown 786


Plasminogen Activator Inhibitor: A Regulator of Ancrod-Induced Fibrin Deposition in Rabbits Chitra Krishnamurti, Charles F. Barr, M. Alycia Hassett, G. David Young, and Barbara M. Alving 798

Culture From Human Bone Marrow of Blast Progenitor Cells With an Extensive Proliferative Capacity Scott D. Rowley, Saul J. Sharkis, Catherine Hattenburg, and Lyle L. Sensenbrenner 804

(Continued on following page)
(Contents continued)

Normal Synthesis and Expression of Endothelial IIb/IIIa in Glanzmann’s Thrombasthenia
J.C. Giltay, O.C. Leeksma, C. Breederveld, and J.A. van Mourik

Human Neutrophil Elastase Alters Human α-Thrombin Function: Limited Proteolysis Near the γ-Cleavage Site Results in Decreased Fibrinogen Clotting and Platelet-Stimulatory Activity
Mark S. Brower, Daniel A. Walz, Kimberly E. Garry, and John W. Fenton II

Variability of the Erythropoietic Response in Autoimmune Hemolytic Anemia: Analysis of 109 Cases
Jane L. Liesveld, Jacob M. Rowe, and Marshall A. Lichtman

Multilineage Synergistic Activity Produced by a Murine Adherent Marrow Cell Line
Peter Quesenberry, Zengxuan Song, Elizabeth McGrath, Ian McNiece, Richard Shadduck, Abdul Waheed, Gwen Baber, Ellen Kleeman, and Donald Kaiser

Value of Monoclonal Anti-CD22 (p135) Antibodies for the Detection of Normal and Neoplastic B Lymphoid Cells

Evaluation of Circulating Malignant Cells Provides Prognostic Information in Cutaneous T Cell Lymphoma
Geraldine P. Schechter, Edward A. Sausville, A. Betty Fischmann, Frances Soehnlen, Joyce Eddy, Mary Matthews, Adi Gazdar, John Guccon, Dianne Munson, Robert Makuch, and Paul A. Bunn, Jr

Abnormal Prothrombin in the Plasma of Rats Carrying Hepatic Tumors
D.V. Shah, J.A. Engelke, and J.W. Suttie

Chromosome Abnormalities in AIDS-Associated Lymphadenopathy

Sodium Fluoride Mimics Effects of Both Agonists and Antagonists on Intact Human Platelets by Simultaneous Modulation of Phospholipase C and Adenylate Cyclase Activity
Joachim Kienast, Jef Arnout, György Pfliegler, Hans Deckmyn, Bernard Hoet, and Jos Vermylen

Factor XIIIa Formation Promoted by Complexing of α-Thrombin, Fibrin, and Plasma Factor XIII
Charles S. Greenberg, Komandoor E. Achyuthan, and John W. Fenton II

Durability of Responses to Interferon Alfa-2b in Advanced Hairy Cell Leukemia

The Secretory Pathway of Bovine Platelets
James G. White

Expression of the Human Monocyte Membrane Antigen gp55 by Murine Fibroblasts After DNA-Mediated Gene Transfer
Richard A. Ashmun, Stephen C. Peiper, Matthew B. Rebentisch, and A. Thomas Look

Chronic Myelogenous Leukemia: Amplification of a Rearranged c-abl Oncogene in Both Chronic Phase and Blast Crisis
Steven J. Collins and Mark T. Groudine

Augmentation of In Vitro Human Marrow Erythropoiesis Under Physiological Oxygen Tensions Is Mediated by Monocytes and T Lymphocytes
Rukmani Pennathur-Das and Lee Levitt

T Cell Differentiation Stages Identified by Molecular and Immunologic Analysis of the T Cell Receptor Complex in Childhood Lymphoblastic Leukemia
Joseph Mirro Jr, Geoffrey Kitchingman, Frederick G. Behm, Sharon B. Murphy, and Rakesh M. Goorha

The Influence In Vivo of Murine Colony-Stimulating Factor–1 on Myeloid Progenitor Cells in Mice Recovering From Sublethal Dosages of Cyclophosphamide
Hal E. Broxmeyer, Douglas E. Williams, Scott Cooper, Abdul Waheed, and Richard K. Shadduck

Monoclonal Anti-Light Chain Idiotype as a Tumor-Specific Probe for Human Neoplastic B Lymphocytes

Studies Investigating Platelet Aggregation and Release Initiated by Sera From Patients With Thrombotic Thrombocytopenic Purpura
John G. Kelton, Jane C. Moore, and William G. Murphy

(Continued on following page)
CONTENTS

Prognosis of Chronic Lymphocytic Leukemia: A Multivariate Regression Analysis of 325 Untreated Patients
Jung S. Lee, Dennis O. Dixon, Hagop M. Kantarjian, Michael J. Keating, and Moshe Talpaz

Functional Differentiation of Normal Human Neutrophils
Lewis Glasser and Roger L. Fiederlein

F-Actin Content of Neonate and Adult Neutrophils
Ann Hilmo and Thomas H. Howard

CONCISE REPORTS

The Synthetic RGDS Peptide Inhibits the Binding of Fibrinogen Lacking Intact α Chain Carboxyterminal Sequences to Human Blood Platelets
Ellinor I. B. Peerschke and Dennis K. Galanakis

Blast Cell Colony Assay for Umbilical Cord Blood and Adult Bone Marrow Progenitors
Anne G. Leary and Makio Ogawa

Cell Surface Phenotyping of Megakaryoblasts
Tadashi Koike, Sadao Aoki, Souichi Maruyama, Miwako Narita, Toshie Ishizuka, Hirofumi Imanaka, Toyoiko Adachi, Hiroo Maeda, and Akira Shibata

Molecular Analysis of Interferon-Induced Suppression of Philadelphia Chromosome in Patients With Chronic Myeloid Leukemia
G. Yoffe, M. Blick, H. Kantarjian, G. Spitzer, J. Gutterman, and M. Talpaz

Differences in Coagulant and Fibrinolytic Activities of Cultured Human Endothelial Cells Derived From Omental Tissue Microvessels and Umbilical Veins
Wolfgang Speiser, Elisabeth Anders, Klaus T. Preissner, Oswald Wagner, and Gert Müller-Berghaus

T Cell γ Gene Rearrangements in Hematologic Neoplasms
Norio Asou, Masao Matsuoka, Toshio Hattori, Fumio Kawano, Shuichiro Maeda, Kazunori Shimada, and Kiyoshi Takatsuki

bcr-abl RNA in Patients With Chronic Myelogenous Leukemia
E. Shtivelman, R.P. Gale, O. Dreazen, A. Berrebi, R. Zaizov, I. Kubonishi, I. Miyoshi, and E. Canaani

SPECIAL DEPARTMENTS

Correspondence
Erratum
Announcements
Information for Contributors
Effective January 1, 1987, 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: John W. Adamson, MD, Editor, BLOOD, University District Building—Room 410, 1107 NE 45th St, Seattle, WA 98105. Telephone: (206) 545-8080.

Please note that a processing fee of $50.00 must accompany each manuscript submitted for publication in BLOOD.

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.